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About This Document

Purpose

This reference guide provides a list of the informational, warning, and error messages issued by the Red Brick® Warehouse processes. Most messages are followed by a description of the probable cause of the message and an appropriate response for the user. This guide also includes a list of the event log messages issued by Red Brick Warehouse processes and a description of the event that generates each message.

Audience

The intended users of this guide are system and database administrators, application developers, and end users.

Knowledge of the environment in which you are working—operating system, warehouse, or end-user tool—is assumed.

Organization

This reference guide is organized as follows:

• Chapter 1, “Event Log Messages,” describes the event log message format, followed by a listing of the messages.

• Chapter 2, “Informational, Warning, and Error Messages,” describes the informational, warning, and error message format, followed by a listing of these messages.
About This Document

Related Documentation

Related Documentation

The standard documentation set for Red Brick Warehouse includes the following documents:

**Installation and Configuration Guide**

Installation and configuration information, as well as platform-specific material, about Red Brick Warehouse and related products. Customized for either UNIX-based or Windows NT systems.

**Warehouse Administrator’s Guide**

Description of warehouse architecture, supported schemas, and other concepts relevant to warehouse databases. Procedural information for designing and implementing a warehouse database, maintaining a database, and tuning a database for performance. Includes a description of the system tables and the configuration file (`rbw.config`). Customized for either UNIX-based or Windows NT systems.

**Table Management Utility Reference Guide**

Description of the Table Management Utility, including all activities related to loading and maintaining data. Also includes information about data replication and the `rb_cm` copy management utility.

**SQL Reference Guide**

Complete language reference for the Red Brick Systems SQL implementation and RISQL® extensions for warehouse databases.

**SQL Self-Study Guide**

Example-based review of SQL and introduction to the RISQL extensions, the macro facility, and Aroma, the sample database.

**RISQL Entry Tool and RISQL Reporter User’s Guide**

Complete guide to the RISQL Entry Tool, a command-line tool used to enter SQL statements, and the RISQL Reporter, an enhanced version of the RISQL Entry Tool with report-formatting capabilities.

**Messages and Codes Reference Guide**

Complete listing of all informational, warning, and error messages generated by warehouse products, including probable causes and recommended responses. Also includes event log messages that are written to the log files.

**Release Notes**

Information pertinent to the current release that was unavailable when the documents were printed.
In addition to the standard documentation set, the following documents are included for specific sites:

  Description of the Red Brick Vista™ aggregate navigation and advice system, including procedures for rewriting queries and getting advice on the best set of aggregate tables and views to create. Includes detailed examples of queries whose performance can be dramatically increased by using aggregate navigation.

- **SQL-BackTrack for Red Brick Warehouse User’s Guide**
  Complete guide to SQL-BackTrack™ for Red Brick Warehouse, a command-line interface for backing up and recovering warehouse databases. Includes procedures for defining backup configuration files, performing online and checkpoint backups, and recovering the database to a consistent state.

- **Client Connector Pack Installation Guide**
  Procedures for installing and configuring the Red Brick ODBC Driver, the RISQL Entry Tool, and the RISQL Reporter on client systems. Included for those sites that purchase the Client Connector Pack.

- **ODBC Connectivity Guide**
  Information about ODBC conformance levels and instructions for compiling and linking an ODBC application using the Red Brick ODBClib SDK.

- **Red Brick Data Mine User’s Guide**
  Description of the data mining process, and procedural information for using the Red Brick Data Mine™ SQL-based interface to find hidden or unpredictable relationships among the data in a data set. Included for those sites that purchase the Red Brick Data Mine option.

  Description of the data mining process, and procedural information for performing data mining using Red Brick’s GUI-based product in a Microsoft Windows environment.

Additional references you might find helpful include:

- An introductory-level book on SQL
- An introductory-level book on relational databases
- Documentation for your hardware platform and operating system

Online Documentation

The English version of the Red Brick Warehouse documentation is also available in Adobe Acrobat format (PDF) on a separate CD-ROM.
Customer Support

Please review the following information before contacting the Customer Support Center at Red Brick Systems.

Support Solutions Warehouse

The Support Solutions Warehouse is the Customer Support Center’s external web site, an online resource that registered Red Brick customers can use to:

- Submit new cases.
- Read release notes.
- Find answers to frequently asked questions (FAQs).
- Search the Problems and Solutions database.

To use the Support Solutions Warehouse, point your web browser to the following URL and enter your registered username and password:

http://www.redbrick.com/RBCustomer/index.htm

If you do not have a registered username and password, contact the Customer Support Center by telephone, fax, or e-mail.

General and Technical Questions

If you have general sales-related questions or technical questions about Red Brick products or services, contact Red Brick Systems as follows:

**Telephone**
General Questions (408) 399-3200 or 1 (800) 777-2585
Technical Questions (408) 399-7100 or 1 (800) 727-1866

**FAX**
General Questions (408) 399-3277
Technical Questions (408) 399-3297

**Internet e-mail**
General Questions info@redbrick.com
Technical Questions support@redbrick.com

**World Wide Web**
www.redbrick.com
Existing Cases

If you want to inquire about the status of an existing case, please have the case number ready. The case number will always be given to you by the support engineer who logs the case or first contacts you. This number is used to keep track of all the activities performed during the resolution of each problem.

New Cases

If you want to log a new case, please have the following information ready:

- Red Brick Warehouse version
- Platform and operating-system version
- Error messages returned by Red Brick Warehouse or the operating system
- Concise description of the problem, including any commands or operations performed prior to the occurrence of the error message
- List of Red Brick Warehouse and/or operating-system configuration changes made prior to the occurrence of the error message

If you think the problem concerns client-server connectivity, please have the following additional information ready:

- Name and version of the client tool in use
- Version of Red Brick ODBC Driver in use (if applicable)
- Name and version of client network and/or TCP/IP stack in use
- Error messages returned by the client application
Troubleshooting Tips

You can often reduce the time it takes to close your case by providing the smallest possible reproducible example of your problem. The more you can isolate the cause of the problem, the more quickly the support engineer can help you resolve it.

- For SQL query problems, try removing columns or functions, or restating WHERE, ORDER BY, or GROUP BY clauses until you can isolate the part of the statement causing the problem.
- For TMU load problems, verify the datatype mapping between the source file and the target table to ensure compatibility. Try loading a small test set of data to determine whether the problem concerns volume or data format.
- For connectivity problems, verify that the network is up and running by issuing the rbping command from the client to the host. If possible, try another client tool to see if the same problem arises.

Documentation Questions and Comments

If you have questions or comments about the Red Brick Warehouse documentation, please contact the Technical Publications Department at Red Brick Systems as follows:

Telephone
+1 408 399 3200
+1 800 727 1866 (USA only)

Internet e-mail
docs@redbrick.com
This chapter lists in numeric order the event log messages written by the log daemon to the log files. Red Brick® Warehouse installations that have the Enterprise Control and Coordination option enabled might generate any of the event log messages listed here; otherwise only those log messages in the ERROR category with severity URGENT and those log messages in the SCHEMA category will be generated.

This chapter contains the following sections:

- Message Format
- Message Listing

**Message Format**

Event log messages are listed below by message number. A two-character RB prefix and a one-character event category indicator precede the message number. A one-character event severity indicator follows the message number.

**Example**

RBO083A       Accounting file opened.

Prefix, not displayed by log viewer

Event category

Message number

Event severity
The following table lists the event categories:

<table>
<thead>
<tr>
<th>Category</th>
<th>Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audit</td>
<td>A</td>
<td>Events related to security and access control. (Actual message prefixed by “AUD.”)</td>
</tr>
<tr>
<td>Error</td>
<td>E</td>
<td>User actions or warehouse environment changes that cause errors or exceptions. The actual message text for a message in this category may reference the message code of a standard error message. In these cases, refer to Chapter 2, “Informational, Warning, and Error Messages” for more information on the error message in question. (Actual message prefixed by “ERR.”)</td>
</tr>
<tr>
<td>Operational</td>
<td>O</td>
<td>Administrative actions taken by warehouse administrators. (Actual message prefixed by “OPE.”)</td>
</tr>
<tr>
<td>Schema</td>
<td>S</td>
<td>Changes to physical or logical database structures. (Actual message prefixed by “SCH.”)</td>
</tr>
<tr>
<td>Usage</td>
<td>U</td>
<td>End-user operations in the warehouse system. (Actual message prefixed by “USA.”)</td>
</tr>
</tbody>
</table>

The following table lists the event severities:

<table>
<thead>
<tr>
<th>Severity</th>
<th>Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routine</td>
<td>R</td>
</tr>
<tr>
<td>Alert</td>
<td>A</td>
</tr>
<tr>
<td>Urgent</td>
<td>U</td>
</tr>
</tbody>
</table>

Many messages contain variable values (for example, user_name). These variables are replaced with specific values when displayed by the log viewer.
**Message Listing**

**RBO074A**  Advisor log file opened.

*Reason:* The log daemon began advisor logging to a new advisor file.

**RBO075A**  Advisor log file closed.

*Reason:* The log daemon stopped logging and closed the active advisor recording file.

**RBE076A**  message

*Reason:* An error message issued by the warehouse API daemon.

**RBO077R**  message

*Reason:* A routine informational message issued by the warehouse API daemon.

**RBO078A**  message

*Reason:* An important informational or warning message issued by the warehouse API daemon.

**RBE079U**  message

*Reason:* An extremely serious or urgent message issued by the warehouse API daemon.

**RBO080A**  Log for rbwapid redirected to warehouse common log.

*Reason:* The log information produced by the warehouse API daemon was redirected to the common log file.

**RBO081A**  New accounting level is level_name.

*Reason:* The log daemon received a command to set a new accounting level.

**RBO082R**  Log daemon command: command_name.

*Reason:* The log daemon received and processed a command operation. The specific operation is indicated.

**RBO083A**  Accounting file opened.

*Reason:* The log daemon began writing to a new accounting file.
**Event Log Messages**
*Message Listing*

- **RBO084A** Accounting file closed.
  *Reason:* The log daemon stopped accounting and closed the active accounting recording file.

- **RBO085A** type file reached maximum file size; switching.
  *Reason:* A log or accounting recording file reached its maximum size (as set in the `rbw.config` file with an ADMIN MAXSIZE parameter), and recording switched to a new file.

- **RBO086U** Write to type recording file failed: error_message (errno).
  *Reason:* The log daemon could not complete a write operation to a recording file. The reason of the failure is indicated.

- **RBO087U** Could not open accounting file: error_message (errno).
  *Reason:* The log daemon could not create and open an accounting recording file. The reason of the failure is indicated.

- **RBO088A** New logging level for event_category events is level_name.
  *Reason:* The log daemon received a command to set a new logging level for the indicated event.

- **RBO089A** Log daemon shutdown requested.
  *Reason:* The log daemon received a command to quit.

- **RBO090A** Log file opened.
  *Reason:* The log daemon began writing to a new log recording file.

- **RBO091A** Log file closed.
  *Reason:* The log daemon stopped logging and closed the active log recording file.

- **RBE093U** Log daemon received illegal command value.
  *Reason:* The log daemon received an illegal command. This message indicates an internal program logic error. Contact the Red Brick Customer Support Center.

- **RBE094U** Log message has illegal component string.
  *Reason:* The log daemon received an erroneous component value. This message indicates an internal program logic error. Contact the Red Brick Customer Support Center.
RBE095U  Log message has illegal severity string.
Reason: The log daemon received an erroneous severity value. This message indicates an internal program logic error. Contact the Red Brick Customer Support Center.

RBE096U  Log daemon received invalid request: type
Reason: The log daemon encountered an error processing a request of the indicated type. This message indicates an internal program logic error. Contact the Red Brick Customer Support Center.

RBE097U  Log daemon error error_code retrieving message number message_number.
Reason: The log daemon received an error while trying to find the indicated message number. This message indicates an internal program logic error. Contact the Red Brick Customer Support Center.

RBO098R  Log daemon received signal signal_number; action.
Reason: The log daemon received the signal indicated in the message and took the action indicated.

RBE099U  Log daemon error: error_message
Reason: An internal error was detected by the log daemon. Specific information about the error is provided in the error message text.

RBS100R  Connecting
Reason: A process has notified the administration daemon that it has started and is in the process of connecting to a database.

RBS101R  Idle
Reason: A process has notified the administration daemon that it is waiting for a command to run.

RBS102R  Executing
Reason: A process has notified the administration daemon that it is running a command.

RBS103R  Compiling
Reason: A process has notified the administration daemon that it is in the compiler phase of query processing.
**RBS104R**  Calculator

**Reason:** A process has notified the administration daemon that it is in the post-fetch phase of query processing.

**RBS105R**  Returned row_count rows, Computed row_comp_count rows.

**Reason:** A process has notified the administration daemon that it is in the return row and compute row phase of query processing.

**RBS106R**  Sorting

**Reason:** A process has notified the administration daemon that it is in the sorting phase of index creation.

**RBS107R**  Building indexes

**Reason:** A process has notified the administration daemon that it is building indexes.

**RBS108R**  Inserted row_count rows.

**Reason:** A process has notified the administration daemon that it is in the insertion phase of an INSERT INTO...SELECT FROM statement.

**RBU109A**  Starting merge phase of index building index.

**Reason:** Indicates that a merge phase of index building is starting during a LOAD DATA, REORG or CREATE INDEX operation. This message is issued only when an index is built using the standard OPTIMIZED indexing mode. In some cases, this phase of index building can take substantial time.

**RBE110U**  Administration daemon error: error_message

**Reason:** An internal error was detected by the administration daemon. Specific information about the error is provided in the error message text.

**RBS111R**  Deleted row_count rows.

**Reason:** A process has notified the administration daemon that it is in the deletion phase of a DELETE statement.

**RBS112R**  Updated row_count rows.

**Reason:** A process has notified the administration daemon that it is in the update phase of an UPDATE statement.
**Event Log Messages**

**Message Listing**

RBS300R  
**object_type object_name completed successfully.**

**Reason:** Records an event that changes a database schema.

RBU301R  
**New max concurrent session count number for database dbname.**

**Reason:** A new maximum number of concurrent sessions has been reached for the specified database.

RBE302R  
**Missed connection handshake for process pid.**

**Cause:** Because processes do not wait for messages to be received by the administration daemon, it is possible for messages to be lost. In this case, a connection handshake message was lost, making it impossible for the daemon to track the statements to a particular user.

**Reason:** None necessary.

RBE303A  
**rb_deleter: Error occurred deleting Red Brick Warehouse database**

**Reason:** An error occurred in the rb_deleter script while it was trying to delete a Red Brick Warehouse database. The error occurred when it issued an “rm” command to remove warehouse files.

RBO304R  
**TMU started by user user_name.**

**Reason:** The TMU (or PTMU) was started by the indicated user.

RBS305R  
**object_type object_name object_action completed successfully.**

**Reason:** Records an event that changes a database schema.

RBS306R  
**object_type object_name sub_type sub_name object_action completed successfully.**

**Reason:** Records an event that changes a database schema.

RBS307R  
**object_type object_name sub_type sub_name completed successfully.**

**Reason:** Records an event that changes a database schema.

RBO308R  
**TMU normal termination.**

**Reason:** The TMU (or PTMU) finished execution and exited with a normal termination status.
**Event Log Messages**

**Message Listing**

**RBU309A**  LOAD DATA into table_name  started: attributes.

**Reason:** Reports the start of a TMU LOAD DATA operation. Key attributes describing the LOAD DATA activity are listed.

**RBU310A**  LOAD DATA into table_name finished successfully.

**Reason:** Reports the successful completion of a TMU LOAD DATA operation.

**RBU311R**  UNLOAD table_name  started: attributes.

**Reason:** Reports the start of a TMU UNLOAD operation. Key attributes describing the UNLOAD activity are listed.

**RBU312R**  UNLOAD table_name finished successfully.

**Reason:** Reports the successful completion of a TMU UNLOAD operation.

**RBU313A**  REORG table_name  started: attributes.

**Reason:** Reports the start of a TMU REORG operation. Key attributes describing the REORG activity are listed.

**RBU316A**  REORG table_name finished successfully.

**Reason:** Reports the successful completion of a TMU REORG operation.

**RBO317A**  BACKUP started to backup_destination at level level.

**Reason:** Reports the start of a TMU BACKUP operation. The backup destination and level are listed.

**RBO318A**  BACKUP finished successfully.

**Reason:** Reports the successful completion of a TMU BACKUP operation.

**RBO319A**  RESTORE started from backup_destination: attributes.

**Reason:** Reports the start of a TMU RESTORE operation. Key attributes about the RESTORE operation are listed.

**RBO320A**  RESTORE input is level level created at datetime.

**Reason:** Reports information about the input file or tape supplied to a TMU RESTORE operation.

**RBO321A**  RESTORE finished successfully.

**Reason:** Reports the successful completion of a TMU RESTORE operation.
RBU322R  INSERT into table_name, rows inserted: rows.
Reason: Reports the completion of an INSERT operation.

RBU323R  DELETE from table_name, rows deleted: rows.
Reason: Reports the completion of a DELETE operation.

RBU324R  CASCADED DELETE from table_name, rows deleted: rows.
Reason: Reports the completion of a cascaded DELETE operation.

RBU325R  SELECT from table_names, rows selected: num_rows.
Reason: Reports the completion of a SELECT operation.

RBU326R  UPDATE table table_name, rows updated: rows.
Reason: Reports the completion of an UPDATE operation.

RBO327A  Utility command 'msg' executed.
Reason: Reports that a utility command (TBLCHK or IXVALID) was run.

RBU328R  DELETE from table_name, all rows deleted.
Reason: Reports the completion of a DELETE operation.

RBU329R  Executed statement: full_sql_text, Sequence number: seq_num
Reason: Reports the full text of the statement executed, as received by the server.

RBO400A  Administration daemon shutdown requested.
Reason: The administration daemon received a command to quit.

RBO401A  Administration daemon started.
Reason: The administration daemon was started.

RBA402A  Alter system cancel user command user: user_name db: db_name pid: process_id
Reason: An ALTER SYSTEM command was issued to cancel the current command for the specified session.
Event Log Messages
Message Listing

RBA403A  Alter system close user session user: user_name db: db_name
          pid: process_id
Reason:   An ALTER SYSTEM command was issued to close the specified
          session.

RBA404A  Alter system reset stats db: db_name
Reason:   An ALTER SYSTEM command was issued to reset the statistics for
          the specified database.

RBA405A  Alter system quiesce db: db_name
Reason:   An ALTER SYSTEM command was issued to quiesce the specified
          database.

RBA406A  Alter system resume db: db_name
Reason:   An ALTER SYSTEM command was issued to resume the specified
          database.

RBA407A  Alter system change user priority user: user_name db: db_name
          pid: process_id priority: priority
Reason:   An ALTER SYSTEM command was issued to change the priority of
          the specified session.

RBA408A  Alter system terminate administration daemon.
Reason:   An ALTER SYSTEM command was issued to shutdown the
          administration daemon.

RBE500R  User user_name received: ** WARNING ** (error_number)
          error_text
Reason:   Records a WARNING message produced by a Red Brick Warehouse
          component.

RBE501A  User user_name received: ** ERROR ** (error_number)
          error_text
Reason:   Records an ERROR message produced by a Red Brick Warehouse
          component.

RBE502U  User user_name received: ** FATAL ** (error_number)
          error_text
Reason:   Records a FATAL message produced by a Red Brick Warehouse
          component.
RBE510U  Server communication with client failed, error = errno.

Reason:  The server lost communication with the client due to a low-level system error. The system error code is indicated.

RBA600A  Invalid user login attempt - unknown user_name: user_name.

Reason:  Records a failed login attempt with a non-existent username.

RBA601A  Invalid user login attempt - invalid password for user user.

Reason:  Records a failed login attempt with a valid username but an invalid password.

RBA602A  Invalid user login attempt - user account user_name is locked.

Reason:  Records a failed login attempt when the user’s account is locked.

RBA603A  Invalid user login attempt - user account user_name is expired.

Reason:  Records a failed login attempt when the user’s password has expired.

RBA604A  DBA level user user_name logged in.

Reason:  Records that a user who is a member of the DBA system role (or has at least one of the DBA-level task authorizations) logged in.

RBA605R  Invalid password supplied by user user_name for user user_name.

Reason:  Records that a GRANT CONNECT statement supplied a password that did not meet one or more of the requirements set forth for passwords in the configuration file.

RBA606A  User user_name changed password for user user_name.

Reason:  Records that a user’s password was changed.

RBA607A  User user_name created type name.

Reason:  Records that the specified user issued a GRANT CONNECT or CREATE ROLE statement, specifying an unused name, thereby creating a new user or role.
Event Log Messages
Message Listing

RBA608A  User user_name removed type name.
Reason: Records that the specified user issued a REVOKE CONNECT or DROP ROLE statement, thereby removing the named user or role.

RBA609A  User user_name added name to name.
Reason: Records that the user, role, task authority, or system role was granted to the specified user or role via a GRANT statement.

RBA610A  User user_name removed name from name.
Reason: Records that the user, role, task authority, or system role was revoked from the specified user or role via a REVOKE statement.

RBA611A  User user_name added privilege on table table_name to name.
Reason: Records a GRANT statement that granted an object privilege on a table to a user or role.

RBA612A  User user_name removed privilege on table table_name from name.
Reason: Records a REVOKE statement that revoked an object privilege on a table from a user or role.

RBA620A  Unauthorized data access - user user_name does not have privilege privilege on table table_name.
Reason: Records that a user attempted to access a table via an operation that required SELECT privilege on the table, but the user did not have that privilege.

RBA630A  Unauthorized operation - user user_name does not have sufficient authority to operation.
Reason: Records that a user attempted to perform an operation, but the user did not have the necessary authorization.

RBA631A  Unauthorized operation - user user_name does not have sufficient authority to operation object_name.
Reason: Records that a user attempted to perform an operation on the specified object, but the user did not have the necessary authorization.

RBS632R  UPGRADE of database started.
Reason: Reports the start of a TMU UPGRADE operation.
RBS633R  UPGRADE of system table table_name completed successfully.
Reason:  Reports the successful upgrade of the named system table.

RBS634R  New system tables built and populated.
Reason:  Reports that UPGRADE has completed building the new system tables RBW_PRECOMPVIEWCOLUMNS, RBW_HIERARCHIES, and HIERARCHY_RELSHIP structure, and if upgrading from v5.0.4, the system tables RBW_MODEL_TABLEMAP, RBW_MODEL_TYPEMAP, and RBW_MODEL_DATAMAP.

RBS635R  Total views processed by UPGRADE: viewcount.
Reason:  Reports the number of views found in the database being upgraded.

RBS636R  UPGRADE of object_type object_name completed successfully.
Reason:  Records the successful upgrade of the named database object.

RBS637R  File containing the DDL to recreate views: 'filename'
Reason:  Reports the name of the file containing the DDL statements needed to create the views that were deleted from the database during the UPGRADE operation.

RBO1000A Listener daemon shutdown requested.
Reason:  The listener daemon received a command to quit.

RBO1001A Listener daemon started.
Reason:  The listener daemon was started.

RBO1002A Control-C daemon shutdown requested.
Reason:  The Control-C daemon received a command to quit.

RBO1003A Control-C daemon started.
Reason:  The Control-C daemon was started.

RBE7000A Unauthorized operation - user user_name does not have sufficient authority to operation.
Reason:  Records that a user attempted to perform an operation, but that user did not have the necessary authorization.
**Event Log Messages**

*Message Listing*

RBA7001A *status to operation object obj_name.*

**Reason:** Records the status of the operation (lock/unlock) on the object name.

RBA7002A Function *function_name* failed.

**Reason:** Records the failure of the specified function.

RBA7003A *status to get the next file/psu for the object name obj_name from the iterator.*

**Reason:** Records the status of the function rbrNextFile, which fetches the next file/psu for the object name specified in file iterator.
This chapter provides a complete list in numeric order of the informational, warning, and error messages issued by the Red Brick Warehouse components.

This chapter contains the following sections:
- Message Format
- Message Listing

**Message Format**

When you see a code number and message displayed while using Red Brick Warehouse components, use that number to look up the message in this guide for more information.

Messages are listed with a serial number that begins with a three-character prefix, followed by the numeric code and a one-character severity indicator. The messages are in numerical order based on the code number; the prefix is ignored and is not displayed on the screen.

**Example**

RBA019E   Operands of comparison must have comparable datatypes.

<table>
<thead>
<tr>
<th>Severity indicator</th>
<th>Code number, displayed online</th>
<th>Prefix, not displayed online</th>
</tr>
</thead>
</table>
Each message has an assigned severity level, which is indicated by a letter following the code number. The following table lists and describes severity levels:

<table>
<thead>
<tr>
<th>Severity Level</th>
<th>Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informational</td>
<td>I</td>
<td>Displays status of operation.</td>
</tr>
<tr>
<td>Status</td>
<td>S</td>
<td>Displays statistical information.</td>
</tr>
<tr>
<td>Warning</td>
<td>W</td>
<td>Warns of potential error; warehouse process remains active.</td>
</tr>
<tr>
<td>Error</td>
<td>E</td>
<td>Indicates that statement or command failed; warehouse process remains active.</td>
</tr>
<tr>
<td>Fatal</td>
<td>F</td>
<td>Indicates that warehouse process has terminated.</td>
</tr>
</tbody>
</table>

Many messages in this guide contain variable values (for example, column_name). These variables are replaced with specific values when they are displayed on the screen.

In many cases, this guide provides more detailed information than is available on your terminal or workstation screen; it includes probable causes and suggested responses to the online messages. These entries do not provide detailed procedures but rather suggest courses of action that are described in detail in the relevant operating-system, warehouse, or tool documentation.
RBA001E  Not licensed for 'option_name'. Verify that correct license key has been entered in rbw.config file.

Cause: The specified functionality is not licensed at your site.

Response: The specified functionality cannot be used unless it is separately licensed at your site. If you have a license for the function, verify that the correct license key has been entered in the rbw.config file.

RBA002F  Current database has been upgraded past this version of Red Brick Warehouse.

Cause: The system table file is from a later Red Brick Warehouse version than expected. This problem occurs if the database has been upgraded to a new version, and the user tries to access it using an old version of Red Brick Warehouse.

Response: Make sure that the version of Red Brick Warehouse being used matches the version used to upgrade the database.

RBA003E  Operation cannot be completed because table is locked.

RBS005E  Cannot update the primary key column 'column_name' because it is referenced by a foreign key constraint.

Cause: To ensure referential integrity, an UPDATE operation is not allowed on primary key columns that are referenced as the targets of foreign key constraints.

RBS006S  Used parallel relation scan with numprocs scan tasks at query level number.

Cause: The server determined that this query would benefit from parallel query execution of a relation scan, so it has allocated the number of processes indicated to run in parallel.

RBS007E  Child process process_id exited unexpectedly with status hex_status.

Cause: A child task started for parallel query execution exited unexpectedly. This indicates an internal error in the server and should be reported to the Red Brick Customer Support Center.

Response: Contact the Red Brick Customer Support Center for further information. Make sure to note the value of the exit status.
**Informational, Warning, and Error Messages**

**Message Listing**

**RBS008S**

*Used parallel STARjoin with numprocs join tasks and numprocs fetch tasks at query level number.*

**Cause:** The server determined that this query would benefit from parallel query execution, and it has allocated the number of processes indicated for each phase of the algorithm.

**RBS009E**

*Display functions cannot be used in the HAVING clause.*

**Cause:** A statement included a predicate that contained a display function or a column alias of a display function in the HAVING clause. Display functions can be constrained only in the WHEN clause.

**Response:** Correct the error and submit the command again.

**RBS010E**

*The table 'table_name' is not referenced in a FROM clause or as the target of an UPDATE statement.*

**Cause:** The table in the message was not specified in the FROM clause of a SELECT statement or as the target table in an UPDATE statement. This message is issued if a column reference is qualified by a table name, but that table is not listed in the statement. For example, the following statements produce this error:

```sql
SELECT * FROM TABLE1 WHERE TABLE2.COL = TABLE1.COL;
UPDATE TABLE1 SET COL1=3 WHERE TABLE1.COL=TABLE2.COL;
```

In both cases, the message will list TABLE2.

**RBA011E**

*The column 'column_name' is not defined in the table 'table_name'.*

**RBL012W**

*Segment segment_name currently has a backup level of backup_level but is being restored from level restore_level.*

**Cause:** During an incremental restore of a segment, the level being restored is not the last known backup level for that segment.

**Response:** None necessary.

**RBA013E**

*Aggregation function argument must not reference aggregation function.*

**RBA014E**

*Subqueries not allowed in WHEN clause.*
RBS015W  Detaching segment segment_name has invalidated index index_name of table table_name.

Cause: An ALTER SEGMENT...DETACH command was issued for an index segment that was not empty. Because data is not moved as the result of an ALTER SEGMENT statement, the index must be rebuilt.

Response: If possible, drop the index and create it again. Otherwise, perform a REORG operation.

RBS016E  Referenced table table_name has fewer total rows than the number of segments: number_of_segments.

Cause: The segment specification for a STAR index in a CREATE STAR INDEX or ALTER SEGMENT...ATTACH statement specified segments for a STAR index without specific range information. The automatic range information is generated by distributing the total possible number of rows in the referenced table evenly across the segments specified for the STAR index. The total possible number of rows is the product of the number of segments in the table times the MAXROWS PER SEGMENT value. In this case, the number of STAR index segments exceeds the total possible number of rows. Thus at least one segment would always be empty.

Response: Either specify fewer segments for the STAR index or increase the size of the referenced table by attaching a new segment with ALTER SEGMENT...ATTACH or by increasing the MAXROWS PER SEGMENT value with ALTER TABLE. Note that changing the size of the referenced table might require a REORG operation on the referencing table.

RBA018E  Expression requires numeric operand.

RBA019E  Operands of comparison must have comparable datatypes.

RBA020E  Operands of BETWEEN must be comparable.
RBS021E  Table table_name has no MAXROWS PER SEGMENT value to use for validation of STAR index segmentation.

Cause: The segment specification for a STAR index in a CREATE STAR INDEX or ALTER SEGMENT...ATTACH statement referenced a table that does not have a defined MAXROWS PER SEGMENT value. A STAR index is segmented by references to another table. The segment ranges must be validated with the defined MAXROWS PER SEGMENT value of the referenced table.

Response: Issue an ALTER TABLE command that specifies a MAXROWS PER SEGMENT value for the referenced table. This might require a REORG operation on the referencing table.

RBS022E  Column reference in LIKE must be type character.

RBS023E  Pattern in LIKE must be type character.

RBS024E  ESCAPE must reference a single character value.

RBS026E  Duplicate names not allowed in FROM clause.

RBL027E  To restore segment segment_name, the segment must already exist in the database.

Cause: A TMU RESTORE statement was issued for a segment that does not exist in the database. A segment can be restored only if it already exists in the database.

Response: Either do a full restore operation or contact the Red Brick Customer Support Center.

RBL028W  PSU 'path_name' is not known to belong to segment segment_name.

Cause: A PSU location in the backup did not match the PSU information in the system tables. This discrepancy could be the result of an ALTER SEGMENT...CHANGE PATH command issued after the backup.

Response: Either do a full RESTORE operation or contact the Red Brick Customer Support Center.

RBA029E  Aggregation functions not allowed in WHEN clause unless GROUP BY is present.
RBS030I  Child process process_id returned informational message 'child_message'.
Cause: A parallel query task process returned an informational message.
Response: None necessary.

RBS031S  Child process process_id returned statistics message 'child_message'.
Cause: A parallel query task process returned a statistics message.
Response: None necessary.

RBS032W  Child process process_id returned warning message 'child_message'.
Cause: A parallel query task process returned a warning message.
Response: Refer to the cause and response for the warning message contained in the child message text.

RBS033E  Child process process_id returned error message 'child_message'.
Cause: A parallel query task process returned an error message.
Response: Refer to the cause and response for the message contained in the child message text.

RBS034F  Child process process_id returned fatal message 'child_message'.
Cause: A parallel query task process returned an error message.
Response: Refer to the cause and response for the message contained in the child message text.

RBS035E  Insufficient authority to SELECT from table table_name.
Cause: The user who issued the SELECT statement did not have the required authority. To select data from a table, a user must have ACCESS_ANY authority, be a member of the DBA system role, be the owner of the table, or have SELECT privilege for the table.
Response: Notify the warehouse administrator and request the required authority.
Informational, Warning, and Error Messages
Message Listing

RBS036E  Illegal value for SET TEXTSIZE.
  Cause:  A value was supplied with SET TEXTSIZE that is not within the valid range. Legal values are integers between 0 and 2147483647, inclusive.
  Response: Issue the SET TEXTSIZE command again with a legal value.

RBS037E  No database has been opened.
  Cause:  The server received command that requires an open database, but no database is open.
  Response: Either open a database, or issue only a non-database-specific command.

RBS038E  Invalid segmentation method for a STAR index.
  Cause:  A CREATE STAR INDEX command specified an invalid segmentation for a STAR index. STAR indexes must be segmented by REFERENCES.
  Response: Correct the error and submit the command again.

RBA039E  When GROUP BY is present, the column in the select list, HAVING, or WHEN condition must be a grouping column, aggregation function argument, or literal value.

RBS040E  A range value for references of foreign key column_name equals or exceeds the MAXROWS PER SEGMENT value (maxrows) of the referenced table table_name.
  Cause:  The STAR index range specification in a CREATE STAR INDEX, ALTER SEGMENT...ATTACH, or ALTER SEGMENT...RANGE statement specifies a row ID range value that is greater than or equal to the MAXROWS PER SEGMENT value for the corresponding referenced table. Recall that the first row ID of a table is 0, so valid range values are 0 to MAXROWS PER SEGMENT-1.
  Response: Correct the segment range values and submit the command again.
RBS041E  DISTINCT can be specified only once within a query specification.

Cause:   A SELECT statement contains the DISTINCT option for more than one aggregate function. This message might also be caused by multiple references to a view column that contains a DISTINCT option for an aggregate function.

Response: Correct the error and submit the command again.

RBS043E  ALTER SEGMENT alter_option invalid for segment segment_name because of the segmentation scheme.

Cause:   An ALTER SEGMENT statement was issued that would change segment ranges of a table or the number of segments attached to a table, but the table was not segmented by values. Segment operations that change segment ranges or the number of segments attached to a table are valid only for tables that are segmented by range values. If a different segment scheme (such as hash) is used, then these types of ALTER SEGMENT operations are not allowed.

Response: You cannot perform this type of ALTER SEGMENT operation on this table.

RBL044E  OFFLINE load of segment segment_name not allowed because of the segmentation scheme.

Cause:   A LOAD DATA statement was issued to perform an offline load into a row data segment of a table that was not segmented by values. An offline load into a segment is allowed only when a SEGMENT BY VALUE clause is specified in the CREATE TABLE statement. Any other segmentation scheme (such as hash) prevents the use of offline load operations.

Response: Bring the segment online and submit the command again.

RBS045E  Change range or attach of segment segment_name requires that segment segment_name be online.

Cause:   An ALTER SEGMENT...CHANGE RANGE or ATTACH statement specified an offline segment. Attaching a new segment or changing the range of an existing segment requires checking for data in the segment that would need to be moved. This check is not possible if the segment is offline.

Response: Bring the indicated segment online and submit the command again.

RBA046E  AVG requires one argument.
Informational, Warning, and Error Messages
Message Listing

RBA047E  MAX requires one argument.
RBA048E  MIN requires one argument.
RBA049E  SUM requires one argument.
RBA050E  COUNT requires one argument.
RBS051W  Change range for segment segment_name has invalidated index index_name of table table_name.
          Cause:  An ALTER SEGMENT...CHANGE RANGE command was issued for an index segment, and the new boundary requires that values move from one segment to another. Because data is not moved during an ALTER SEGMENT operation, the index must be rebuilt.
          Response: If possible, drop the index and create it again. Otherwise, perform a REORG operation.
RBA052F  Command line argument count incorrect.
RBS053E  Insufficient authority to CREATE object.
          Cause:  The user who issued the CREATE statement did not have the required authority. To create a table, private macro, view, segment, role, or other database object, a user must have CREATE_ANY or CREATE_OWN authority, or be a member of the DBA or RESOURCE system roles.
          Response: Notify the warehouse administrator and request the required authority.
RBS054E  Insufficient authority to DROP object.
          Cause:  The user who issued the DROP statement did not have the required authority. To drop a table, private macro, view, segment, role, or other database object, a user must have DROP_ANY authority, be a member of the DBA system role, have DROP_OWN authority and own the object, or be a member of the RESOURCE system role and own the object.
          Response: Notify the warehouse administrator and request the required authority.
RBA055E  CUME requires one argument.
RBA056E  CUME argument must be numeric.
RBA057E  A scalar or table subquery in a WHERE clause must have a single item in the select list.

RBA058E  Subquery returned more than one row.

RBS059E  Insufficient authority to GRANT privileges or authorities.

Cause: The user who issued the GRANT statement did not have the required authority. To grant object privileges, a user must have GRANT_ANY authority, have the GRANT_OWN authority and own the object, be a member of the DBA system role, or be a member of the RESOURCE system role and own the object. To grant task authorities, a user must have ROLE_MANAGEMENT authority or be a member of the DBA system role.

Response: Notify the warehouse administrator and request the required authority.

RBS060E  Insufficient authority to REVOKE privileges or authorities.

Cause: The user who issued the REVOKE statement did not have the required authority. To revoke object privileges, a user must have the GRANT_ANY authority, have the GRANT_OWN authority and own the object, be a member of the DBA system role, or be a member of the RESOURCE system role and own the object. To revoke task authorities, a user must have the ROLE_MANAGEMENT authority or be a member of the DBA system role.

Response: Notify the warehouse administrator and request the required authority.

RBS061W  user_or_role_name does not have priv_or_auth.

Cause:  A REVOKE command was issued attempting to revoke a privilege, authority, or role that has not been granted.

Response: None necessary.

RBS062E  ORDER BY column 'column_name' must be specified in the GROUP BY clause.

Cause: If an ORDER BY column is specified that is not in the SELECT clause and there is a GROUP BY clause, then the ORDER BY column must also appear in the GROUP BY clause.

Response: Correct the error and submit the command again.

RBA063E  Column name 'column_name' is ambiguous.
Informational, Warning, and Error Messages
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RBS064E ORDER BY integer number is an invalid value.
Cause: The ORDER BY clause listed an invalid integer to specify the expression in the select list to be used for ordering. An integer is invalid if it is greater than the number of items in the select list or is less than one.
Response: Correct the error and submit the command again.

RBS065E User user_name named in GRANT does not exist.
Cause: The GRANT statement specified a user name or role name that does not exist in the database.
Response: Correct the error and submit the command again.

RBS066E User user_name named in REVOKE does not exist.
Cause: The REVOKE statement either specified a user name or role name that does not exist in the database or it specified REVOKE CONNECT for a role. The REVOKE CONNECT command only applies to user names.
Response: Correct the error and submit the statement again. To drop a role, use the DROP ROLE command.

RBS067W GRANT CONNECT is changing the password of existing user 'user_name'.

RBS068E CREATE SEGMENT failed because a PSU already exists in the segment.
Cause: The PSU specified in a CREATE SEGMENT statement could not be created because it already exists.
Response: Correct the error and submit the command again.

RBA069E RANK requires one argument.
RBA070E Argument of RANK must be numeric.
RBA071E RATIOREPORT requires one argument.
RBS072E Invalid segmentation method for a non-STAR index.
Cause: A CREATE INDEX or CREATE TABLE statement was issued with an invalid segment specification for an index. Primary key and B-TREE indexes must be segmented by VALUES or LIKE DATA.
Response: Correct the error and submit the command again.
RBA073E  In a SELECT statement without a GROUP BY clause, if an aggregation function is included in the select list, then all column references must be aggregation functions.

RBA074E  Argument of RATIOREPORT must be numeric.

RBS076E  First argument of function_name must be numeric.

Cause:  The function in the error message, one of MOVINGAVG, MOVINGSUM or NTILE, must have a numeric value as its first argument.

Response:  Make sure the first argument to the function is numeric and submit the query again.

RBA077E  Second argument of function_name must be an integer literal greater than zero.

Cause:  A invocation of the named function supplied a value for the second argument that was not a positive integer literal.

Response:  Replace the second argument to the function with an integer literal greater than zero and submit the command again.

RBA078E  Table that is referenced by foreign keys cannot be dropped.

RBS079E  Segmenting an index LIKE DATA is allowed only if the data is segmented by values and has the same number of segments as the index.

Cause:  A CREATE TABLE or CREATE INDEX statement contained a SEGMENT LIKE DATA clause for the index but the data is not segmented by values or has a different number of segments specified.

Response:  For a CREATE TABLE statement, change the statement to either segment the data by values and make sure the number of primary key index segments matches the number of data segments, or specify SEGMENT BY VALUES OF for the primary key index. For a CREATE INDEX statement, specify SEGMENT BY VALUES OF or, if the data is segmented by values, change the number of index segments to match the number of data segments.

RBA080F  An operating system error has occurred: os_error. File: filename Line: lineno

RBA081E  Database file 'filename' not found or insufficient privileges.
Informational, Warning, and Error Messages
Message Listing

RBA082E TERTILE requires one argument.
RBA083E Argument of TERTILE must be numeric.
RBA084E Numeric literal has too many digits.
RBA085E Alphanumeric literal must not exceed number bytes.
RBA086F Insufficient memory is available to continue execution.
    File: filename Line: lineno
RBA087E Invalid syntax 'stringstringstring'.
    Cause: The command contains invalid syntax. An arrow marking the error
            appears before the token that caused the error. At most, one token
            will appear after the error marker.
    Response: Correct the error and submit the command again.
RBS088E Display functions cannot be used as arguments of display or
    aggregation functions.
    Cause: An expression in the query contained a reporter function as an
            argument to another reporter function or as an argument to an
            aggregation function. Such constructs are not legal.
RBS089E Query Aborted: Unable to reference the select list subquery and
    project the result in the outer query.
    Cause: The subquery in the select list is aliased in the WHERE clause or
            referenced in an aggregation and the input to the aggregation was
            empty.
    Response: Rewrite the query and remove the reference to the subquery by
            recomputing the subquery (that is, replace the alias with the
            subquery text).
RBA092E The table 'table_name' is not present in the database.
RBS093E INITSIZE of the first PSU of a segment must be at least 16.
    Cause: A CREATE SEGMENT command specified an INITSIZE smaller
            than 16 for the first PSU of the segment.
    Response: Change the INITSIZE value of the first PSU to be greater than or
            equal to 16, and submit the command again.
RBA094E The column 'column_name' is not defined in any scope in
    which the column is referenced.
RBS095E  The unqualified reference to column 'column_name' is ambiguous.

Cause:  An unqualified reference to the column named in the message was defined in more than one table, or more than once in the same table. This message occurs if columns of the same name are found in more than one table in a FROM clause, or if a joined table expression created an intermediate table with more than one column having the same name.

Response: In order to clarify the reference, the column name must be qualified by the table from which the column is to be used. Alternatively, the column name can be changed by using a derived column list for tables in the FROM clause to give columns new names, or column aliases in the select list can be used to give columns unique names.

RBA096E  Query is nested too deeply or contains too many subqueries.

Cause:  The query could not be processed because it either had at least one subquery that was nested too deeply or the total number of subqueries was greater than the allowed maximum.

Response: Change the query to reduce either the nesting depth or the total number of subqueries.

RBA098E  Illegal outer reference.

RBS099E  The table alias 'table_name' is already being used.

Cause:  A table alias in the FROM clause is already used as a table or synonym name.

Response: Change the query to use a different table alias.

RBS100E  Aggregation or display function is not allowed in WHERE clause.

Cause:  A statement included an aggregation or display function, or a column alias of an aggregation or display function, in the WHERE clause. Predicates containing display functions must be in the WHEN clause. Predicates containing aggregation functions must be in the HAVING clause.

Response: Correct the error and submit the command again.

RBA102E  The list in an IN clause must consist of literals.

RBA103E  Argument of SUM must be numeric.
**Informational, Warning, and Error Messages**

**Message Listing**

**RBA104E**  Argument of AVG must be numeric.

**RBS105E**  SEGMENT BY REFERENCES cannot have a negative range value.

**Cause:**  The segment range specification for a STAR index specified a negative value. Range values for STAR indexes are based on row IDs or, for multiple-segment indexes, on segment names and row IDs, so range values cannot be negative.

**Response:**  Rewrite the statement with positive integers in the range values.

**RBA106E**  Subsecond precision must be an integer between 0 and 6.

**RBA107E**  Numeric precision must be an integer between 1 and 38.

**RBA108E**  Numeric scale must be an integer between 0 and precision.

**RBS109E**  The number of columns in the FOREIGN KEY specification does not match the number of columns in the PRIMARY KEY of the referenced table.

**Cause:**  There must be one column defined in the FOREIGN KEY specification for each column defined in the PRIMARY KEY of the referenced table.

**RBA110E**  Name defined by CREATE TABLE already exists.

**RBA111E**  Duplicate column names are not allowed. Duplicated name is 'column_name'.

**RBA112E**  PRIMARY KEY, FOREIGN KEY, and UNIQUE columns must be NOT NULL.

**RBS113E**  Referenced table name 'table_name' is not defined.

**Cause:**  The FOREIGN KEY clause of a CREATE TABLE statement references a table that is not defined in the database. The CREATE TABLE statement is rejected.

**Response:**  Referenced tables must be created before they can be referenced in a FOREIGN KEY clause. If this problem is not the result of a simple typographical error, create the referenced table first and then submit the failed CREATE TABLE statement again.
RBS114E The referenced columns in a FOREIGN KEY specification do not match the PRIMARY KEY of the referenced table.

Cause: The PRIMARY KEY of the referenced table is identified in the FOREIGN KEY specification, but it does not match the PRIMARY KEY defined for the table when it was created. The names of the columns must be the same, and they must appear in the same order. For example, the following statements would produce this error:

```
CREATE TABLE TAB1 (KEY1..., KEY2,...,
    PRIMARY KEY KEY1, KEY2));
CREATE TABLE TAB2 (K1..., K2,...,
    FOREIGN KEY (K1, K2) REFERENCES TABLE TAB1(KEY2, KEY1))
```

RBS115E Only one PRIMARY KEY declaration allowed per table.

Cause: Two or more PRIMARY KEY clauses were supplied in a CREATE TABLE statement.

Response: Determine the correct declaration for the PRIMARY KEY clause and remove the other declaration(s).

RBS116E Column named in PRIMARY or FOREIGN KEY is not defined.

RBS117E PRIMARY INDEX IN segment specification supplied for a table that does not have a primary key index.

Cause: A CREATE TABLE statement had a segment specification for a primary key index, but a primary key index was not created. A primary key index is not created for a table if the PRIMARY KEY clause is not included.

Response: Either add a PRIMARY KEY clause or remove the PRIMARY INDEX IN clause to the CREATE TABLE statement, and then submit the command again.

RBS118E SELECT DISTINCT with an ORDER BY clause requires all of the columns in the ORDER BY clause to be in the select list.

Cause: The ORDER BY clause of a SELECT statement with the DISTINCT keyword included columns that were not in the select list.

Response: Include all columns in the ORDER BY clause in the select list.

RBA119E Length must be a positive integer.
**Informational, Warning, and Error Messages**

Message Listing

RBS120E  Name must not exceed 128 bytes.

**Cause:** An object name was given that exceeded the maximum number of bytes.

**Response:** Choose a name for the object with a length of no more than 128 bytes.

RBA121E  Illegal duplicate FOREIGN KEY specification.

**Cause:** The table definition contains a duplicate FOREIGN KEY specification. Two FOREIGN KEYs contain the same columns, in the same order, and reference the same table.

RBA122E  Maximum number of foreign keys exceeded.

RBS123E  Duplicate constraint names are not allowed. Duplicated name is 'constraint_name'.

**Cause:** The indicated constraint name is already defined in the database. Constraint names must be unique within the database.

**Response:** Change the name of the constraint and submit the statement again.

RBA124E  Referencing and referenced columns in FOREIGN KEY clause must have same datatype and length.

RBS125E  Referenced table 'refd_table' does not have a PRIMARY KEY.

**Cause:** A table referenced in a FOREIGN KEY clause must have a PRIMARY KEY defined. If the referenced table is a synonym then the base table of the synonym must have a PRIMARY KEY.

RBA126W  Date or Time value contains extraneous characters.

**Cause:** Data content error. This error could be caused by having an invalid mask specified in the TMU, or by having a setting for DATEFORMAT that does not match the data.

**Response:** Check the data contents, the supplied date mask, and the DATEFORMAT setting.
RBA127E  'time_value' is not a valid timestamp value; it contains extraneous characters.

Cause: Data content error. This error could be caused by having an invalid mask specified in the TMU or by having a setting for DATEFORMAT that does not match the data.

Response: Check the data contents, the supplied date mask, and the DATEFORMAT setting.

RBA128E  'time_value' is not a valid timestamp value. No date or time values found.

Cause: Data content error. This error could be caused by having an invalid mask specified in the TMU or by having a setting for DATEFORMAT that does not match the data.

Response: Check the data contents, the supplied date mask, and the DATEFORMAT setting.

RBA129E  Query resulted in division by zero.

RBA130E  A join path defined by foreign key references must exist between every pair of tables in the FROM clause.

RBA131E  Operand of LIKE must be a single column reference.

RBA132F  Internal error in function: 'string'.

RBA133E  FROM can reference only one table when a system table is referenced.

RBA134E  RESET BY column must be in ORDER BY column list.

RBA135E  BREAK BY column must be in ORDER BY column list.

RBA136E  SUMMING column must be numeric.

RBA137E  ORDER BY column cannot contain a display function.

RBS138E  Select list column may only appear once in SUMMING list.

Cause: The SUMMING list in a BREAK BY specification contained more than one reference to the same select list column.
Informational, Warning, and Error Messages
Message Listing

RBS139E  SUMMING column must appear in SELECT list.
Cause: Columns in the SUMMING subclause of a BREAK BY clause must appear in the select list. The offending reference was either a column reference that did not appear in the select list, or it was an integer reference that was either less than one or greater than the number of columns in the select list.

RBS140E  SUMMING column must not also be a break column.
Cause: A column specified in the SUMMING clause is either explicitly or implicitly specified in the BREAK BY clause. All columns in the ORDER BY clause that precede the explicitly named BREAK BY column are implicitly defined as break columns. Neither explicit nor implicit break columns can be referenced in the SUMMING clause.

RBA141E  SUMMING column in BREAK BY clause cannot contain a display function.

RBL142W  All indexes for table table_name have been marked invalid; review recovery procedures before continuing.
Cause: This message reports the result of a TMU segment RESTORE operation that was run with the FORCE option. A forced segment restore might cause internal discrepancies within the database, so all indexes are marked invalid to force a REORG operation.
Response: Carefully review procedures in the Table Management Utility Reference Guide for recovering from a forced restore operation. You should run tblchk [-f] to test and synchronize internal structures within the indicated table, and then use a REORG operation to synchronize the table with associated indexes. If you have any questions, contact the Red Brick Customer Support Center.

RBA143E  DISTRIBUTED break by calculations are no longer supported.
Cause: Support for DISTRIBUTED break by calculations was removed in Red Brick Warehouse V5.1.

RBA144E  Display functions cannot specify DISTINCT.

RBA145F  Login user name or password is invalid.
RBA146E  Operation cannot be completed because of possible deadlock.

Cause:  The current operation would have waited on a lock while holding a critical resource lock, possibly resulting in deadlock.

Response:  Issue the command again.

RBA147F  Server error: 'string', 'string'.

RBS148E  ALTER SEGMENT alter_option requires segment segment_name to be unattached.

Cause:  The ALTER SEGMENT attach command was rejected because the segment is already attached to a table or index.

Response:  Verify that you specified the correct segment name. Correct the statement and submit it again if necessary.

RBS149E  Column numbers in a RESET BY reference list must be between 1 and column_num.

Cause:  The query contained a complex RESET <reference_list> BY <order_reference> clause. The <reference_list> contained an integer intended to reference a column in the select list, but the integer was either less than 1 or greater than the number of columns in the select list.

Response:  Change the offending reference and submit the query again.

RBA150E  RESET column must reference a display function.

RBA151E  Maximum size of CHARACTER column exceeded.

RBS152E  ALTER SEGMENT alter_option requires segment segment_name to be attached.

Cause:  An ALTER SEGMENT statement with an option valid only for attached segments was issued for an unattached segment.

Response:  Attach the segment and submit the command again.

RBA153F  Error while writing file file_name.

RBA154F  A database file has been corrupted.
Informational, Warning, and Error Messages
Message Listing

RBS155E 'path_name' appears more than once in the CREATE SEGMENT statement.

Cause: A CREATE SEGMENT statement included duplicate PSU names.
Response: Rewrite the statement to use unique PSU names and submit it again.

RBA156E UPDATE operation tried to move data to segment segment_name, which is full.

Cause: During an UPDATE operation on a table, the segment ranges required that a row be move from one segment to another segment. However, the new segment did not have enough space for the row. The operation might have partially updated the table.
Response: Use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. Because some data might have been updated with the last UPDATE statement, think carefully before submitting the UPDATE statement again to avoid updating the same rows twice.

RBS157E Cannot mix range values that specify segment names with those that omit segment names.

Cause: At least one value in the range specification contains a segment name and at least one omits the segment name. All range values must use the same syntax. If a segment name is specified in one range value, a segment name must be specified in all range values.
Response: Correct the range values and submit the command again.

RBA158E SUPPRESS BY column must reference a column in select list.

RBA159E Table referenced by FOREIGN KEY does not exist.

RBS160E ALTER SEGMENT alter_option requires segment segment_name to be online.

Cause: An ALTER SEGMENT statement with an option valid only for online segments was issued for an offline segment.
Response: Bring the segment online and submit the command again.

RBA161E SUPPRESS BY column must not reference a display function.

RBS162E Invalid macro definition; missing right parenthesis.

RBS163E Name defined by CREATE MACRO already exists.
RBS164E  Macro macro_name does not exist.

Cause: A DROP MACRO or ALTER MACRO statement specified a macro name that does not exist in the database.

Response: Verify that you specified the correct macro name. Remember that when referring to a macro in DROP MACRO or ALTER MACRO, the type of the macro (PUBLIC, TEMPORARY, or private) must match the type the macro was created with. Correct the statement and submit it again if necessary.

RBS165W  EXPAND width value is invalid. Default value value will be used.

Cause: The EXPAND statement was given an output width that was out of range. The value must be between 20 and 1024, inclusive.

RBS166E  Macro 'macro_name' cannot be recursively expanded.

RBA167E  Argument count mismatch for macro 'macro_name'. Expected number and got number.

RBS168E  Value value.16g would overflow the column with type data_type.

RBA169E  SUPPRESS BY columns must not reference a literal.

RBL170E  LOAD DATA UPDATE mode requires UPDATE privilege on table.

Cause: A LOAD operation was attempted in UPDATE or UPDATE AGGREGATE mode, but the user did not have the UPDATE privilege on the target table.

Response: Either change the mode used in the LOAD DATA statement or obtain the required object privileges.

RBA171E  Only the COUNT function takes the '*' argument.

RBS172E  Cannot insert USER into a DATE, TIME, or TIMESTAMP column.

Cause: An INSERT into a DATE, TIME, or TIMESTAMP column failed because the USER function returns a datatype that is incompatible with a DATE, TIME, or TIMESTAMP datatype.

Response: Correct the statement and submit it again.
Informational, Warning, and Error Messages
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RBS173E Cannot insert a character value into a DATE, TIME, or TIMESTAMP column.

**Cause:** An INSERT into a DATE, TIME, or TIMESTAMP column failed because the CHARACTER datatype is incompatible with a DATE, TIME, or TIMESTAMP datatype.

**Response:** Correct the statement and submit it again.

RBA174E DELETE statement FROM clause must contain a single table.

RBS175E Table or synonym in FROM clause of a DELETE statement must not be referenced in a subquery.

**Cause:** The table named in the FROM clause of the DELETE statement is also named in a subquery in the WHERE clause. The same base table cannot be referenced in both the FROM and WHERE clauses.

RBS176E Table or synonym in an UPDATE statement must not be referenced in a subquery.

**Cause:** The target table in the UPDATE statement cannot be referenced more than once in the statement.

RBA177E Column that is set to NULL in UPDATE must allow NULLs.

RBA178E An aggregation or display function is not allowed in the SET clause of an UPDATE statement.

RBA179E A destination column name must not be duplicated in the SET clause of an UPDATE statement.

RBA180E A CHARACTER column in an UPDATE or INSERT statement must be set to an equal or shorter-length CHARACTER value.

RBA181E Numeric column 'column_name' in an UPDATE or INSERT statement must be set to an exact numeric value.

RBA182E Floating point column 'column_name' in an UPDATE or INSERT statement must be set to a numeric value.

RBA183E A CHARACTER column in an INSERT or ALTER TABLE statement must be set to an equal or shorter-length CHARACTER value.

RBA184E An exact numeric column in an INSERT or ALTER TABLE statement must be set to an exact numeric value.

RBA185E A floating point column in an INSERT or ALTER TABLE statement must be set to a numeric value.
RBA186E Value in INSERT or UPDATE statement must not have more significant digits than target column.

RBA187E Number of source and destination columns in INSERT statement must be the same.

RBA188E Column in INSERT that is declared NOT NULL must have a source that is not NULL.

RBS189E A system generated foreign key constraint name cannot be used as the segmenting column of a STAR index.

Cause: The segmenting column specified in a CREATE STAR INDEX statement is a system-generated name. The segmenting column must either be a user-defined constraint name or the name of the first column in the CREATE STAR INDEX key list.

Response: Correct the statement and submit it again.

RBS190E Column 'column_name' in table 'table_name' already has an index that is under construction.

Cause: A CREATE INDEX command is currently in process for the specified column and table.

Response: Correct the statement and submit it again. If the process creating the index has terminated without marking the index as complete, then the DBA must drop that index.

RBS191E Cannot insert a numeric value into a DATE, TIME, or TIMESTAMP column.

Cause: An INSERT of a numeric into a DATE, TIME, or TIMESTAMP column failed because the numeric datatype is incompatible with a DATE, TIME, or TIMESTAMP datatype.

Response: Correct the statement and submit it again.

RBA192E Multiple join paths between tables are not supported.

RBA193E Macro definition exceeds maximum column size.

Cause: This macro exceeds the 1024-byte column limit so it cannot be stored in the TEXT column in the RBW_MACROS system table.

Response: Rewrite the macro to shorten it or create multiple macros and nest them (that is, store a macro within a macro).

RBA194E The string 'string' does not contain a valid date value.
RBA195E  The string 'string' does not contain a valid time value.

RBA196E  Number of columns in VIEW definition must equal number in select list.

RBA197E  Name defined by CREATE VIEW already exists.

RBA198E  VIEW definition must supply column names when select list contains unnamed columns or columns with duplicate names.

RBA200E  SUPPRESS BY is not allowed in VIEW definition.

RBS202E  Attach segment segment_name requires an attachment range.

   Cause: An ALTER SEGMENT…ATTACH statement with no range specification was issued for the segment of a table or primary key index. Segment operations that attach a segment without a range specification are valid only for STAR indexes.

   Response: Correct the statement by adding a RANGE clause and submit it again.

RBA203E  DROP TABLE must reference a base table or a temporary table.

RBA204E  The view view_name is not present in the database.

RBA205E  Only a single table is allowed in the FROM clause when a grouped view is referenced.

RBA206E  HAVING not allowed in SELECT from a grouped view.

RBA207E  GROUP BY not allowed in SELECT from a grouped view.

RBA208E  Only a base table or synonym can be the target of an INSERT, UPDATE, or DELETE statement.

RBA209I  Rows inserted: number.

RBA210W  Rows discarded due to duplicate key values: number.

RBS211I  Deleted number rows from table_name.

   Cause: This message provides the number of rows deleted from a table.

   Response: None necessary.

RBA212I  Rows updated: number.

RBS213E  Cannot insert a DATETIME into a non DATETIME column.
RBS214E Parallel index creation must be done on a single table.

Cause: A parallel CREATE INDEX command can operate on only one table, but more than one table was specified in the statement.

Response: Correct the statement and submit it again.

RBA215E User does not have INSERT privilege on table table_name.

RBA216E User does not have UPDATE privilege on table table_name.

RBA217E User does not have DELETE privilege on table table_name.

RBL218E LOAD DATA REPLACE mode requires DELETE and INSERT privileges on table.

Cause: A LOAD operation was attempted in REPLACE mode, but the user did not have both DELETE and INSERT privileges on the target table.

Response: Specify another mode in the LOAD DATA statement or obtain the necessary object privileges.

RBL219E LOAD DATA MODIFY mode requires UPDATE and INSERT privileges on table.

Cause: A LOAD operation was attempted in MODIFY or MODIFY AGGREGATE mode, but the user did not have both UPDATE and INSERT privileges on the target table.

Response: Specify another mode in the LOAD DATA statement or obtain the necessary object privileges.

RBL220E LOAD DATA APPEND or INSERT mode requires INSERT privilege on table.

Cause: A LOAD operation was attempted in APPEND or INSERT mode, but the user did not have INSERT privilege on the target table.

Response: Obtain the necessary object privileges.

RBS221E Parallel index creation must be done in different segments.

Cause: The same segment was specified in more than one index specifier in the CREATE INDEX statement; a segment can be used for only one index.

Response: Correct the statement and submit it again.
RBS222E  The index name 'index_name' is not defined.

Cause:   A DROP INDEX, ALTER INDEX, or ALTER SEGMENT statement specified an index that does not exist.

Response: Correct the statement and submit it again.

RBS225E  Name 'index_name' defined by CREATE INDEX already exists.

Cause:   An index name must be unique in a database. A CREATE INDEX statement specified an index name that conflicted with that of an existing index.

Response: Correct the statement and submit it again.

RBS226E  Too many column or constraint names in the key definition of index 'index_name'.

Cause:   The number of column or constraint names in the key list given in the CREATE INDEX statement exceeds 256.

Response: Correct the statement and submit it again.

RBS227E  Name 'segment_name' already exists.

Cause:   A segment name must be unique in a database. The CREATE SEGMENT or ALTER SEGMENT...RENAME statement specified a segment name that was the same as an existing segment name.

Response: Correct the statement and submit it again.

RBA228E  MAXSIZE must be a nonzero positive integer.

RBA229E  Segment segment_name is not present in the database.

Cause:   A DROP SEGMENT or ALTER SEGMENT statement or a segment-related TMU operation was specified for a segment that does not exist.

Response: Correct the statement and submit it again.

RBS230E  Segment segment_name is already attached to a table or index.

Cause:   A CREATE TABLE or CREATE INDEX statement specified a segment that is already attached to another table or index.

Response: Correct the statement and submit it again.

RBA231W  One or more files in the segment cannot be deleted.
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RBS232E  'path_name' is not a valid PSU.

Cause:  A CREATE SEGMENT or ALTER SEGMENT statement specified a
        PSU location that is not valid. This can occur if the path contains
directories that do not exist.

Response: Correct the statement and submit it again.

RBS233E  The segment name 'seg_name' in the RANGE clause does not
        identify a segment belonging to the table referenced by the
segmenting column.

Cause:  The STAR index range specification in a CREATE STAR INDEX,
        ALTER SEGMENT... ATTACH, or ALTER SEGMENT...RANGE
statement specifies a segment name that is not attached to the
referenced table identified through the segmenting column.

Response: Correct the statement and submit it again.

RBS234E  Index 'index_name' cannot be built because segment
        segment_name is full or the filesystem is full.

Cause:  While creating an index, a segment or the filesystem ran out of
        space.

Response: If a default segment becomes full, create the index in a named
        segment. First, create a segment, specifying the size and location of
the PSUs, then specify the named segment in the CREATE INDEX
statement. If a named segment becomes full, use the ALTER
SEGMENT command to increase the maximum size of a PSU in the
segment or add more PSUs to the segment. If creating the index in a
default or named segment and the filesystem becomes full, increase
disk space or delete unneeded files.

RBA235E  Data cannot be inserted into the table because segment
        segment_name is full or the filesystem is full string.

Cause:  During an SQL INSERT or TMU LOAD operation, all space
        available for new data was used.

Response: If the segment is full, use the ALTER SEGMENT command to either
        increase the maximum size of a PSU in the segment or add more
PSUs to the segment. If the filesystem is full, increase disk space or
delete unneeded files.
**Informational, Warning, and Error Messages**

**Message Listing**

**RBA236E**  
Data cannot be inserted into the table because an index segment *segment_name* is full or the filesystem is full string.

**Cause:** During an SQL INSERT or LOAD operation, the space available for indexes was exhausted.

**Response:** If the segment is full, use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the filesystem is full, increase disk space or delete unneeded files.

**RBS237E**  
Name defined by CREATE SYNONYM already exists.

**Cause:** A CREATE SYNONYM statement tried to create a new synonym, but the synonym name is already in use for another table, synonym, or view.

**Response:** Choose a different synonym name or remove the existing object with that name.

**RBS238E**  
CREATE SYNONYM must reference a base table.

**Cause:** A CREATE SYNONYM statement specified an object that is not a base table. Synonyms can reference only base tables, not temporary tables, views, other synonyms, or model tables.

**Response:** Rewrite the CREATE SYNONYM statement to reference a base table and submit it again.

**RBS239E**  
Insufficient authority to CREATE SYNONYM.

**Cause:** The user who issued the CREATE SYNONYM command did not have the required authority. To create a synonym, a user must be a member of the DBA system role, have CREATE_ANY authority, or own the table.

**Response:** Notify the warehouse administrator and request the required authority.
RBS240E  Segment *segment_name* must be synchronized with its table before ALTER SEGMENT *alter_operation* can be performed.

**Cause:** An ALTER SEGMENT...ONLINE or DETACH statement specified a segment that is out of synchronization with its table as a result of an offline load. The segment must be synchronized or cleared before it can be set online or detached.

**Response:** Synchronize or clear the segment and then submit the command again.

RBA241E  LOCK must reference a base table.

RBS242E  MAXSEGMENTS value must be a non-zero positive integer.

**Cause:** A value was supplied in the MAXSEGMENTS clause that is not in the valid range. Legal values are non-zero positive integers.

**Response:** Submit the CREATE or ALTER TABLE statement with a legal MAXSEGMENTS value.

RBA243E  INSERT, UPDATE, or DELETE privilege is required for LOCK.

RBA244E  LOCK failed because the table is locked by another process.

RBS245E  Table named in UNLOCK is not locked by this session.

**Cause:** User issued UNLOCK with no corresponding LOCK statement.

RBA246E  Only one table can be locked at a time.

RBA247E  A locked table cannot be dropped.

RBS248E  Object 'name' is not owned by user 'user_name'.

**Cause:** A table, view, synonym, or model was qualified with a user name that is not the owner of the object.

**Response:** Either use the correct user for the qualified name or do not qualify the name.

RBA249E  Entry in VALUE list must be a numeric or string literal.

RBA250E  There is not enough memory available to execute the statement. File: *filename* Line: *lineno*

RBA251E  Table or view that is referenced by other views cannot be dropped.
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RBS253E  The synonym 'synonym_name' is not present in the database.

Cause:      A DROP SYNONYM or ALTER SYNONYM statement did not reference a valid synonym.

Response:  Make certain that you supply the DROP SYNONYM or ALTER SYNONYM command with a synonym. Query the RBW_SYNONYMS table to list existing synonym names.

RBA254S  Total table fetches: number. Total successes: number.

RBA255S  No rows returned.

RBA256I  number rows returned.

RBA257E  Duplicate value in UNIQUE column detected while creating index.

Cause:      This error indicates that there is at least one duplicate value in the column. Because the system checks for uniqueness only on columns being indexed, there is no guarantee that a column without an index that is declared UNIQUE in the CREATE TABLE statement contains unique values. The index is not created.

Response:  Correct the statement and submit it again.

RBS258E  Range specification for segment 'seg_name' is empty.

Cause:      The STAR index range specification in a CREATE STAR INDEX statement specifies a segment name/row number combination that equals the minimum possible key value. There are no possible values that are greater than or equal to MIN and less than the specified range value. Thus the segment created would always be empty.

Response:  Correct the statement and submit it again.

RBS259W  Parallel index creation of 'index_name' generated the following message 'string'.

Cause:      A message was generated during the parallel index creation. The message is either informational or indicative of a failure during creation of the parallel index.

Response:  Check the included message and take whatever action is necessary.

RBA264E  Different outer join syntax styles cannot be mixed within the same query.
RBA265E  Index key is too large.

Cause: The total length of all the columns in the index is too large.
Response: Define the index with fewer or narrower columns or with a larger fill factor.

RBS266E  Column 'column_name' in HAVING clause must also be in GROUP BY.

Cause: A column reference in a HAVING clause that is not part of an aggregate expression must be specified in a GROUP BY clause.

RBA267W  Rows were discarded due to referential integrity failure: number.

RBS271E  Time value 'time_value' contains an AM value when the hour is greater than 12.

Cause: The AM time modifier is valid only when an hour is less than or equal to twelve.
Response: Correct the value and submit it again.

RBL272E  Cannot use segment segment_name because it is not offline.

Cause: A LOAD DATA statement was issued to perform either an offline load or a SYNCH operation on a segment that was not offline. These operations can be performed only on offline segments.
Response: Issue an ALTER SEGMENT command to take the segment offline, then perform the SYNCH or LOAD operation.

RBL273E  Cannot use segment segment_name because the segment is damaged.

Cause: A TMU operation for a segment (offline LOAD, SYNCH, UNLOAD) named a specific segment, but the requested segment is damaged and cannot be used until it is repaired.
Response: Repair the segment, bring it online (this will recheck for damage), then submit the command again.

RBS274E  INSERT, UPDATE, and DELETE are not allowed on system tables.
RBS275E  Range values must specify segment names.
Cause:   Segment names are required in the range specification of a STAR index when the MAXSEGMENTS value of the table referenced by the segmenting column is greater than 1.
Response: Correct the statement and submit it again.

RBS276E  Maximum row length for table exceeded.
Cause:   A CREATE TABLE or CREATE TEMPORARY TABLE statement defines a table row that is too long.
Response: Reduce the row size by creating the table with fewer or narrower columns.

RBS277E  LOCK not allowed on system tables.
Cause:   User submitted a LOCK command on a system table for execution.
Response: Locks on system tables are not supported.

RBS278F  A database file has the wrong version number.
Cause:   A database that contained an invalid version number was opened. This message is returned whenever the server version is older than the database.
Response: If this situation occurs, the table and its segments must be dropped and the data must be reloaded.

RBA279E  Operating system denied read access for index file 'file_name'.
Cause:   The operating system denied read access to an index file.
Response: Check the file permissions on the database files and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsrv). The database and segment files must have read and write access for the owner of the Red Brick Warehouse server executable file.
RBA280E  Operating system denied read/write access for index file
'file_name'.

Cause:    The operating system denied read and write access to an index file.
Response: Check the file permissions on the database files and check the owner
and setuid bit on the Red Brick Warehouse server executable file
(rbwsvr). The database and segment files must permit read and write
access by the owner of the Red Brick Warehouse server executable
file.

RBA281E  Operating system denied read access for data file
'file_name'.

Cause:    The operating system denied read access to a data file.
Response: Check the file permissions on the database files and check the owner
and setuid bit on the Red Brick Warehouse server executable file
(rbwsvr). The database and segment files must permit read and write
access by the owner of the Red Brick Warehouse executable file.

RBA282E  Operating system denied read/write access for data file
'file_name'.

Cause:    The operating system denied read and write access to a data file.
Response: Check the file permissions on the database files and check the owner
and setuid bit on the Red Brick Warehouse server executable file
(rbwsvr). The database and segment files must permit read and write
access by the owner of the Red Brick Warehouse server executable
file.

RBA283F  Operating system denied read/write access for database
system file 'file_name'.

Cause:    The operating system denied access to a database system file.
Response: Check the file permissions on the database files and check the owner
and setuid bit on the Red Brick Warehouse server executable file
(rbwsvr). The database and segment files must permit read and write
access by the owner of the Red Brick Warehouse server executable
file.
<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>RBA284E</td>
<td><strong>Operating system denied read access for file 'file_name'.</strong></td>
</tr>
<tr>
<td>Cause:</td>
<td>The operating system denied read access to a file.</td>
</tr>
<tr>
<td>Response:</td>
<td>Check the file permissions on the file and check the owner and setuid bit on the Red Brick Warehouse server executable file (<strong>rbwsvr</strong>). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse server executable file.</td>
</tr>
<tr>
<td>RBA285E</td>
<td><strong>Operating system denied read/write access for file 'file_name'</strong>.</td>
</tr>
<tr>
<td>Cause:</td>
<td>The operating system denied read and write access to a file.</td>
</tr>
<tr>
<td>Response:</td>
<td>Check the file permissions on the file and check the owner and setuid bit on the Red Brick Warehouse server executable file (<strong>rbwsvr</strong>). The database and segment files must permit read and write access by the owner of the Red Brick Warehouse server executable file.</td>
</tr>
<tr>
<td>RBA286E</td>
<td><strong>Index file 'file_name' was not found.</strong></td>
</tr>
<tr>
<td>Cause:</td>
<td>The specified file was missing from the database or segment directory. This could occur because an operating system command was issued to delete the file.</td>
</tr>
<tr>
<td>RBA287E</td>
<td><strong>Data file 'file_name' was not found.</strong></td>
</tr>
<tr>
<td>Cause:</td>
<td>The specified file was missing from the database or segment directory. This could occur because an operating system command was issued to delete the file.</td>
</tr>
<tr>
<td>RBS288E</td>
<td><strong>GRANT not allowed on system tables.</strong></td>
</tr>
<tr>
<td>Cause:</td>
<td>User submitted a GRANT command on a system table.</td>
</tr>
<tr>
<td>Response:</td>
<td>The GRANT command is not supported on system tables.</td>
</tr>
<tr>
<td>RBS289E</td>
<td><strong>REVOKE not allowed on system tables.</strong></td>
</tr>
<tr>
<td>Cause:</td>
<td>User submitted a REVOKE command on a system table.</td>
</tr>
<tr>
<td>Response:</td>
<td>The REVOKE command is not supported on system tables.</td>
</tr>
</tbody>
</table>
RBS290W  Year specified in 'string' is invalid. Expected format is 'YYYY-MM-DD'.

Cause: An ANSI date value must be in the form 'YYYY-MM-DD'. The specified year value was not four digits followed by a dash (-).

Response: Correct the value and submit the statement again.

RBS291W  Month specified in 'string' is invalid. Expected format is 'YYYY-MM-DD'.

Cause: An ANSI date value must be in the form 'YYYY-MM-DD'. The specified month value was not two digits followed by a dash (-).

Response: Correct the value and submit the statement again.

RBS292W  Day specified in 'string' is invalid. Expected format is 'YYYY-MM-DD'.

Cause: An ANSI date value must be in the form 'YYYY-MM-DD'. The specified day value was not two digits.

Response: Correct the value and submit the statement again.

RBS293W  Hour specified in 'string' is invalid. Expected format is 'HH:MM:SS[.[fraction]]'.

Cause: An ANSI time value must be in the form 'HH:MM:SS[.[fraction]]'. The specified hour value was not two digits followed by a colon (:).

Response: Correct the value and submit the statement again.

RBS294W  Minute specified in 'string' is invalid. Expected format is 'HH:MM:SS[.[fraction]]'.

Cause: An ANSI time value must be in the form 'HH:MM:SS[.[fraction]]'. The specified minute value was not two digits followed by a colon (:).

Response: Correct the value and submit the statement again.

RBS295W  Second specified in 'string' is invalid. Expected format is 'HH:MM:SS[.[fraction]]'.

Cause: An ANSI time value must be in the form 'HH:MM:SS[.[fraction]]'. The specified second value was not two digits followed by an optional decimal point(.)

Response: Correct the value and submit the statement again.
RBS296W  Second fraction specified in 'string' is invalid. Expected format is 'HH:MM:SS\.\{fraction\}' with a fraction no more than six digits.

Cause:   An ANSI time value must be in the form 'HH:MM:SS\.\{fraction\}'. The specified second fraction value was not zero to six digits.

Response: Correct the value and submit the statement again.

RBL297F  TAR tapes must have a block size that is a multiple of number bytes.

RBL298I  Mount the tape on device device_name. Press Return when ready, or 'q' to quit.

Cause:   A TMU operation referenced a tape drive, but the drive is not ready with a mounted tape.

Response: Mount a tape on the indicated tape drive and make the drive ready for use. If you do not wish to continue with the operation, enter “q” to quit.

RBL299I  Load the next tape for file file_name (Expecting file section number.)

Cause:   Either the TMU has reached the end of a tape volume (reel) while reading the indicated file, or the user rejected a tape because of a file section sequence mismatch. The message indicates the section number of the file that should be mounted next if a multi-volume tape set is to be processed in ascending sequence.

Response: Prepare and mount the next tape in the set. You do not necessarily have to supply the next sequential tape in the file set, but if you do not, a warning message will be printed.

RBL300I  File file_name was not found on the current tape. Try another tape? (y/n)

RBL301F  Could not allocate number bytes of memory.

Cause:   TMU has insufficient memory to continue. Execution canceled.

Response: Notify the warehouse administrator. Refer to the Red Brick Installation and Configuration Guide. You need to adjust the system environment to meet the requirements.
RBS302E  Segment *segment_name* is mentioned more than once in the CREATE statement.

Cause:    The same segment name was supplied more than once in the CREATE statement.

Response: Correct the CREATE statement by ensuring that each segment name supplied is unique.

RBL303F  Error while fetching descriptor for col *number* in table *table_name*.

RBL304F  Could not find column named *column_name* in table *table_name*.

Cause:    No matching column name was found for a column in the LOAD DATA statement. Execution canceled.

Response: Compare the RBW_COLUMNS system table and the LOAD DATA statement to determine the discrepancy. Correct the LOAD DATA statement and submit it again.

RBL305F  Column *column_name* is specified twice in the LOAD DATA statement.

Cause:    Duplicate column names were found in a single LOAD DATA statement. Execution canceled.

Response: Correct the LOAD DATA statement and submit it again.

RBL306E  Could not open input file *file_name*: os_error

Cause:    An input file could not be opened as specified for the reason indicated. Execution canceled.

Response: Correct the error by specifying a valid filename or by mounting the correct tape, and submit it again.

RBL307F  Could not open discard file *file_name*.

Cause:    A discard file could not be opened as specified. Execution canceled.

Response: Check for an error in the file definition syntax. Correct the error and submit it again.

RBL308F  Unsupported table type.

Cause:    Internal error. Execution canceled.

Response: Contact the Red Brick Customer Support Center.
Informational, Warning, and Error Messages
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RBL309F  START RECORD value must be greater than zero.
Cause: The supplied value for the START RECORD clause is less than or equal to zero.
Response: Use a positive integer value with the START RECORD clause.

RBL310F  STOP RECORD value must be greater than zero.
Cause: The supplied value for the STOP RECORD clause is less than or equal to zero.
Response: Use a positive integer value with the STOP RECORD clause.

RBL311F  STOP RECORD value is smaller than START RECORD value.
Cause: The supplied STOP RECORD value is less than the supplied START RECORD value.
Response: Use a STOP RECORD value at least as big as the START RECORD value.

RBL312W  Discarding row number.
Cause: A row could not be loaded. The previous message should tell why.

RBL313F  Possible data integrity error; expected number rows in table table_name but found number rows.
Cause: The TMU detected a possible data integrity error during a REORG operation. The number of rows expected to be found in the table did not match the actual number of rows read from the table.
Response: Do not use the table until this problem is resolved. You should run the Red Brick table verification utility, tblchk, to identify and fix any problems with the table. Then run the REORG operation again to a normal conclusion. Contact the Red Brick Customer Support Center for assistance.

RBL314W  Data integrity failure on constraint 'constraint', column 'column_name', value 'value' string.
Cause: Supplemental information to message 737.
Response: Check the data contents.

RBL315I  Finished file file_name. number rows read from this file.

RBL316I  Finished current tape. number rows read from this tape.
RBL317W  Foreign key value not unique for column ‘column_name’.

**Cause:** Duplicate foreign key value was found while a table was being loaded.

**Response:** The record was placed in a discard file and loading continued.

RBL318F  Maximum number of bad input records exceeded.

**Cause:** The DISCARDS parameter was exceeded. Load operation terminated.

**Response:** Check the discard file to determine the source of excess errors.

RBL319F  Column column_name of table table_name is declared NOT NULL yet it is not specified in the LOAD DATA statement and has no default value.

**Cause:** All NOT NULL columns must be loaded or have a defined default value. The LOAD operation terminated.

**Response:** Check the LOAD DATA and CREATE TABLE statements.

RBL320I  Processed number rows this LOAD, number rows this file.

RBL321I  Processed number rows this LOAD, number rows this file, number rows this tape.

RBL322W  Supplied RECORDLEN too small. Using computed record length of number.

**Cause:** The value supplied in the RECORDLEN clause is smaller than the sum of the widths of the individual columns in the column list.

**Response:** Check the RECORDLEN value and the column declarations to determine which one is correct and which one should be changed.

RBL323F  Error reading file file_name.

**Cause:** Internal error condition.

**Response:** Notify the warehouse administrator and contact the Red Brick Customer Support Center.

RBL324W  NULL value in a NOT NULLS column column_name row number.

**Cause:** A NULL value was found in a NOT NULL column.

**Response:** Record placed in a discard file and the LOAD operation continued.
**RBL325W**  Truncated column `column_name` row number.

**Cause:** Input string was longer than the maximum specified in the `CREATE TABLE` statement.

**Response:** Warning only. Review data contents.

**RBL326W**  `RECORDLEN` must be a positive integer. `RECORDLEN` clause ignored.

**RBL327F**  `NULLIF` specifies a position greater than record length.

**Cause:** Invalid `NULLIF` clause.

**Response:** Correct the `NULLIF` clause and submit the statement again.

**RBL328F**  Illegal type conversion. `CHARACTER` cannot be converted to numeric. (Column `column_name` of table `table_name`.)

**Cause:** Character conversion error. Execution canceled.

**Response:** Correct the `LOAD DATA` statement and submit it again.

**RBL329F**  Illegal type conversion. Numeric cannot be converted to `CHARACTER`. (Column `column_name` of table `table_name`.)

**Cause:** Character conversion error. Execution canceled.

**Response:** Correct the `LOAD DATA` statement and submit it again.

**RBL330W**  Type overflow. Value `number` cannot be assigned to `TINYINT`. (Column `column_name` row number of table `table_name`.)

**Cause:** A value was too large for a numeric field.

**Response:** The record was placed in a discard file and the `LOAD` operation continued.

**RBL331W**  Type overflow. Value `number` cannot be assigned to `SMALLINT`. (Column `column_name` row number of table `table_name`.)

**Cause:** A value was too large for a numeric field.

**Response:** The record was placed in a discard file and the `LOAD` operation continued.

**RBL332F**  Illegal type conversion. `REAL` cannot be converted to `CHARACTER`. (Column `column_name` of table `table_name`.)
RBL333W  Type overflow. Value number cannot be assigned to TINYINT. (Column column_name row number of table table_name.)

Cause:  A value was too large for a numeric field.
Response: The record was placed in a discard file and the LOAD operation continued.

RBL334W  Type overflow. Value number cannot be assigned to SMALLINT. (Column column_name row number of table table_name.)

Cause:  A value was too large for a numeric field.
Response: The record was placed in a discard file and the LOAD operation continued.

RBL335W  Type overflow. Value number cannot be assigned to INTEGER. (Column column_name row number of table table_name.)

Cause:  A value was too large for a numeric field.
Response: The record was placed in a discard file and the LOAD operation continued.

RBL336F  Illegal type conversion. DOUBLE PRECISION cannot be converted to CHARACTER. (Column column_name of table table_name.)

Cause:  Data format specification error; the LOAD operation terminated.
Response: Compare the LOAD DATA and CREATE TABLE statements; correct the error and submit it again.

RBL337W  Type overflow. Value number cannot be assigned to REAL. (Column column_name row number of table table_name.)

Cause:  A value was too large for a REAL field.
Response: The record was placed in a discard file and the LOAD operation continued.

RBL338W  Data integrity failure on constraint 'constraint', column 'column_name', value 'number'string.'

Cause:  Supplemental information to message 737.
Response: Check the data contents.
**RBL339I** Error while opening database *database_name*.

**Cause:** Could not open database files. The LOAD operation terminated.

**Response:** Notify the warehouse administrator and contact the Red Brick Customer Support Center.

**RBL340W** Read *number* bytes from file, needed *number* bytes.

**Cause:** The number of bytes in the current row was smaller than the record length value being used.

**Response:** Check the data contents.

**RBL341W** Error writing discard file *file_name*.

**Cause:** I/O error while writing discard file.

**Response:** Check for a system error.

**RBL342F** Cannot load in INSERT mode because the table is not empty.

**Cause:** The LOAD DATA statement contained either the INSERT keyword or no mode keyword (INSERT is the default), but the table to be loaded is not empty.

**Response:** If you want to completely reload the table, use REPLACE mode or use an SQL DELETE command to delete all the rows from the table and execute the LOAD DATA statement again; however, all data in the table will be lost. Use REPLACE mode or a DELETE command only if data loss is acceptable. If you want to add additional rows to an existing table, use APPEND mode.

**RBS343E** The segmenting column of the index does not match the segmenting column of the data.

**Cause:** When an index is created with the SEGMENT LIKE DATA clause, the index and the data must be segmented on the same column. The segmenting column of the index must also be the leading column in the index key.

**Response:** Correct the statement and submit it again.

**RBL344E** SEQUENCE must have integer values.

**Cause:** The SEQUENCE function was given a value that is too large. The maximum value is 2,147,483,647.

**Response:** Correct the statement and submit it again.
RBL345W  Literal string is longer than NULLIF field; only first  number bytes of literal will be compared.

Cause: A NULLIF keyword was included in a LOAD DATA field  specification, but the literal string or hex string was longer than the  input record data against which it was to be compared. Only the  indicated bytes in the literal will be compared.

Response: If the length mismatch was unintended, rewrite the LOAD DATA  statement so that the length of the literal string matches the NULLIF  positional field. Note that for hex literals, two hex digits are  equivalent to one byte.

RBL346W  Literal string is shorter than NULLIF field; only first  number bytes of the NULLIF field will be compared.

Cause: A NULLIF keyword was included in a LOAD DATA field  specification, but the literal string or hex string was shorter than the  input record data against which it was to be compared. Only the  indicated bytes in the NULLIF positional field will be compared.

Response: If the length mismatch was unintended, rewrite the LOAD DATA  statement so that the length of the literal string matches the NULLIF  positional field. Note that for hex literals, two hex digits are  equivalent to one byte.

RBL347W  Aggregate operation would cause numeric overflow of target  column. (Column column_name row number of table  table_name.)

Cause: An aggregation operation (ADD, SUBTRACT, or INCREMENT)  would have resulted in a numeric overflow in the target database  column. That is, the magnitude of the resulting value would have  been too large to fit in the datatype of the target column. The  aggregate input row is discarded.

Response: Check the rejected record file for the discarded record. After you  change the values of the database or of the input record or after you  alter the datatype of the target database column, you can reload the  rejected record.

RBL348F  Filename file_name is too long.

Cause: External filename reference exceeded 256 bytes. The load process  terminated.

Response: Check the input filename.
**RBL349F**  Error while creating file *file_name*.

**Cause:** Operating system reported error when creating a file. The load process terminated.

**Response:** Check operating-system error messages.

**RBL350F**  Attempted LOAD operation during FETCH process. Internal data structures are corrupted.

**Cause:** Internal error condition.

**Response:** Notify the warehouse administrator and contact the Red Brick Customer Support Center.

**RBL351W**  Input row *number* is out of range.

**Cause:** Combination of foreign keys produced a point outside of the key array while a data file record was being loaded. The record was placed in a discard file.

**Response:** Perform a REORG operation on the affected table.

**RBL352I**  Row *number* of index *index_name* is out of sequence.

**Switching to standard index_type index building. Loading continues...**

**Cause:** When loading or reorganizing data organized in the order of the table being built, the TMU can use a special fast-index-building mode. This message indicates that an out-of-order row was processed, and therefore, the special fast-index-building mode cannot be continued. The TMU switches to the standard index-building mode selected as part of the LOAD DATA or REORG command (OPTIMIZE keyword) or rbw.config option (TMU_OPTIMIZE keyword.)

**Response:** Information only.

**RBL353F**  Operating System error *number* while loading table *table_name*.

**Cause:** Operating system error detected. The LOAD operation terminated.

**Response:** Check operating-system error messages.
RBL354E  The specified field length number for column column_name is less than the implied length of number.

Cause: A length was specified for an input field that is less than the implied length. This can happen when you specify a field length or when you use the POSITION clause with a start and end value. The implied length is determined by the input datatype. (For example, an INTEGER is four bytes.)

Response: Correct the LOAD DATA statement.

RBL355F  Operating System error number while synchronizing segment segment_name with table_name.

Cause: Operating system error detected. SYNCH operation terminated.

Response: Check operating-system error messages.

RBL356W  Non-unique value string in a UNIQUE column column_name.

Cause: Table data error. The LOAD operation terminated.

Response: Check the data contents.

RBL357W  Cannot increment SEQUENCE because the result would overflow. Column column_name row number of table table_name.

Cause: Incrementing the current value of the SEQUENCE once more would overflow the range for integer values.

RBL358W  Double exponent in field. Column column_name row number of table table_name.

Cause: Found more than one exponent indicator. Record was placed in a discard file.

Response: Check the input data or the discard file.

RBL359W  Two decimal points in field. Column column_name row number of table table_name.

Cause: Decimal field error. Record was placed in a discard file.

Response: Check the input data or the discard file.
**RBL360W**  
Number of decimal places in field exceeds scale for column `column_name`. Row `number` of table `table_name`.

**Cause:** Value overflow. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL361W**  
Characters other than [0-9], '+', and '-' in numeric field. Table `table_name` row `number`. Column name: `column_name`

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL362W**  
Characters other than [0-9], '+', '-', 'e', 'E' and '.' in a floating point field. Table `table_name` row `number`. Column name: `column_name`

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL363W**  
Number of fields in row `number` is less than number of columns to be loaded.

**Cause:** Record length error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBS364W**  
Attaching segment `segment_name` has invalidated index `index_name` of table `table_name`.

**Cause:** An ALTER SEGMENT attach command was issued for a STAR index segment and did not specify the attachment range. The new ranges will be recomputed automatically, causing the current index entries to be invalidated. The index must be rebuilt.

**Response:** If possible, drop the index and create it again. Otherwise, perform a REORG operation.

**RBL365W**  
Incorrect numeric field format. Table `table_name` row `number`.

**Cause:** Record length error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.
RBL366I Loading table table_name.

Cause: This message is issued when the TMU begins processing input records for a LOAD DATA operation. The table name of the target table is indicated.

Response: Information only.

RBL367I Rows: number inserted. number updated. number discarded. number skipped.

RBL368I Unloading table table_name message.

Cause: This message is issued when the TMU begins writing output records for an UNLOAD operation. The table name of the source table is indicated, along with the unload type (relation scan, using index, segmented).

Response: Information only.

RBL369I Unloading segment segment_name.

Cause: This message is issued for each segment unloaded when the TMU is unloading specific segments of a table. The segment name is indicated.

Response: Information only.

RBL370W Invalid data in packed decimal field. Column column_name row number of table table_name.

Cause: A packed decimal input data field contained illegal data. Each nibble (4 bits) must contain 0x0 through 0x9 except the sign nibble, which is the last half of the last byte; it must contain 0xa through 0xf. All other values are illegal.

Response: Check the input data or the discard file.

RBL371F Field starting position must be less than ending position.

Cause: Field specification error. The LOAD operation terminated.

Response: Correct the error in the LOAD DATA statement.

RBL372W Overflow in numeric field. Column column_name row number of table table_name.

Cause: Data value error. Record was placed in a discard file.

Response: Check the input data or the discard file.
**RBL373W** Scaling adjustment will cause overflow in numeric field. Column column_name row number of table table_name.

**Cause:** Data value error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL374W** Double sign in field. Column column_name row number of table table_name.

**Cause:** Data sign error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL375W** Sign is neither the first non-blank character nor the first character after 'E' in field. Column column_name row number of table table_name.

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL376W** Exponent is not preceded by digits in field. Column column_name row number of table table_name.

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL377W** Invalid data in zoned numeric field. Column column_name row number of table table_name.

**Cause:** Data content error. Record was placed in a discard file.

**Response:** Check the input data or the discard file.

**RBL378F** Alphanumeric literal 'string' exceeds 256 bytes.

**Cause:** The load process terminated.

**Response:** Correct the LOAD DATA statement.

**RBL379F** Name 'string' exceeds 128 bytes.

**Cause:** The load process terminated.

**Response:** Correct the LOAD DATA statement.
RBL380F  Separator string must be one character in length.

Cause:  The load process terminated.

Response: Correct the LOAD DATA statement.

RBL381W  Data integrity failure on constraint 'constraint', column 'column_name', value 'number'.

Cause:  Supplemental information to message 737.

Response: Check the data contents.

RBL382W  Data integrity failure on constraint 'constraint', column 'column_name', value 'number'.

Cause:  Supplemental information to message 737.

Response: Check the data contents.

RBL383F  Field length for non-binary column 'column_name' is undefined.

Cause:  Field length must be specified for files with records that are not separated by a character. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL384F  Binary input column column_name not allowed except for fixed format files with a RECORDLEN clause.

Cause:  An input column containing binary input data was specified with either SEPARATED input or fixed input and no RECORDLEN clause. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL385F  Filename must be specified.

Cause:  Filename must be specified for input file. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL386F  NULLIF is not allowed with SEPARATED format.

Cause:  Conflicting parameters. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.
Informational, Warning, and Error Messages

Message Listing

RBL387F  Fatal TMU error.
          Cause:   Internal error.
          Response: Contact the Red Brick Customer Support Center.

RBS388E  Cannot offline the last segment segment_name from a table or index.
          Cause:   If a table or index has only one segment, that segment cannot be offline.
          Response: None necessary.

RBL389E  Syntax error in Table Management Utility control statement at line number.
          Cause:   Syntax error in the specified input statement of a TMU control file.
          Response: Correct the syntax error in the TMU control file and submit it again.

RBL390E  End of file encountered within a literal.
          Cause:   Syntax error at the specified location in a TMU control statement.
          Response: Correct the syntax error in the TMU control file and submit it again.

RBL391E  TMU control statement not terminated by semicolon.
          Cause:   A required semicolon is missing at the end of a TMU control statement.
          Response: Add the semicolon (;) to the control statement and submit it again.

RBL392F  Actual record length of number exceeds maximum record length of number.
          Cause:   Excessively long block encountered. The LOAD operation terminated.
          Response: Correct the input data and perform the operation again.

RBL393W  Floating point overflow or underflow: input 'string' column column_name row number.
          Cause:   Data values exceed hardware limits. Record was placed in a discard file.
          Response: Check the input data or the discard file.
RBL394F  REAL and DOUBLE PRECISION fields are not supported in IBM mode.

_Cause:_ LOAD DATA statement error. The LOAD operation terminated.

_Response:_ Correct the LOAD DATA statement and submit it again.

RBL395F  Field length must be greater than zero.

_Cause:_ LOAD DATA statement error. The LOAD operation terminated.

_Response:_ Correct the LOAD DATA statement and submit it again.

RBL396F  Actual record length of input file is shorter than maximum field extent.

_Cause:_ Error encountered in reading input file. The LOAD operation terminated.

_Response:_ Correct the input data or LOAD DATA statement and submit it again.

RBL397I  Rows: number inserted, number updated, number discarded, number skipped. Loading continues...

RBL398E  Unrecognized M4DATE format 'string'.

_Cause:_ LOAD DATA statement error. The LOAD operation terminated.

_Response:_ Correct the input data or LOAD DATA statement and submit it again.

RBL399W  Incorrectly formatted date in M4DATE field 'string', row number.

_Cause:_ Invalid data encountered. Record discarded. The LOAD operation continued.

_Response:_ Correct the record and load it if desired.

RBL400F  M4DATE cannot be loaded into column 'column_name' because it is not of INTEGER datatype.

_Cause:_ The LOAD DATA and CREATE TABLE statements are inconsistent.

_Response:_ Compare and correct the statements and perform the operation again.

RBL401I  Column 'column_name': size = number, alphabet = number, unique values = number, length = number.
RBL402F  POSITION must be greater than zero.

Cause:  LOAD DATA statement syntax error. The LOAD operation terminated.

Response:  Correct the LOAD DATA statement and submit it again.

RBL403W  Packed or zoned decimal field has too many digits. Column column_name , row number.

Cause:  A packed-decimal or zoned-decimal number with more than 38 significant digits was encountered. The row was discarded.

Response:  Correct the record and load it if desired.

RBL404F  Illegal type conversion. DATETIME cannot be converted to numeric datatype. (Column column_name of table table_name.)

Cause:  The LOAD DATA and CREATE TABLE statements are inconsistent.

Response:  Correct the inconsistencies and perform the operation again.

RBA405E  Insufficient disk space is available to continue execution.

Cause:  A full filesystem prevented Red Brick Warehouse from either enlarging an existing file or creating a new file.

Response:  Make available sufficient disk space on the full filesystem to allow Red Brick Warehouse to do the necessary work.

RBA406E  Insufficient file space for segment segment_name of index index_name.

Cause:  During an index build operation (LOAD DATA, REORG, CREATE INDEX, etc.), the segment space available for the named index was exhausted.

Response:  Use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment.

RBA407W  Unable to delete file file_name error_reason.

RBL408W  Input row number contains duplicate key. Row discarded.
RBS410E Value 'number' out of range for DATEDIFF result type.

Cause: The result of the DATEDIFF function would be out of range for an integer value.

Response: Change the statement to use a different DATEPART and multiply the result of the function with an appropriate value to get the desired results.

For example, instead of datediff(microseconds,date1,date2), use datediff(days,date1,date2) * 8.64E10 (because there are 8.64E10 microseconds in a day).

RBS411E DATEADD result year value 'number' is out of range. Valid values are from number to number.

Cause: The result of the DATEADD is beyond the valid range for a date or timestamp.

Response: Correct the statement to stay within valid date limits.

RBA412F table_name is not a base table.

Cause: The table specified in the statement is either a synonym, a view, or a model table. The operation can be performed only on a user defined base table.

RBA413I number rows failed referential integrity check and were deleted.

RBA414I Table table_name reorganization completed.

RBA415I number rows passed referential integrity check.

RBA416I Reorganized number rows. Discarded number rows. Reorganization continues...

RBA417I Rebuilding index index_name.
Informational, Warning, and Error Messages
Message Listing

RBL418E  Insufficient authority to perform REORG operation.
Cause: A TMU REORG statement specified a table to be organized, but the user running the TMU does not have sufficient object privileges to perform the operation. The TMU user must have REORG_ANY authority, be a member of the DBA system role, or be the owner of the table.
Response: No REORG operation is performed. Review table ownership and authorities and run the TMU with an appropriate database user name.

RBL419I  Reorganizing table table_name.
Cause: This information message indicates that the TMU has begun a REORG operation on the named table.
Response: Information only.

RBA420E  Unable to open output file 'file_name'.
RBA421E  Error unloading table table_name.
RBL422I  Unloaded total number rows to nametape_info.
Cause: Indicates the result of a successful UNLOAD operation.
Response: Information only.

RBL423I  Unloaded number rows. Unloading continues...
Cause: Status message indicating the progress of an UNLOAD operation.
Response: Information only.

RBL424E  Cannot UNLOAD table table_name because index index_name is not valid.
Cause: An UNLOAD operation using an index failed because the named index is currently marked invalid.
Response: Use a REORG operation on the table to restore index validity, omit the index name on the UNLOAD statement to force a relation scan, or choose another index.
RBL425E Insufficient authority to UNLOAD or GENERATE table table_name.

Cause: A TMU UNLOAD or GENERATE command was issued, but the user running the TMU does not have sufficient object privileges to perform the operation. To use UNLOAD or GENERATE, a user must have ACCESS_ANY authority, be a member of the DBA system role, be the owner of the table, or have SELECT privilege on the table.

Response: Review table ownership and authorities and run the TMU with an appropriate database user name.

RBL426I UNLOAD terminated abnormally after number rows.

Cause: An error, interrupt, or signal caused an UNLOAD operation to be terminated abnormally. This message reports the number of rows that were actually written to the unload file.

Response: Information only.

RBA427F Current database not compatible with this version of Red Brick Warehouse.

RBA428F DISCARDFILE IN EBCDIC not supported for ASCII input files.

RBA429E The statement cannot complete because segment segment_name is offline.

Cause: An operation that requires online segments referenced a segment that is offline or unavailable because of I/O errors.

Response: For a SELECT statement, the SET PARTIAL AVAILABILITY command can be used to force the statement to continue even if some data is offline. For other operations, make sure that the segment is online and then perform the operation.

RBA430E Temporary space value number is invalid. Must be a non-negative integer.

Cause: A THRESHOLD or MAXSPILLSIZE value was specified as a negative number.

Response: Specify a value within valid limits.
Informational, Warning, and Error Messages

Message Listing

RBA431E temp_space_type MAXSPILLSIZE number unit_name bytes is an illegal value. The MAXSPILLSIZE must be greater than the THRESHOLD of number bytes.

Cause: An attempt to set the maximum amount (MAXSPILLSIZE) of the indicated type of temporary space (either QUERY_TEMPSPACE or INDEX_TEMPSPACE) specified an illegal value.

Response: Submit the request again with a value that, when rounded up to the nearest multiple of 8192 bytes, is greater than the corresponding THRESHOLD value for the type of temporary space.

If you are setting the value with a SET command, note that you can also use the SET [QUERY | INDEX]_TEMPSPACE RESET command to restore all temporary space configuration parameter values for the indicated type of temporary space from the rbw.config file.

RBA432E Temporary space location 'path_name' is not a directory.

RBA433E Temporary space location 'path_name' is not writable.

RBA434E Unable to spill any more data into temporary space file 'file_name'.

RBA436E Invalid units 'unit_name' for temp_space_type THRESHOLD. Valid units are 'unit_name' (Kilobytes) and 'unit_name' (Megabytes).

RBA437E Temporary space file number file_name is too large. Value must be less than or equal to 2047 gigabytes.

RBL438F Argument string to CONCAT or ACCEPT/REJECT not previously defined.

RBL439F Argument string to CONCAT is not of CHARACTER fieldtype.

RBL440F Result column of CONCAT must be of CHARACTER datatype.

RBL441F CONSTANT string is not type compatible with column column_name.

RBL442F CONSTANT string is not type compatible with column column_name.

RBL443F CONSTANT number is not type compatible with column column_name.
RBL444E  AUTOROWGEN cannot be used with offline LOAD.

Cause:  A LOAD DATA statement for performing an offline load specified AUTOROWGEN ON. Because AUTOROWGEN requires exclusive access to the tables referenced by the foreign keys of the table being loaded, it defeats the purpose of offline load (which is to allow query activity to proceed against the rest of the table while the load is performed into the offline segment).

Response:  Either remove AUTOROWGEN from the TMU control file or use an online load operation with AUTOROWGEN specified.

RBA445F  Column column_name is NOT NULL; CONSTANT NULL is invalid.

RBA446F  Result column column_name of SEQUENCE cannot be of CHARACTER datatype.

RBS447E  Unknown function 'function_name'.

RBS448E  Function 'function_name' expected number argument(s) and was called with number.

Cause:  The specified function was called with an incorrect number of arguments.

RBS449E  Function 'function_name' has incorrect type for argument number. Expected type: data_type. Actual type: data_type.

Cause:  The specified function was called with the wrong datatype for the specified argument.

RBS450E  Function 'function_name' does not allow NULL as a value for argument number.

Cause:  The NULL keyword is not allowed at the specified location of the specified function.

RBS451E  Function 'function_name' does not allow type: data_type for argument number. Any other type is valid.

Cause:  The specified argument is an invalid type.

RBS452E  Invalid option 'option_name' for function 'function_name'. Valid options are: option_name.

RBL453F  Illegal value string in CONSTANT statement.

RBL454W  Decimal point in exponent. Column column_name row number of table table_name.
Informational, Warning, and Error Messages
Message Listing

RBL455W  No digits in exponent. Column column_name row number of table table_name.

RBL456W  Data integrity error. Invalid data in floating point field. Column column_name row number of table table_name.

RBS457E  STRING function called with length number greater than defined length number.

  Cause: The STRING function was called with an expression for the length that is greater than the default length value.

RBS458E  STRING function called with scale value number out of range.

  Cause: The STRING function was called with a scale value that was either greater than 38 or less than zero.

RBS459E  STRING function called with scale value scale, which is too large for length of length.

  Cause: In the STRING function, scale + 3 must be less than or equal to length; if scale + 3 is greater than length, an error is issued. (The three additional characters are needed for the sign character, the decimal (radix) point and a possible leading zero.

  Response: Decrease the scale value or increase the length value and call the STRING function again.

RBS460E  Function 'function_name' was called with argument number set to number, which is less than the allowed minimum of number.

  Cause: The value of the specified argument of the specified function is too small.

RBS461E  Function 'function_name' was called with argument number set to number, which is greater than the allowed maximum of number.

  Cause: The value of the specified argument of the specified function is too large.

RBS462E  Function 'function_name' cannot have a NULL value for argument number.

  Cause: The specified function was called with a NULL value, which is not allowed.
RBS463E Function 'function_name' was called with a character string that did not contain numeric values. String:'string'.

Cause: The conversion to a numeric type was not possible because the character string was not convertible.

RBS464E The value number could not be converted to an integer because it is out of range.

Cause: An argument to the INT function was outside the legal range for an integer.

RBA465E Cannot modify table because one or more of the referenced tables are empty.

Cause: One of the tables referenced by the target table has no rows. Thus, all rows in the target table will fail referential integrity.

Response: Before a table can be loaded, all tables referenced by it (including associated outboard tables) must be loaded.

RBL467F Device 'device_name' is not a tape drive.

Cause: An UNLOAD or BACKUP statement for the TMU specified a tape device name, but that device name is either not a tape drive or not a tape drive model supported by Red Brick Warehouse. The operation is rejected.

Response: Examine the DEVICE name specified in the UNLOAD or BACKUP statement, and correct it to reference a supported tape drive.

RBL468F Operating system error during I/O to device device_name.

Cause: The TMU was unable to complete an I/O request to the indicated device. Additional error text is included, indicating the system-specific error that occurred.

Response: Examine the DEVICE name specified in the UNLOAD statement to ensure it references a supported tape drive. The system-specific error should suggest a further course of action.
RBL469W Not enough data to read another row of number bytes from file file_name. Extra data ignored.

**Cause:** The length of the input file was not divisible by the length supplied in the RECORDLEN clause. The extra data at the end of the file is ignored.

**Response:** Remove the extra data from the end of the file, adjust the RECORDLEN, or add data to the end of the file so that the file length is divisible by the RECORDLEN.

RBL470I Tape drive device_name is not ready.

**Cause:** The indicated tape drive could not be accessed for input/output. This probably indicates that the drive is not properly loaded and ready.

**Response:** Load an appropriate tape and make the drive ready.

RBL471I Unable to write to tape in drive device_name because it is write protected.

**Cause:** The TMU attempted to start unloading data to a magnetic tape, but it could not access the tape because it is write-protected.

**Response:** Enable the tape for writing or load a different tape in the indicated tape drive. To resume the UNLOAD operation, press Return.

RBL472F Device device_name is unable to support UNLOAD in Standard Label format.

**Cause:** An UNLOAD operation to tape was requested using the Standard Label tape format; however, the selected tape device imposes physical restrictions that prevent it from writing a tape in that format. The UNLOAD operation fails.

**Response:** Rewrite the UNLOAD statement to specify native tape format (“tar” for UNIX systems) or choose a tape drive that supports variable length blocks.

RBL473I Unmount current tape and mount new blank tape on device device_name.

**Cause:** An UNLOAD operation has completely filled a tape volume and needs to continue on a new blank tape.

**Response:** Allow the current tape to rewind and remove it from the tape drive. Mount a new blank tape on the same drive.
RBL474I  Interpreting tape on device device_name as tar format.

Cause: A LOAD operation from a tape drive has determined that the tape mounted on the indicated device appears to be in tar format. This message indicates only that the TMU expects the tape to be written in a valid tar format, not that it has successfully interpreted the tar tape header or found the requested file.

RBL475I  Interpreting tape on device device_name as SL format.

Cause: A LOAD operation from a tape drive has determined that the tape mounted on the indicated device appears to be a Standard Label (SL) tape. This message indicates only that the TMU expects the tape to be written in a valid SL format, not that it has successfully interpreted the SL tape header or found the requested file.

RBA476I  Error creating lock file file_name.

Cause: Red Brick Warehouse or the rb_creator script could not create the RB_DEFAULT_LOCKS file. The operating system error that occurred is displayed immediately following this message.

Response: Check file permissions and free space on the filesystem containing the database directory.

RBL477W  Tape starts with file section number, was expecting file section number.

Cause: A LOAD operation is continuing with a new tape reel, but the file section on the tape does not sequentially follow the previous tape reel.

Response: Answer the subsequent question to continue with the mounted tape or to select another tape.

RBL478I  Enter 'c' to continue with this section, or 'n' to mount another tape.

Cause: Follows message 477.

RBL479F  Invalid Standard Label tape format encountered: string.

Cause: The TMU found a format error while processing a Standard Label tape. The exact nature of the problem is indicated in the message.

Response: The current LOAD operation terminates. Restart the operation with correct media.
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RBL481F Not a tar tape, or invalid tar tape format encountered: string.
   Cause: The TMU found a format error while processing a tar format tape. The exact nature of the problem is indicated in the message.
   Response: The current LOAD operation terminates. Restart the operation with correct media. If you are using a multi-tape tar volume, be sure that the tapes are being processed in the proper sequence.

RBL482I File file_name is not the next file on the current tape.
   Cause: The TMU is searching for a second or subsequent filename used in a LOAD statement, but the named file does not follow sequentially on the mounted input tape.
   Response: A message requiring a response follows this message. Answer that message as appropriate.

RBL483I Enter 'c' to continue searching this tape, 'n' to rewind and mount a new tape, or 'q' to quit.
   Cause: Follows message 482.
   Response: Respond with “c” to continue searching forward on the currently-mounted tape. Respond with “n” to rewind the current tape. Rewinding the tape allows you to restart the search from the beginning of the current tape or to dismount the current tape and mount another tape. Respond with “q” to quit the TMU operation immediately.

RBL484F TMU terminated at user request.
   Cause: Indicates that the TMU operation is terminating as the result of a user request.

RBL485W Invalid backup tape: string
   Cause: The TMU detected an invalid backup tape while performing a RESTORE operation. The specific error is indicated in the message.
   Response: Database integrity requires that a RESTORE operation be run to completion after it has started. Therefore, if at all possible, identify a resolution for the error (such as mounting the correct tape) and continue the RESTORE operation.
RBL486F  Restore operation terminated at user request.

Cause:  The TMU is terminating a RESTORE operation as the result of a user request.

Response:  In most cases, a RESTORE operation that has terminated in this way leaves the database in an invalid state. The database should not be used until a successful RESTORE operation is completed. Restart the RESTORE operation from the beginning, supplying the correct tapes to complete it.

RBL487I  Enter 'n' to rewind and mount a new tape or 'q' to quit.

Cause:  Follows message 485.

Response:  Respond with “n” to rewind the current tape. Rewinding the tape allows you to dismount the current tape and mount another. Respond with “q” to quit the RESTORE operation immediately. Note that you might leave your database in an invalid state if you quit.

RBL488I  Mount tape number number in the restore sequence.

Cause:  The TMU is looking for the next tape in a backup sequence to continue a RESTORE operation.

Response:  Mount the indicated tape and press Return when ready.

RBL489I  Output tape for Standard Label format currently has no label.

Cause:  The TMU is attempting to write an output tape in Standard Label format, but was unable to identify a pre-existing label on the output tape from which to determine volume identification information. This condition can occur if writing to a new tape or a tape that was previously recorded in a format without standard labels. It can also occur if the tape is an IBM labeled tape with volume information recorded in EBCDIC. The user must provide volume identification information (sometimes called a volume serial number) so that a new label can be written on the tape.

Response:  The user is prompted to enter a new volume identifier.
RBL490I  Volume identifier must contain between one and six bytes.

Cause: The user failed to enter a valid volume identifier for use in a tape label. The volume identifier must be non-null and is limited to six bytes.

Response: Enter a valid volume identifier, or “q” to quit the TMU.

RBL491I  Volume identifier contains invalid characters.

Cause: The user failed to enter a valid volume identifier for use in a tape label. The volume identifier must be between one and six bytes long; it must consist only of numeric digits, upper case letters, or special characters from the set: !"#$%&'()*+,-./:;<=>? A volume identifier cannot contain embedded blanks.

Response: Enter a valid volume identifier or “q” to quit the TMU.

RBL493E  Cannot UNLOAD segment segment_name for table table_name because the segment does not exist.

Cause: An UNLOAD operation named a specific segment to unload, but no segment by that name exists in the database.

Response: Specify valid segment names in the UNLOAD statement.

RBS494E  Cannot drop column column_name because it is the segmenting column.

Cause: An attempt was made to drop a column used to segment a table by range values.

Response: Correct the ALTER TABLE statement so that it does not drop the segmenting column.

RBL495W  Segment segment_name is already in SYNCH with table table_name.

Cause: A SYNCH operation referenced a segment that is already synchronized with its associated table. No action was performed.

Response: An ALTER SEGMENT command can be issued to bring the segment online.
RBL496E Cannot use segment segment_name because it is not a row data segment attached to table table_name.

Cause: A TMU operation for segments (offline LOAD, SYNCH, or UNLOAD) named a segment that is either not attached to the named table or does not contain row data (that is, it contains index data).

Response: Correct the TMU statement to specify named segments that contain row data for the corresponding table.

RBL498E Load mode conflicts with offline load.

Cause: A LOAD operation into an offline segment specified MODIFY or UPDATE mode; an offline LOAD operation can be done only in INSERT, APPEND, or REPLACE mode.

Response: Correct the LOAD statement to specify a valid mode or perform an online load operation.

RBS499S stat_typetime_string cp time, time_string tot cp time, time_string agg tot cp time, time_string elapsed time, time_string agg elapsed time, Logical Reads/Writes: numbernumberstat

Cause: Full statistic messages have been enabled. This message contains statistical information about the command. There might be platform-specific information following the Logical Reads/Writes information.

RBS500S stat_typetime_string cp time, time_string time, Logical IO count=numberstat

Cause: This message contains statistical information about the command. There might be platform-specific information following the Logical IO count.

RBS501E LOCK DATABASE already issued in this session.

Cause: User issued a LOCK DATABASE command when the database was locked.

Response: None necessary. The database is already locked.
**Informational, Warning, and Error Messages**

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**RBS502E**  Database not locked.

**Cause:**  User issued an UNLOCK DATABASE command when the database was unlocked.

**Response:**  None necessary. The database is already unlocked.

**RBS503E**  Cannot lock database because the database is already locked.

**Cause:**  User issued a LOCK DATABASE NO WAIT command when the database was locked by another user.

**RBS505E**  Cannot complete operation because database is locked.

**Cause:**  Another user has the database locked for exclusive access.

**Response:**  Try the operation later or issue a LOCK DATABASE command to acquire an explicit lock on the database.

**RBS506E**  Insufficient authority to LOCK DATABASE.

**Cause:**  The user who issued the LOCK DATABASE command did not have the required authority. To lock a database, a user must be a member of the DBA system role or have the LOCK_DATABASE authority.

**RBS507I**  Unable to lock database because the following tables are locked:

**Cause:**  This error is always followed by error 508, which lists the tables that prevent the locking of the database.

**Response:**  The DBA should request that all active database users stop their queries and release any locks they have on tables. The tables in the list following this error are the names of the base tables; if a synonym is locked, then its base table is displayed in this list.

**RBS508I**  Table *table_name* (id *number*).

**Cause:**  Follows messages 507, 541, and 639.

**RBS509E**  There are locked tables.

**Cause:**  Follows message 507.
RBL510I  File file_name is not present on the current tar archive.

Cause: The TMU searched for the indicated file on a tar archive tape, but the file was not found.

Response: A message requiring a response follows this message; answer it as appropriate. The indicated file might be present earlier in the current tar archive. If so, respond by selecting rewind and reprocess the current archive beginning with the first (or only) tape in the archive.

RBL511I  Enter 'n' to rewind and mount a new tape, or 'q' to quit.

Cause: Follows message 510.

Response: Respond with “n” to rewind the current tape, which allows you to restart the search from the beginning of the tape, or to dismount the tape and mount another. You must mount a tape that contains the beginning of a tar archive because you cannot start searching from a second or subsequent volume of a multi-volume tar archive. Respond with “q” to quit the TMU operation.

RBL512I  OPTIMIZED index building is OFF.

Cause: Indicates that OPTIMIZED index-building mode has been set OFF for the current TMU operation. In some cases when processing strictly ordered data, the TMU is able to use a special fast index-building technique. Otherwise, optimized or unoptimized index-building is selected according to the OPTION TMU_OPTIMIZE setting in the rbw.config file and/or an optional OPTIMIZE statement for the current TMU operation. In some cases, unoptimized index-building can take much longer than optimized building for the same data and index.

Response: If selection of unoptimized index-building is unintentional, consider interrupting the current TMU operation and modifying the rbw.config file and/or the TMU control file to specify OPTIMIZE ON.
**RBA513I**  Starting merge phase of index building *index_name*.

**Cause:** Indicates that a merge phase of index building is starting during a LOAD DATA, REORG or CREATE INDEX operation. This message is issued only when an index is built using the standard OPTIMIZE indexing mode. In some cases, this phase of index building can take substantial time.

**Response:** Information only.

**RBL514E**  Unable to undo offline load because table *table_name* has an invalid index.

**Cause:** One or more of the indexes of the table have become invalid since the offline LOAD operation was performed. Possible causes of an invalid index are that one of the referenced tables in the schema has had its MAXSEGMENTS or MAXROWS PER SEGMENT value changed, that one the referenced tables has been reloaded, or that a segment has been attached to or detached from the index.

**Response:** Perform a SYNCH operation to synchronize the offline segment with the table. Then bring the segment online and perform a REORG operation on the table. Alternatively, you can use an ALTER SEGMENT CLEAR command, bring the segment online, and perform a REORG operation; this alternative removes all the rows from the segment.

**RBS515E**  Cannot change the maxsize of PSU id *psu_num1* because PSU id *psu_num2* is the "current" PSU.

**Cause:** The specified PSU sequence ID precedes the PSU sequence ID of the “current” PSU—the one from which the last new block was allocated.

**Response:** Correct the statement and submit it again.

**RBS516E**  Invalid PSU sequence number specified.

**Cause:** User issued an ALTER SEGMENT statement with a PSU sequence number less than 1 or greater than the number of PSUs in the segment.

**Response:** Query the RBW_STORAGE system table for the correct PSU sequence number.
RBS517E Cannot change PSU MAXSIZE to less than current size, which is current_size.

**Cause:** User issued an ALTER SEGMENT...CHANGE MAXSIZE statement and the requested MAXSIZE value is less than the current size for the PSU indicated.

**Response:** Choose a new MAXSIZE value greater than or equal to the current size.

RBA519E Directory 'path_name' does not contain a valid Red Brick Warehouse database. Missing 'string'.

**Cause:** Five files contain the system tables for a Red Brick Warehouse database: RB_DEFAULT_IDX, RB_DEFAULT_INDEXES, RB_DEFAULT_LOCKS, RB_DEFAULT_SEGMENTS, and RB_DEFAULT_TABLES. At least one of these files is not in the specified directory.

**Response:** If the directory value is not a valid directory, then look in the rbw.config file for a database definition line with the format: DB <name> <directory>. If not, then have the warehouse administrator add the appropriate line. If the directory value is a valid directory, check that it contains a Red Brick Warehouse database created with the rb_creator script. Finally, check the file permissions on the database and the permissions on the rbwsvr program. The database should have read/write privilege for the “redbrick” user. The rbwsvr program should also be owned by the “redbrick” user and have the setuid bit turned on.
**Informational, Warning, and Error Messages**

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**RBS520F**  
**Lock file corrupt.**

**Cause:** During kernel initialization, the file `RB_DEFAULT_LOCKS` must exist in the same path as `RB_DEFAULT_IDX` file. The initialization procedure makes the following checks on the file:

1. It must be exactly 65,536 bytes long.
2. It must contain the four-byte sequence “LOCK” repeated 16,384 times.

If either or both of these conditions is not met, then the kernel aborts initialization and exits.

**Response:** This file is created by `rb_creator`. The file itself contains no data critical to the execution of the system, but it must exist. This file can be created again in one of two ways: by using a shell script or by replacing the file from a tar tape if one exists.

**RBL521F**  
**Cannot restore backup level:** number **timestamp:** time **because it is older than a restored lower level:** number **timestamp:** number.

**Cause:** Backups can be restored only in level-ascending order (older to newer). In this case, the current backup is older than a previously restored lower-level backup.

**Response:** Make sure that backups are restored in the proper order.

**RBL522F**  
**Cannot restore backup from:** time **since it is older than the last restored backup:** time.

**Cause:** Backups can be restored only in level-ascending order (older to newer). In this case, the backup is older than the files that have already been restored for the same level.

**Response:** Make sure that backups are restored in the proper order.

**RBL523I**  
**Starting backup level:** number **of 'name' at time.**

**Cause:** A BACKUP operation has started at the specified backup level. A timestamp is also shown.

**RBL524I**  
**Backup complete at time. number blocks written.**

**Cause:** The BACKUP operation has completed successfully.
RBL525I  Restore of backup from: 'name' level: number timestamp: time into 'name' starting at time.

Cause: A RESTORE operation has started.

RBL526I  Restore complete at time. number blocks restored.

Cause: The RESTORE operation has completed.

RBL527E  Invalid backup level: number. Values must be between 0 and 9.

Cause: The backup level is not an integer between zero and nine.

Response: Submit the command again with a valid backup level.

RBL528F  Insufficient authority to perform RESTORE operation.

Cause: The user who issued the RESTORE command did not have the required authority. To restore a database, a user must have RESTORE_DATABASE authority or be a member of the DBA system role.

Response: Notify the warehouse administrator and request the required authority.

RBL529F  Insufficient authority to perform UPGRADE operation.

Cause: The user who issued the UPGRADE command did not have the required authority. To upgrade a database, a user must have UPGRADE_DATABASE authority or be a member of the DBA system role.

Response: Notify the warehouse administrator and request the required authority.

RBL530I  Backup phase 1 string. Collecting changed blocks.

Cause: The BACKUP operation is scanning for blocks that need to be backed up.

RBL531I  Backup phase 2 string. Writing changed blocks to 'name'.

Cause: The changed blocks are now being written to the specified device.

RBL532I  Backup phase 3 string. Updating database blocks.

Cause: At this point in the backup, the backup files are complete on the backup device. The database is now being modified to reflect the current backup level.
**RBA533E** Cannot complete operation because table 'table_name' has an invalid index.

**Cause:** A requested operation could not be completed because a required index on the indicated table is marked “invalid.”

**Response:** Examine the RBW_INDEXES system table to determine which index or indexes are invalid. Perform a REORG operation for each invalid index and then try the operation again.

**RBL534E** Cannot reorganize table table_name because one or more referenced tables are empty.

**Cause:** One of the tables referenced as a foreign key by the table named in the TMU REORG statement is empty. If the REORG operation were performed, all rows would fail referential integrity and all rows in the named table would be discarded.

**Response:** If your intent is to remove all rows from the named table, use the DELETE FROM <table_name> command. If your intent is to reorganize the named table, verify that all referenced tables have data against which referential integrity can be checked. If a referenced table is empty, you can use the INSERT INTO…VALUES command to insert a temporary row into the empty referenced table so that the REORG operation can be performed.

**RBA536W** Rows discarded due to keyspace overflow: number.

**Cause:** The MAXROWS_PER_SEGMENT value was changed, which resulted in an invalid STAR index. Then an attempt was made to insert rows into the referencing table before a REORG operation was performed on the STAR index. For more information, refer to the discussion of growing tables in the Warehouse Administrator’s Guide.

**Response:** REORG the affected referencing table.

**RBS537E** Column column_name is named more than once in the INSERT column list.

**Cause:** The same column was named more than once in the input column set. For example, the following statement produces this error:

```
INSERT INTO T(COL1, COL1) VALUES (1, 1);
```
RBS538E  ALTER SEGMENT command failed because the file 'file_name' already exists.

Cause: The file named in the ALTER SEGMENT statement already exists and therefore cannot be added to the segment. This error is produced only when you are adding a new file to a segment.

Response: Either delete the offending file or use a different path.

RBA539W  Index index_name could not be synchronized because segment segment_name is full. Reorg this index.

Cause: An index segment ran out of disk space during the synchronization of an offline segment.

Response: The index is marked invalid and the synchronization is completed. Perform a REORG operation on the invalid index.

RBA540E  Table table_name needs to be reorganized.

Cause: The table named in the error references tables that have been reloaded since the STAR index for the table was created. The table must be reorganized before it can be used.

Response: Notify the warehouse administrator and/or perform a REORG operation on the affected table.

RBL541I  Cannot load table table_name because the following tables referencing it are locked: 

Cause: User attempted to load a table in REPLACE mode and tables that reference this table are locked. Message 508 lists each table that is locked.

Response: Make certain that the referencing tables are not locked.

RBL542E  Tables are locked.

Cause: Follows message 541.

RBS543E  Column column_name named more than once in primary or foreign key.

Cause: User attempted to create a table with a column named more than once as part of a primary key or as part of a foreign key. For example, the following example will produce this error:

```
CREATE TABLE A (KEY1..., KEY2..., PRIMARY KEY (KEY1, KEY2, KEY1));
```
**RBL544W**  Index *index_name* has been marked invalid.

**Cause:** The index with the indicated name has been marked invalid because of an error during a TMU operation. Other messages show the final result of the TMU operation.

**Response:** Use the REORG command to reorganize the indicated index, or drop the index and create it again.

**RBA545E**  The statement cannot complete because segment *segment_name* is damaged.

**Cause:** A segment required by the current operation cannot be used because it is damaged. Damage can be caused by physical I/O errors or by corrupted filenames, permissions violations, or other serious I/O-related errors.

**Response:** For a SELECT statement, the SET PARTIAL AVAILABILITY command can be used to force the statement to continue even if some data is unavailable. Refer to the procedure documented in the Warehouse Administrator’s Guide for recovering damaged segments.

**RBA546W**  Damage detected in segment *segment_name*: message.

**Cause:** A damaged condition was detected for the indicated segment. The message provides more information. In most cases, the message contains text and another message number, which you can look up in this reference guide for more information.

**Response:** To allow continued operation, issue an ALTER SEGMENT command to take the indicated segment offline. While the segment is offline, take necessary actions to repair the damage condition. Refer to the procedure documented in the Warehouse Administrator’s Guide for repairing damaged segments.

**RBS547S**  Query could not run in parallel mode because shared memory could not be allocated.

**Cause:** The query would have been executed using parallelism, but it was not possible to allocate sufficient shared memory to do so. Typically, this is a result of having insufficient shared memory resources available. These resources can be increased on many systems by altering kernel tuning parameters.

**Response:** Ask your DBA to review the Red Brick Installation and Configuration Guide regarding kernel parameters for shared memory and adjust them if appropriate.
RBS548S Query could not run in parallel mode because a sufficient number of processes could not be reserved.

Cause: The query would have been executed using parallelism, but it was not possible to reserve the minimum number of processes required to execute the query in parallel mode. Typically, at least two processes are required to execute a query in parallel mode. There are two possible reasons why no processes could be reserved:

(1) Other concurrent queries are being run in parallel mode and there are not enough processes left to run this query in parallel. The maximum number of processes that can be allocated to execution of queries in parallel mode is specified by the value of the TOTALQUERYPROCS parameter in the rbw.config file.

(2) The number of processes that a single query can use to execute a query in parallel (specified by the value of the QUERYPROCS parameter in the rbw.config file) is less than the minimum number required to run this query in parallel.

Response: If desired, contact your DBA to add/alter the TOTALQUERYPROCS and/or QUERYPROCS parameters in the rbw.config file.

RBL549E UNLOAD file too big to use native (tar) format.

Cause: An UNLOAD operation was requested with the output directed to a native format (that is, tar archive format) tape. The UNLOAD operation could not be performed using this output format because the amount of data to be unloaded exceeds the maximum size allowed for a tar archive. The maximum size for a tar archive is one byte less than 8 gigabytes (8,589,934,591 bytes). This maximum size is determined by the IEEE-POSIX tar format standard.

Response: Choose the Standard Label tape format instead of native format. The Standard Label tape format has no maximum size constraint.

RBS550E A query cannot reference a table and a view on the same table.

Cause: A query or subquery contained both a view on a table and that same table in the query’s FROM clause.
RBS551E  The reference to table.column in a FROM clause subquery is illegal.

Cause: Correlated subqueries in the FROM clause are not allowed to reference columns in any query that contains the FROM clause. The table and column name represent the illegal reference.

RBS552E  The reference to column alias column in a FROM clause subquery is illegal.

Cause: See message 551.

RBS553E  All columns in a multi-column index key must be defined as NOT NULL.

Cause: One or more columns named in the key list of the CREATE INDEX statement are not defined with the NOT NULL attribute.

Response: Remove the column from the index list, or create the table again and define all columns in the key list as NOT NULL.

RBS554E  The index 'index_name1' is a duplicate of the index 'index_name2'.

Cause: The new index to be created is identical to an existing index. It is the same type of index as an existing index and has the same key.

Response: None needed. The new index is redundant and unnecessary.

RBS555W  Rows not updated due to referential integrity failure: number.

Cause: The indicated number of rows were not updated because the UPDATE operation would have caused the row to be in violation of the referential integrity specified by the foreign key relationships that were declared when the table was created.

RBA556F  Current database not compatible with this version of Red Brick Warehouse. Run TMU UPGRADE command.

Cause: The RB_DEFAULT_IDX file is an earlier version than expected.

Response: The warehouse administrator should run the UPGRADE command to upgrade the file to the current version.
**RBL557E** Attempted copy of *file_name* to *file_name* before UPGRADE processing failed.

**Cause:** The “cp” command that is attempted at the beginning of the UPGRADE processing failed. This command is intended to save a copy of the RB_DEFAULT_IDX file before the UPGRADE of that file is attempted. Possible reasons for the command to fail are running out of disk space or canceling the UPGRADE operation.

**Response:** Make sure that the database directory has enough disk space to copy the RB_DEFAULT_IDX file and run the UPGRADE operation again.

**RBL558E** UPGRADE command does not need to be run on database *database_name*.

**Cause:** The current database has either already been upgraded or does not need to be upgraded because it was created with the current version of Red Brick Warehouse.

**Response:** None needed. An UPGRADE operation does not need to be performed on this database.

**RBL559I** UPGRADE of Red Brick Warehouse database *database_name* successful.

**Cause:** The UPGRADE operation of the specified Red Brick Warehouse database was successful.

**Response:** You can now use this database with the new version of Red Brick Warehouse. You do not need to run the UPGRADE command again on this database.

**RBL560F** Cannot restore backup level:*number* because a higher level:*number* timestamp:*time* was restored.

**Cause:** Backups can be restored only in level-ascending order (older to newer). In this case, the current backup is a lower level than a previously restored backup.

**Response:** Make sure that the backups are restored in the proper order.

**RBL561F** Restore file ‘*file_name*’ not found or not a file.

**Cause:** The filename specified in a TMU RESTORE command is not present.

**Response:** Make sure that the file to restore is specified correctly.
**RBL562F** Cannot restore backup from 'file_name'. Not a Red Brick Warehouse backup.

**Cause:** The specified file/device does not contain a Red Brick Warehouse backup.

**Response:** Make sure that the file to restore is specified correctly.

**RBL563F** Backup from 'file_name' is from an incompatible database version string.

**Cause:** The specified file/device does not contain a Red Brick Warehouse backup that is compatible with the current version of the database.

**Response:** Ensure that the correct restore file is specified and that the database was created with the same version of Red Brick Warehouse that was used to do the BACKUP and RESTORE operations.

**RBS564E** CREATE INDEX must reference a base table.

**Cause:** A CREATE INDEX statement specified an object that is not a base table. Indexes can be created only on base tables, not on views, synonyms, or model tables.

**Response:** Rewrite the CREATE INDEX statement to reference a base table and submit it again.

**RBS565E** Illegal disjunction with outer join.

**Cause:** The user issued a query with an outer join specified in the WHERE clause, but there was an OR operator between the join specification and some other constraint or join specification.

**Response:** Correct the query.

**RBL567F** Insufficient authority to perform BACKUP operation.

**Cause:** The user who issued the BACKUP command did not have the required authority. To backup a database, a user must have BACKUP_DATABASE authority or be a member of the DBA system role.

**Response:** Notify the warehouse administrator and request the required authority.
RBL568F  Previous level: number backup was from time but was expected to be time.

Cause: The current restored backup was based on a database that had been backed up at the specified level and timestamp. That backup was not restored prior to the current restored backup.

This error can occur if all the incremental backups prior to the current backup are not restored; for example, by backing up level 0, 1, 2, 3, 4 and only restoring 0, 1, 3.

This error can also occur if a backup that is not consistent with previous backups is restored. For example: perform backups 0, 1, 2, 3 (call this set A). Later, perform the same backups again 0, 1, 2, 3 (call this set B). Restore 0 and 1 from set A and then try to restore 2 from set B. The set B backup is based on a different set of full and incremental backups, and it will be rejected.

Response: Check the timestamps and backup levels carefully.

RBL569W  Table table_name has one or more invalid indexes. A REORG will be required after operation is complete.

Cause: One or more indexes on the table have become invalid since the offline load was performed. Possible causes of an invalid index are: (1) The MAXSEGMENTS or MAXROWS PER SEGMENT value was changed for one of the tables referenced by a foreign key; (2) one of the referenced tables has been reloaded, or (3) a segment has been attached or detached from the index.

Response: After using a SYNCH command to synchronize the segment with the table and indexes (or an ALTER SEGMENT…CLEAR command to remove all the rows from the segment), bring the segment online (if needed) and perform a REORG operation on the table.

RBL573E  Full backup required prior to incremental backup.

Cause: An incremental BACKUP operation was attempted on a database that has never had a full backup or that has had incremental invalidated backups.

Response: The warehouse administrator must do a level 0 backup before doing an incremental backup.
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RBL574E  Cannot restore database backed up from 'file_name' into current database 'database_name'.

**Cause:** An attempt was made to restore a BACKUP operation done in one database into a different database.

**Response:** If you are trying to move a database, use the UNLOAD command or the rb_cm facility. If you are trying to restore a backup, make sure that the RB_PATH value is the same as the value used during the BACKUP operation.

RBL575I  Ready the next TAR tape for file file_name.

**Cause:** The TMU has reached the end of a tape while reading a tar archive file. The message indicates that the next tape in a multi-tape tar archive should be mounted.

**Response:** Prepare and mount the next tape in the set. Because of the UNIX standard format for multi-tape tar archives, there is no way for the software to detect that the correct tape in sequence has been mounted, so be sure that you mount the next sequential tape in the set.

RBA576E  Possible deadlock detected. Tableid:number Lock type:string.

**Cause:** The current command was about to wait for a lock, but has already acquired a different lock for which some other process is already waiting.

**Response:** Wait a few moments and then submit the command again.

RBL577W  Unable to restore file 'file_name' into directory 'path_name'. Reason:string.

**Cause:** A PSU could not be written or created. Possible causes are that the directory does not exist or it does not have write permissions or that the file already exists and does not have write permissions. The TMU executes as the “redbrick” user, so write permission for that user is required on the specified directory and/or file.

**Response:** Make sure that the specified directory exists and has the proper permissions for the “redbrick” user. If the specified file exists, make sure it also has the proper permissions.
RBL578E Restore was unable to continue due to file permission problems.

Cause: Follows message 577.

Response: Correct the file permission problems listed by message 577 and submit the RESTORE command again.

RBS579W The current statement has invalidated existing incremental backups. A full backup is now required prior to any incremental backup.

Cause: The current statement has modified the database in such a way that existing incremental backups are no longer valid with the last full backup. A new full backup must be done prior to any incremental backups.

Response: The DBA must do a full (level 0) backup prior to doing any incremental backups.

RBS580E Nested views cannot contain correlated subqueries.

Cause: A CREATE VIEW statement contained a reference to a view that contained a correlated subquery. Such views are not currently supported.

Response: Create the view without using a reference to another view that contains a correlated subquery.

RBS581E Subqueries cannot contain references to aggregated expressions at an outer level.

Cause: A query was issued that contained both a reference to a view in the FROM clause and a correlated subquery that referenced a column from the view that was an aggregation function or an expression containing an aggregation function: for example,

\[
\text{sum(dol) / 1000000}
\]

Response: Some queries of this nature can be re-cast by modifying the query to perform the same operation as the view. However, this workaround is not possible in all cases.
**RBS582E**  Scalar function `function_name` argument `number` was type `data_type` and was expected to be one of `data_type`.

**Cause:** A scalar function was invoked with an invalid datatype for one of the arguments.

**Response:** Correct the statement to use one of the expected datatypes for the function argument.

**RBS583E**  Scalar function `TIMESTAMP` called with `number` arguments but it expects one or two arguments.

**Cause:** The `TIMESTAMP` function accepts one character argument or a date argument followed by a time argument.

**Response:** Correct the statement to use one of the expected datatypes for the function argument.

**RBS584E**  `DATE`, `TIME`, or `TIMESTAMP` value not allowed as argument to scalar function `function_name`.

**Cause:** The specified function was given a `DATETIME` value.

**Response:** Correct the statement to use one of the expected datatypes for the function argument.

**RBL585E**  Invalid datepart `'string'` specified for function `function_name`.

**Cause:** The datepart specification was not recognized.

**Response:** Correct the statement to use one of the supported datepart specifiers. Valid values are: YEAR, YY, QUARTER, QQ, MONTH, MM, DAY OF YEAR, DY, DAY, DD WEEK, WK, WEEKDAY, DW, HOUR, HH, MINUTE, MI, SECOND, SS, MILLISECOND, MS.

**RBS586E**  Invalid DATEFORMAT value `'string'`. Valid values are MDY, DMY, YMD, YDM, MYD, or DYM.

**Cause:** The value on the SET DATEFORMAT command was invalid.

**Response:** Correct the statement to specify a valid format.

**RBL587E**  Illegal type conversion. `DATETIME` cannot be converted to `CHARACTER`. (Column `column_name` of table `table_name`).
**RBL588F**  Illegal type conversion. Must be a DATE or TIMESTAMP.  
(Column column_name of table table_name).

**Cause:**  The table column has a DATE type and can accept only DATE or TIMESTAMP data. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL589F**  Illegal type conversion. Must be a TIME or TIMESTAMP.  
(Column column_name of table table_name).

**Cause:**  The table column has a TIME type and can accept only TIME or TIMESTAMP data. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL590F**  Illegal type conversion. Must be a DATE, TIME, or TIMESTAMP.  
(Column column_name of table table_name).

**Cause:**  The table column has a TIMESTAMP type and can accept only DATE, TIME, or TIMESTAMP data. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL591F**  Invalid date mask 'string' for column column_name.

**Cause:**  The date mask does not correctly specify a date format. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL592F**  Invalid time mask 'string' for column column_name.

**Cause:**  The time mask does not correctly specify a time format. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL593F**  Invalid timestamp mask 'string' for column column_name.

**Cause:**  The timestamp mask does not correctly specify a timestamp format. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.
**RBL594F** DATETIME mask 'string' for column column_name is missing a specification for YEAR.

**Cause:** The mask is invalid because it does not have a year specification. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL595F** DATETIME mask 'string' for column column_name is missing a specification for HOUR.

**Cause:** The mask is invalid because it does not have an hour specification. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL596F** DATETIME mask 'string' for column column_name has more than one YEAR specification.

**Cause:** The mask is invalid because it contains more than one year specification. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL597F** DATETIME mask 'string' for column column_name has both month and/or day and Julian day or multiple Julian specifications.

**Cause:** The mask is invalid because it contains more than one specification for a day in the year. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL598F** DATETIME mask 'string' for column column_name has more than one MONTH specification.

**Cause:** The mask is invalid because it contains more than one month specification. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL599F** DATETIME mask 'string' for column column_name has more than one DAY specification.

**Cause:** The mask is invalid because it contains more than one day specification. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.
RBL600F  DATETIME mask 'string' for column column_name has more than one HOUR specification.

Cause:   The mask is invalid because it contains more than one hour specification. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL601F  DATETIME mask 'string' for column column_name has more than one MINUTE specification.

Cause:   The mask is invalid because it contains more than one minute specification. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL602F  DATETIME mask 'string' for column column_name has more than one SECOND specification.

Cause:   The mask is invalid because it contains more than one second specification.

Response: Correct the LOAD DATA statement and submit it again.

RBL603F  DATETIME mask 'string' for column column_name has more than one fractional second specification.

Cause:   The mask is invalid because it contains more than one fractional second specification.

Response: Correct the LOAD DATA statement and submit it again.

RBL604W  Data integrity failure on constraint 'constraint', column 'column_name', value 'year-month-day' string.

Cause:   Supplemental information to message 737.

Response: Check the data contents.

RBL605W  Data integrity failure on constraint 'constraint', column 'column_name', value 'hour:minute:second.fraction' string.

Cause:   Supplemental information to message 737.

Response: Check the data contents.
RBL606W Data integrity failure on constraint 'constraint', column 'column_name', value 'year-month-day hour:minute:second.fraction'.

Cause: Supplemental information to message 737.

Response: Check the data contents.

RBL607W String starting with 'string' does not specify a valid month name. Table table_name column column_name row number.

Cause: The TMU expected either a full month name or a three-letter month abbreviation but did not find one. The record was placed in a discard file and the LOAD operation continued.

Response: Check the data contents.

RBL608W Invalid numeric value for DATETIME field 'number'. Table table_name column column_name row number.

Cause: Data content error. The record was placed in a discard file and the LOAD operation continued.

Response: Check the data contents.

RBA609W Year value 'number' is out of range. Valid values are from number to number.

Cause: Data content error. Possible causes are that an invalid mask was specified in the TMU control file or that a setting for the DATEFORMAT parameter does not match the data. The record was placed in a discard file and the LOAD operation continued.

Response: Check the data contents, the supplied date mask, and the DATEFORMAT setting.

RBA610W Month value 'number' is out of range. Valid values are from number to number.

Cause: Data content error. Possible causes are that an invalid mask was specified in the TMU control file or that a setting for the DATEFORMAT parameter does not match the data. The record was placed in a discard file and the LOAD operation continued.

Response: Check the data contents, the supplied date mask, and the DATEFORMAT setting.
RBA611W  Day value 'number' is out of range for string. Valid values are from number to number.

Cause:  Data content error. Possible causes are that an invalid mask was specified in the TMU control file or that a setting for the DATEFORMAT parameter does not match the data. The record was placed in a discard file and the LOAD operation continued.

Response:  Check the data contents, the supplied date mask, and the DATEFORMAT setting.

RBA612W  Hour value 'number' is out of range. Valid values are from number to number.

Cause:  Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard file and the LOAD operation continued.

Response:  Check the data contents and the supplied date mask.

RBA613W  Minute value 'number' is out of range. Valid values are from number to number.

Cause:  Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard file and the LOAD operation continued.

Response:  Check the data contents and the supplied date mask.

RBA614W  Second value 'number' is out of range. Valid values are from number to number.

Cause:  Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard file and the LOAD operation continued.

Response:  Check the data contents and the supplied date mask.

RBA615W  Microsecond value 'number' is out of range. Valid values are from number to number.

Cause:  Data content error. A possible cause is that an invalid mask was specified in the TMU control file. The record was placed in a discard file and the LOAD operation continued.

Response:  Check the data contents and the supplied date mask.
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**RBL616F** DATETIME mask 'string' for column column_name has more than one AM/PM specification.

**Cause:** The mask is invalid because it contains more than one AM/PM specification. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL617W** Did not find the expected AM/PM specification. Instead found 'string'. Table table_name column column_name row number.

**Cause:** Data content error. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the input data or the discard file.

**RBL618F** Too many occurrences of field specifier mask character 'character' for column column_name. This character was specified number times and can appear at most number times for the given field.

**Cause:** The specified field might be larger than allowed. If a value can contain at most two digits, then at most two characters can be in the field specification. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.

**RBL619W** Expected separator character 'character' and got 'character (hex_character)' instead. Table table_name column column_name row number.

**Cause:** A DATETIME mask specified a particular character as a field separator and the character was not found. The record was placed in a discard file and the LOAD operation continued.

**Response:** Check the input data or the discard file.

**RBL620F** Constant for field 'character' for column column_name contains too many digits to be valid. The maximum number of digits is number.

**Cause:** A numeric constant for a DATETIME field contains too many digits to be a valid value. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement and submit it again.
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RBL621W  Value for field 'character' contains too many digits to be valid. The maximum number of digits is number. Table table_name column column_name row number.

Cause: A numeric value for a DATETIME field contains too many digits to be a valid value. The record was placed in a discard file and the LOAD operation continued.

Response: Check the input data or the discard file.

RBS622E  Cannot put a DATE, TIME, or TIMESTAMP value into character column.

Cause: An INSERT or UPDATE statement attempted to put a DATE, TIME, or TIMESTAMP value into a column that has a character datatype.

Response: Rewrite the statement to use the STRING scalar function to convert the datetime datatype to a string.

RBS623E  Cannot put a DATE, TIME, or TIMESTAMP value into numeric column.

Cause: An INSERT or UPDATE statement attempted to put a DATE, TIME, or TIMESTAMP value into a column that has a numeric datatype.

Response: Rewrite the statement to use the DATEPART scalar function to extract the desired part.

RBS624E  Cannot put a DATE value into TIME column.

Cause: An INSERT or UPDATE statement attempted to put a DATE value into a column that has a TIME datatype.

Response: Correct the statement and submit it again.

RBS625E  Cannot put a TIME value into DATE column.

Cause: An INSERT or UPDATE operation attempted to put a TIME value into a column that has a DATE datatype.

Response: Correct the statement and submit it again.

RBS626E  Expected '(' after &.

Cause: Syntax error in RB_TRANSLATE file.

Response: Correct the statement and submit it again.
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RBS627E  Expected ')' after string variable number.

    Cause:         Syntax error in RB_TRANSLATE file.
    Response:     Correct the statement and submit it again.

RBS628E  The string variable number must be an integer.

    Cause:         The string variable number in RB_TRANSLATE file is not an integer.
    Response:     Correct the statement and submit it again.

RBS629E  Valid range for string variable numbers is 1 to 255.

    Cause:         The string variable number in RB_TRANSLATE file must be between 1 and 255.
    Response:     Correct the statement and submit it again.

RBS630E  Too many string variables in an RB_TRANSLATE statement.

    Cause:         An RB_TRANSLATE statement cannot have more than 255 string variables.
    Response:     Correct the statement and submit it again.

RBS631E  The TO clause of an RB_TRANSLATE statement is missing.

    Cause:         An RB_TRANSLATE statement must contain both FROM and TO clauses.
    Response:     Correct the statement and submit it again.

RBS632E  Unexpected end of file for RB_TRANSLATE.

    Cause:         The last statement of the RB_TRANSLATE file is incomplete.
    Response:     Correct the statement and submit it again.
RBL633I  Created temporary dump file file_name for invalid rows in table_name.

Cause: Illegal rows were encountered in the indicated table during a REORG operation and were removed from the table. The rows were written to the indicated temporary file in UNLOAD (internal) format.

Response: The deleted rows can be found in the file named in the message; these rows can be reloaded into a table using the FORMAT UNLOAD clause.

RBS634E  Synonyms used as foreign keys must specify the same ON DELETE action.

Cause: The user attempted to create a table with foreign keys where two or more foreign keys were specified. At least one of the tables named as a foreign key table was a synonym, and the ON DELETE action specified for the synonym was not the same as that specified for another synonym on the same table or on the base table itself.

Response: Make certain that all delete actions on synonyms of the same table specify the same action (either all CASCADE or all NO ACTION).

RBS635I  A relation scan was performed.

RBS636W  DELETE operation contained mixed ON DELETE actions; converted all to NO ACTION.

Cause: The target table in the DELETE statement had referencing tables that specified different ON DELETE actions. The delete operation will be treated as if all referencing table had specified NO ACTION.

Response: Make certain that the delete actions are consistent (either all CASCADE or all NO ACTION) for all tables and synonyms.

RBS637E  LOCK FOR DELETE must lock a base table.

Cause: A LOCK TABLE...FOR DELETE statement must name a base table as the target. A synonym cannot be locked.

Response: Lock the base table instead of a synonym.
RBS638W  LOCK for delete operation contained mixed delete trigger actions; converted all to NO ACTION.

Cause: The target table in the LOCK statement had referencing tables that specified different ON DELETE actions. The delete operation will be treated as if all referencing tables had specified NO ACTION.

Response: Make certain that the delete actions are consistent (either all CASCADE or all NO ACTION) for all tables and synonyms.

RBS639W  Unable to lock table table_name for delete because the following tables are locked:

Cause: The target table in the LOCK statement had referencing tables that were locked by other users. This error is always followed by error 508, which lists the tables that prevent the locking of the target table for delete.

Response: Either set the wait mode to WAIT or wait for the tables to become available.

RBS640E  Delete all rows from table_name failed because it violated referential integrity of foreign key constraint constraint_name with table table_name.

Cause: The user issued a DELETE FROM table statement with no constraints, and one of the tables referencing the target table was not empty. Deleting the rows from the target table would result in a referential integrity violation.

Response: Delete all the rows in all referencing tables or use the DELETE...OVERRIDE REFCHECK command. Overriding the referential integrity check is not recommended.

RBS641E  The table table_name is already locked.

Cause: The user issued a LOCK command to explicitly lock a table and then issued a DELETE statement against another table that was not explicitly locked for a delete operation.

Response: Do not delete from a table while another table is locked.
RBS642I Deleted number rows from table_name cascading on foreign key constraint constraint_name.

Cause: This message provides the number of rows deleted from a table because of a cascaded delete operation on the specified foreign key/primary key constraint.

Response: None necessary.

RBL643F DATETIME constant field 'character' for column column_name did not have a value.

Cause: A DATETIME field with a constant value field was not followed by a numeric constant. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL644F DATETIME constant field 'character' for column column_name has an invalid value number. Value must be between number and number inclusive.

Cause: A constant DATETIME value was specified that is out of range for the fieldtype. The valid value range for the fieldtype is included in the message. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL645F DATE mask 'string' for column column_name contains a TIME value.

Cause: At least one TIME field was present in DATE specification. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL646F TIME mask 'string' for column column_name contains a DATE value.

Cause: At least one DATE field was present in TIME specification. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.
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RBL647F  The century value specified in the mask 'string' for column column_name is invalid. Valid values are 0 to 99.

Cause:   The DATETIME field specified a century value that was not in the accepted range of values. The LOAD operation terminated.

Response: Correct the LOAD DATA statement and submit it again.

RBL648W  Detected hour value number greater than 12 with AM specification. Column column_name row number of table table_name.

Cause:   Data value error. The record was placed in a discard file and the LOAD operation continued.

Response: Check the input data or the discard file.

RBL649W  DATETIME data error. Column column_name row number of table table_name.

Cause:   Data value error. Record placed in a discard file. The cause of the DATETIME error will be in a previous message. This message provides the information about the column that had the error.

Response: Check the input data or the discard file.

RBL650W  Detected hour of zero with PM specification. Column column_name row number of table table_name.

Cause:   Data value error. The record was placed in a discard file and the LOAD operation continued.

Response: Check the data contents. Check the input data or the discard file.

RBS651E  Time value 'string' contains a PM value when the hour is zero.

Cause:   0 PM is not a valid time value.

Response: Correct the value and submit the statement again.

RBS652I  number rows not deleted from table_name because their deletion would have violated referential integrity of foreign key constraint constraint_name with table table_name.

Cause:   This message indicates the number of rows not deleted from a table during a NO ACTION delete operation.
RBS653E MAXROWS PER SEGMENT value must be a non-zero positive integer.

Cause: A value was supplied in the MAXROWS PER SEGMENT clause that is not in the valid range. Legal values are non-zero positive integers.

Response: Submit the CREATE or ALTER TABLE statement again with a legal MAXROWS PER SEGMENT value.

RBA654E Data cannot be inserted into the table because the maximum number of rows per segment has been reached.

Cause: The current number of rows in the segment into which the row must be inserted is equal to the table's MAXROWS PER SEGMENT value. No more rows can be inserted until the MAXROWS PER SEGMENT value is changed.

Response: ALTER the MAXROWS PER SEGMENT value for the table.

RBS655W REORG of referencing table STAR indexes will be required for changed MAXSEGMENTS or MAXROWS PER SEGMENT value to take effect.

Cause: An ALTER TABLE CHANGE MAXSEGMENTS or ALTER TABLE CHANGE MAXROWS PER SEGMENT command was issued that affects any STAR index containing a foreign key column that references the altered table. Tables with affected STAR indexes cannot be modified until the indexes are rebuilt.

Response: None necessary, but issuing a REORG command against a referencing table will cause its STAR index(es) to be rebuilt reflecting the new MAXSEGMENTS or MAXROWS PER SEGMENT value. The following query can be used to identify the affected STAR indexes:

```sql
SELECT DISTINCT INAME
FROM RBW_INDEXCOLUMNS
WHERE FKNAME IN
  (SELECT FKCONSTRAINT
   FROM RBW_RELATIONSHIPS
   WHERE PKTABLE = 'table_name');
```

(where 'table_name' is the name of the table that was altered).

Until the REORG operations are run, any operation (such as a load) that tries to modify a table with an affected STAR index will fail, issuing an error message that the affected STAR index is invalid.
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**RBS656E** Cannot change the MAXSEGMENTS value to less than *number*, the maximum number of segments ever attached to the table.

*Cause:* An ALTER TABLE CHANGE MAXSEGMENTS statement was issued that attempted to set MAXSEGMENTS to a value less than the maximum number of segments ever attached to the table.

*Response:* Supply a MAXSEGMENTS value greater than the number of segments specified in this message.

---

**RBS657W** Segment *segment_name* can currently hold only *number* rows.

*Cause:* The supplied MAXROWS PER SEGMENT value is greater than the number of rows the supplied data segment can hold at its current MAXSIZE value.

*Response:* None necessary, but the segment will fill up before the MAXROWS PER SEGMENT value is reached unless an ALTER SEGMENT operation is done.

---

**RBS658E** Cannot change MAXROWS PER SEGMENT value to less than *number*, the largest number of rows ever in a segment of this table.

*Cause:* The supplied MAXROWS PER SEGMENT value is less than the largest number of rows ever stored in any segment of this table.

*Response:* Supply a MAXROWS PER SEGMENT value that is larger than the largest number of rows ever stored in any segment of this table.

---

**RBS659I** Thread *number* subprocess id *number* is being terminated due to ON ERROR ABORT.

*Cause:* A parallel command had the ON ERROR ABORT clause and detected that one of the subprocesses failed. The other subprocesses are being terminated.

*Response:* None necessary.

---

**RBS660W** Unable to start *number* subprocesses. Reason: *os_error*

*Cause:* A parallel command was not able to create all the subprocesses required due to operating system resource limits.

*Response:* Either try the command without as much parallelism (that is, do not specify as many CREATE INDEX clauses in a single command) or try the command at a different time when there might be less resource contention on the machine.

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RBS661E  Attempted to create number indexes. number created successfully and number failed.

Cause:  After a parallel index creation, this message gives the final status of how many indexes were not created. Preceding messages give the reasons for each index that was not created.

Response:  None necessary.

RBS662W  Thread number subprocess id number terminated with signal number.

Cause:  A subprocess terminated abruptly. Possible causes of the termination are an ON ERROR ABORT clause on a parallel command, which will kill all subprocesses when an error is detected in one of them; an internal error in the subprocess; or some outside user or processes manually killing the subprocess.

Response:  If the signal number is not 9, this is probably an internal error. You should notify the Red Brick Customer Support Center.

If the signal number is 9 and was preceded by a message stating that a subprocess was being terminated because of an ON ERROR ABORT clause, then you can ignore this message.

If the signal number is 9 and there was no preceding message, then some outside user or process killed the subprocess. In this case, notify your operating-system administrator.

RBS663W  Unable to start subprocess for thread number. Reason: os_error

Cause:  A parallel command was not able to create all the subprocesses required due to operating system resource limits.

Response:  Either try the command without as much parallelism (that is, do not specify as many CREATE INDEX clauses in a single command) or try the command at a different time when there might be less resource contention on the machine.

RBS664W  Parallel index for thread number index name 'index_name' failed.

Cause:  This message was preceded by some other message that contained a thread number and the actual reason for the failure.

Response:  None necessary.
RBS665E Insufficient authority to ALTER TABLE table_name.

Cause: The user did not have the required authority to alter the table named in the statement. To alter a table, a user must have ALTER_ANY authorization, be a member of the DBA system role, be the creator of the table and be a member of the RESOURCE system role, or be the creator of the table and have ALTER_OWN and ALTER_TABLE_INTO_ANY authorizations (if using the IN_PLACE option, the user need not have ALTER_TABLE_INTO_ANY authorization).

Response: Verify that the user has the correct authority to alter the table named in the statement.

RBS666E ALTER TABLE must reference a base table.

Cause: The ALTER TABLE statement specified a synonym, view, temporary table, model table, or system table. Only base tables can be altered.

Response: Correct the statement to reference a base table.

RBS667E Cannot add column column_name because it already exists.

Cause: A column named in an ALTER TABLE...ADD COLUMN statement was already in the table. The table was not altered.

Response: Verify the name of the column. The column can be dropped using ALTER TABLE DROP COLUMN.

RBS668E Cannot drop column column_name because it is not in the table.

Cause: The column named does not exist in the table, and thus cannot be dropped. The table is not altered.

Response: Verify the ALTER TABLE statement and the table’s current definition in RBW_COLUMNS and RBW_TABLES.

RBS669E Invalid constant in column default value.

Cause: The default value in an ALTER TABLE statement was either not type compatible with the column definition, or it was not a constant expression.

Response: Verify that the column’s type is assignment compatible with the default value.
RBS670E  DEFAULT or RANGE value for column column_name would cause truncation or overflow.

Cause:   The default or range value declared would have to be truncated in order to assign the value to the column or it would cause an overflow error.

Response: Verify that the number of digits in the column's datatype will hold the desired value. If the column is FLOAT, REAL or DOUBLE PRECISION, be certain that the value will not cause an underflow or overflow.

RBS671E  Column column_name cannot be dropped because it is part of the table’s primary key.

Cause:   It is not possible to drop any column that is part of the primary key of the table.

Response: If it is necessary to drop a column in the primary key, drop the table and create the table again.

RBS672I  Cannot drop column column_name because it is referenced by the following:

Cause:   The named column cannot be dropped because it is referenced in at least one view or index. This informational message is always followed by message number 673, 676, or 822, which list the views and indexes that make use of this column.

Response: If it is necessary to drop the column, all views and indexes that reference this column must first be dropped and then created again after the column has been dropped.

RBS673I  View view_name (id number).

Cause:   This message is always preceded by message number 672. Refer to message 672 for more information. It is followed either by another message 673, 676, or 674, or by message 822.

RBS674E  ALTER TABLE statement rejected.

Cause:   This is the last message in a series of messages that explain why a column cannot be dropped. Refer to message 672 for more information. Note that no changes were made to the table.
RBS675E  CASCADE keyword not implemented for DROP COLUMN.

Cause: The CASCADE option for the DROP COLUMN command is defined in the SQL-92 standard, but it is not implemented in this release of Red Brick Warehouse.

RBS676I  Index index_name (id number).

Cause: This message is always preceded by message number 672. Refer to message 672 for more information. It is followed either by another message 672, 676, or 674 or by message 822.

RBS677E  Cannot add column column_name with NOT NULL and specify DEFAULT NULL.

Cause: The user attempted to alter a table by adding a column declared NOT NULL and specifying a NULL value for the column’s default.

Response: Decide whether the column should allow null values; if not, specify a new, non-null default value.

RBS678E  Cannot drop all columns from a table.

Cause: The user attempted to alter a table by dropping all of its columns.

Response: To redefine the entire table, drop it and create a new one.

RBS679E  There is no pending ALTER TABLE operation on table table_name.

Cause: The user attempted to reset an interrupted or incomplete ALTER TABLE operation; however, any ALTER TABLE operation executed on the named table was already complete.

Response: Make certain that the correct table was named in the ALTER TABLE…RESET command.

RBS680E  ALTER TABLE ... RESET not allowed on an IN_PLACE alter operation.

Cause: The user attempted to reset an interrupted ALTER TABLE operation, but the original ALTER TABLE operation used the IN_PLACE option; the RESET operation cannot be used to recover from an interrupted IN PLACE operation.

Response: Either use ALTER TABLE…RESUME to finish the operation, or drop the table and create it again.
RBL681W  Input row number does not match existing key. Row discarded.

Cause:  During a LOAD operation in either UPDATE or UPDATE AGGREGATE mode, an input row’s primary key did not match the primary key of any current row in the table. The record was placed in a discard file and the LOAD operation continued.

Response: Correct the data and load it again if desired.

RBL682W  Input row number does not pass the ACCEPT/REJECT comparison. Row discarded.

Cause:  The comparison specified in the LOAD statement was evaluated for this input row. The result of the comparison indicated that the row was not to be loaded. The record was placed in a discard file and the LOAD operation continued.

Response: Correct the data and load it again if desired.

RBL683F  Cannot use aggregate operators when not in an AGGREGATE mode.

Cause:  An aggregate mode specific operator was supplied, but the load was not specified as being in one of the two AGGREGATE modes. The LOAD operation terminated.

Response: Correct the LOAD DATA statement.

RBL684F  Cannot use aggregate mode operator on primary key column column_name.

Cause:  An aggregate-mode operator was specified on a primary key column. Primary key columns cannot be updated with an aggregate-mode operator. The LOAD operation terminated.

Response: Correct the LOAD DATA statement.

RBL685F  Cannot use aggregate mode operator on pseudocolumn pseudocolumn_name.

Cause:  An aggregate-mode operator was specified on a pseudocolumn. Aggregate-mode operators cannot be used on pseudocolumns because the value depends on the current value of a real column in the table being loaded. The LOAD operation terminated.

Response: Correct the LOAD DATA statement.
**RBL686F** Cannot use ACCEPT/REJECT clause when not in an AGGREGATE mode.

**Cause:** An ACCEPT/REJECT clause was included in a LOAD DATA statement that did not specify an aggregate mode. The ACCEPT/REJECT clause can be used only in UPDATE AGGREGATE or MODIFY AGGREGATE mode. The LOAD operation terminated.

**Response:** Correct the LOAD DATA statement.

**RBL687F** Cannot use aggregate mode operator on non-numeric column column_name.

**Cause:** An aggregate-mode operator was specified on a column that does not have a numeric datatype. Aggregate-mode operators cannot be used on non-numeric columns.

**Response:** Correct the LOAD DATA statement.

**RBL688F** Column column_name in ACCEPT/REJECT clause is not a valid datatype.

**Cause:** A column that was not a valid datatype was specified in the ACCEPT/REJECT clause. Only columns that have a numeric, CHARACTER, or DATETIME datatype can be used in the ACCEPT/REJECT clause.

**Response:** Correct the LOAD DATA statement.

**RBL689F** Result column column_name of INCREMENT cannot be of CHARACTER datatype.

**Cause:** The INCREMENT operator was used with a result column that has the CHARACTER datatype. The INCREMENT operator is valid only with numeric datatype columns.

**Response:** Correct the LOAD DATA statement.

**RBL690F** Illegal value string in INCREMENT statement.

**Cause:** An illegal value was supplied to the INCREMENT operator.

**Response:** Correct the LOAD DATA statement.
RBS691E Cannot access table table_name because there is a pending ALTER TABLE.

Cause: The user attempted to access a table on which an ALTER TABLE operation was pending.

Response: If possible, complete the pending operation using the ALTER TABLE...RESUME command. Otherwise, complete it using the ALTER TABLE...RESET command.

RBS692E ALTER TABLE not allowed while a table is locked.

Cause: The user submitted an ALTER TABLE statement while that table or referenced tables were locked.

Response: Make sure the table and all tables referenced by it are unlocked before you submit an ALTER TABLE statement.

RBS693E Segment segment_name must be at least number in size for this ALTER TABLE statement.

Cause: The user submitted an ALTER TABLE command, and there was insufficient space in the target segment. The message reports the required number of kilobytes.

Response: If the operation is IN_PLACE, use an ALTER SEGMENT command to expand the segment in which the table data resides to the required size. If IN <segment list> is used, make certain that the segments have at least the required MAXSIZE reported in the message.

RBS694E ALTER TABLE must reference a base table, not a view, a temporary table or model table.

Cause: A view, temporary table, or model table name was supplied in an ALTER TABLE statement.

Response: Correct the statement and submit it again.

RBS695E Dynamic parameter '?' not allowed in select list.

Cause: A PREPARE statement of a SELECT statement found the dynamic parameter marker as a term in the select list.

Response: Correct the error and submit the command again.
RBS696E Dynamic parameter '?' not allowed on both sides of a binary operator.

Cause: A PREPARE statement found dynamic markers on both sides of a binary operator (that is: +, -, *, /, =, <>, !=, <=, >=, <, > ). This is not allowed.

Response: Correct the error and submit the command again.

RBS697E Dynamic parameter '?' not allowed with unary minus operator.

Cause: A PREPARE statement found -? as an expression in the statement.

Response: Correct the error and submit the command again.

RBS698E Dynamic parameter '?' not allowed as both the expression and first value of an IN operation.

Cause: A PREPARE statement found the following repetition: “? IN (?,..)”, which is not allowed.

Response: Move the marker to some other place in the IN list.

RBS699E 'fkey_name' does not identify a foreign key in the table.

Cause: The supplied name was not a foreign key constraint name or the name of the column in a single column foreign key. The ON DELETE action applies only to foreign keys.

Response: Check the name and table definition.

RBS700I Cannot rename column column_name because it is referenced by the following:

Cause: The named column cannot be renamed because it is referenced in at least one view. This informational message is always followed by one or more occurrences of message 673, listing the views that make use of this column.

Response: To rename the column, first drop all views that reference the column, rename the column, and then create the views again.
**RBL702W** Segment 'segment_name' not being backed up due to index 'index_name' under construction.

**Cause:** An index is marked “under construction.” No file in that index segment index can be backed up at this time. The backup operation will continue, but the backup will not contain that index.

**Response:** None necessary.

**RBS703E** Grouping by view columns or column aliases is allowed only if the column does not contain aggregations, reporting functions, or correlated subqueries.

**Cause:** The user attempted to group by a column from a view or by a column alias, and that column was really an aggregation function (for example, SUM, MIN, AVG), a reporting function (for example, CUME, TERTILE), an expression containing an aggregation function, or a correlated subquery. It is legal only to group by columns from a view that are simple columns, or expressions containing references to simple columns, and/or literal values. It is legal to group by a subquery, but only if the subquery does not reference columns from an outer SELECT.

**Response:** Rewrite the query, grouping on a different column.

**RBS705E** Segment `segment_name` was specified twice.

**Cause:** A list of segments needed for the statement had a duplicate entry.

**Response:** Correct the statement and submit it again.

**RBL706E** Insufficient authority to use segment `segment_name` as work segment in an offline load.

**Cause:** To use a segment as a working segment in an offline load, the user running the TMU must be the owner of the segment, have OFFLINE_LOAD authority, or be a member of the DBA system role.

**Response:** Correct the LOAD DATA statement to specify a valid segment or notify the warehouse administrator and request the required authority.
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**RBS707W** The row count number will overflow the precise numeric type.

**Cause:** According to the ANSI SQL specification, the COUNT function must return a precise numeric type with a scale of zero. This precludes using floating point as the return type for the COUNT function. The actual numeric value returned for the COUNT function will be incorrect.

**Response:** Break up the query to count fewer rows and submit the command again, or use the SET COUNT RESULT DECIMAL command to get the result as a DECIMAL(15,0).

**RBS708E** Wrong number of segments specified for alter of table table_name. Need number but number specified.

**Cause:** Either an ALTER TABLE statement specifying a multi-segment table did not specify a list of segments to alter into, or the number of segments in the list was different from the number of segments that comprise the table.

**Response:** Specify the correct number of segments in the ALTER TABLE statement.

**RBL709E** DDLFILE 'file_name' already exists.

**Cause:** User issued an UNLOAD EXTERNAL or UPGRADE DDLFILE and specified an existing file to contain the generated DDL statements.

**Response:** Either delete the existing file or specify a new file to contain the DDL information.

**RBL710E** TMUFILE 'file_name' already exists.

**Cause:** User issued an UNLOAD EXTERNAL command that specified an existing file to contain the generated TMU LOAD DATA command.

**Response:** Either delete the existing file or specify a new file to contain the TMU information for the unloaded table.
RBL711E  Unable to open DDLFILE 'file_name'. Reason: string.

Cause: A TMU UNLOAD EXTERNAL or UPGRADE DDLFILE process was not able to open the file for the DDL information. Possible causes are that the TMU runs as the “redbrick” user and did not have permission to open the file in the specified location or that the specified location has run out of disk space.

Response: Make sure that the specified location has the correct privileges for the “redbrick” user and has enough space.

RBL712E  Unable to open TMUFILE 'file_name'. Reason: string.

Cause: The TMU UNLOAD EXTERNAL processes were not able to open the file for the table’s TMU information. Possible causes are that the TMU runs as the “redbrick” user and did not have permission to write to the file in the specified location or that the specified location has run out of disk space.

Response: Make sure that the specified location has the correct privileges for the “redbrick” user and has enough space.

RBL713E  Unable to write to DDLFILE 'file_name'. Reason: string.

Cause: The TMU UNLOAD EXTERNAL or UPGRADE DDLFILE processes were not able to write the DDL information to the file. Possible causes are that the TMU runs as the “redbrick” user and the “redbrick” user did not have permission to write to the file in the specified location or that the specified location has run out of disk space.

Response: Make sure that the specified location has the correct privileges for the “redbrick” user and has sufficient space.

RBL714E  Unable to write to TMUFILE 'file_name'. Reason: string.

Cause: The TMU UNLOAD EXTERNAL processes was not able to write the table’s TMU information to the file. Possible causes are that the TMU runs as the “redbrick” user and did not have permission to write to the file in the specified location or that the specified location has run out of disk space.

Response: Make sure that the specified location has the correct privileges for the “redbrick” user and has sufficient space.
RBL715I  Terminating processing after receiving signal number number.

Cause:  The TMU received a termination signal such as SIGINT(2), SIGHUP(1), SIGQUIT(3), or SIGTERM(15). SIGINT and SIGQUIT are usually generated by the terminal as the responses to the interrupt and quit characters (usually Control-C and Control-\). SIGHUP is usually the result of a disconnected terminal.

Response:  The TMU will clean up the LOAD operation in progress and then terminate. The TMU will ignore SIGHUP (terminal disconnected during operation) when it is executed with the UNIX nohup command.

RBL716E  No command specified after the pipe character.

Cause:  An output file specification started with the UNIX pipe character, but the pipe character (|) was not followed by a command.

Response:  Correct the statement and submit it again.

RBL717E  Pipe commands not allowed with tape output.

Cause:  An output file specification started with the UNIX pipe character (|), but the TMU command also included the TAPE DEVICE clause, which specified that the output was to go to a tape device.

Response:  To pipe the output through a command to disk, remove the TAPE DEVICE clause. To send the output to a tape device, replace the pipe command with an output filename.

RBL718E  Pipe commands not allowed with DISCARDFILE.

Cause:  A DISCARDFILE specification started with the UNIX pipe character.

Response:  Remove the pipe command from the discard filename.
RBL720F  Scale value number too large for column column_name.

Cause:  A LOAD DATA field specification with a scaled numeric input value specified a scale value that is too large relative to the destination database column.

If the destination database column is unscaled (for example, a FLOAT column), then abs(input_scale) must be less than or equal to 8.

If the destination database column is scaled (for example, NUMERIC(9,3)), then abs(database_scale - input_scale) must be less than or equal to 8.

The LOAD operation terminated.

Response: Correct the LOAD DATA statement.

RBL721F  No database path given.

Cause:  Neither the RB_PATH environment variable nor the -d command line option was set. The TMU could not determine what database to access.

Response: Indicate the database to access by supplying a logical database name through either the RB_PATH environment variable or the -d command line argument.

RBS722E  Alphanumeric literal is not terminated by closing single quote: 'string

Cause:  The command contains a single quote (') beginning an alphanumeric or date literal, but the end of the command was reached without encountering the single quote to terminate the literal.

Response: Correct the error and submit the command again.

RBL723W  Cannot use more than number buffers.

Cause:  A TMU SET TMU BUFFERS statement specified more block cache buffers than the maximum number allowed.

Response: The actual number of block cache buffers used is displayed in a subsequent message. Modify the SET TMU BUFFERS statement to specify a value less than or equal to this maximum value.
**RBL724W**  Cannot reduce the number of buffers to be used.

**Cause:** A TMU SET TMU BUFFERS statement specified a value less than the current number of block cache buffers in use. This message might occur because of an attempt to reduce the number of buffers or to set the number of buffers to a value less than the default of 128.

**Response:** The actual number of block cache buffers used is displayed in a subsequent message. Modify the SET TMU BUFFERS statement to eliminate this error.

**RBL725I**  Using number block cache buffers.

**Cause:** Information message indicating the number of block cache buffers currently being used by the TMU.

**Response:** None necessary.

**RBS726E**  Number of columns must be identical in select expressions of UNION, EXCEPT, and INTERSECT queries.

**Cause:** The select expressions in a UNION, EXCEPT, or INTERSECT query specified a different number of columns.

**Response:** Correct the query and submit it again.

**RBS727E**  Column datatypes must be comparable in UNION, EXCEPT, and INTERSECT queries.

**Cause:** Corresponding columns of select lists in a UNION, EXCEPT, or INTERSECT query must have datatypes that can be compared. For example, it is illegal to specify a character column in one select expression and a floating point column in the corresponding position in another select expression within the same UNION, EXCEPT, or INTERSECT query.

**Response:** Make certain that corresponding columns in each select expression in the UNION, EXCEPT, or INTERSECT query have datatypes that can be compared.
RBS728E  All columns in ORDER BY must be in the select list of the first select expression.

Cause: All ORDER BY columns in a UNION, EXCEPT, or INTERSECT query must be in the select list of the first select expression in the query.

Response: Make certain that all columns named in the ORDER BY clause are named in the first select list or are referenced by ordinal number.

RBS729E  RESET BY not allowed in UNION, EXCEPT, and INTERSECT queries.

Cause: A UNION, EXCEPT, or INTERSECT query contains a RESET BY specification in the ORDER BY clause. RESET BY is not supported with UNION, EXCEPT, or INTERSECT queries.

Response: Remove the RESET BY clause and any dependent display functions from the query.

RBS730E  Constraints like <subquery> IN <constant list> are not allowed.

Cause: A query was entered that contained a constraint of the form <subquery> IN <literal_list>. These constraints are not supported.

Response: Rewrite the query so that such constraints are not necessary.

RBS731E  FILLFACTOR value must be between 1 and 100.

Cause: A CREATE INDEX or ALTER INDEX statement specified an illegal fill factor. Legal fill factors range from 1 to 100, inclusive.

Response: Change the fill factor to a value between 1 and 100, inclusive.

RBS732E  A system generated foreign key constraint name cannot be used in the key specification of a STAR index.

Cause: The key list for the STAR index being created contains a system-generated foreign key constraint name. Only user-defined constraint names can be used in the definition of a STAR index.

Response: Either remove the constraint from the index key or create the table again with a user-defined name for the foreign-key constraint. Use this new name in the CREATE STAR INDEX statement.
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RBS733E  The column name 'column_name' cannot be used in the key of a STAR index because it appears in more than one foreign key.

Cause:  The named column does not uniquely identify a foreign key of the table. It is unclear which foreign key should be used in the STAR index key.

Response: Use the constraint name in the key list to identify which foreign key should be used in the index key.

RBS734E  The column 'column_name' does not identify a foreign key.

Cause:  The user attempted to create a STAR index with a key column that has not been defined as a foreign key.

Response: Either remove the column from the key list specification or create the table again defining the column to be a foreign key.

RBS735E  The column 'column_name' is not a foreign key in table 'table_name'; only foreign key columns can be used in a STAR index.

Cause:  All columns in the key of a STAR index must be defined as foreign keys of the table on which the index is defined.

Response: Either remove the column that is not a foreign key from the specification of the index key or create the table again with the column defined as a foreign key.

RBS736E  The column or foreign key constraint name 'column_name' cannot be specified more than once.

Cause:  The named column or constraint appears in the specification of the index key more than once. Each name in the index key must be unique.

Response: Remove all but one occurrence of the column or constraint name from the key column list.
RBL737W  Data integrity failure, key not found for foreign key constraint 'constraint_name'.

Cause: A key value for the named constraint was not found in the referenced table. The messages that follow indicate the values for each column in the key. The record that has no matching key in the referenced table is placed in the discard file. The LOAD operation continued.

Response: Check the input data or the discard file.

RBL738E  Database identifier is not terminated by closing double quote: 'string'.

Cause: The command contains a double quote (" ) beginning a quoted identifier, but the end of the command was reached without encountering the double quote at the end of the identifier.

Response: Correct the error and submit the command again.

RBL740F  Invalid OPTION setting in rbw.config file: string.

Cause: The rbw.config file contained an invalid setting for an OPTION parameter. Either the option keyword is unknown, or the parameter value does not match the option keyword. The specific cause for the error is stated.

Response: Review and correct the rbw.config file.

RBL741I  Automatic Row Generation is ON.

Cause: Indicates that the Automatic Row Generation feature is enabled for the current LOAD DATA operation. The TMU will attempt to respond to referential integrity failures by automatically generating rows in referenced tables rather than by discarding input rows.

Response: Review automatically-generated rows upon completion of the LOAD DATA operation.
RBL742I  Automatically-generated row inserted into table *table_name* with primary key value *string*.

**Cause:** Indicates that the Automatic Row Generation feature inserted a row into the indicated table in order to satisfy referential integrity. The primary key value of the inserted row is shown, which matches the foreign key value that caused the row to be inserted.

**Response:** After the LOAD operation completes, review all automatically-generated rows and issue appropriate UPDATE statements to fill out non-key values in the generated rows.

RBL743W  Unable to insert generated row into table *table_name* because INSERT privilege is not granted.

**Cause:** Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated table in order to satisfy referential integrity, but the database user running the TMU did not have INSERT privilege on the target table.

**Response:** The referencing row is discarded; it is written to the discard file if one was specified for the LOAD DATA operation. Check the input data or the discard file.

RBL744W  Unable to insert generated row into table *table_name* because column *column_name* requires NOT NULL but default value is NULL.

**Cause:** Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated table in order to satisfy referential integrity, but the default value for a column specified to be NOT NULL is NULL. This default of NULL could be caused by an explicit DEFAULT NULL specification for the column on the CREATE TABLE statement, or because there is no default value set for the column at all.

**Response:** The referencing row is discarded; it is written to the discard file if one was specified for the LOAD DATA operation. Check the input data or the discard file.

RBS745E  Operations using the system segment are not allowed.

**Cause:** The segment that contains the system files was specified in a DROP SEGMENT or ALTER SEGMENT command. This segment cannot be used in these operations.

**Response:** None necessary.
RBS746E Segment segment_name cannot be dropped because it is still attached to a table or index.

Cause: A segment cannot be dropped while it is attached to a table or index.

Response: Use the ALTER SEGMENT command to detach the segment from the table or index.

RBS747E MAXSIZE size for storage path_name is outside the valid range of min_value to max_value.

Cause: A CREATE SEGMENT command contained an invalid MAXSIZE for one of the storage specifications.

Response: Correct the error and submit the command again.

RBS748E INITSIZE size for storage path_name is greater than MAXSIZE maxsize.

Cause: A CREATE SEGMENT command contained an invalid INITSIZE for one of the storage specifications. The initial size of a PSU cannot be larger than the maximum size.

Response: Correct the error and submit the command again.

RBS749E EXTENDSIZE size for storage path_name is greater than max_valid_size.

Cause: A CREATE SEGMENT command contained an invalid EXTENDSIZE for one of the storage specifications.

Response: Correct the error and submit the command again.

RBS750E System table RBW_TABLESPACES is obsolete. Use RBW_SEGMENTS and RBW_STORAGE instead.

Cause: Tablespaces have been replaced by segments. New system tables contain the same sort of information that previously resided in RBW_TABLESPACES.

Response: Correct the error and submit the command again.
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RBS751E  EXTENDSIZE extend_size is invalid with maximum size max_size and initial size init_size.

Cause: A CREATE SEGMENT or ALTER SEGMENT ADD STORAGE command specified an extend size that is not consistent with the other size values. This could be caused by specifying an extend size of zero when the initial size is less than the maximum size, or by specifying an extend size greater than zero when the initial size is equal to the maximum size.

Response: Correct the error and submit the command again.

RBS752W  The statement might return incorrect results because segment segment_name is offline.

Cause: A segment needed by the statement was offline, and the SET PARTIAL AVAILABILITY command was used to force the statement to ignore the missing data.

Response: Make sure that all of the segments of a table or index are online or use the SET PARTIAL AVAILABILITY command to force the statement to fail as necessary.

RBS753I  The statement might return incorrect results because segment segment_name is offline.

Cause: A segment needed by the statement was offline, and the SET PARTIAL AVAILABILITY command was used to force the state to ignore the missing data.

Response: Make sure that all of the segments of a table or index are online, or use the SET PARTIAL AVAILABILITY command to force the statement to fail as necessary.

RBS754E  'key_name' is neither a foreign key constraint nor a column in the table 'table_name'.

Cause: A name specified in the key list of a CREATE STAR INDEX statement must identify either a foreign key constraint or a column in the table.

Response: Remove the name from the key list specification or correct any misspelled names.
RBS755E  Tablesaces have been replaced with segments.
Cause:   Tablespace operations are no longer valid. All tablespace functionality has been superseded by segments.
Response: Change the statement to use segments.

RBL756E  The FORCE option is valid only during RESTORE of a segment.
Cause:   The FORCE option on RESTORE is used when restoring a single segment. The current command did not specify any segments when it tried to use the FORCE option.
Response: Correct the error and submit it again.

RBS757E  Column 'column_name' cannot be declared DEFAULT USER because it is not wide enough.
Cause:   DEFAULT USER was specified for a CHARACTER column with a length less than 128 bytes.
Response: Either define the CHARACTER column to be 128 bytes or greater, or choose a different DEFAULT value.

RBS758E  DEFAULT or RANGE 'default_value' is too wide for column 'column_name'.
Cause:   A string literal was supplied with the DEFAULT or RANGES clause that was wider than the target column.
Response: Either declare the column to be wider, or shorten the supplied string literal.

RBS759E  DEFAULT or RANGE for numeric column 'column_name' is not itself numeric.
Cause:   A non-numeric DEFAULT or RANGE value was declared for a numeric column.
Response: Ensure that the supplied value is type-compatible with the column.

RBS760E  DEFAULT or RANGE for TIME column 'column_name' is of DATE type.
Cause:   A DATE type DEFAULT or RANGE value was declared for a TIME column.
Response: Ensure that the supplied value is type-compatible with the column.
**RBS761E**  
DEFAULT or RANGE for DATE column 'column_name' is of TIME type.  

**Cause:** A TIME type DEFAULT or RANGE value was declared for a DATE column.  

**Response:** Ensure that the supplied value is type-compatible with the column.  

**RBS762E**  
DEFAULT or RANGE for CHARACTER column 'column_name' is not type-compatible.  

**Cause:** A non-character DEFAULT or RANGE was declared for a character column.  

**Response:** Ensure that the supplied value is type-compatible with the column.  

**RBS763E**  
DEFAULT or RANGE for DATE, TIME, or TIMESTAMP column 'column_name' is not type-compatible.  

**Cause:** A numeric DEFAULT or RANGE value was declared for a DATE, TIME, or TIMESTAMP column.  

**Response:** Ensure that the supplied value is type-compatible with the column.  

**RBS764E**  
ALTER TABLE ... SET/DROP DEFAULT only legal for base tables.  

**Cause:** ALTER TABLE...SET/DROP DEFAULT was issued where the target table was a synonym, a view, a temporary table or a model table. Only base tables can be altered.  

**RBL765E**  
Segment segment_name has changed since the last backup. The FORCE option is required.  

**Cause:** Restoring a single segment will cause data to be lost if that segment has been changed since the last backup. In this situation, the RESTORE operation requires the FORCE option.  

**Response:** Consider carefully whether you want to use the FORCE operation. If you have questions, contact the Red Brick Customer Support Center.  

**RBL766I**  
Restoring PSU 'path_name' of segment segment_name.  

**Cause:** A restore of a single segment found a PSU for that segment in the backup.  

**Response:** None required.
RBS767E  Segment segment_name is not attached to table table_name.

Cause: The segment being altered was not attached to the table specified in the OF TABLE clause of the ALTER SEGMENT statement.

Response: Correct the error and submit the command again.

RBS768E  Segment segment_name is not attached to index index_name.

Cause: The segment being altered was not attached to the index specified in the OF INDEX clause of the ALTER SEGMENT statement.

Response: Correct the error and submit the command again.

RBS769E  Segment segment_name is not attached to a table or index.

Cause: The OF TABLE or OF INDEX clause was specified in an ALTER SEGMENT statement for a segment that is not attached to a table or index.

Response: Remove the OF TABLE or OF INDEX clause and submit the command again.

RBS770E  Segment segment_name requires the OF TABLE or OF INDEX clause.

Cause: The OF TABLE or OF INDEX clause was not specified in ALTER SEGMENT statement for a segment that is attached to a table or index.

Response: Add the appropriate OF TABLE or OF INDEX clause and submit the command again.

RBS771E  ALTER SEGMENT alter_option requires segment segment_name to be offline.

Cause: An attempt was made to alter an online segment in a way valid only for offline segments.

Response: Take the segment offline and submit the command again.
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RBS772E Insufficient authority to ALTER SEGMENT.

Cause: The user who issued the ALTER SEGMENT statement did not have the required authority. To alter a segment, a user must have ALTER_ANY authorization, be a member of the DBA system role, or own all of the objects needed by the statement and have ALTER_OWN authorization. For example, a user that is a member of the RESOURCE system role can create a segment but cannot attach it to a table owned by another user.

Response: Notify the warehouse administrator and request the required authority.

RBS773E Segment segment_name cannot have number physical storage units. The maximum allowed is maximum_allowed.

Cause: A CREATE SEGMENT or ALTER SEGMENT statement specified more physical storage units (PSUs) than the maximum number allowed for a segment.

Response: Correct the statement to not exceed the maximum number and submit it again.

RBL774W Unable to insert generated row into table table_name because the table does not have a MAXROWS PER SEGMENT value set.

Cause: Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated referenced table in order to satisfy referential integrity. However, it could not complete the operation because that table does not have an explicit MAXROWS PER SEGMENT value set. The Automatic Row Generation feature requires that all referenced tables into which generated rows are to be inserted have a specified MAXROWS PER SEGMENT value. The referencing row was discarded and the load operation continued.

Response: Use ALTER TABLE to set a MAXROWS PER SEGMENT value for the indicated table. Check the discard file for the discarded row.
RBL775W Unable to insert generated row into table table_name because the table's MAXROWS PER SEGMENT value would be exceeded.

Causes: Indicates that the Automatic Row Generation feature attempted to generate and insert a row into the indicated referenced table in order to satisfy referential integrity. However, it could not complete the operation because inserting another row would exceed the referenced table's MAXROWS PER SEGMENT value. The referencing row was discarded and the LOAD operation continued.

Response: Use ALTER TABLE to set a MAXROWS PER SEGMENT value for the referenced table. Check the discard file for the discarded row.

RBS776E Row data segmentation scheme is either missing or invalid.

Causes: A CREATE TABLE statement specified more than one row data segment but did not specify a valid segmentation scheme. Valid segmentation schemes are BY HASH or BY VALUES.

Response: Either supply only one segment name or supply a valid segmentation scheme.

RBS777E A segment specification with only one segment must contain the values MIN:MAX.

Causes: Only one segment name was specified and it did not have MIN:MAX as the segment range.

Response: Correct the statement by specifying by supplying multiple segment names, removing the segment specification, or correcting the segment specification.

RBS778E Cannot use SEGMENT LIKE DATA in the DATA IN clause.

Causes: The SEGMENT LIKE DATA segment specification was supplied in the DATA IN clause. This combination is illegal.

Response: Supply a different segment specification for the DATA IN clause.

RBS779E RANGES list must end with keyword 'MAX'.

Causes: A segment range specification did not end with MAX.

Response: Correct the segment range specification.
RBS780E  Segment segment_name has 'MIN' or 'MAX' in the middle of RANGES list.

Cause: Either MIN or MAX was supplied in the wrong location of a segment range specification.

Response: Correct the segment range specification.

RBS781E  RANGES list must begin with keyword 'MIN'.

Cause: A segment range specification did not begin with MIN.

Response: Correct the RANGES list in the segment specification.

RBS782E  Values in RANGES list around segment segment_name cannot contain gaps or overlaps.

Cause: The “begin” value for a range value was not equal to the “end” value of the previous range.

Response: Correct the segment range specification.

RBS783E  Number of RANGES must equal the number of segments.

Cause: The number of ranges in a segment range specification does not equal the number of segment names supplied.

Response: Ensure that there are the same number of segment names and ranges.

RBS785E  Cannot use SEGMENT LIKE DATA if DATA IN clause does not have SEGMENT BY VALUES.

Cause: The SEGMENT LIKE DATA segment specification was supplied, but the data is not being segmented by values. This combination is illegal.

Response: Correct the statement and submit it again.

RBS786E  Number of segments must be equal when SEGMENT LIKE DATA is specified.

Cause: The number of segment names supplied in conjunction with SEGMENT LIKE DATA must equal the number of segment names supplied in the DATA IN clause.

Response: Ensure that the number of segment names specified for the index is equal to the number specified for data.
RBS787E  Cannot use SEGMENT LIKE DATA when data is not segmented by first column of the index.

**Cause:** The SEGMENT LIKE DATA segment specification was supplied for an index, but the column specified in the DATA IN clause is not the first column of the index.

**Response:** Either choose a different segment specification for the index or specify the first column of the index.

RBS788E  Segmenting column column_name must be the first column or foreign key constraint of the index key.

**Cause:** If segmenting a B-TREE index, the segmenting column specified does not identify the first column of the index key. If segmenting a STAR index where the first referenced table has a multi-column primary key, the segmenting column does not name the first foreign key constraint of the index key. If segmenting a STAR index where the first referenced table has a single column primary key, the segmenting column does not name the first column in the key nor does it name the first foreign key constraint.

**Response:** Ensure that the column specified is the first column or foreign key constraint of the index.

RBS789E  Range values for segment segment_name must be increasing.

**Cause:** A range was supplied where the lower value for the range was not less than the upper value for the range.

**Response:** Correct the range and submit the statement again.

RBS790E  The number of segments named in the DATA IN clause exceeds the MAXSEGMENTS value.

**Cause:** If all the segments named in the DATA IN clause were used for the table, the MAXSEGMENTS value would be exceeded. The number of data segments used by a table cannot exceed the MAXSEGMENTS value.

**Response:** Change the CREATE TABLE statement to make the DATA IN clause and the MAXSEGMENTS clause consistent and submit the statement again.
RBS791S Used STARindex index_name on table table_name at query level number.

Cause: This message identifies a STAR index selected for the designated query or subquery. A selected index is not always used to perform the query if some other access method, such as a relation scan, is later determined to be a better choice. The specified index will be the one used when a STAR index is needed.

RBS792E Column alias as_name is already used.

Cause: A select list contains multiple column aliases using the same name.

Response: Correct the statement and submit it again.

RBS793E Column alias as_name cannot be used prior to its definition.

Cause: A reference to a column alias was used before its definition. The column aliases are processed from left to right in the select list. This could be caused by using a column alias that has the same name as a table column. For example,

```
select substr(name,1,20) as name from rbw_tables
```

will generate this error because the alias “NAME” is used inside of its own definition. The correct way to write this statement is to use the table name to qualify the column reference:

```
select substr(rbw_tables.name,1,20) as name from rbw_tables
```

Response: Correct the statement and submit it again.
RBS794E  No valid STAR index(es) on referenced table(s) are available to perform the query.

Cause: No STAR index or set of STAR indexes relates all of the referenced tables in a valid manner. A STAR index or set of STAR indexes might be invalid for a query for any of the following reasons:

(1) One or more of its segments is offline and the index has not been enabled for use in this case.

(2) The STAR index or indexes do not contain a key column for each foreign key referenced in the select list or WHERE clause. This includes foreign keys that are referenced indirectly through implicit joins.

(3) If the query must use two or more STAR indexes, the STAR indexes must define their index key columns in the same order.

Response: For (1): Put the index segments back online. For (2) or (3): Create one or more new STAR indexes with the necessary key columns in the required order.

RBS795E  Invalid dynamic parameters in DECODE.

Cause: A PREPARE statement contained a DECODE function, and the second or third argument was a dynamic parameter.

Response: Alter the function so that the second parameter is not a dynamic parameter.

RBS796E  Index index_name is not defined on table table_name.

Cause: An index with the specified name is defined in the database, but it does not belong to the table specified.

Response: Correct the statement and submit it again.

RBS797E  The index specified must be a STAR index.

Cause: The index name specified in the statement is a primary key index. Only STAR indexes can be specified in this statement.

Response: Correct the statement and submit it again.
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**RBL798W** Segment `segment_name` is marked as damaged and will not be backed up.

**Cause:** If a segment is marked as “damaged,” it will not be included in a backup.

**Response:** Correct the damage to the segment and bring it online.

**RBS799F** An abnormal process abort has left an internal data structure in an inconsistent state.

**Cause:** In rare instances, the abnormal termination of a warehouse server process can cause a memory-resident data structure shared across all warehouse server processes to be left in an inconsistent state. Such a termination can be the result of either an internal warehouse server error (in which case the client associated with that warehouse server should have received an error message prior to this condition being reported) or by explicit intervention using the “kill” (or similar) command to terminate a warehouse server process.

**Response:** Stop the warehouse daemon and restart it. If this error was reported in the absence of a recent warehouse server process error and in the absence of explicit intervention forcing termination of a warehouse server process, notify the warehouse administrator and the Red Brick Customer Support Center.

**RBR801F** Usage: `program_name [-q] [-s <dsn>] [-h <host>] [-d <database>] [<username> [<password>]]`

**Cause:** Invalid RISQL Entry Tool or RISQL Reporter command line syntax was supplied.

**Response:** Submit the command again with valid command-line options.

**RBR802F** Not licensed for 'option'.

**Cause:** The specified functionality is not licensed.

**Response:** The specified functionality cannot be used unless it is separately licensed at your site. If you have a license for the function, verify that the correct license key has been entered in the `rbw.config` file.
RBR803F  RB_CONFIG must be defined.

Cause: The RB_CONFIG environment variable must be set to a valid pathname containing an rbw.config file before the risql or risqlrpt command can be executed.

Response: Set the RB_CONFIG environment variable and enter the command again.

RBR804F  Fatal error initializing warehouse server connection: string.

Cause: The RISQL Entry Tool was unable to establish a connection to a warehouse server. The most common cause of this problem is that the RB_HOST environment variable does not reference an active warehouse daemon. The daemon is typically started by the system administrator.

Response: Consult your system administrator to ensure you have permission to connect to a warehouse server.

RBR805F  Fatal error executing command 'string'.

Cause: This severe system error does not occur unless the RISQL Entry Tool encounters an unusual situation such as a program error.


RBR806E  Statement exceeds maximum length of num_bytes bytes.

Cause: The current maximum length of an SQL statement that can be executed by the RISQL Entry Tool is 64,000 bytes.

Response: Reduce the length of the SQL statement. All characters including blanks and comments are counted when this limit is calculated.

RBR807E  EDITOR must be defined to execute EDIT command.

Cause: This error will occur only if the default EDITOR command has been removed. This error should not occur because there is no user-defined way to turn off the default EDITOR command.

Response: If this error occurs, notify the Red Brick Customer Support Center.
**RBR808F**  Unable to connect to warehouse server string.

**Cause:** The RISQL Entry Tool was unable to establish a connection to a warehouse server. The most common cause of this problem is that the RB_HOST environment variable does not reference an active warehouse daemon. The daemon is typically started by the system administrator.

**Response:** Consult your system administrator to ensure you have permission to connect to a warehouse server.

**RBR809E**  Error opening file 'file_name': os_error.

**Cause:** The RISQL Entry Tool could not open the specified file when executing an EDIT, RUN, or SET OUTPUT command. This message occurs when the file is not found or when the permissions needed to read or write the file are incorrect. The message that follows this message explains why the error occurred.

**Response:** If you are reading the file (EDIT or RUN), make sure that it exists and that you have read permission. If you are writing to the file (SET OUTPUT), make sure that you have write permission.

**RBR810E**  Requested page length number is invalid.

**Cause:** Either the desired page length value was out of range (less than 0 or greater than 999,999,999) or it contained non-numeric characters.

**Response:** Change the page length to a valid value and submit the command again.

**RBS811E**  Segmenting a STAR index LIKE REFERENCED TABLE is allowed only if the data has the same number of segments as the index.

**Cause:** A CREATE STAR INDEX statement contained a SEGMENT LIKE REFERENCED TABLE clause, but the data in the table referenced by the leading foreign key does not have the same number of segments as were specified for the index.

**Response:** Change the number of segments assigned to the index to match the number of segments in the referenced table, or use the SEGMENT BY REFERENCES OF specification to define the index segmentation.
RBR812F  Fatal error exiting from RISQL Entry Tool.

Cause:  Attempts to shut down the connection to the warehouse server failed. This message typically follows a severe failure in the server caused by problems that are indicated in error messages posted by the server. If you receive this message, the only problem that might occur is that a warehouse server process might be left in an orphaned state.

Response:  Consult your system administrator, who can use the rbw.show command to verify that all servers are operating properly.

RBS813E  The column name 'column_name' identifies more than one foreign key in the table.

Cause:  The named column does not uniquely identify a foreign key of the table. It is unclear which foreign key should be changed by the ALTER TABLE...ALTER COLUMN statement.

Response:  Use the constraint name in the ALTER TABLE...ALTER COLUMN statement to identify which foreign key to change.

RBR814I  No database connection has been established.

Response:  Use the CONNECT command to establish a connection.

RBR815E  No valid database path has been given.

RBR816E  No valid user name has been given.

RBR817E  No valid password has been given.

RBR818I  Request canceled.

Cause:  The request was canceled due to user intervention, normally using the Control-C interrupt. No additional output will be returned from the warehouse server.

Response:  None necessary.

RBR819E  Parameter error: 'string'.

Cause:  The parameter has an invalid value for use with the requested RISQL Entry Tool or RISQL Reporter command.

Response:  Refer to the RISQL Entry Tool and RISQL Reporter User’s Guide for valid parameter values for various commands.
RBR820E  Scale 'value' is not numeric or out of range (0-99).

   Cause:   The requested decimal scale must be a numeric value from 0 to 99.
   Response: Modify the command to use a valid scale value and submit it again.

RBS821E  Rows per task parameters must be between value and value.

   Cause:   The value provided to the SET ROWS_PER_<tasktype>_TASK was not in the specified range.
   Response: Modify the command to use a value within the range specified in the error message.

RBS822I  Foreign key fkey_name (id number)

   Cause:   This message is always preceded by message number 672. Refer to that message for more information. It is followed by another message 673, 676, 674, or 822.

RBS823E  Table 'table_name' referenced by foreign key 'fkey_name' does not have a MAXROWS PER SEGMENT value.

   Cause:   A STAR index cannot be created because the table identified in the message does not have a MAXROWS PER SEGMENT value. All tables referenced by the foreign keys in the index key must have a MAXROWS PER SEGMENT value defined. If a referenced table is a synonym then the base table of the synonym must have a MAXROWS PER SEGMENT value defined.
   Response: Use an ALTER TABLE...CHANGE MAXROWS PER SEGMENT statement to define a MAXROWS PER SEGMENT value for each table referenced by a foreign key in the STAR index.

RBR824F  Could not find SERVER entry in rbw.config file for RB_HOST:'rbhost'

   Cause:   Could not find the SERVER entry in rbw.config file for <RB_HOST>
   Response: Add a SERVER entry to the rbw.config file if necessary and and enter the command again
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RBL841E Unable to allocate number bytes of shared memory.

Cause: A request to allocate shared memory was refused by the operating system.

Response: Notify the warehouse administrator. Refer to the Red Brick Installation and Configuration Guide. Adjust the system environment to meet the requirements.

RBL842W Table table_name requires re-organization due to prior error in offline load.

Cause: The preceding offline LOAD operation was not able to save enough information for the SYCH operation to complete the index-building phase. The loaded data has been preserved and the table’s indexes are marked invalid.

Response: After the synchronization of the segment is complete, bring the segment online, and perform a REORG operation on the table to complete the offline load.

RBL843E Unable to undo offline load because it did not complete successfully.

Cause: The preceding offline LOAD operation was not able to save enough information for a SYNCH...UNDO LOAD operation to succeed.

Response: Perform a normal SYNCH operation to synchronize the offline segment with the table, bring the segment online, and perform a REORG operation on the table. Alternatively, clear the segment to remove all rows from it, bring it online, and then perform a REORG operation on the table.

RBL844W Table table_name will need to be reorganized due to out of space error during offline load.

Cause: The LOAD operation into an offline segment exceeded the available disk space (either by exceeding INDEX_TEMPSPACE MAXSPILLSIZE or by using up all available disk space in the set of INDEX_TEMPSPACE DIRECTORIES).

Response: After synchronizing the segment and bringing it online, perform a REORG operation on the affected table.
**Informational, Warning, and Error Messages**

*RBL845I*  
**Synchronize segment discarded number rows because of duplicate keys.**

**Cause:** Reports the number of input records that were discarded because of duplicate key values during a TMU SYNCH operation.

**Response:** Review the SYNCH discard file for rejected records.

*RBL846I*  
**Optimized index building discarded number rows because of duplicate keys.**

**Cause:** Reports the number of input records that were discarded because of duplicate key values during the merge phase of an optimized-index-building operation. Unlike other index-building modes in which the TMU issues a separate message for each input record discarded because of duplicate keys, in optimized-index-building mode, the TMU only reports the total number of duplicate records discarded during the final phase of index building. The TMU also reports a summary total of all discarded duplicate records.

**Response:** Review the TMU discard files for rejected records.

*RBA847F*  
**Invalid setting in rbw.config file: string.**

**Cause:** The *rbw.config* file contained an invalid setting. Possible causes are that the keyword was unknown, the parameter value did not match the keyword, or extraneous data was found. The specific cause for the error is stated.

**Response:** Review and correct the *rbw.config* file.

*RBS848F*  
**Operating system error setting or releasing lock on 'file_name': error_text.**

**Cause:** The operating system returned an error when Red Brick Warehouse attempted to set a lock on the global lock file.

**Response:** The indicated error might be the result of a problem with the configuration of the platform on which Red Brick Warehouse is executing. If so, fix the problem and start the warehouse daemon again. If unable to determine the problem, contact the Red Brick Customer Support Center for assistance.
RBS849F  Error processing lock file 'file_name': error_text.

Cause:    The global lock file could not be accessed.

Response: Check the file permissions on the file and check the owner and 
setuid bit on the Red Brick Warehouse server executable file 
(rbwsvr). The owner of the Red Brick Warehouse server executable 
file must be able to create, remove, read, and write the specified 
global lock file.

RBL850I  Segment segment_name is offline.

Cause:    A segment referenced by a TMU operation is offline.

Response: Information only. The TMU operation continues as defined for 
operations on offline segments.

RBS851E  Cannot detach the last segment segment_name from a table or 
index.

Cause:    If a table or index has only one segment, that segment cannot be 
detached.

Response: None necessary.

RBS852E  The RANGE value range_val is not the correct data type.

Cause:    A segment name or a segment name followed by a row number was 
supplied as a value in a RANGE clause of an ALTER SEGMENT 
statement. RANGE values can contain segment names only if the 
segment belongs to a STAR index. Tables and other indexes are 
segmented by actual values of the segmenting column.

Response: Correct the statement and submit it again.

RBS853E  Cannot change range because minimum value of segment 
segment_name would overlay next lower segment segment_name.

Cause:    An attempt to change the segment range would have completely 
overlaid the next lower segment. For example, assume the segments 
A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new lower 
boundary for B must be greater than MIN. A new lower boundary 
for C must be greater than 100.

Response: Correct the range of the segment to be changed so that it does not 
completely overlay its neighboring segments.
**RBS854E** Segment `segment_name` must keep a minimum value of MIN because it is the first segment.

**Cause:** The segment to be changed is the first segment and must keep a minimum value of MIN.

**Response:** Correct the range of the segment to keep MIN as the lower boundary.

**RBS855E** Cannot change range because maximum value of segment `segment_name` would overlay next higher segment `segment_name`.

**Cause:** An attempt to change the segmentation range would have completely overlaid the next higher segment. For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new high boundary for A must be less than 200. A new high boundary for B must be less than MAX.

**Response:** Correct the range of the segment to be changed so that it does not completely overlay its neighboring segments.

**RBS856E** Segment `segment_name` must keep a maximum value of MAX because it is the last segment.

**Cause:** The segment to be changed is the last segment and must keep a maximum value of MAX.

**Response:** Correct the range of the segment to keep MAX as the upper boundary.

**RBA857W** Segment `segment_name` has an inconsistent block count.

**Expected:** `count` **Actual:** `count`.

**Cause:** An attempt to access the segment failed because the segment block count information did not match the sizes of the segment files.

**Response:** Contact the Red Brick Customer Support Center for further information.
RBS858E  Attach segment segment_name requires a range that matches one existing boundary.

Cause:  The range for the segment to be attached does not match an existing boundary. For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new segment to be attached must have one boundary with a value of MIN, 100, 200, or MAX.

Response: Correct the range and submit the command again.

RBS859E  The attach or change range would require movement of data from segment segment_name.

Cause:  The ranges of an ALTER SEGMENT command required data to move from one segment to another. Changing the range of a segment, either by attaching a segment or by using the CHANGE RANGE command, cannot move data from one segment to another.

For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. Also assume that there is data with value 50 in segment A. Changing the range of segment A to MIN:10 is not allowed because this would move the data value 50 from segment A into segment B.

Response: Correct the error and submit the command again.

RBS860E  Segment segment_name cannot be attached, detached, or have its range changed because table table_name is not segmented by column values.

Cause:  If a table is not segmented by column values, then it is not possible to attach a new segment, detach an existing segment, or change the range of an existing segment.

Response: Drop the table and create it again, specifying SEGMENT BY VALUES of a column.

RBS861E  Segmenting column column_name must be defined as NOT NULL.

Cause:  A CREATE TABLE statement specified a column that allows null values as a segmenting column.

Response: Either specify a column that is defined as NOT NULL to be the segmenting column, or change the definition of the original column to be NOT NULL.
**RBL862W**  Input row *number* is out of the range for the offline segment.

**Cause:**  During a TMU LOAD operation into an offline segment, an input row was encountered that did not meet the range criteria for the offline segment. The row was discarded and the LOAD operation continued.

**Response:**  Check the input data or the discard file.

**RBS863E**  Segment *segment_name* cannot be cleared because it does not contain table row data.

**Cause:**  An ALTER SEGMENT CLEAR statement specified a segment that contains index data.

**Response:**  The statement is not processed.

**RBS864E**  Segment *segment_name* cannot be cleared because it is the only row data segment of a table.

**Cause:**  An ALTER SEGMENT CLEAR statement specified the row data segment of a table that has only one row data segment. The statement is not processed.

**Response:**  For single-segment tables, use a DELETE FROM statement to remove all the rows in table.

**RBS865I**  Segment *segment_name* CLEAR operation complete. The segment is now empty.

**Cause:**  An ALTER SEGMENT CLEAR statement has completed successfully.

**Response:**  None necessary.

**RBL866I**  Offline segment *segment_name* is unchanged and work segment *segment_name* released.

**Cause:**  A LOAD operation into an offline segment failed before any new rows were loaded into the segment. All changes to the segment have been undone and the work segment has been marked “free.”

**Response:**  None necessary.
RBL867I  Offline load mode is REPLACE; segment segment_name must be cleared.

Cause:  A LOAD operation into an offline segment in REPLACE mode failed after the existing rows were removed from the segment. The segment contents are not in agreement with the table’s indexes.

Response:  Use an ALTER SEGMENT CLEAR command on the segment to update the table’s indexes; then either repeat the LOAD operation into the segment or bring the empty segment online.

RBL868I  Cleaning up after failed load into offline segment.

Cause:  A LOAD operation into an offline segment failed before it finished. Additional messages describe the resulting state of the offline segment.

RBL869I  Segment segment_name updated by offline load. Work segment segment_name is in use until offline segment has been synchronized with table or cleared.

Cause:  A LOAD operation into an offline segment has finished.

Response:  To complete the offline LOAD operation, use the TMU SYNCH command to synchronize the segment with its table’s indexes and then bring the segment online.

RBL870I  Segment segment_name synchronized with table table_name.

Cause:  Synchronization of the offline segment has finished.

Response:  To make the data in the segment available, bring the segment online.

RBL871W  Failed to synchronize segment segment_name. No changes made.

Cause:  Synchronization of an offline segment failed, but the error occurred before any changes were made to the segment.

Response:  Look for an additional message that describes the cause of the error. Correct the problem and perform the SYNCH operation again.
RBL872I Failed to synchronize segment segment_name.
Synchronization partially executed.

Cause: Synchronization of an offline segment failed after some changes were made to the segment or to indexes of the table.

Response: Look for an additional message that describes the cause of the error. It is probably not possible to run the SYNCH operation again. The segment can be returned to a synchronized, empty state using the ALTER SEGMENT CLEAR command. One recovery approach that preserves the data in the segment is to unload the data in the segment, clear the segment, and then repeat the offline load and synchronization operations on the segment, using the unloaded data.

RBL873E Cannot load into segment segment_name until it has been synchronized or cleared.

Cause: The offline LOAD operation specified a segment that had not been synchronized after a previous offline LOAD operation.

Response: To complete the previous offline LOAD operation, run the TMU SYNCH operation to synchronize the segment with its table’s indexes, and then proceed with the offline LOAD operation. Alternatively, use the ALTER SEGMENT CLEAR command to clear the offline segment.

RBL874E Cannot undo an offline load in REPLACE mode. Use ALTER SEGMENT to clear the segment.

Cause: A SYNCH UNDO LOAD command to undo an offline LOAD operation was specified for a LOAD operation done in REPLACE mode. The existing rows in the segment have already been deleted so the LOAD operation cannot be undone.

Response: If you do not want to include the loaded data in the table, use the ALTER SEGMENT command to clear the offline segment and then bring the segment online.
RBS875I  Segment verification error: file 'file_name' (file number file_number of segment segment_name) does not exist.

Cause:  Verification of the segment failed because the indicated file could not be found.

Response:  The segment is marked “not intact.” If the verification is done as part of another operation—for example, setting the segment online—that operation did not complete.

RBS876I  Segment verification error: Operating system denied access to file 'file_name' (file number file_number of segment segment_name).

Cause:  Verification of the segment failed because the indicated file could not be accessed.

Response:  The segment is marked “not intact.” If the verification is done as part of another operation—for example, setting the segment online—that operation did not complete.

RBS877I  Segment verification error: Operating system error (os_error_number) opening file 'file_name' (file number file_number of segment segment_name).

Cause:  Verification of the segment failed because the indicated file could not be opened.

Response:  The segment is marked “not intact.” If the verification is done as part of another operation—for example, setting the segment online—that operation did not complete.

RBS878I  Segment verification error: file 'file_name' (file number file_number of segment segment_name) is smaller than expected. Expected at least file_size bytes.

Cause:  Verification of the segment failed because the indicated file was smaller than expected, based on its current use.

Response:  The segment is marked “not intact.” If the verification is done as part of another operation—for example, setting the segment online—that operation did not complete.
**RBS879I**  Segment verification error: Operating system reading bytes starting_byte-ending_byte of file 'file_name' (file number file_number of segment segment_name).

**Cause:** The operating system returned the reported error code when the indicated region of the file was read.

**Response:** The segment is marked “not intact.” If the verification is done as part of another operation—for example, setting the segment online—that operation did not complete.

**RBS880I**  Segment verification error: I/O error reading bytes starting_byte-ending_byte of file 'file_name' (file number file_number of segment segment_name).

**Cause:** The operating system reported an I/O error when the indicated region of the file was read.

**Response:** The segment is marked “not intact.” If the verification is done as part of another operation—for example, setting the segment online—that operation did not complete.

**RBS881I**  Segment segment_name is marked as damaged. Verifying that the damage has been repaired.

**Cause:** ALTER SEGMENT VERIFY or ALTER SEGMENT ONLINE was requested for a segment that had been previously determined to be damaged. The integrity of the segment is checked.

**Response:** If the segment is found to be complete and accessible, it will be marked “intact.” If a problem is found, another message that describes the specific error is issued.

**RBS882I**  All components of segment segment_name are present and intact.

**Cause:** A physical check of the PSUs composing the segment found that all PSUs were available and that each block was readable.

**Response:** The segment is marked “intact.”
Verification of segment segment_name could not be completed due to lack of system resources.

Cause: Possible causes are that there was not enough memory to complete the segment check or that an operating system limitation (such as the system file table limit or process open file limit) prevented completion of the segment check.

Response: The segment remains offline and is not marked “intact.”

Verification of segment segment_name failed.

Cause: A physical check of the PSUs composing the segment found that one or more PSUs was still inaccessible or inconsistent.

Response: The segment is marked “not intact.”

A segment list and an index name cannot both be specified for UNLOAD of table table_name.

Cause: An UNLOAD statement specified both an index name to use for ordering and one or more named segments. An index name can be specified only when an entire table is unloaded. An UNLOAD operation on a segment always performs a relation scan.

Response: Correct the UNLOAD statement to specify either an index name or a segment list, but not both.

Cannot complete operation for table table_name because index index_name does not exist.

Cause: A TMU statement specified an index name to use for ordering or reorganization, but no index by that name exists in the current database.

Response: Correct the TMU statement to specify either a valid index name or no index name.

Index index_name is not associated with table table_name.

Cause: A TMU statement specified an index name to use for ordering or reorganization, but the named index is not associated with the target table.

Response: Correct the TMU statement to specify either an index name associated with the target table or no index name.
**Informational, Warning, and Error Messages**

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**RBL888E** Cannot UNLOAD table **table_name** because one or more of its segments are offline.

**Cause:** The UNLOAD statement as written cannot be executed because one or more of the segments attached to the target table are offline.

**Response:** Either modify the UNLOAD statement to include a SEGMENTS clause, or bring all segments of the table online and submit the UNLOAD statement again. You can query the RBW_SEGMENTS system table to determine the status of all segments.

**RBL889E** Cannot UNLOAD table **table_name** using index **index_name** because one or more index segments are offline.

**Cause:** An UNLOAD statement cannot be completed because one or more of the segments assigned to the selected index are offline.

**Response:** Modify the UNLOAD statement either by including a SEGMENTS clause or by removing the USING INDEX clause. Alternatively, bring all segments of the target table and indexes online and submit the UNLOAD statement again. You can query the RBW_SEGMENTS system table to determine the status of all segments.

**RBL890E** Cannot UNLOAD table **table_name** using TARGET index **index_name**.

**Cause:** An UNLOAD statement cannot be completed because the operation attempted to use a TARGET index to order the output rows.

**Response:** Modify the UNLOAD statement by removing the USING INDEX clause or by specifying a non-TARGET index in that clause.

**RBL891E** Cannot perform partial index REORG because table **table_name** has an invalid STAR index.

**Cause:** A REORG statement specified a partial list of indexes to be reorganized (that is, not all indexes associated with the table were specified), but at least one STAR index on the table is marked invalid. A complete REORG of all indexes must be performed to check referential integrity and restore STAR index validity.

**Response:** Perform a REORG operation that does not list specific indexes or that lists all indexes associated with the target table.
RBL892I  Recalculated segment ranges for STAR index index_name.

Cause: A REORG operation specified the RECALCULATE RANGES operation. This message confirms that ranges were successfully recalculated for the indicated index.

Response: Information only. The system tables can be queried for more information about the currently calculated STAR index segment ranges.

RBL893E  Quitting partial index REORG because of a data integrity violation. Run a complete REORG for table table_name.

Cause: A REORG statement specified a partial list of indexes to be reorganized (that is, not all indexes associated with the table were specified), but a data integrity violation was detected during the operation. The most common cause is a referential integrity violation. Duplicate row data can also produce this error. Partial index REORG operations cannot correct data integrity violations, so the REORG operation was terminated before it finished. The table is left in an invalid state until a full reorganization is completed.

Response: Perform a REORG operation that does not list specific indexes or that lists all indexes associated with the target table.

RBL894W  Possible consistency error for table table_name. Review and repair before continuing.

Cause: A TMU operation resulted in a possible data consistency error for the identified table. Possible causes are a user action (for example, an interrupted REORG operation), a physical problem (for example, out of disk space), or a system error. All processing was immediately stopped. In most cases, one or more indexes will have been marked “invalid” for use. This error indicates possible corruption or damage to the internal data structures that represent tables and/or indexes, and DBA intervention is required before the operation can continue.

Response: First, attempt to correct the problem by performing a REORG operation on the identified table. A REORG operation attempts to rebuild all indexes; if it completes successfully, consistency errors are corrected and normal processing can be continued. If the REORG operation fails to complete successfully, contact the Red Brick Customer Support Center for assistance. Further correction will require the use of the tblchk and ixvalid tools delivered with Red Brick Warehouse to analyze and repair your database.
**Informational, Warning, and Error Messages**

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- **RBL896E** To RECALCULATE RANGES for table *table_name*, a STAR index must be explicitly or implicitly referenced.
  
  **Cause:** A REORG statement included the RECALCULATE RANGES clause, but a STAR index was not referenced in the statement. The RECALCULATE RANGES clause is meaningful only for STAR indexes, so the REORG operation cannot be performed as requested.

  **Response:** Ensure that the REORG statement references a STAR index. A STAR index can be explicitly referenced using the INDEX keyword, or it can implicitly referenced by not listing any indexes.

- **RBL897E** Cannot REORG table *table_name* because one or more of its segments are offline.
  
  **Cause:** A REORG operation cannot be completed because one or more of the segments assigned to the target table are offline.

  **Response:** Bring all segments of the target table online and submit the REORG statement again. You can query the RBW_SEGMENTS system table to determine the status of all segments.

- **RBL898E** Cannot REORG index *index_name* of table *table_name* because one or more of its segments are offline.
  
  **Cause:** A REORG operation cannot be completed because one or more of the segments of the indicated index are offline.

  **Response:** Bring all segments of the indicated index online and submit the REORG statement again. You can query the RBW_SEGMENTS system table to determine the status of all segments.

- **RBR899E** Command requires RISQL Reporter.
  
  **Cause:** The command that was entered requires the use of the RISQL Reporter product; this command is not supported by the RISQL Entry Tool.

  **Response:** Obtain a license for the RISQL Reporter.

- **RBR900E** The call completed successfully.

- **RBR901E** Operation canceled by call to RBKill.

- **RBR902E** API call was not valid or API not initialized.

- **RBR903E** Insufficient memory available to satisfy request.
RBR904E  Internal logic error. Record what you were doing and contact the Red Brick Customer Support Center.
RBR905E  Invalid column number.
RBR906E  Invalid parameter to the command.
RBR907E  Invalid database name.
RBR908E  Username not a valid user in the database.
RBR909E  Host not listed in rbw.config file.
RBR910E  Invalid session ID.
RBR911E  Invalid host or Red Brick Warehouse username or password.
RBR912E  General Red Brick Warehouse server API I/O error.
RBR913E  All rows have been returned for the query.
RBR914E  No database has been opened.
RBR915E  No session available.
RBR916E  API has not successfully logged into Red Brick Warehouse server.
RBR917E  An error occurred while processing a query.
RBR918E  Fatal Red Brick Warehouse server error:
RBR919E  Command completed successfully.
RBR920E  Unable to open rbw.config file.
RBR921E  Protocol version mismatch with Red Brick Warehouse server.
RBR922E  Asynchronous operation is pending.
RBR923E  The format of the current query results has changed.
RBR924E  There is an RBKill command pending.
RBR925E  There was no command to be canceled with RBKill.
RBR926E  The session already has an associated open database.
RBR927E  The session still has an associated open database.
RBR928E  The command was not sent because the send would have blocked.
RBR929E Cannot access IPC message queue.
RBR930E Error with IPC shared memory region.
RBR931E Cannot allocate IPC semaphores.
RBR932E Unable to fork server process.
RBR933E Unable to run server under given user ID.
RBR934E Cannot run rbwsvr program; program not found or is not executable.
RBR935E Protocol error1, corrupted structures.
RBR936E Protocol error2, corrupted structures.
RBR937E Protocol error3, corrupted structures.
RBR938E Protocol error4, corrupted structures.
RBR939E Protocol error5, corrupted structures.
RBR940E Protocol error6, corrupted structures.
RBR941E Protocol error7, corrupted structures.
RBR942E Protocol error8, corrupted structures.
RBR943E Protocol error9, corrupted structures.
RBR944E Protocol error10, corrupted structures.
RBR945E Protocol error11, corrupted structures.
RBR946E Protocol error12, corrupted structures.
RBR947E Protocol error13, corrupted structures.
RBR948E Protocol error14, corrupted structures.
RBR949E Protocol error15, corrupted structures.
RBR950E Protocol error, corrupted structures.
RBR951E Session not allocated.
RBR952E Connection attempt timed out.
RBR953E Cancel attempt failed.
RBR954E  Unable to locate password entry for currently executing user ID.

RBR955E  Multiple password entries were found for currently executing user ID.

RBR956E  Server process could not access memory map file.

RBR957E  Server process could not access message base file.

RBL958F  Upgrade cannot proceed with this database. Internal version: `internal_version_code`.

**Cause:** The database being upgraded is older than the current UPGRADE command can handle.

**Response:** The database must be upgraded in steps that start with previous versions of Red Brick Warehouse. Contact the Red Brick Customer Support Center for further information. Make certain to note the value of the internal version code.

RBL959I  Starting UPGRADE of Red Brick Warehouse database `database_name`.

**Cause:** The UPGRADE operation has started.

**Response:** None necessary.

RBS960E  Attach segment `segment_name` would overlay segment `segment_name`.

**Cause:** The range for an attached segment overlays the range of an existing attached segment. For example, assume the segments A, B, and C have ranges MIN:100, 100:200, 200:MAX. A new segment being attached cannot have a range of (MIN:100), (99:201) or any other range that would completely overlay an attached segment.

**Response:** Correct the range and submit the command again.
**Informational, Warning, and Error Messages**

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**RBA961E**  
A default segment cannot be created because the default PSU 'psu_name' already exists.

**Cause:**  
The creation of a default segment failed because the default PSU name was used for an existing file. Possible causes are that two databases are using the same area for default or sort segments, that a database was not deleted correctly, or that an offline LOAD operation aborted abnormally.

**Response:**  
Verify that another database is not using the PSU. If possible, delete the file and submit the command again.

**RBS962W**  
File file_name does not exist. Segment cannot be used until this file is replaced.

**Cause:**  
User issued an ALTER SEGMENT...CHANGE PATH statement and the target file did not exist. The segment was altered, but it is not usable until either the target file is restored or the segment is altered to point to a file that does exist.

**RBS963E**  
File file_name has an invalid length for a Red Brick Warehouse database file.

**Cause:**  
User issued an ALTER SEGMENT...CHANGE PATH statement and the target file exists, but its size is not a multiple of 8K.

**Response:**  
Verify that the file is a warehouse database file. Warehouse files must be a multiple of 8K in length.

**RBS964E**  
file_name is a directory and cannot be used for a segment.

**Cause:**  
User issued an ALTER SEGMENT...CHANGE PATH statement and the target file is a directory.

**RBS965E**  
file_name cannot be used as a Red Brick Warehouse file.

**Cause:**  
User issued an ALTER SEGMENT...CHANGE PATH statement and the target file is not a regular file or a link. The target file might be a socket.

**RBS966I**  
file_name is a link.

**Cause:**  
User issued an ALTER SEGMENT...CHANGE PATH statement and the target file is a link.

**Response:**  
If the target file was not intended to be a link, submit the command again with the correct target file name.
RBL967F  File size resource limit is not set to maximum.

Cause:    The UNIX file size resource limit was not set to the maximum
          allowed value. This smaller limit can cause a load to fail with an
          out-of-space error even though there is physical space available.

Response: Contact the UNIX system administrator to increase the filesize
          resource limit for the user ID running the TMU.

RBS968E  Segment segment_name cannot be used because it is owned by
          another user.

Cause:    An ALTER TABLE, CREATE TABLE, or CREATE INDEX statement
          specified a segment that did not belong to the current user, and the
          current user did not have CREATE_ANY authority or was not a
          member of the DBA system role.

Response: Specify a segment that was created by the current user, or notify the
          warehouse administrator and request the required authority.

RBA969E  Cannot complete operation because the filesystem holding
          one or more INDEX_TEMPSPACE directories is full.

Cause:    An operation that uses optimized index building (for example,
          LOAD DATA, REORG, CREATE INDEX) failed because the system
          ran out of disk space in the filesystem holding one or more
          INDEX_TEMPSPACE directories. All indexes on the associated
          table are marked “invalid.”

Response: To recover from this error, you must consider two issues. Indexes
          are marked “invalid,” so you must perform a full REORG operation
          on the affected table.

In addition, if the failure occurred during a LOAD DATA operation
that included records with duplicate values for UNIQUE indexes,
there might be incorrect records remaining in the table’s row data.
To recover from this second problem, you must perform a REORG
operation with OPTIMIZE OFF to discard records with duplicate keys. You might also need to perform the REORG operation with OPTIMIZE OFF if you are unable to provide sufficient disk space to complete an optimized REORG operation.

Resolve the out-of-disk condition by removing files from the affected filesystem, or by choosing directories on a different filesystem for your INDEX_TEMPSPACE DIRECTORIES parameter.

To prevent this problem, be sure that the value set for INDEX_TEMPSPACE MAXSPILLSIZE, multiplied by the number of indexes being maintained concurrently, is less than the amount of free space on the filesystems containing the INDEX_TEMPSPACE directories.

RBL970E Segment segment_name cannot be used as a work segment because it is already in use.

Cause: An offline LOAD operation specified a work segment that is already in use. The work segment must be an unattached segment.

Response: Change the command to use an unattached segment.

RBL971E Cannot complete REORG because table table_name contains records with duplicate keys. Re-run REORG with OPTIMIZE OFF.

Cause: A REORG operation with OPTIMIZE ON encountered illegal rows in a table that has duplicate values for the table’s primary key and/or another UNIQUE index. The REORG operation with OPTIMIZE ON is unable to eliminate these rows, and so it cannot be completed.

Response: Perform the REORG operation again with OPTIMIZE OFF, to identify and eliminate rows with duplicate key values.

RBL972W number rows contained duplicate keys and were deleted.

Cause: A REORG operation encountered the indicated number of rows in the table that had duplicate values for the table’s primary key and/or another UNIQUE index. These rows are illegal so they were deleted from the table.

Response: If possible, duplicate rows are written to a temporary file (/tmp) in UNLOAD (internal) format. The name of the temporary file is indicated in a prior message.
RBA973E  Table table_name has STAR index segments with range values greater than the MAXROWS PER SEGMENT value of referenced table table_name.

Cause: A previous command altered the MAXROWS PER SEGMENT value on a referenced table to be less than a range value used to segment a STAR index.

Response: Perform a REORG operation on the indexes that reference the table with the changed MAXROWS PER SEGMENT value. Use the RECALCULATE RANGES option.

RBS974E  Name role_name already in use for a role or user.

Cause: A CREATE ROLE or GRANT CONNECT statement specified a role or user name that is already in use.

Response: Use a different name for the role or the user and submit the statement again.

RBS975E  The role name does not exist in the database.

Cause: The specified role name was not found in the database.

Response: Correct the statement and submit it again.

RBS976E  Granting more roles to user user_name would exceed direct affiliation limit of number roles.

Cause: A user has reached the maximum number of roles allowed for direct affiliation.

Response: Create a hierarchy of roles and then grant the role to the user through an indirect affiliation.

RBS977E  Cannot grant more than number of roles to a user.

Cause: A GRANT statement contains more roles than any user is allowed.

Response: Create a hierarchy of roles and then grant the role to the user through an indirect affiliation.
**RBS978E**

**Message:**

`GRANT role role_name to role_name` would create an affiliation cycle.

**Cause:**

An attempt was made to grant a role to a second role that already is affiliated with the first role. For example, “grant role role1 to role2” will affiliate role2 with role1. If a later statement grants role2 to role1, it will return this message. This type of cyclic definition is detected and disallowed, even through a series of indirect affiliations.

**Response:** Correct the statement and submit it again.

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**RBS979E**

A role cannot have a password.

**Cause:**

A GRANT CONNECT command was used to change to password of an existing user, but it specified a role name instead of a user name.

**Response:** Correct the statement and submit it again.

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**RBS980E**

A role cannot be named the same as a task authority.

**Cause:**

The names used for task authorities cannot be used as names for roles.

**Response:** Correct the statement and submit it again.

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**RBL985E**

Insufficient authority to perform SYNCH operation.

**Cause:**

A TMU SYNCH command was issued to synchronize a segment with a table, but the user running the TMU does not have sufficient object privileges to perform the operation. As a result, the segment was not synchronized. The TMU user must have OFFLINE_LOAD authority, be a member of the DBA system role, or be the owner of the table.

**Response:** Review table ownership and authorities and run the TMU with an appropriate database user name.

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**RBS986E**

A password is not allowed when granting task authorities, object privileges, or roles.

**Cause:**

A GRANT statement included the WITH password clause; for a role than the predefined CONNECT system role. A password can be specified only when the CONNECT system role is granted.

**Response:** Correct the error and submit the command again.
RBS987E The WITH PASSWORD clause is required for GRANT CONNECT.

Cause: A GRANT CONNECT statement did not specify a password for the user.

Response: Include a password and submit the command again.

RBS988E GRANT CONNECT can operate on only one user at a time.

Cause: A GRANT CONNECT statement was specified for more than one user. A GRANT CONNECT statement can specify only one user, in order to prevent password duplication.

Response: Use a separate GRANT CONNECT statement for each user.

RBS989E Privileges, authorities, or roles cannot be self-revoked.

Cause: A REVOKE statement included the current user in the user list. Users cannot revoke their own privileges, authorities, or roles. However, users can grant authorities to themselves if they have the required authority.

Response: Notify the warehouse administrator and request the necessary REVOKE operation.

RBA990E New password for user user_name is too short. It must contain at least pwd_minimum_len characters.

Cause: The password specified for the user does not contain enough characters to meet the minimum length specified in the rbw.config file.

Response: Specify a password that contains at least the number of characters specified in the PASSWORD MINIMUM_LENGTH parameter in the rbw.config file.

RBA991E New password for user user_name is not unique within the past pwd_previous passwords for this user account.

Cause: The new password specified for the user matches a password that has been used on this account within the number of previous passwords specified in the PASSWORD RESTRICT_PREVIOUS parameter in the rbw.config file.

Response: Specify a password for the user account that does not match one of these previously used passwords.
RBA992E New password for user user_name does not meet the complexity requirements. It must contain at least num_letters letters, num_numbers digits, and num_punct punctuation characters.

Cause: The new password specified for the user does not contain the required number of characters for one or more of the character classes specified in the rbw.config file for complex passwords. There are three character classes that can be specified: letters, digits, and punctuation characters. The three associated parameters are: PASSWORD COMPLEX_NUM_LETTERS, PASSWORD COMPLEX_NUM_NUMERICS, and PASSWORD COMPLEX_NUM_PUNCTUATION.

Response: Specify a password for the user account that contains at least the number of characters specified by the parameters for each character class.

RBA993E The password for user user_name cannot be changed this frequently. A period of num_days day(s) must pass between password changes.

Cause: The user password cannot be changed more frequently than specified in the rbw.config file parameter PASSWORD CHANGE_MINIMUM_DAYS.

Response: The password can be changed after the specified period of time has passed.

RBA994W Your password will expire in num_days day(s).

Cause: The password for this account will expire in the number of days specified in the message. The date of expiration is the date of the last password change for this account, plus the number of days specified in the PASSWORD EXPIRATION_DAYS parameter in the rbw.config file.

Response: Change your password within the number of days specified in the message.
RBS995E  The datatypes of CASE expression THEN clauses, COALESCE expressions, or IFNULL expressions must be comparable.

Cause: All datatypes used within CASE expression THEN clauses, within COALESCE expressions, or within IFNULL expressions did not have comparable datatypes. For example, it is illegal to have one CASE expression THEN clause return a character value and another THEN clause return a floating point value. Because there is no implicit conversion between these two datatypes, the two expressions cannot be compared.

Response: Make certain that all THEN clause expressions within a CASE expression, all COALESCE expressions, or all IFNULL expressions have datatypes that can be compared.

RBS996E  CASE expressions must contain at least one non-NULL THEN or ELSE clause.

Cause: At least one THEN clause or the ELSE clause specified for a CASE expression must contain a value other than NULL.

Response: Rewrite the CASE expression so that at least one of the THEN or ELSE clauses contains a value other than NULL.

RBS997E  Simple form CASE expression WHEN clause expression datatypes must be comparable with the CASE operand.

Cause: The WHEN clauses in a simple form CASE expression must contain expressions with datatypes that can be compared with the datatype of the initial CASE operand. For example, it is illegal to have a WHEN clause expression refer to a character value and the initial CASE operand refer to a floating point value; because there is no implicit conversion between these two datatypes the two expressions cannot be compared.

Response: Rewrite the CASE expression so that all WHEN clause expressions have datatypes that can be compared to the datatype of the initial CASE operand.

RBS998E  Display functions are not allowed in a CASE, COALESCE, IFNULL, or NULLIF expression.

Cause: A display function was included within a CASE, COALESCE, IFNULL, or NULLIF expression.

Response: Rewrite the CASE, COALESCE, IFNULL, or NULLIF expression so that it contains no reference to display functions.
RBS999E  The ABS function is unable to calculate the absolute value of the smallest possible integer value (-2147483648) as an integer because the absolute value is too large to fit in the integer datatype.

**Cause:** The ABS function was unable to calculate the absolute value of the smallest possible integer value (-2147483648) because the absolute value is too large to fit in the integer datatype.

**Response:** The absolute value of the smallest possible integer value (-2147483648) can be returned in a floating point representation.

RBL1001F  Log daemon must be run as the superuser or as the redbrick user.

**Cause:** The log daemon was started from a user ID other than the superuser user ID or the “redbrick” user ID.

**Response:** Run the log daemon as the superuser (root) or as the “redbrick” user.

RBL1002F  Environment variable RB_CONFIG must be set to run log daemon.

**Cause:** The standard Red Brick Warehouse environment variable RB_CONFIG must be set in order to run the log daemon. This variable must provide a full pathname to the directory containing the Red Brick Warehouse configuration file, rbw.config.

**Response:** Set the RB_CONFIG environment variable and then start the log daemon.

RBL1003F  Environment variable RB_CONFIG must reference a full pathname.

**Cause:** The value of the RB_CONFIG environment variable did not begin with the character “/” and is therefore not a full pathname.

**Response:** Set the RB_CONFIG environment variable to contain the full path name to the directory containing the Red Brick Warehouse configuration file, rbw.config.
RBL1004F  Directory specified by $RB_CONFIG does not exist.

Cause:  The directory referenced by the value in the RB_CONFIG environment variable does not exist.

Response: Set the RB_CONFIG environment variable to contain the full path name to the directory containing the Red Brick Warehouse configuration file, rbw.config.

RBL1005F  Too many arguments on command line.

Cause:  The log daemon takes at most one argument—the server name—on its command line. More than one argument was specified.

Response: Specify zero or one arguments on the command line.

RBL1006F  Unable to create lock file: (errno) reason

Cause:  The log daemon was unable to create its required lock file. The operating-system error code and reason are indicated.

Response: Review the operating-system error and take appropriate corrective action.

RBL1007F  A log daemon is already running for server_name (pid pid).

Cause:  A log daemon is already running for the indicated Red Brick Warehouse server. The PID of the currently running server is shown.

Response: Either stop the currently running log daemon and submit this command again, or ignore this error and allow the currently running daemon to continue.

RBL1008W  Logging is disabled because directory 'directory_name' not found or cannot be written.

Cause:  The log daemon has disabled logging operations because it is unable to create and write a file to the configured logging directory.

Response: Review the logging directory configuration, and select a valid directory that can be written by the log daemon.
**Informational, Warning, and Error Messages**

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RBL1009W  Accounting is disabled because directory 'directory_name' not found or cannot be written.

**Cause:** The log daemon has disabled accounting operations because it is unable to create and write a file to the configured accounting directory.

**Response:** Review the accounting directory configuration, and select a valid directory that can be written by the log daemon.

RBL1010F  Invalid ADMIN setting in rbw.config file: string.

**Cause:** The rbw.config file contained an invalid setting for an ADMIN parameter. Either the keyword following ADMIN is unknown, or the parameter value is not valid for that keyword. The specific cause for the error is stated.

**Response:** Review and correct the ADMIN entry in the rbw.config file.

RBL1011W  Ran out of discard file space while writing the discarded rows to file file_name. Stopped writing the discarded rows.

**Cause:** The filesystem ran out of space while writing to the discard file. The LOAD operation continued, but the discarded rows were not appended to the discard file.

**Response:** If the filesystem is full, either increase disk space or delete unneeded files.

RBL1012F  parameter configuration value must be at least value (value was specified).

**Cause:** An ADMIN MAXSIZE configuration parameter specified a value that is too small. The smallest legal value is indicated in the message.

**Response:** Correct the ADMIN MAXSIZE entry in the rbw.config file to specify a value equal to or greater than the smallest legal value.

RBL1013F  ADMIN parameter too large; maximum is valueunit (valueunit was specified).

**Cause:** An ADMIN MAXSIZE configuration parameter specified a value that is too large. The largest legal value is indicated in the message.

**Response:** Correct the ADMIN MAXSIZE entry in the rbw.config file to specify a value less than or equal to the largest legal value.
RBL1014F  Units specified for ADMIN parameter must be "K" or "M".

Cause: An ADMIN MAXSIZE configuration parameter contained a unit designator (for kilobytes or megabytes), but the designator specified was invalid.

Response: Correct the ADMIN MAXSIZE entry in the rbw.config file to specify either a valid unit designator ("K" or "M") or no unit designator.

RBL1015I  Log Daemon Process:process_id RB_HOST: 'connection_name'.

Cause: The log daemon has started successfully.

Response: None necessary.

RBS1016F  Loop detected in system table structure structure_type at filename:line_number.

Cause: Database system tables might be damaged.

Response: Contact the Red Brick Customer Support Center with the exact text of this message and a description of the operation in progress.

RBS1017F  System table structure on deleted list but not marked deleted. Type of structure is structure_type. Error detected at filename:line_number.

Cause: Database system tables might be damaged.

Response: Contact the Red Brick Customer Support Center with the exact text of this message and a description of the operation in progress.

RBS1018F  System table structure found in use but marked deleted. Type of structure is structure_type. Error detected at filename:line_number.

Cause: Database system tables might be damaged.

Response: Contact the Red Brick Customer Support Center with the exact text of this message and a description of the operation in progress.

RBS1019F  Unexpected error extending system table file 'file_name'. Internal error number error_number.

Cause: Filesystem holding the database catalog might be full.

Response: Contact the Red Brick Customer Support Center with the exact text of this message and a description of the operation in progress.
**RBS1020F** Unexpected error updating system table file 'file_name'.

Internal error number error_number.

**Cause:** Filesystem holding the database catalog might be failing.

**Response:** Contact the Red Brick Customer Support Center with the exact text of this message and a description of the operation in progress.

**RBL1021W** Upgrade cannot be performed: An incomplete alter table operation is pending for table table_name.

**Cause:** An ALTER TABLE operation on the specified table terminated before it completed. The ALTER TABLE operation must be resolved before the database can be upgraded.

**Response:** Resolve the partially completed ALTER TABLE operation by completing it with either the RESUME or RESET options or by dropping the table. Then perform the UPGRADE operation again.

**RBL1022W** Upgrade cannot be performed: An incomplete offline load is pending for segment segment_name of table table_name.

**Cause:** The specified row-data segment is out of synchronization with its table because an offline LOAD operation has not yet been synchronized. The offline LOAD operation must be completed before the database can be upgraded.

**Response:** Complete the offline LOAD operation and then perform the UPGRADE operation again. The offline load can be completed by performing a TMU SYNCH operation, by clearing the segment with ALTER SEGMENT...CLEAR, by detaching the segment, or by dropping the table.

**RBL1023E** Upgrade of database database_name not performed.

**Cause:** Conditions in the database prevented the UPGRADE operation from starting. Possible causes are uncompleted ALTER TABLE or offline LOAD operations. The specific conditions were described in preceding messages.

**Response:** The database is left unchanged. For help in resolving the pending operations, see the response descriptions for the preceding messages.
RBA1024S  Optimized TARGET index building inserted count rows into index index_name. used_bytes bytes of threshold count bytes used. count rows (in count batches) flushed early due to memory limitation.

Cause: This message contains statistical information about the optimized creation or modification of TARGET indexes.

Response: None needed.

RBA1025S  Hash table size is count with count distinct entries and count collisions.

Cause: This message contains statistical information about optimized creation or modification of TARGET indexes.

Response: None needed.

RBA1026W  Block Cache usage: total pages - pages global list pages - pages

Cause: This message contains internal processing state information and appears in some cases before error message 132 is printed.

RBA1027W  spno nfiles type owner seg r/w pol locked owned highwater optsize local

Cause: This message contains internal processing state information and appears in some cases before error message 132 is printed.

RBA1028W  debugging information

Cause: This message contains internal processing state information and appears in some cases before error message 132 is printed.

RBA1029W  count active block cache spaces.

Cause: This message contains internal processing state information and appears in some cases before error message 132 is printed.

RBA1030W  active virtual tables:

Cause: This message contains internal processing state information and appears in some cases before error message 132 is printed.
**Informational, Warning, and Error Messages**

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**RBA1031W**

vtnc bchndl active_rows pinned_rows totblks pinblks delblks
back opt iter

*Cause:* This message contains internal processing state information and
appears in some cases before error message 132 is printed.

**RBA1032W**

count virtual tables found.

*Cause:* This message contains internal processing state information and
appears in some cases before error message 132 is printed.

**RBS1033E**

Query tempspace maxspillsize limit (count) exceeded.

*Cause:* The processing of the SQL statement terminated because temporary
disk space used by the statement exceeded the limit set by the
QUERY TEMPSPACE MAXSPILLSIZE parameter.

*Response:* Increase the value of the MAXSPILLSIZE parameter or rewrite the
SQL statement with tighter constraints.
RBS1034E  Temporary query space exhausted.

Cause:  The processing of the SQL statement terminated because temporary query space was exhausted; either the file system(s) containing the temporary query files was full or the “redbrick” user’s quota on that file system(s) was exceeded. The space might have been consumed by the query that was terminated, by queries from other sessions, or by a combination of the two.

Response:  To resolve this problem, try one or more of the following suggestions:

(1) Run the query when fewer users are running large queries concurrently on your Red Brick Warehouse.

(2) Use the QUERY_TEMPSPACE_DIRECTORY parameters to specify that alternative or additional directories on file systems with additional disk space be used for the query and/or other queries being run concurrently.

(3) Ensure that there are no temporary query files from prior invocations of Red Brick Warehouse in the temporary query directories. You can specify an appropriate cleanup script in the rbw.config file to be run each time the warehouse daemon starts.

(4) Expand the available disk space by removing unnecessary files from the file system(s) containing the directories specified for temporary query space.

(5) Ensure that disk quotas for the “redbrick” user on the file system(s) containing the directories specified for temporary query space are not too restrictive.

RBA1035E  Current PSU size exceeds MAXSIZE for PSU file_name of segment file_name.

Cause:  The current file size of the indicated PSU is greater than the MAXSIZE defined for it.

Response:  Check for possible file corruption of the database files. This error might result if a file is incorrectly copied into the indicated PSU. Contact the Red Brick Customer Support Center.
RBA1036E  Segment open error: segment_name header contains incorrect type.

Cause: The header of the indicated segment did not contain the expected type when it was opened. This error might be caused by improper copying of segments and PSUs; for example, if a PSU from a table is copied over an index PSU.

Response: Check for possible file corruption of the database files. Contact the Red Brick Customer Support Center.

RBA1037E  Operation terminated due to index segment errors.

Cause: The preceding warning messages indicate that this operation cannot continue.

Response: One or more segment warning messages indicate what the problem is. Refer to the cause and response for these messages before trying the operation again.

RBA1038I  Testing segment structure of index segment_name.

Cause: An operation that will rebuild an index is running. This message indicates that the segment and PSU structures of the indicated index are being validated before permanent changes to the index are made. If errors are detected that prevent rebuilding the index, an error message describing the exact nature of the problem is issued and the index segments are not modified.

RBL1098F  Daemon unable to initialize IPC (error).

Cause: A service daemon was unable to initialize its Inter-Process Communication (IPC) services. The error reason code is indicated.

Response: Contact the Red Brick Customer Support Center.

RBL1099F  Unable to fork daemon process: (errno) reason.

Cause: A service daemon was unable to initialize itself by forking a child process. The operating-system error code and reason are indicated.

Response: Review the operating-system error and take appropriate corrective action.
RBS1100E  Insufficient authority to perform ALTER SYSTEM operation.

Cause: The user who issued the ALTER SYSTEM command did not have the required authority. To perform an ALTER SYSTEM operation, a user must be a member of the DBA system role or have the ALTER_SYSTEM task authority.

Response: Verify that the user has the correct authority to issue the ALTER SYSTEM command.

RBS1101E  Insufficient authority to query the dynamic statistic tables.

Cause: The user who issued the select statement against a dynamic statistic table did not have the required authority. To select from a dynamic statistic table, a user must be a member of the DBA system role, have the ACCESS_SYSINFO authority, or have the ALTER_SYSTEM task authority.

Response: Verify that the user has the correct authority to select from the dynamic statistic tables.

RBS1102W  The alter system command produced the following message. message

Cause: See the indicated message for the Cause information.

Response: See the indicated message for the Response information.

RBS1103E  The specified database name dbname was not found.

Cause: The ALTER SYSTEM command specified a database name that was not recognized by the administration daemon, which has knowledge only of databases that have had some activity since the daemon started.

Response: Select the DBNAME column from any Dynamic Statistic Table to make sure that a valid database name is specified.

RBS1104W  Database dbname is already quiesced.

Cause: An ALTER SYSTEM QUIESCE statement was issued for a database that is already in the quiesced state.

Response: None necessary.
RBS1105W Database dbname is not quiesced.

**Cause:** An ALTER SYSTEM RESUME command was issued for a database that was not in the quiesced state.

**Response:** None necessary.

RBS1106E Database dbname is an administration database and cannot be quiesced or resumed.

**Cause:** An ALTER SYSTEM QUIESCE command was issued for an administration database.

**Response:** Correct the command to specify a non-administration database.

RBA1107E Database is quiesced. The only valid action is to quit the session or for an authorized user to issue ALTER SYSTEM RESUME.

**Cause:** The current database was quiesced after the current session started. A quiesced database allows running commands to finish, but no new commands or sessions are accepted. The only exception is that an authorized user can issue an ALTER SYSTEM RESUME command.

**Response:** From an authorized session or from the administration database, you can either issue an ALTER SYSTEM RESUME command or close the current session.

RBA1108F Database is quiesced. No new connections are allowed.

**Cause:** The current database is in the quiesced state. A quiesced database will not accept new connections.

**Response:** From an administration database, issue an ALTER SYSTEM RESUME command to allow new connections.

RBA1109F RB_HOST environment variable not set and no alternate value was specified.

**Cause:** The administration daemon requires that the RB_HOST environment variable be set or that an appropriate value be passed to the daemon as the first parameter when the daemon is started.

**Response:** Either set the RB_HOST environment variable to the appropriate value or start the administration daemon with the appropriate value as its first parameter.
RBS1110E  User user_name has not connected to database dbname.

Cause:  An ALTER SYSTEM command specified a user name of a user who has not yet connected to a database. The administration daemon has knowledge only of databases and users that have had some activity since the daemon started.

Response: Specify a user that has connected to a database.

RBS1111E  Process process_id was not found for user user_name on database dbname.

Cause:  An ALTER SYSTEM statement specified a process that was not found for the specified user and database.

Response: Rewrite the statement to include a valid process ID for the specified user and database.

RBS1112E  CREATE TABLE not allowed in an administration database.

Cause:  The administration database is used for ALTER SYSTEM commands that can affect any known database and for dynamic static table queries that show information for all known databases. The administration database does not allow commands that use disk space for arbitrary objects.

Response: Create the table in a non-administration database.

RBS1113E  CREATE SEGMENT not allowed in an administration database.

Cause:  The administration database is used for ALTER SYSTEM commands that can affect any known database and for Dynamic Static Table queries that show information for all known databases. The administration database does not allow commands that use disk space for arbitrary objects.

Response: Create the segment in a non-administration database.

RBS1114E  Command cannot run because there is no administration daemon currently active.

Cause:  An ALTER SYSTEM command or dynamic statistic table query was issued, but there is no active administration daemon to process the command.

Response: Start an administration daemon, start another session, and submit the command again.
**RBS1115E** Insufficient authority to ALTER USER *user_name*.

**Cause:** The user who issued the ALTER USER statement did not have the required authority. To use the ALTER USER command, a user must have USER_MANAGEMENT authorization, or be a member of the DBA system role.

**Response:** Verify that the user has the necessary authorization to issue the ALTER USER command.

**RBS1116E** Invalid priority value *number*. Value must be in the range 0 to 100.

**Cause:** An ALTER USER SET PRIORITY statement had an invalid priority value. Values must be positive integers in the range 0 to 100.

**Response:** Correct the priority value and submit the command again.

**RBS1117E** User *user_name* named in ALTER USER does not exist.

**Cause:** An ALTER USER statement specified a user that does not exist in the database. Note that a role name cannot be specified as a user name in an ALTER USER command.

**Response:** Correct the error and submit the command again.

**RBA1118E** Server sessions started prior to administration daemon.

**Cause:** An ALTER SYSTEM command or Dynamic Statistic Table query was issued from a session that was started before the current administration daemon. The administration daemon does not have the session’s start up information and is unable to perform the requested service.

**Response:** Start another session and submit the command again.

**RBA1119F** Environment variable RB_CONFIG must be set to run Administration Daemon.

**Cause:** The standard Red Brick Warehouse environment variable RB_CONFIG must be set in order to run the administration daemon (rbwadmd). RB_CONFIG must be a full pathname to the directory that contains the rbw.config file.

**Response:** Set the RB_CONFIG environment variable and then start the administration daemon.
RBA1120F Environment variable RB_CONFIG must reference a full pathname.

**Cause:** The value of the RB_CONFIG environment variable did not begin with the character “/” and is therefore not a full pathname.

**Response:** Set the RB_CONFIG environment variable to contain the full pathname to the directory containing the rbw.config file.

RBA1121F Directory specified by $RB_CONFIG does not exist.

**Cause:** The RB_CONFIG environment variable referenced a directory that does not exist.

**Response:** Set the RB_CONFIG environment variable to contain the full pathname to the directory containing the rbw.config file.

RBA1122F Too many arguments on command line.

**Cause:** The administration daemon takes at most a single argument—the server name—on its command line. More than one argument was specified.

**Response:** Specify zero or one arguments on the command line.

RBA1123F Administration daemon must be run as the superuser or as the redbrick user.

**Cause:** The administration daemon was started from a user ID other than the superuser (root) user ID or the redbrick user ID.

**Response:** Run the administration daemon as the superuser or as the redbrick user.

RBA1124F Unable to create lock file: (errno) reason.

**Cause:** The administration daemon was unable to create its required lock file. The operating-system error code and reason are indicated.

**Response:** Review the operating-system error and take appropriate corrective action.
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RBA1125F    An administration daemon is already running for server_name (pid pid).

    Cause:    An administration daemon is already running. The PID of the currently running server is shown.
    Response: Either stop the current administration daemon and submit this command again, or ignore this error and allow the current daemon to continue.

RBS1126F    Session was closed by an external agent.

    Cause:    The current session was terminated by some external agent; a possible cause is that the DBA issued an ALTER SYSTEM CLOSE USER SESSION command.
    Response: Notify the warehouse administrator.

RBA1127W    Changing user's priority cannot be supported on this platform.

    Cause:    The administration daemon uses a non-standard UNIX command to change the priority of a running process. The UNIX renice command was not found when the administration daemon started, and there was no alternate command specified in the rbw.config file for the ADMIN RENICE_COMMAND parameter.
    Response: Ask the UNIX system administrator whether the platform has a renice utility and its location (full pathname). Specify the location of the renice utility with the ADMIN RENICE_COMMAND parameter in the rbw.config file. Then start the administration daemon again.

RBA1128E    Changing process priorities not allowed on this platform.

    Cause:    The administration daemon uses a non-standard UNIX command to change the priority of a running process. The UNIX renice command was not found when the administration daemon started, and there was no alternate command specified in the rbw.config file for the ADMIN RENICE_COMMAND parameter.
    Response: Ask the UNIX system administrator whether the platform has a renice utility and its location (full pathname). Specify the location of the renice utility with the ADMIN RENICE_COMMAND parameter in the rbw.config file. Then start the administration daemon again.
RBA1129F  Unexpected IPC error in administration daemon initialization. Error: error.

   Cause: An unexpected error occurred while the administration daemon was initializing the IPC services.

   Response: Contact the Red Brick Customer Support Center.

RBA1130F  Missing definition for RB_HOST or RB_CONFIG environment variables.

   Cause: The TMU uses the RB_HOST and RB_CONFIG environment variables; they must be set before the TMU is started.

   Response: Make sure that the RB_HOST and RB_CONFIG environment variables are set to appropriate values.

RBA1131W  No processes found for user user_name on database dbname.

   Cause: An ALTER SYSTEM command specified all processes for a specific user, but no processes are currently being run by that user.

   Response: None necessary.

RBS1132W  The DST query produced the following message. message

   Cause: See the Cause information for the indicated message.

   Response: See the Response information for the indicated message.

RBS1290E  Insufficient authority to issue command.

   Cause: The user running the Red Brick Warehouse Administration tool did not have the required authority. To run the necessary commands, a user must be a member of the DBA system role or have the ACCESS_SYSINFO task authorization.

   Response: Verify that the user has the correct task authorization.

RBA1297I  Administration Daemon Process:process_id
           RB_HOST:'connection_name'.

   Cause: The administration daemon has successfully started.

   Response: None necessary.
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RBA1298F Database specification name was not found in the configuration file.

Cause: The database specified was not found in the rbw.config file and therefore cannot be opened.

Response: Make certain that there is a logical database name in the rbw.config file for the database you are trying to access.

RBS1299S Block Cache Reads/Writes: number
Mem used: number
Spill count: number
Spill used: number
Parallel count: number

Cause: Full statistic messages have been enabled. This message follows 499.

Response: None necessary.

RBL1302E String does not contain a complete timestamp specification: 'invalid_timestamp'.

Cause: A non-ANSI string was specified in the WHERE clause of an UNLOAD statement. The string did not contain both a time and a date.

Response: Change the string to contain a complete timestamp specification.

RBL1303E Literal value 'numeric_literal' contains too many digits of precision.

Cause: The WHERE clause of an UNLOAD statement contained a decimal literal value that has more digits after the decimal point than the column to which the literal is being compared.

Response: Remove trailing digits to match the scale of the comparison column.

RBL1304E Decimal literal 'numeric_literal' contains too many digits of precision.

Cause: A literal value in the WHERE clause of an UNLOAD statement contained a decimal literal value that has more digits than the column to which the literal is being compared.

Response: Change the literal value to match the column to which the value is being compared.
Starting duplicate removal phase with duplicates.

Cause: Indicates that the TMU has started the final phase of duplicate removal during a LOAD DATA or REORG operation. This message is issued only when an index is built using the standard OPTIMIZED indexing mode. In some cases, this duplicate-removal phase can take substantial time.

Response: Information only.

Cannot create new user user_name because the maximum number of allowable users (num_users) already exist.

Cause: The maximum number of users allowed under your Red Brick Warehouse for Workgroups license has been reached.

Response: Check whether all existing users are needed, or upgrade your license to allow more users.

Multiple segment tables and indexes are not supported by Red Brick Warehouse for Workgroups.

Cause: A CREATE TABLE, CREATE INDEX, or ALTER SEGMENT…ATTACH command attempted to place a table’s data or an index’s data into multiple segments. Multiple segment tables and indexes are not supported by Red Brick Warehouse for Workgroups.

Response: Modify the command to use a single segment and submit it again.

ALTER TABLE operation cannot be executed on table table_name because the table would grow to over 5 gigabytes.

Cause: In the Red Brick Warehouse for Workgroups product, an ALTER TABLE…ADD COLUMN operation was attempted on a table that would have resulted in that table exceeding the allowed maximum size (5 gigabytes) for tables.

Response: Check the command, the current row width, and the current number of rows, and take the necessary action to keep the database within the 5-gigabyte limit.
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RBA1309F More than 2 logical database names defined in configuration file.

Cause: In the Red Brick Warehouse for Workgroups product, a TMU or server process found more than two logical database names in the rbw.config file. Red Brick Warehouse for Workgroups has a limit of two logical database names. The ADMIN and AROMA databases, if present, are not included in this limit.

Response: Modify the rbw.config file so that it contains only two logical database names, not counting the ADMIN and AROMA databases.

RBL1310W Supplied user name and password override control file.

Cause: A warehouse user name and password were supplied as part of the rb_tmu or rb_ptmu command invocation. A user name and password were also specified in the TMU control file. The values supplied in the TMU control file are ignored; the user name and password supplied with the command invocation override the values supplied in the TMU control file.

Response: None necessary.

RBL1311W Environment variable 'env_name' for parameter is not defined.

Cause: The TMU control file contained a USER statement that referenced an environment variable for the user name or password, but the referenced environment variable is not defined. No value could be determined for the missing parameter.

Response: If the missing parameter is supplied on the command line when the TMU is invoked, you can ignore this warning. Otherwise, define the missing environment variable and invoke the TMU again.

RBL1312I Generated statement_type statement for table table_name.

Cause: Confirms the successful completion of a TMU GENERATE operation.

Response: None necessary.

RBA1313E Maximum size of COMMENT exceeded.

Cause: A string literal supplied in the COMMENT clause of a command exceeded the maximum allowable length of 256 bytes.

Response: Shorten the comment and submit the command again.
RBS1314E  Insufficient authority to ALTER INDEX index_name.

Cause: The user did not have the required authority to alter the index named in the statement. To alter an index, a user must have ALTER ANY authorization, be a member of the DBA system role, be the creator of the table and have the ALTER OWN authorization, or be the creator of the index and be a member of the RESOURCE system role.

Response: Verify that the user has the correct authority to alter the index named in the statement.

RBS1315E  Insufficient authority to ALTER MACRO macro_name.

Cause: The user did not have the required authority to alter the macro named in the statement. To alter a macro, a user must have ALTER ANY authorization, be a member of the DBA system role, be the creator of the macro and have the ALTER OWN authorization, or be the creator of the macro and be a member of the RESOURCE system role.

Response: Verify that the user has the correct authority to alter the macro named in the statement.

RBS1316E  Insufficient authority to ALTER VIEW view_name.

Cause: The user did not have the required authority to alter the view named in the statement. To alter a view, a user must have ALTER ANY authorization, be a member of the DBA system role, be the creator of the view and have the ALTER OWN authorization, or be the creator of the view and be a member of the RESOURCE system role.

Response: Verify that the user has the correct authority to alter the view named in the statement.

RBS1317E  Insufficient authority to ALTER SYNONYM synonym_name.

Cause: The user did not have the required authority to alter the synonym named in the statement. To alter a synonym, a user must have ALTER ANY authorization, be a member of the DBA system role, be the creator of the synonym and have the ALTER OWN authorization, or be the creator of the synonym and be a member of the RESOURCE system role.

Response: Verify that the user has the correct authority to alter the synonym named in the statement.
**RBS1318E** Insufficient authority to ALTER ROLE role_name.

**Cause:** The user who issued the ALTER ROLE statement did not have the required authority. To alter a role, a user must have USER_MANAGEMENT authorization, or be a member of the DBA system role.

**Response:** Verify that the user has the correct authority to issue the ALTER ROLE command.

**RBS1319E** The column 'column_name' is not defined in the view 'view_name'.

**Cause:** An ALTER VIEW...ALTER COMMENT statement specified a column name that does not exist in the specified view.

**Response:** Correct the statement and submit it again.

**RBS1320E** The column 'column_name' is not defined in the synonym 'synonym_name'.

**Cause:** An ALTER SYNONYM...ALTER COMMENT statement specified a column name that does not exist in the specified synonym.

**Response:** Correct the statement and submit it again.
RBS1322W  REORG of referencing table STAR indexes might be required for changed MAXROWS PER SEGMENT value to take effect.

Cause:  An ALTER TABLE CHANGE MAXROWS PER SEGMENT command was issued, and the new MAXROWS PER SEGMENT value is the same as the old MAXROWS PER SEGMENT value when both values are rounded up to the next power of 2. Changes of this type require a REORG operation on only those STAR indexes that reference single-segment tables and where the product of the MAXROWS PER SEGMENT value from each referenced table is less than $2^{32}$.

Response:  None required, but issuing a REORG command against a referencing table will cause its STAR index(es) to be rebuilt, reflecting the new MAXROWS PER SEGMENT value. If you do not run the REORG operation, then any referencing STAR indexes might not be able to contain all of the altered table’s values.

The following query can be used to identify the affected STAR indexes:

```sql
SELECT DISTINCT INAME
FROM RBW_INDEXCOLUMNS
WHERE FKNAME IN
    (SELECT FKCONSTRAINT
     FROM RBW_RELATIONSHIPS
     WHERE PKTABLE = 'table_name');
```

where 'table_name' is the name of the table that was altered.

RBS1323W  The MAXSEGMENTS value exceeds the maximum number of segments per table supported by Red Brick Warehouse for Workgroups.

Cause:  A CREATE TABLE or ALTER TABLE…CHANGE MAXSEGMENTS statement specified a MAXSEGMENTS value greater than 1. Red Brick Warehouse for Workgroups does not support multiple-segment tables, so the MAXSEGMENTS number of segments can never be reached.

Response:  None needed; however, to eliminate the warning, change the value of MAXSEGMENTS to 1.
**RBS1324E**  The value number could not be converted to a REAL because it is out of range.

**Cause:** An argument to the REAL function was out of range for a 4-byte floating-point number.

**RBS1325W**  Garbled message from admin daemon. Current length: message_length Maximum length: max_length

**Cause:** A query of one of the Dynamic Statistic Tables received a packet from the administration daemon with an invalid length. Some rows from the DST might be missing.

**Response:** Submit the command again.

**RBS1326E**  ORDER BY reference must be an integer value or a column reference.

**Cause:** ORDER BY reference must be an integer value or a column reference.

**Response:** Correct the error and submit the command again.

**RBS1327W**  The MAXROWS PER SEGMENT number of rows (rownum) will not fit in the Red Brick Warehouse for Workgroups 5 gigabyte limit.

**Cause:** A CREATE TABLE or ALTER TABLE...CHANGE MAXROWS PER SEGMENT statement specified a number of rows in its MAXROWS PER SEGMENT value that will not fit in 5 gigabytes. The Red Brick Warehouse for Workgroups product limits the maximum size of any table to 5 gigabytes, so the number of rows in the table can never reach the MAXROWS PER SEGMENT value.

**Response:** None needed; however, to eliminate the warning, decrease the MAXROWS PER SEGMENT value.

**RBL1328W**  UPGRADE cannot be performed: The index index_name is a PATTERN index. PATTERN indexes are not supported in the new version.

**Cause:** The database contains at least one PATTERN index. Red Brick Warehouse no longer supports PATTERN indexes. All PATTERN indexes must be dropped before the database can be upgraded.

**Response:** Use the DROP INDEX command to drop all PATTERN indexes defined in the database. Then run the UPGRADE operation again.
RBL1329E  Pipe commands not allowed with DDLFILE.

  Cause:    A DDL file specification started with the UNIX pipe character.
  Response: Remove the pipe command from the DDL filename.

RBL1330E  The DDLFILE is not allowed to be /dev/null.

  Cause:    /dev/null was specified as the DDLFILE in the UPGRADE statement.
            Setting the DDLFILE to /dev/null would result in the loss of all views
            from the database being upgraded.
  Response: Specify another file name for the DDLFILE; or if you do not want to
            retain any views in the upgraded database, drop all views before
            you issue the UPGRADE statement.

RBL1331W  The complete text of the view view_name is not available.

  Cause:    The RBW_VIEWTEXT system table does not contain the complete
            definition for the named view. The definition as stored in the
            RBW_VIEWTEXT system table does not end with a semicolon, and
            therefore it is possible that some of the text is missing. The DDL
            statement to re-create the view in the upgraded database has been
            generated but it might be incomplete.
  Response: Review the text of the CREATE VIEW statement in the DDLFILE
            file, and make any necessary corrections before you create the view
            in the upgraded database.

RBL1332E  A DDLFILE specification is required to UPGRADE this database.

  Cause:    No DDLFILE filename was specified in the UPGRADE statement,
            but one is required because the database to be upgraded contains at
            least one view.
  Response: Specify a DDLFILE filename in the UPGRADE statement.

RBL1333I  Total views deleted: viewcount

  Cause:    Specifies the number of views deleted by the UPGRADE operation.
  Response: The following message identifies the name of an SQL script that can
            be used to create the views again in the upgraded database.
RBL1334I  SQL script to recreate views: 'filename'

Cause: Identifies the name of the SQL script that you can use to create the views deleted in the UPGRADE process.

Response: Use the named file as SQL input to the RISQL Entry Tool (or any tool that accepts SQL input) to create the deleted views again.

RBS1335E  A B-tree index is required on the primary key of table 'table_name'.

Cause: A STAR index cannot be created because a B-TREE index does not exist on the primary key of the table identified in the message. Each table referenced by a foreign key in the STAR index key must have an index defined on its primary key. If the referenced table is a synonym then the base table of the synonym must have a B-TREE index on its primary key.

Response: Issue a CREATE INDEX statement to define an index on the primary key columns of the referenced table.

RBS1336E  Attaching a segment to table 'table_name' would cause the MAXSEGMENTS value of maxsegs to be exceeded.

Cause: The number of segments attached to the table equals the MAXSEGMENTS value. This number cannot be exceeded.

Response: Use an ALTER TABLE...CHANGE MAXSEGMENTS command to increase the MAXSEGMENTS value.

RBL1337W  UPGRADE cannot be performed: The empty STAR index index_name must be reorganized or dropped before upgrade.

Cause: The UPGRADE operation cannot process uninitialized, empty STAR indexes. An uninitialized STAR index only occurs as the default STAR index of a newly created, empty major table. The index must be initialized or removed before you can proceed with the UPGRADE operation.

Response: Either use the TMU REORG command to reorganize the table, which will initialize the index, or drop the empty table. Then run the UPGRADE operation again.
RBS1338E  Too many columns in the definition of the primary key.

Cause:  The number of names in the column list specified for the primary key of the table exceeds 256.

Response: Correct the statement and submit it again.

RBL1339W  Index indexname is invalid.

Cause:  The index indicated was marked “invalid” in the 4.X version of the database and therefore cannot be upgraded to the 5.0 format. The UPGRADE operation will skip this index and continue to upgrade the other indexes.

Response: When the UPGRADE operation is complete, either use the TMU REORG command to reorganize the table on which the index is defined, or drop the index and create it again.

RBL1340W  Index indexname not upgraded.

Cause:  The named index has not been upgraded, for the reason indicated in a message that precedes this one. The UPGRADE operation has marked the index “invalid”; it cannot be used without being reorganized.

Response: When the UPGRADE operation on the entire database is complete, either use the TMU REORG command to reorganize the table on which the index is defined, or drop the index and create it again.

RBS1341W  Segment name segname used in the range specification of STAR index indexname.

Cause:  An attempt was made to detach a segment that is named in the range specification of a STAR index. The segment cannot be detached until all references to it are removed.

Response: Either drop the named STAR index or use ALTER SEGMENT to change the segmentation scheme of the index so that it does not reference the segment to be detached. Then submit the ALTER SEGMENT...DETACH statement again.
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RBS1342W  Row number in range specification of STAR index indexname equals or exceeds new MAXROWS PER SEGMENT value.

Cause: The table specified in the ALTER TABLE...CHANGE MAXROWS PER SEGMENT statement is referenced by the leading foreign key in the key of the named STAR index. The range specification that defines how the STAR index is segmented contains a row number value that equals or exceeds the new MAXROWS PER SEGMENT value. All row numbers in the range specification of a STAR index must be less than the MAXROWS PER SEGMENT value of the table referenced by the segmenting column of the STAR index.

Response: Either drop the named STAR index or use ALTER SEGMENT to change the segmentation scheme of the index so that all row numbers are less than the MAXROWS PER SEGMENT value. Then submit the ALTER TABLE...CHANGE MAXROWS PER SEGMENT statement again.

RBS1343E  Operation failed because it would invalidate the range specification of one or more STAR indexes.

Cause: An ALTER TABLE...CHANGE MAXROWS PER SEGMENT or an ALTER SEGMENT...DETACH statement was attempted that would change values used in the range specification of at least one STAR index. The names of the STAR indexes affected are identified in the preceding messages.

Response: Either drop the named STAR indexes, or use ALTER SEGMENT to change the segmentation schemes of the indexes so that they do not use the segment to be detached or they do not use row number values that exceed the MAXROWS PER SEGMENT value of the referenced table.
RBS1344E Operation not allowed because primary key values in segment may be used in rows from a referencing table.

Cause: An ALTER SEGMENT...CLEAR or ALTER SEGMENT...OFFLINE operation was attempted on a non-empty data segment, and the table to which the segment is attached is referenced by at least one other non-empty table. The rows in the segment might contain primary key values that match foreign key values in the referencing tables. Thus, clearing the segment or taking it offline could potentially cause a referential integrity violation.

Response: To ensure that referential integrity is not violated by the ALTER SEGMENT operation, delete all data from the referencing tables before attempting the ALTER SEGMENT operation. If this is not feasible or if you can guarantee that referential integrity will not be violated by the operation, issue the ALTER SEGMENT statement with the OVERRIDE REFCHECK option.

RBS1345E Range values for segment segment_name must be increasing.
Local segment id of segment segname_left exceeds local segment id of segment segname_right.

Cause: A range was supplied for a STAR index in which the segment named in the lower bound of the range has a local segment ID that is greater than the local segment ID of the segment named in the upper bound of the range.

Response: Correct the range and submit the command again.

RBS1346E Referential integrity is violated for the proposed STAR index.

Cause: At least one row in the referencing table has a foreign key value that has no corresponding primary key value in the referenced table.

Response: Referential integrity must exist before the STAR index can be created. Either offending row(s) must be dropped from the referencing table or corresponding rows must be added to the referenced table before the STAR index can be created.

RBS1347E Segments can be attached only to base tables or indexes defined on base tables.

Cause: The ALTER SEGMENT...ATTACH statement references a view or model table. Segments cannot be attached to these objects.

Response: Correct the statement to reference a base table.
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RBS1348E  Table new_refd_table must be a synonym of base table old_refd_table.

Cause: An ALTER TABLE...ALTER CONSTRAINT statement attempted to change the table referenced by a foreign key to an invalid table. The table referenced by a foreign key can be changed only if the new table is a synonym of the original referenced table or if the new and original referenced tables are both synonyms of the same base table.

Response: Correct the referenced table and submit the command again.

RBS1349E  'fkey_name' does not identify a foreign key in the table 'table_name'.

Cause: The supplied name was not a foreign key constraint name or the name of the column in a single column foreign key belonging to the table being altered. The ALTER CONSTRAINT option applies only to foreign keys.

Response: Check the name and table definition.

RBL1350F  Datetime mask 'datemask' for column column_name contains invalid fields for numeric input.

Cause: The datetime mask contained a variable length field, separator, or a character field (such as AM/PM or month name) and the input field is a numeric field. When a numeric field is loaded into a datetime column, the mask can contain only fixed-length datetime fields. Separators and alphabetic input are not allowed.

Response: Correct the datetime mask in the LOAD DATA statement.

RBL1351W  Ignoring scale specification for numeric input for datetime column column_name.

Cause: A numeric field that was used as input for a datetime column had a scale factor specified for it. The scale factor was ignored.

Response: None necessary.
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RBL1352E  Datetime mask 'datemask' for column column_name specifies specified_number_of_digits digits and needs to specify needed_number_of_digits.

Cause:  The datetime mask used with a decimal input field specified the incorrect number of digits based on the input field value. The specified number of digits must match the number of digits in the input field value. For packed-decimal input, there are two digits for each byte of input, with the exception of the last byte, which contains one digit and the sign indicator. For example, a five-byte packed-decimal field will contain 9 digits. For zoned-decimal input, each byte contains one digit.

Response:  Correct the datetime mask in the LOAD DATA statement.

RBL1353E  Datetime mask 'datemask' for column column_name specifies specified_number_of_digits digits, which is greater than the number of digits in a number byte integer value.

Cause:  The datetime mask used with a binary-integer input field contains more digits than can occur in the number of bytes for the specified fieldtype. For example, the INTEGER fieldtype (4 bytes) can contain 10 digits; the SMALLINT fieldtype (2 bytes), 5 digits; and the TINYINT (1 byte), 3 digits.

Response:  Correct the datetime mask in the LOAD DATA statement.

RBL1354W  Integer value number for column column_name contains more than number digits. Row number of table table_name.

Cause:  The integer input value contained more digits than were specified in the datetime mask. The record was placed in the discard file.

Response:  Check the input data or the discard file.

RBL1355W  Negative numeric value not allowed for datetime column column_name. Row number of table table_name.

Cause:  An attempt was made to load a negative numeric value into a datetime column. Only positive integers, packed decimal, and zoned decimal values can be loaded into datetime types.

Response:  Check the input data or the discard file.
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RBL1360F Cannot use DEFAULT operator on pseudocolumn pseudocolumn_name.
Cause: The DEFAULT operator was specified for a pseudocolumn. Because the pseudocolumn is not actually in the table, it cannot have a default value.
Response: Remove the DEFAULT operator on the pseudocolumn.

RBL1361F Cannot use RETAIN operator on pseudocolumn pseudocolumn_name.
Cause: The RETAIN operator was specified for a pseudocolumn. Because the pseudocolumn is not actually in the table, there is no value to RETAIN.
Response: Remove the RETAIN operator from the pseudocolumn.

RBL1362F RETAIN operator only allowed in MODIFY or UPDATE load.
Cause: The RETAIN operator was specified and the load mode was not MODIFY or UPDATE mode. In modes other than MODIFY and UPDATE, existing columns cannot be updated and existing values cannot be retained.
Response: Correct the LOAD DATA statement.

RBL1363F Cannot use RETAIN on primary key column column_name.
Cause: The RETAIN operator was specified on a primary key column. In order for a LOAD operation in MODIFY or UPDATE mode to find the row that contains the column value to be retained, there must be an input value specified for the primary key columns. Without this value, the table row to be updated or modified cannot be identified.
Response: Correct the LOAD DATA statement.

RBL1364E In UPDATE or MODIFY mode, explicit values must be specified for all the columns of the primary key. Missing column column_name.
Cause: A LOAD DATA operation in UPDATE or MODIFY mode did not have all primary key values specified, making it impossible to determine whether an input row matches an existing row in the table.
Response: Correct the LOAD DATA statement.
RBS1400E Value value would overflow the column with type data_type.
Cause: An attempt was made to store a numeric data value with a precision greater than 9 digits into a column whose datatype is too small to represent the value.

RBS1401E A NUMERIC or DECIMAL value would overflow the column with type data_type.
Cause: An attempt was made to store a numeric data value with a precision greater than 9 digits into a column whose datatype is too small to represent the value. The value that could not be stored exceeds 38 digits of decimal precision.

RBS1402E A numeric constant is invalid.
Cause: A numeric constant specified in the command is invalid. For example, two decimal points in a literal such as ‘12.3.4’ would cause this error.
Response: Submit the command with a valid numeric constant.

RBL1403F Upgrade cannot continue because internal data structure structure_name is corrupt. (sn: number).
Cause: During an attempt to upgrade from Red Brick Warehouse 3.0 to Red Brick Warehouse 3.5, the system discovered an inconsistency in the internal structures of the system tables. This inconsistency is probably because of a known problem in Red Brick Warehouse 2.1.
Response: Contact the Red Brick Customer Support Center for assistance and have the exact text of the message available.

RBS1404E Argument number of function function_name must be an integer literal.
Cause: Some scalar functions require that certain arguments be integer literals. For example, the precision and scale arguments for the DECIMAL function must take integer literals, if specified.
Response: Submit the command with integer literals where required.
RBS1405E  Result of multiplication cannot be represented in an exact numeric datatype.

Cause: The result of an expression involving the multiplication of exact numerics could not be represented internally without the loss of significant digits. This situation occurs either prior to row processing when the result type of the expression requires more than 38 fractional decimal digits, or during row processing when the value that results from multiplication exceeds 38 digits.

Response: Either simplify the expression or introduce scalar functions to coerce the intermediate results to alternate datatypes or precisions. The FLOAT scalar function can be used to force the evaluation of the expression to be performed in approximate numeric datatypes. The INTEGER and DECIMAL scalar functions can be used to reduce the scale of the operands of the multiplication operator so that the result of the multiplication will have fewer fractional digits.

RBS1406E  Evaluation of a numeric expression resulted in overflow or underflow.

Cause: Evaluation of a numeric expression caused overflow or underflow of intermediate results. A possible cause is an operation such as multiply that resulted in a value that could not be represented in 38 decimal digits.

Response: Either simplify the expression or introduce scalar functions to coerce the intermediate results to alternative datatypes or precisions. The FLOAT scalar function can be used to force the evaluation of the expression to be performed in approximate numeric datatypes which support a greater range of values but with less precision. The INTEGER and DECIMAL scalar functions can be used to reduce the scale of intermediate results.

RBL1407E  UPGRADE operation cannot continue because there are active users in the database.

Cause: An UPGRADE command could not continue because other users were accessing the database.

Response: Make certain there are no active users in the database and start the UPGRADE operation again.
RBS1408E  Function 'function_name' was called with argument number set to a numeric expression that is greater than the allowed maximum of number.

Cause: The value supplied for this argument is too large.

Response: Correct the error and submit the command again.

RBS1409E  Function 'function_name' was called with argument number set to a numeric expression that is less than the allowed minimum of number.

Cause: The value supplied for this argument is too small.

Response: Correct the error and submit the command again.

RBL1410F  Upgrade cannot continue: Segment segment_name of table table_name has a minimum range value whose internal storage has been incorrectly allocated (block: block offset: offset).

Cause: During an attempt to upgrade from Red Brick Warehouse 3.0 to Red Brick Warehouse 3.5, the system discovered an inconsistency in the internal structures of the system tables. This inconsistency is probably due to a known problem in Red Brick Warehouse 3.0.

Response: Contact the Red Brick Customer Support Center for assistance and have the exact text of the message available.

RBL1411F  Upgrade cannot continue: Segment segment_name of table table_name has a maximum range value whose internal storage has been incorrectly allocated (block: block offset: offset).

Cause: During an attempt to upgrade from Red Brick Warehouse 3.0 to Red Brick Warehouse 3.5, the system discovered an inconsistency in the internal structures of the system tables. This inconsistency is probably due to a known problem in Red Brick Warehouse 3.0.

Response: Contact the Red Brick Customer Support Center for assistance and have the exact text of the message available.
RBL1412F Upgrade cannot continue: Column column_name of table table_name has a default value whose internal storage has been incorrectly allocated (block: block offset: offset).

**Cause:** During an attempt to upgrade from Red Brick Warehouse 3.0 to Red Brick Warehouse 3.5, the system discovered an inconsistency in the internal structures of the system tables. This inconsistency is probably due to a known problem in Red Brick Warehouse 3.0.

**Response:** Contact the Red Brick Customer Support Center for assistance have the exact text of the message available.

RBS1413F Unable to fork process, operating system error: string.

**Cause:** An attempt to fork a process failed. The operating system returned the indicated error, which might be the result of an operating system resource being exhausted at the system or user (redbrick) level. Often the resource that has been exhausted is swap space or processes.

Possible causes are an incorrectly configured kernel (such as the swap space or the number of processes per system being set too low), incorrect configuration parameters in the rbw.config file (such as TOTALQUERYPROCS being set too high), or other applications or subsystems consuming the available resources.

**Response:** Examine the rbw.config file to verify that the configuration options are set as desired (paying particular attention to the MAX_SERVERS, TOTALQUERYPROCS, and QUERY_TEMPSPACE THRESHOLD parameters).

Verify that the kernel is configured as recommended by Red Brick Systems for the configuration parameters specified in the rbw.config file (refer to the appropriate Red Brick Installation and Configuration Guide). Verify that if applications other than Red Brick Warehouse are running on the server machine, then the kernel parameters have been adjusted to reflect this additional load.

Examine the operating system logs for messages logged at or shortly before the time this error was reported.

Based on this analysis, adjust the kernel parameters, rbw.config parameters, and/or concurrent application load as appropriate. If necessary, contact the Red Brick Customer Support Center for assistance.
RBA1414W  The file system on which PSU id psu_sequence_number_p of segment segment_name resides has run out of space. Continuing segment space allocation on PSU id psu_sequence_number_p+1.

Cause: The filesystem on which the first of the identified PSUs resides ran out of disk space, possibly because of other files that reside on the same filesystem. When this situation occurs, the MAXSIZE value of that PSU is automatically reset to that PSU’s actual amount of used space and space allocation for the identified segment continues with the next PSU in sequence.

Response: None necessary.

RBA1415E  Insufficient segment space is available on segment segment_name to continue execution.

Cause: The identified segment has reached its MAXSIZE value. The cause might be identified in one or more previously issued messages.

Response: Increase the segment’s MAXSIZE value by increasing the MAXSIZE value of the last of the segment’s PSUs, which is also the current PSU.

RBA1416E  The statement cannot complete because segment segment_name is on optical storage.

Cause: An operation that requires non-optical segments (because of OPTICAL AVAILABILITY options) referenced a segment that is an optical segment.

Response: Change the OPTICAL AVAILABILITY option settings.

RBS1417W  The statement might return incorrect results because segment segment_name is an optical segment.

Cause: A segment needed by the statement was on optical storage, and the OPTICAL AVAILABILITY parameter forced the statement to ignore the missing data.

Response: Either make certain that no segments of a table or index are on optical storage or set the OPTICAL AVAILABILITY parameter to force the statement to fail as necessary.
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RBS1418I  The statement might return incorrect results because segment segment_name is an optical segment.

Cause: A segment needed by the statement was on optical storage, and the OPTICAL AVAILABILITY parameter forced the statement to ignore the missing data.

Response: Either make certain that no segments of a table or index are on optical storage or set the OPTICAL AVAILABILITY parameter so that the statement fails as necessary.

RBS1419W  The statement causes access to an optical segment segment_name.

Cause: A segment needed by the statement was on optical storage, and the OPTICAL AVAILABILITY parameter forced the statement to access data on optical segment.

Response: None necessary. To change behavior of the statement, set the OPTICAL AVAILABILITY parameter so that the statement fails as necessary.

RBS1420I  The statement causes access to an optical segment segment_name.

Cause: A segment needed by the statement was on optical storage, and the OPTICAL AVAILABILITY parameter forced the statement to access data on optical segment.

Response: None necessary. To change behavior of the statement, set the OPTICAL AVAILABILITY parameter so that the statement fails as necessary.

RBL1421I  Segment segment_name is on optical storage.

Cause: A segment referenced by a TMU operation is an optical segment.

Response: Information only.

RBS1422S  Used relation scan at query level number.

Cause: The server determined that this query would not benefit from parallel query execution of a relation scan.

RBS1423S  Used STARjoin at query level number.

Cause: The server determined that this query would not benefit from parallel query execution of a relation scan.
RBS1424E  The DOMAIN SIZE clause is only allowed on TARGET indexes.

Cause:    A DOMAIN SIZE specification was included for a non-TARGET index. The DOMA
          IN SIZE clause is only allowed for TARGET indexes.

Response: Either remove the DOMAIN SIZE clause from the CREATE INDEX command or create a TARGET index.

RBA1426E  Operating system denied read access for directory 'file_name'.

Cause:    The operating system denied read access to the indicated directory.

Response: Check the permissions on the directory and check the owner and setuid bit on the Red Brick Warehouse server executable file (rbwsvr). The database and segment files must have read and write access for the owner of the Red Brick Warehouse server executable file.

RBS1427E  Directory file_name does not exist.

Cause:    The user issued an ALTER SEGMENT...MIGRATE TO statement and the target directory did not exist.

Response: Verify that the statement correctly specifies an existing directory and submit it again.

RBS1428E  file_name is not a directory and cannot be used.

Cause:    The user issued an ALTER SEGMENT...MIGRATE TO statement and the target is not a directory.

Response: Verify that the statement correctly specifies an existing directory and submit it again.

RBS1429I  file_name is a link.

Cause:    The user issued an ALTER SEGMENT...MIGRATE TO statement and the target directory is a link.

Response: If the target directory was not intended to be a link, submit the statement again with the correct target directory name.
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**RBS1430W**  
File with same name as PSU id `psu_num1` already exists in `file_name`.  

**Cause:** The user issued an ALTER SEGMENT...MIGRATE TO statement and the name of the PSU was the same name as that of an existing file.  

**Response:** Either remove the existing file or, if it is a valid PSU, use an ALTER SEGMENT...CHANGE PATH command to specify a new PSU filename so that duplicate PSU names do not occur.

**RBS1431W**  
Insufficient disk space in `file_name` while copying PSU id `psu_num1`.  

**Cause:** A full filesystem prevented Red Brick Warehouse from copying a PSU during an ALTER SEGMENT...MIGRATE TO command.  

**Response:** After making sufficient disk space available on the full filesystem for the necessary work, submit the ALTER SEGMENT...MIGRATE TO command again.

**RBS1432W**  
Migrated only first `psu_num1` PSU to `file_name`.  

**Cause:** An error prevented Red Brick Warehouse from migrating all PSUs in the segment to the new directory.  

**Response:** Check previous messages for errors or warnings.

**RBS1433I**  
`parameter` is currently set to `value`.  

**Cause:** The user issued a command to set a parallel query FORCE option but did not specify a value. This message displays the current value.  

**Response:** None needed.

**RBS1434I**  
`parameter` is currently set to `OFF`.  

**Cause:** The user issued a command to set a parallel query FORCE options but did not specify a value. This message displays the current value.  

**Response:** None needed.
RBL1435F Cannot use ACCEPT/REJECT clause when using a column_name in a non-update mode.

Cause: An ACCEPT/REJECT clause was specified and one of the arguments was a column name, but the mode was not UPDATE or MODIFY. The INSERT, APPEND, and REPLACE modes cannot be used with an ACCEPT/REJECT clause that uses a column reference.

Response: Change either the mode or the ACCEPT/REJECT clause, and then submit the LOAD DATA statement again.

RBS1436I Query terminated because ROWCOUNT number of rows have been fetched. Rows returned: number.

Cause: The user is subject to a ROWCOUNT constraint that caused the query to terminate. This message is issued even if the actual number of rows returned by the query is equal to the ROWCOUNT value.

RBA1437E Attempt to configure more than number temp_space_type DIRECTORIES.

Cause: An attempt was made to configure more directories for the indicated type of temporary space than the maximum number allowed, either in the rbw.config file or with a SET {QUERY | INDEX}_TEMPSPACE DIRECTORIES command.

Response: Check the rbw.config file or SET command.

RBA1438E temp_space_type DIRECTORY name 'path_name' is too long.

Cause: The indicated temporary space directory name is too long. The directory name was specified either in the rbw.config file or with a SET {QUERY | INDEX}_TEMPSPACE DIRECTORIES command.

Response: Check the rbw.config file or SET command.

RBA1439E temp_space_type DIRECTORY name 'path_name' is a duplicate.

Cause: The indicated temporary space directory name was previously specified in the same SET {QUERY | INDEX}_TEMPSPACE DIRECTORIES command.

Response: Check the SET command.
RBA1440E Index index_name is not a TARGET index.

Cause: The index specified in the ALTER INDEX CHANGE DOMAIN SIZE command was not a TARGET index; only TARGET indexes have domain sizes.

Response: Correct the ALTER INDEX command by removing the CHANGE DOMAIN SIZE clause or by specifying a TARGET index.

RBA1441E TARGET index index_name domain size not changed.

Cause: The TARGET index specified in the ALTER INDEX CHANGE DOMAIN SIZE command already had the specified domain size.

Response: Make sure the new domain size is different from the existing domain size.

RBA1442W Unexpected results from OS. code: errorcode command caller:location caller:location

Cause: An operating system call returned with an unexpected result.

Response: Contact the Red Brick Customer Support Center for further information. Note carefully the values in this message.

RBS1443W No more informational messages will be reported for this query due to the INFO_MESSAGE_LIMIT constraint. Informational messages generated: number.

Cause: The INFO_MESSAGE_LIMIT number of information messages have been generated for this query.

Response: If more messages are required, change the INFO_MESSAGE_LIMIT value.

RBA1444E Invalid units 'unit_name' for temp_space_type MAXSPILLSIZE. Valid units are 'unit_name' (Kilobytes), 'unit_name' (Megabytes) and 'unit_name' (Gigabytes).

RBA1445E Cannot perform offline load on empty table. Table name: table_name.

Cause: Red Brick Warehouse does not support offline LOAD operations on empty tables.

Response: Insert at least one row before beginning an offline LOAD operation.
RBS1446W  Unexpected message received from the admin daemon. Message length: message_length.

**Cause:** A query of one of the Dynamic Statistic Tables received an unexpected packet from the administration daemon. Some rows from the DST might be missing.

**Response:** Submit the command again.

RBS1447I  TARGET index index_name has been marked invalid due to domain size change. Reorganize the index.

**Cause:** An ALTER TARGET INDEX/CHANGE DOMAIN SIZE command was issued. This message is to remind you that the TARGET index must be reorganized before the index can be used again.

**Response:** Use the TMU REORG command to reorganize the index.

RBS1448E  Cannot create TARGET index index_name on unique column column_name.

**Cause:** A TARGET index cannot be created on a column that is declared UNIQUE.

**Response:** Consider using a standard B-TREE index on the column.

RBA1449E  Unable to spill to disk as the size of the result row exceeds the allowed maximum of number bytes. The size of the result row is number bytes.

**Cause:** This error is issued only for queries that spill to disk. The size of the result row and the null bytes to specify null values can never be larger than (BC_BLOCK_SIZE – (size_of (RABlockHeader) + 1)), which is 8186 bytes.

RBL1450W  Segment segment_name is on optical storage.

**Cause:** A segment referenced by a TMU operation is an optical segment.

**Response:** None needed. If you do not want this warning message displayed, change the OPTICAL AVAILABILITY entry in the rbw.config file.
**RBA1453E** Invalid units 'unit_name' for QUERY MEMORY LIMIT. Valid units are 'unit_name' (Kilobytes), 'unit_name' (Megabytes) and 'unit_name' (Gigabytes).

**Cause:** Either the TUNE QUERY_MEMORY_LIMIT entry in the rbw.config file specifies an invalid unit or a SET QUERY MEMORY LIMIT command was issued with an invalid unit.

**Response:** Provide a valid unit.

**RBA1454E** QUERY MEMORY LIMIT value numberunits is not within value range. The valid range is from minimumunits to maximumunits.

**Cause:** Either the TUNE QUERY_MEMORY_LIMIT entry in the rbw.config file specifies an invalid value or a SET QUERY MEMORY LIMIT command was issued with an invalid value.

**Response:** Provide a value within the legal range.

**RBA1455E** QUERY MEMORY LIMIT value numberunits is too small.

**Cause:** The default value is specified by the TUNE QUERY_MEMORY_LIMIT entry in the rbw.config file; this value might have been overridden with the SET QUERY MEMORY LIMIT command.

**Response:** Increase the QUERY MEMORY LIMIT value.

**RBS1456I** parameter is currently set to ON.

**Cause:** The user issued a command to set a parallel query FORCE option but did not specify a value. This message displays the current value.

**Response:** None needed.

**RBS1457S** EXCHANGE (ID: number) Parallelism over number times High: number Low: number Average: number.

**Cause:** Informational statistic messages have been enabled with SET STATS command.

**Response:** Run Explain on the above query for more information about this EXCHANGE (ID:number).
RBS1458S  CHOOSE PLAN (ID: number) Choice: number was chosen number times.

Cause:   Informational statistic messages have been enabled.
Response: Run Explain on the above query for more information about this CHOOSE PLAN Choice.

RBS1459S  CHOOSE PLAN (ID: number) STARjoin on number tables was done number times.

Cause:   Informational statistic messages have been enabled.
Response: Run Explain on the above query for more information about this CHOOSE PLAN (ID: number).

RBS1460S  CHOOSE PLAN (ID: number) used Index index_name of Table table_name number times for STARjoin.

Cause:   Informational statistic messages have been enabled.
Response: Run Explain on the above query for more information about this CHOOSE PLAN (ID: number).

RBS1461S  CHOOSE PLAN (ID: number) TARGETjoin was done number times.

Cause:   Informational statistic messages have been enabled.
Response: Run Explain on the above query for more information about this CHOOSE PLAN (ID: number).

RBS1462I  SQL statement was rewritten to use one or more precomputed views.

Cause:   Informational statistic messages have been enabled.
Response: Run Explain on the associated query for more information about how this statement was rewritten and executed.

RBS1463I  REWRITTEN SQL:

Cause:   Informational statistic messages have been enabled.
Response: Run Explain on the associated query for more information about how this generated SQL was executed.
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RBS1464I  sqlchunk

Cause:  Informational statistic messages have been enabled.
Response:  Run Explain on the associated query for more information about how this generated SQL was executed.

RBS1465I  ** Error processing SQL message, line too long **

Cause:  Informational statistic messages have been enabled.
Response:  Run Explain on the associated query for more information about how this generated SQL was executed.

RBA1501F  Failed to create message queues. Operating System error number number

Cause:  An operating-system error occurred.
Response:  Check for lack of IPC resources on the machine.

RBA1504F  Fatal message queue operation on qid msgqid with errno errno.

Cause:  An error occurred during a message-queue send or receive system call.
Response:  This error indicates an unexpected error during msgsnd or msgrcv calls. Review the operating-system documentation for an explanation associated with the error number returned.

RBS1505S  Switching to full index scan mode for TARGET index idxname.

Cause:  Full statistic messages have been enabled. This message indicates that due to a high number of qualifying values, the system is switching its processing and is going to scan an entire TARGET index rather than probing multiple times into the index. This functionality is currently used only by the TargetJoin operator.

RBA1506F  The maximum limit of open file descriptors has been reached.

Cause:  There are several possible causes for this problem: too many spill file directories; a low file descriptors limit; a scan operation on a large table with many PSUs. This error occurs only on UNIX systems.
Response:  Increase file descriptors limit with the ulimit or unlimit command. The exact command depends on the operating system.
RBS1507S  Rejecting TARGETjoin choice due to excessive memory consumption.

Cause:   Full statistic messages have been enabled. This message indicates that a TARGETjoin plan choice was rejected because of the projected excessive amounts of virtual memory that the plan would require during query evaluation.

RBS1600F  Query failed because shared memory could not be allocated or attached.

Cause:   The query failed because it tried to use parallelism, but it was not possible to allocate or map sufficient shared memory to do so. Typically, this problem occurs because the available shared memory resources are insufficient. On many systems, these resources can be increased by altering the kernel tuning parameters.

Response: Ask your warehouse administrator to review the Red Brick Installation and Configuration Guide regarding kernel parameters for shared memory and adjust them if appropriate.

RBS1601E  The number of column names in a derived column list in a table reference must be equal to the number of columns in the table. Expected number column names, but found number.

Cause:   A query contained a derived column list in a table reference (either a table name or a derived table), and the number of columns in the list did not match the number of columns in the table.

Response: Add or remove columns as necessary so that the number of columns in the derived column list matches the number of columns in the table.

RBS1602E  The table table_name has more than one column named column_name.

Cause:   The query contained a joined table that contained two or more columns with the same name, and a qualified reference was made to the joined table.

Response: Change the names of the columns in the joined table either by using column aliases to change the names of the individual tables’ columns or by using a derived column list.
**RBS1603E** A derived column list contained duplicate declarations for the column *column_name*.

**Cause:** The query contained a query expression with a derived column list that contained duplicate declarations for the column indicated in the error message.

**Response:** Change the derived column list so that it does not contain duplicate names.

**RBS1604E** The column named *column_name* in a named-columns or natural join is found more than once in a joined table.

**Cause:** The query contained a query expression with a named-columns or natural join, and one of the tables participating in the join had duplicate column names. This situation can occur only when the join in question is joining one or more results of other joins.

**Response:** Either add column aliases to the input joins, or add derived column lists to the join expressions.

**RBS1605E** The column named *column_name* is not found in one of the joined tables.

**Cause:** The query contained a named-columns qualified join, and the column named *column_name* was not found in one of the tables.

**Response:** Make sure both tables have a column with the given name.

**RBS1606E** The column named *column_name* is not found in either of the joined tables.

**Cause:** The query contained a qualified join with an ON clause. The column named in the message was not found in either table being joined.

**Response:** Fix the naming problem and submit the query again.

**RBS1607E** The reference to *column_name* is ambiguous.

**Cause:** The query contained a qualified join with an ON clause, and the column indicated in the message was found more than once in the tables being joined.

**Response:** Fix the naming problem and submit the query again.
RBS1608E  The table \texttt{table\_name} is not a table participating in the join.

\textbf{Cause:} The query contained a qualified join with an ON clause, and the table indicated was present in the FROM clause, but did not participate in the join containing the ON clause.

\textbf{Response:} Fix the naming problem and submit the query again.

RBS1609E  An outer join search condition does not compare values from two tables.

\textbf{Cause:} An outer join search condition in an ON clause must consist of equality predicates comparing values from two tables in the outer join, and multiple predicates must be related by a logical AND operator.

\textbf{Response:} Fix the search condition and submit the query again.

RBS1610E  An outer join search condition contains predicates related by a logical OR.

\textbf{Cause:} An outer join search condition in an ON clause must consist of equality predicates comparing values from two tables in the outer join, and multiple predicates must be related by a logical AND operator.

\textbf{Response:} Fix the search condition and submit the query again.

RBS1611E  An outer join search condition contains a non-equality predicate.

\textbf{Cause:} An outer join search condition in an ON clause must consist of equality predicates comparing values from two tables in the outer join, and multiple predicates must be related by a logical AND operator.

\textbf{Response:} Fix the search condition and submit the query again.

RBS1612E  The query requires a cross join, but the cross join option is not enabled.

\textbf{Cause:} This query requires cross-join processing, either because it must compute the Cartesian product of the tables or because it is a non-equi join that lacks an index on one of the joining columns.

\textbf{Response:} To enable cross-join processing, set the \texttt{OPTION CROSS\_JOIN} parameter to \texttt{ON}, and submit the query again.
RBS1613E  The key of a TARGET index cannot contain more than one column.

Cause: More than one column name was specified for the key of a TARGET index. The key for a TARGET index must be a single column.

Response: Remove all but one column name from the specification of the index key.

RBL1614E  Offline load terminated because INDEX_TEMPSPACE MAXSPILLSIZE has been exceeded. Table table_name.

Cause: A LOAD operation into an offline segment exceeded the INDEX_TEMPSPACE MAXSPILLSIZE constraint.

Response: Increase the INDEX_TEMPSPACE MAXSPILLSIZE and run the LOAD operation again.

RBS1615E  A column in the select list may be referenced at most once in a RESET BY specification.

Cause: A complex RESET <RISQL reference list> BY clause contained more than one reference to the same select list column in the RISQL reference list.

Response: Remove duplicate references from all RISQL references in the RESET BY specification.

RBS1616E  Views may not contain an ORDER BY clause.

Cause: A query expression in a CREATE VIEW statement contained an ORDER BY clause. ORDER BY clauses are not allowed in query expressions in CREATE VIEW statements.

Response: Remove the ORDER BY clause from the query expression.

RBS1617E  Referential integrity is violated for the proposed constraint.

Cause: At least one row in the referencing table has a foreign key value that has no corresponding primary key value in the referenced table.

Response: Referential integrity must exist before the constraint can be added. Either the offending row(s) must be dropped from the referencing table or the corresponding rows must be added to the referenced table before the constraint can be added.
RBS1618E  No B-tree index exists on the primary key of the referenced table

Cause: Referential integrity cannot be checked unless a B-TREE index exists on the primary key of the referenced table.

Response: Create a B-TREE index on the primary key of the referenced table before adding the constraint.

RBS1619E  Feature is not supported in current version of Red Brick Warehouse: 'string'.

Cause: This version of Red Brick Warehouse does not support the indicated feature, which is required to process the statement submitted.

Response: Contact the warehouse administrator to determine whether you are using the current version of Red Brick Warehouse, and, if not, whether the most current version supports this feature. If the desired feature is supported in a more current version, consider upgrading to the more recent version. Also consider whether you can accomplish the task without the feature. If you believe this message was received in error, contact the Red Brick Customer Support Center.

RBS1620E  A referential integrity cycle would be introduced by the new constraint.

Cause: Referential integrity cycles are not allowed in Red Brick Warehouse. A referential integrity cycle is created when tables contain cyclic foreign key references. For example, if table A contains a foreign key reference to table B, table B contains a foreign key reference to table C, and table C contains a foreign key reference to table A, this schema constitutes a referential integrity cycle. You cannot alter a table by adding a foreign key constraint that would create a referential integrity cycle.

Response: After you drop any constraint in the cycle, you can submit the ALTER TABLE statement again.

RBS1621E  Primary key constraint 'constraint_name' cannot be dropped.

Cause: The constraint name provided for the DROP CONSTRAINT statement is a primary key constraint. Primary key constraints cannot be dropped.
RBS1622E One or more STAR indexes exist on constraint 'constraint_name'.

Cause: STAR indexes can be built only upon foreign key constraints. Therefore, a constraint cannot be dropped if a STAR index is built upon it.

Response: Drop any dependent STAR indexes before you drop the constraint.

RBS1623E Named constraint 'constraint_name' does not exist for table 'table_name'.

Cause: The constraint named in the ALTER TABLE...DROP CONSTRAINT statement either does not exist or does not belong to the named table.

RBS1624E An ALTER TABLE RESUME was requested for an ALTER TABLE ADD CONSTRAINT operation on table 'table_name'.

Cause: The ALTER TABLE RESUME statement is valid only for ALTER TABLE...ADD/DROP COLUMN.

Response: Use the RESET option for a failed ALTER TABLE...ADD CONSTRAINT operation.

RBS1625E Possible data integrity error; row number number in segment 'segment_name' in table 'table_name' has been deleted.

Cause: The query referenced a row that no longer exists. This situation indicates an inconsistency in the database. Possible causes are the use of the OVERRIDE REFCHECK clause in an ALTER SEGMENT, DELETE, or TMU REORG statement, or an internal error in the server.

Response: Contact the Red Brick Customer Support Center.

RBS1626E CONCAT function result length number is greater than the maximum allowed length of number.

Cause: The CONCAT function result length is the sum of the lengths of its arguments and it has exceeded the maximum length allowed for a string value.

Response: Correct the statement either by using SUBSTR on the arguments to remove extra characters or by providing fewer arguments to the CONCAT function.
RBS1628E  Outer joins that require cross joins are not supported.
Cause: The OUTER JOIN operation is not supported when a CROSS JOIN is required to compute the outer join.
Response: Rewrite the outer join to eliminate the need for a cross join operation.

RBA1650E  Cannot complete operation because index 'index_name' on table 'table_name' is invalid.
Cause: A requested operation could not be completed because the indicated required index on the indicated table is marked “invalid.”
Response: Perform a TMU REORG operation for the invalid index and then submit the request again.

RBS1651E  Argument of TYPENAME function may not be a dynamic parameter.
Cause: A PREPARE statement contained a dynamic marker as the argument of a TYPENAME function.
Response: Remove the TYPENAME function and submit the statement again.

RBS1652E  Cannot insert or update table_name because referenced table table_name does not have a primary key index.
Cause: An INSERT or UPDATE operation performs referential integrity by using the primary key index of the referenced tables. Although the primary key index is automatically created with the table, it can be explicitly dropped. If it were dropped, an INSERT or UPDATE operation on the referencing table would result in this error message.
Response: Create the primary key index on the referenced table and then submit the INSERT or UPDATE statement again.

RBA1653E  Unable to spill any more data into temporary space file 'file_name'. Current size number.0f bytes (number rows).

RBS1654E  Cannot modify RBW_SEGID, RBW_SEGNAME or RBW_ROWNUM columns in an INSERT or UPDATE statement.
Cause: An INSERT or UPDATE statement referenced RBW_SEGID, RBW_SEGNAME or RBW_ROWNUM as a column to be modified.
Response: Remove the reference to the RBW_SEGID, RBW_SEGNAME, or RBW_ROWNUM column, and submit the statement again.
RBS1655E Tables may not contain columns named RBW_SEGID, RBW_ROWNUM or RBW_SEGNAME.

Cause: A CREATE TABLE statement attempted to create a column named RBW_SEGID, RBW_ROWNUM or RBW_SEGNAME. These names are reserved and cannot be used in user-defined tables.

Response: Use another column name and submit the statement again.

RBS1656E Cannot execute join operation due to resource limitations.

Cause: A join of two tables using the hash-join algorithm (HASH_1_1_MATCH) could not be completed because of resource limitations.

Response: Increase the amount of resources available for the query and run the query. Use a SET QUERY MEMORY LIMIT command to increase the amount of memory available for the query.

RBS1657E Outer joins may not be specified in the HAVING or WHEN clauses.

Cause: An outer join predicate was found in a HAVING or WHEN clause.

Response: Remove the join specification from the appropriate clause and submit the query again.

RBS1658E Outer joins in the WHERE clause may only join columns from views or base tables.

Cause: An outer join predicate in a WHERE clause contained references to columns that were not columns from a view or a base table (or synonym of a base table).

Response: Remove or alter the offending predicate and submit the query again.

RBS1659E Outer joins in the WHERE clause may only join tables that are not joined in the FROM clause.

Cause: An outer join predicate in a WHERE clause joined tables in the FROM clause that were not themselves base tables or views. Joins of this type are not allowed.

Response: Remove or alter the offending predicate and submit the query again.
RBS1660E  The WHERE clause contains conflicting outer join predicates.

Cause: An outer join predicate in a WHERE clause joined tables in conflicting ways. The WHERE clause contained both a left- and right-outer join for the same two tables.

Response: Remove or alter the offending predicates and submit the query again.

RBA1661E  This utility must be run as UNIX user name.

Cause: The current utility was run by a user other than the defined UNIX administration user (the “redbrick” user).

Response: Login in as the correct user and try the utility again.

RBA1662E  The WHERE clause uses a NOT operator on an outer join predicate.

Cause: The operand of a NOT operator contains an outer join predicate in a WHERE clause.

Response: Remove or alter the offending predicates and submit the query again.

RBS1663E  Possible data integrity error; row number number in segment 'segment_name' in table 'table_name' references a missing row.

Cause: A row to be deleted references a row that no longer exists, which indicates an inconsistency in the database. Possible causes are the use of the OVERRIDE REFCHECK clause in an ALTER SEGMENT, DELETE, or TMU REORG statement or an internal error in the server.

Response: Contact the Red Brick Customer Support Center.

RBS1664E  A query used in an INSERT statement may not contain BREAK BY.

Cause: The BREAK BY clause was specified on the query that was used as the source of data for the INSERT statement.

Response: Correct the error and submit the command again.
RBS1665E  Cannot detach or clear data segment segment_name because index segment segment_name is not identically segmented.

Cause:  An ALTER SEGMENT...DETACH/CLEAR OVERRIDE FULLINDEXCHECK ON SEGMENTS statement has been submitted; however, the range of the index segment specified is not identical to the data segment range. This DETACH/CLEAR operation is allowed only on data and index segments that have been identically segmented on the same segmenting column.

Response:  Ensure that the indicated data and index segments are segmented on the same column and that the data and index segment ranges correspond, and then submit the command again.

RBS1666E  Cannot detach or clear data segment segment_name because segment segment_name does not belong to an index.

Cause:  An ALTER SEGMENT...DETACH/CLEAR OVERRIDE FULLINDEXCHECK ON SEGMENTS statement has been submitted; however, the indicated segment does not belong to an index.

Response:  Submit the command again with a segment that belongs to the index.

RBS1667E  Cannot insert default value NULL into column_name of table table_name because column cannot contain NULL.

Cause:  An attempt was made to insert a row into a table, but no value was specified for a column that has no default value and cannot contain NULL. The normal behavior is to insert NULL into a column that has no default value; if, however, the column cannot contain NULL, then this error is issued.

Response:  Provide a valid value for this column and submit the command again.
RBS1668W  Rows not updated due to disallowed row relocation: number.

Cause: A multiple-segment table was referenced by a STAR index and an SQL UPDATE command attempted to move a row from one segment to another segment. This can happen when a table is segmented by values and the segmenting column is updated. Moving the data row would have invalidated the STAR index.

Response: Drop any STAR index that references the table to be updated. Alternatively, do not update the segmenting column with a value that would cause the data to move to a different segment.

RBL1669W  Row not updated due to disallowed row relocation: Table table_name row number.

Cause: A multiple-segment table was referenced by a STAR index and a load operation in UPDATE or MODIFY mode attempted to move a row from one segment to another segment. This can happen when a table is segmented by values and the segmenting column is updated. Moving the data row would have invalidated the STAR index.

Response: Drop any STAR index that references the table to be updated. Alternatively, do not update the segmenting column with a value that would cause the data to move to a different segment.

RBS1670E  The combined length of column name name and its data length length is greater than the limit of limit.

Cause: Various internal model indexes use the concatenation of the model column name with the character value for that column. The combined length of this index key must not be greater than the limit specified in the message.

Response: Either shorten the column name or the defined length of the character column so that the combined length is less than the limit.

RBS1671E  ALTER MODEL must reference a model.

Cause: The ALTER MODEL statement specified a synonym, view, user table, model subtable or system table. Only model tables can be altered.

Response: Correct the statement to reference a model table.
RBS1672W  Invalid percentage (number): maximum percentage of non-block cache memory allocated to each bit vector sort must be in range 0 to 100.

Cause: Option BIT_VECTOR_SORT_PERCENT specified with incorrect value.

Response: Specify option with value in range 0 to 100.

RBS1673E  Query reached result buffer size and full action was set to abort.

Cause: The SET RESULT FULL ACTION ABORT command was used in conjunction with the SET RESULT BUFFER <size> command to indicate that the server should abort when the client has fallen behind on retrieving data from the server. This prevents a paused or stalled client from holding resources in the database.

Response: Either increase the result buffer size, change the full action to pause.

RBS1674E  Cannot insert into table table_name because there is no index on the primary key.

Cause: The index on the primary key of the specified table has been dropped. The INSERT command requires that a B-TREE or STAR index be defined on the primary key of the table into which rows are being inserted.

Response: Issue a CREATE INDEX statement to define an index on the primary key columns of the designated table.

RBS1675W  Unable to open graph file.

Cause: File open returned null file.

Response: Check authorization of executable, graph file directory, or existing graph file.

RBR1676F  Invalid port number in SERVER specification :server_spec

Cause: The port number specified in the SERVER specification is invalid.

Response: Specify a valid port number and submit the command again.
RBR1677F  rbw.config file not found in RB_CONFIG dir dir_name

Cause: A configuration file was not found in RB_CONFIG directory.
Response: Make sure the file exists in the directory referenced by $RB_CONFIG.

RBR1678F  Error getting host name. OS Error errno

Cause: There was an error getting a host name for the machine.
Response: Contact system administrator to make sure machine has a host name.

RBS1679E  UPDATE table_name failed because the rows are too large to update.

Cause: The rows in the table are too wide to update with the SQL UPDATE command.
Response: Create a smaller table by reducing the width of one or more columns.

RBS1680E  CREATE TABLE failed because the rows are too large to update.

Cause: The rows in the table are too wide to update with the SQL UPDATE command.
Response: Create a smaller table by reducing the width of one or more columns.

RBS1681I  Reached rewrite-traversal limit during transitive closure.

Cause: The expression was too complicated or the limit was too low to complete the transitive closure.
Response: This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

RBS1682I  Reached rewrite-traversal-inside-ORs limit during transitive closure.

Cause: The expression was too complicated or the limit was too low to complete the transitive closure.
Response: This is expected behavior. The limit prevents excessive compilation time without affecting query performance.
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**RBS1683I** Reached rewrites limit during transitive closure.

**Cause:** The expression was too complicated or the limit was too low to complete the transitive closure.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

**RBS1684I** Reached rewrite-traversal limit during CNF conversion.

**Cause:** The expression was too complicated or the limit was too low to complete the CNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

**RBS1685I** Reached rewrite-traversal-inside-ORs limit during CNF conversion.

**Cause:** The expression was too complicated or the limit was too low to complete the CNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

**RBS1686I** Reached rewrites limit during CNF conversion.

**Cause:** The expression was too complicated or the limit was too low to complete the CNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

**RBS1687I** Reached rewrite-traversal limit during DNF conversion.

**Cause:** The expression was too complicated or the limit was too low to complete the DNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.

**RBS1688I** Reached rewrite-traversal-inside-ORs limit during DNF conversion.

**Cause:** The expression was too complicated or the limit was too low to complete the DNF conversion.

**Response:** This is expected behavior. The limit prevents excessive compilation time without affecting query performance.
<table>
<thead>
<tr>
<th>Message ID</th>
<th>Description</th>
<th>Cause</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>RBS1689I</td>
<td>Reached rewrites limit during DNF conversion.</td>
<td>The expression was too complicated or the limit was too low to complete the DNF conversion.</td>
<td>This is expected behavior. The limit prevents excessive compilation time without affecting query performance.</td>
</tr>
<tr>
<td>RBS1690I</td>
<td>Reached rewrite-traversal limit during expression-rewriting.</td>
<td>The expression was too complicated or the limit was too low to complete the expression rewriting.</td>
<td>This is expected behavior. The limit prevents excessive compilation time without affecting query performance.</td>
</tr>
<tr>
<td>RBS1691I</td>
<td>Reached rewrite-traversal-inside-ORs-limit during expression-rewriting.</td>
<td>The expression was too complicated or the limit was too low to complete the expression rewriting.</td>
<td>This is expected behavior. The limit prevents excessive compilation time without affecting query performance.</td>
</tr>
<tr>
<td>RBS1692I</td>
<td>Reached rewrites limit during expression-rewriting.</td>
<td>The expression was too complicated or the limit was too low to complete the expression rewriting.</td>
<td>This is expected behavior. The limit prevents excessive compilation time without affecting query performance.</td>
</tr>
<tr>
<td>RBS1700I</td>
<td>Deleted all rows from table_name.</td>
<td>This message indicates that a DELETE operation from a model table has been completed successfully and that all rows have been deleted from the table.</td>
<td>None necessary.</td>
</tr>
<tr>
<td>RBS1701E</td>
<td>Name defined by CREATE MODEL already exists.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
RBS1702E  DROP MODEL must reference a base model.

Cause:  A DROP MODEL statement must refer to a base model name. The statement must not refer to a model sub-table or any other database object.

Response: Correct the reference in the statement and submit the DROP MODEL statement again.

RBS1703E  The model 'model_name' is not present in the database.

Cause:  A model related statement referred to a model that does not exist.

Response: Correct the name and submit the statement again.

RBS1704E  A locked model cannot be dropped.

Cause:  A model is locked by some other process.

Response: Ensure that no other process holds a lock on the model, and submit the DROP MODEL statement again.

RBS1705E  Operation cannot be completed because model is locked.

Cause:  A model is locked by some other process, preventing the operation from completing.

Response: Ensure that no other process holds a lock on the model, and attempt the operation again.

RBS1706E  Column attribute should be INPUT or OUTPUT.

Cause:  A column in a model must be designated as INPUT or OUTPUT.

RBS1707E  The operator should be INCL or INCLUSIVE for MIN range.

Cause:  A model CREATE or ALTER statement contained a mapped column definition with a reference to the MIN keyword, but the operator for this keyword was other than INCL or INCLUSIVE.

Response: Correct the CREATE or ALTER MODEL statement and submit again.
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RBS1708E  The operator should be INCL or INCLUSIVE for MAX range.

Cause: A model CREATE or ALTER statement contained a mapped column definition with a reference to the MAX keyword, but the operator for this keyword was other than INCL or INCLUSIVE.

Response: Correct the CREATE or ALTER MODEL statement and submit the statement again.

RBS1709E  Model sub-table identifier should be UNDERSTAND, PREDICT, or BINARY.

Cause: The identifier for a model subtable contained in a CREATE or ALTER MODEL statement was other than UNDERSTAND, PREDICT or BINARY.

Response: Correct the CREATE or ALTER MODEL statement and submit the statement again.

RBS1710E  The threshold value does not lie between 0 and 100.

Cause: The occurrence or discrimination threshold value for a model was not within the valid range of 0 and 100.

Response: Modify the threshold value and submit the statement again.

RBS1711E  The model sub-tables 'model_names' and 'model_names' are not in correct order.

Cause: A CREATE or ALTER MODEL statement contained model sub-table definitions, but they were not in the correct order.

Response: Correct the CREATE or ALTER MODEL statement and submit the statement again.

RBS1712E  The model sub-tables 'model_names', 'model_names' and 'model_names' are not in correct order.

Cause: A CREATE or ALTER MODEL statement contained model sub-table definitions, but they were not in the correct order.

Response: Correct the CREATE or ALTER MODEL statement and submit the statement again.
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**RBS1713E** The model sub-tables 'model_names', 'model_names', 'model_names' and 'model_names' are not in correct order.

**Cause:** A CREATE or ALTER MODEL statement contained model sub-table definitions, but they were not in the correct order.

**Response:** Correct the CREATE or ALTER MODEL statement and submit the statement again.

**RBS1714E** At least one model column must be an INPUT column.

**Cause:** No columns were designated as INPUT in the CREATE MODEL statement.

**Response:** Add a new column to the statement, designate it as an INPUT column, and submit the CREATE MODEL statement again.

**RBS1715E** Incorrect number of OUTPUT columns entered.

**Cause:** A model must have one, and only one, column designated as OUTPUT.

**RBS1716E** Mapping ranges not compatible with pre mapped data type.

**Cause:** A CREATE or ALTER MODEL statement contained one or more mapped column definitions in which the range definitions contain range values which are not compatible with the pre-mapped data type.

**Response:** Correct the CREATE or ALTER MODEL statement and submit the statement again.

**RBS1717E** Mapping ranges not compatible with post mapped data type.

**Cause:** A CREATE or ALTER MODEL statement contained one or more mapped column definitions in which the range definitions contain mapped values which are not compatible with the post-mapped data type.

**Response:** Correct the CREATE or ALTER MODEL statement and submit the statement again.
RBS1718E  Mapping out_val not compatible with post mapped data type.

Cause: A CREATE or ALTER MODEL statement contained a mapped column definition in which the range definition contains an out_val definition which is not compatible with the post-mapped data type.

Response: Correct the CREATE or ALTER MODEL statement and submit the statement again.

RBS1719E  The column 'column_name' is not present in the model.

Cause: A model-related statement referred to a column name which is not contained in the model.

Response: Correct the column reference and submit the statement again.

RBS1720E  The new column name 'column_name' already exists in the model.

Cause: A new column definition in an ALTER MODEL statement contains a name which already exists in the model.

Response: Correct the ALTER MODEL statement and submit the statement again.

RBS1721E  Mapping ranges min_val greater than max_val.

Cause: A mapping ranges definition in a CREATE or ALTER MODEL statement contained a range min_val greater than the corresponding range max_val.

Response: Correct the CREATE or ALTER model statement and submit the statement again.

RBS1722E  Mapping ranges min_val cannot be MAX.

Cause: A mapping ranges definition in a CREATE or ALTER MODEL statement contained a range min_val definition of MAX.

Response: Correct the CREATE or ALTER MODEL statement and submit the statement again.

RBS1723E  Mapping ranges max_val cannot be MIN.

Cause: A mapping ranges definition in a CREATE or ALTER MODEL statement contained a range max_val definition of MIN.

Response: Correct the CREATE or ALTER MODEL statement and submit the statement again.
**RBS1724E** DELETE is not allowed on a model sub-table.

**Cause:** An attempt was made to delete rows from a sub-table of a model. A DELETE operation is allowed only on the model table. It is not allowed on any of the sub-tables.

**Response:** To remove all the rows from a model, use the model name with the DELETE statement.

**RBS1725E** A WHERE clause is not allowed when deleting from a model.

**Cause:** An attempt was made to delete a subset of the rows in a model by specifying a WHERE clause. This is not allowed. The only delete action that is allowed on a model is to delete all of the rows.

**Response:** Remove the WHERE clause and rerun the statement in order to delete all the rows from the model.

**RBS1726E** LOCK is not allowed on a model sub-table.

**Cause:** An attempt was made to explicitly lock a sub-table of a model. A LOCK operation is allowed only on the model table. It is not allowed on any of the sub-tables. When the model table is locked, all its sub-tables are also locked.

**Response:** Issue the LOCK statement specifying the model name.

**RBS1727E** A model table cannot be locked with the FOR DELETE option.

**Cause:** A LOCK statement with the FOR DELETE clause was issued on a model table. This clause applies only to base tables. It cannot be specified for model tables.

**Response:** Remove the FOR DELETE clause and submit the statement again.

**RBS1728E** INSERT is not allowed on a model sub-table.

**Cause:** An attempt was made to insert rows into a sub-table of a model. Insert is only allowed on the model table. It is not allowed on any of the sub-tables.

**Response:** To add rows to a model, use the model name with the INSERT statement.
RBS1729E Columns cannot be renamed, dropped, or added to the model 'model_name' as rows already exist.

Cause: An attempt was made to rename, add or drop columns from a model after rows have been inserted into the model.

Response: Delete all rows from the model and submit the statement again.

RBS1730E Since the type for model column 'col_name' is mapped using MAPPING TO, a range or set of ranges must be provided.

Cause: The data type for the model column is mapped to a different type but the corresponding MAPPING RANGES clause was not provided.

Response: Add a MAPPING RANGES clause to the column definition and submit the statement again.

RBS1731E The SELECT and UPDATE privileges may not be granted or revoked on a table of type model.

Cause: A GRANT or REVOKE statement attempted to GRANT or REVOKE the SELECT or UPDATE privilege on a table of type model. A table of type model cannot be the target of a GRANT or REVOKE statement with SELECT or UPDATE privileges, since a table of type model cannot be the target of a SELECT or UPDATE statement.

Response: Remove the SELECT or UPDATE privilege from the GRANT or REVOKE statement and submit the statement again.

RBS1732E The INSERT, UPDATE and DELETE privileges may not be granted or revoked on a model sub-table.

Cause: A GRANT or REVOKE statement attempted to GRANT or REVOKE one or more of the INSERT, UPDATE or DELETE privileges on a model sub-table. The INSERT, UPDATE and DELETE privileges are not allowed on model sub-tables, since model sub-tables cannot be the target of INSERT, UPDATE or DELETE statements.

Response: Remove the INSERT, UPDATE, or DELETE privilege from the GRANT or REVOKE statement and submit the statement again.
**Informational, Warning, and Error Messages**

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RBS1733E  SELECT and UPDATE operations are not allowed on a model.

**Cause:** An attempt was made to select or update rows from a model. A SELECT operation is allowed only on the model sub-tables. It is not allowed on the model itself. An UPDATE operation is not allowed on the model or its sub-tables.

**Response:** To retrieve results from a model, issue a SELECT statement on the appropriate model sub-table.

RBS1734E  A MAPPING RANGES clause is missing.

**Cause:** The MAPPING RANGES clause is required if a column in a model includes data type mapping.

**Response:** Add the appropriate MAPPING RANGES clause to the column definition and submit the statement again.

RBS1735I  Data mining library version major, minor, patch, build.

**Response:** This is for internal use only.

RBS1736E  MAPPING RANGES AS values must be unique for column colname

**Cause:** The AS values for one or more entries in the MAPPING RANGES clause for a column must be unique.

**Response:** Modify the MAPPING RANGES entries for the indicated column to ensure that each value after the AS keyword is unique.

RBS1737E  Constraints on the Predict sub-table pre-mapped input columns must be simple constraints; constraints are not allowed on the Predict sub-table pre-mapped output columns.

**Cause:** The Predict sub-table pre-mapped input columns must be constrained using simple constraint processing, but the query is too complex for that, or a constraint was supplied for an output pre-mapped column.

**Response:** Reduce the complexity of the query so that the Predict sub-table pre-mapped input columns can be constrained with simple constraints. If this error was encountered because of a constraint applied to an output pre-mapped column, remove the constraint on the output pre-mapped column, or change the constraint so that it references the output post-mapped column.
RBS1738E  MAPPING RANGES cannot overlap for output columns.

Cause: Two or more ranges in the mapping ranges clause for the model output column overlap.

Response: Modify the MAPPING RANGES entries for the output column to ensure that no ranges overlap.

RBA1800E  Locale value locale_string contains an invalid language specification.

Cause: The locale setting contains an invalid language specification. Locale strings have the format [language]_[territory].[codepage]@[sort] and do not contain blanks.

Response: Correct the error and submit the command again.

RBA1801E  Locale value locale_string contains an invalid territory specification.

Cause: The locale setting contains an invalid territory specification. Locale strings have the format [language]_[territory].[codepage]@[sort] and do not contain blanks.

Response: Correct the error and submit the command again.

RBA1802E  Locale value locale_string contains an invalid code page specification.

Cause: The locale setting contains an invalid code page specification. Locale strings have the format [language]_[territory].[codepage]@[sort] and do not contain blanks.

Response: Correct the error and submit the command again.

RBA1803E  Locale value locale_string contains an invalid sort specification.

Cause: The locale setting contains an invalid sort specification. Locale strings have the format [language]_[territory].[codepage]@[sort] and do not contain blanks.

Response: Correct the error and submit the command again.
**RBL1804E** RADIX POINT 'string' does not contain exactly one character.

**Cause:** The RADIX POINT specification can only be a single character.

**Response:** Correct the error and submit the command again.

**RBL1805E** RADIX POINT 'character' cannot be the same as the SEPARATED BY character.

**Cause:** The RADIX POINT character must be different from the SEPARATED BY specification.

**Response:** Correct the error and submit the command again.

**RBL1806E** SUBSTR arguments must be greater than zero.

**Cause:** The SUBSTR function in the TMU takes two positive integers as arguments. The first argument indicates the starting position and the second indicates the maximum length of the string.

**Response:** Correct the error and submit the command again.

**RBL1807E** Locale mismatch between database and restore input.

**Cause:** An attempt was made to restore data from one locale into a database that has been created in a different locale.

**Response:** Restore the data into a database that has been created with the same locale.

**RBS1808W** Client locale locale_string contains a sort specification that is incompatible with the database locale locale_string. The client sort specification will be ignored.

**Cause:** The sort specification in the client locale is different from the database sort specification and will be ignored.

**Response:** None necessary.
RBA1809E  Only one single-byte character is allowed.

Cause:  A multi-byte character or a set of characters were specified where it is only acceptable to have one, single-byte character. Examples include the FILL and UNDERLINE characters.

Response: Use only one single-byte character for the character.

RBS1810W  Expected format for datetime values 'string'

Cause:  A datetime value did not match the expected format. This message will be followed by message 194 or 195, which will show the value that did not match the expected format. The characters in the format string have the following meaning:

- %a  Abbreviated weekday name
- %A  Full weekday name
- %b  Abbreviated month name
- %B  Full month name
- %d  Day of month as a decimal number (01-31)
- %H  Hour in 24-hour format (00-23)
- %I  Hour in 12-hour format (01-12)
- %j  Day of year as a decimal number (001-366)
- %m  Month as decimal number (01-12)
- %M  Minute as decimal number (00-59)
- %p  Current locale’s A.M./P.M. indicator for 12 hour clock
- %s  Second as decimal number (00-59)
- %U  Week of year as decimal number, with Sunday as first day of week (00-51)
- %w  Weekday as decimal number (0-6; Sunday is 0)
- %W  Week of year as decimal number, with Monday as first day of week (00-51)
- %y  Year without century, as decimal number (00-99)
- %Y  Year with century, as decimal number

Response: Correct the value and submit the statement again.

RBA1899I  Database created using locale 'locale_name'.

Cause:  An empty database was created that will use the indicated locale for all database operations.

Response: None.
RBS1900E  Precomputed view definitions must use valid syntax.

Cause: The precomputed view definition contains a syntax error. For the syntax definition of a precomputed view, refer to the SQL Reference Guide.

Response: Correct the SQL statement and submit it again.

RBS1901E  The query expression for the precomputed view is invalid.

Cause: Query expressions used in precomputed views are restricted. For example, they cannot contain UNION, INTERSECT, or EXCEPT operators or HAVING or WHEN clauses. For the syntax definition of a precomputed view, refer to the SQL Reference Guide.

Response: Correct the SQL statement and submit it again.

RBS1902E  The FROM clause for the precomputed view is invalid.

Cause: The FROM clause can only contain a list of base table names, synonym names, and aliases. System table names, view names, and precomputed view table names are not allowed.

Response: Correct the SQL statement and submit it again.

RBS1903E  The WHERE clause for the precomputed view is invalid.

Cause: The WHERE clause contained predicates other than primary key/foreign key join predicates.

Response: Correct the SQL statement and submit it again.

RBS1904E  Precomputed views are not allowed on system tables.

Cause: The SET command referenced a system table instead of a base table.

Response: Correct the command and submit it again.

RBS1905E  The aggregate table does not exist or is invalid.

Cause: The table listed in the USING clause either does not exist or is not a base table. Views, synonyms, system tables, and model tables are not allowed.

Response: Correct the SQL statement and submit it again.
RBS1906E  The aggregate table already has a precomputed view definition.

Cause: The table listed in the USING clause already has a precomputed view definition. Each table can only have a single precomputed view definition.

Response: Supply a different table name in the USING clause and submit the statement again.

RBS1907E  Synonyms cannot be specified for the aggregate table.

Cause: The table named in the USING clause is a synonym. Precomputed view data cannot be stored in synonyms.

Response: Use the base table name instead of the synonym and submit the statement again.

RBS1908E  The view/table column mapping is invalid for the precomputed view.

Cause: The number of columns in the view does not match the number of columns specified for the aggregate table.

Response: Use the same number of columns for the view and in the precomputed view table column list and submit the statement again.

RBS1909E  A column name listed in the USING clause is invalid.

Cause: Either a column name listed in the USING clause does not exist for the aggregate table, or else a valid column name was specified twice.

Response: Correct the SQL statement and submit it again.

RBS1910E  The select list contains an invalid expression.

Cause: Expressions in the select list of a precomputed view definition must be grouping columns or aggregate expressions. Supported aggregate expressions are SUM(), COUNT(), MIN(), MAX(), and COUNT(DISTINCT()).

Response: Remove or modify the invalid expressions and submit the statement again.
**Informational, Warning, and Error Messages**

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**RBS1911E** The HAVING clause is not allowed in a precomputed view definition.

Cause: A query expression in a precomputed definition view cannot contain a HAVING clause.

Response: Remove the HAVING clause and submit the statement again.

**RBS1912E** The WHEN clause is not allowed in a precomputed view definition.

Cause: A query expression in a precomputed view definition cannot contain a WHEN clause.

Response: Remove the WHEN clause and submit the statement again.

**RBS1913E** The FROM clause contains the table (or synonym for the table) listed in the USING clause.

Cause: The table listed in the USING clause appears either directly or indirectly (as a synonym) in the FROM clause. The precomputed view associated with a table cannot reference that table.

Response: Provide a different table name in the USING clause and submit the statement again.

**RBS1914E** Hierarchy name already exists.

Cause: Each hierarchy definition must have a unique hierarchy name. The specified hierarchy name conflicts with an existing hierarchy name.

Response: Provide a unique hierarchy name and submit the statement again.

**RBS1915E** Table name does not exist.

Cause: The named table in the hierarchy definition does not exist.

Response: Correct the SQL statement and submit it again.

**RBS1916E** Column colname does not exist for table tablename.

Cause: The named column does not exist in the table named in the hierarchy definition.

Response: Correct the SQL statement and submit it again.
RBS1917E  Constraint colname is not a valid foreign key constraint from table tname1 to table tname2.

Cause: The named constraint is not a foreign key of the table named in the FROM clause, or it is not related to the primary key of the table in the TO clause.

Response: Correct the SQL statement and submit it again.

RBS1918E  An explicit foreign key must be named from table tname1 to table tname2.

Cause: No foreign key constraint was defined in a hierarchy relationship, and multiple primary key/foreign key relationships exist between the two tables.

Response: Specify a foreign key constraint name in the ON clause of the CREATE HIERARCHY statement and submit the statement again.

RBS1919E  No foreign key to primary key relationship is defined from table tname1 to table tname2.

Cause: A foreign key to primary key relationship does not exist between the two tables listed in the hierarchy definition.

Response: Correct the SQL statement and submit it again.

RBS1920E  Hierarchy name1 does not exist.

Cause: The hierarchy to be dropped does not exist.

Response: Correct the hierarchy name and submit the statement again.

RBS1921E  Constraint tname cannot be dropped because hierarchy hname is defined on it.

Cause: The constraint to be dropped had a hierarchy definition defined on it. A constraint cannot be dropped if any hierarchies are defined on it.

Response: Drop any hierarchies defined on the constraint and submit the statement again.

RBS1922I  Hierarchy hname

Cause: This message is always preceded by message number 672. For more information, refer to message 672. It is followed by message 674.

Response: Drop the hierarchy and submit the statement again.
Informational, Warning, and Error Messages

RBS1923E  Table tname cannot be dropped because hierarchy hname is defined on it.

Cause:   The table to be dropped has a hierarchy defined on it or on one of its synonyms.

Response:  Drop any hierarchies defined on the table and submit the statement again.

RBS1924E  Table name1 is not a base table name.

Cause:   Hierarchies cannot be defined on views.

Response:  Correct the hierarchy definition and submit the statement again.

RBS1925E  Hierarchy name1 cannot be created because it would introduce a cyclical functional dependency.

Cause:   The proposed hierarchy would have created a cyclical functional dependency. For example, columns and tables already specified in the FROM and TO clauses of one hierarchy relationship cannot be used to specify a dependency in the opposite direction in another relationship.

Response:  Correct the hierarchy definition and submit the statement again.

RBS1926E  The aggregate table appears in an existing precomputed view definition.

Cause:   The table listed in the USING clause cannot appear in the definition of any existing precomputed view.

Response:  Supply a different table name in the USING clause and submit the statement again.

RBS1927E  View viewname is not an existing precomputed view.

Cause:   The view named in the statement does not exist or is not a precomputed view.

Response:  Provide an existing precomputed view name and submit the statement again.

RBS1928W  Query was executed using one or more invalid precomputed views.

Cause:   Either a query was rewritten to use views that are marked invalid, or else the Advisor cost analysis was made using views that are marked invalid.
RBS1929E  Sample view viewname is not compatible with detail table tablename

Cause: Either the number of columns in the sample view was different from the number of columns in the detail table, or else their column types were different.

Response: Modify the sample view and submit the statement again.

RBS1930E  Datatypes of related columns in the view (tname1.cname1, datatype dt1) and table (tname2.cname2, datatype dt2) are not compatible.

Cause: The datatype of the view column is not compatible with the datatype of its related table column. For example, a column of type INT cannot be related to a column of type CHARACTER.

Response: Provide compatible columns from the table in the USING clause and submit the statement again.

RBS1931W  Datatypes of related columns in the view (tname1.cname1, datatype dt1) and table (tname2.cname2, datatype dt2) might cause precision loss, overflow, or underflow.

Cause: The columns in the view have more precision and/or range than the columns listed for the table in the USING clause. This could result in precision loss, overflow, or underflow.

Response: Provide compatible columns from the table in the USING clause and submit the statement again.

RBA1932W  The precomputed view viewname has been marked invalid.

Cause: A table has been updated via an INSERT, DELETE, UPDATE, or load operation thus invalidating all the precomputed views defined on the table.

Response: Update the precomputed tables to match the new data in the detail table. After the precomputed tables have been updated to match the data in the detail table, you can then mark the precomputed views valid with either the SET PRECOMPUTED VIEW <view_name> VALID command or the SET PRECOMPUTED VIEWS FOR <detailtable_name> VALID command.
Informational, Warning, and Error Messages
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RBS1950E  No Advisor log file is available to process this query.
  Cause:   An attempt was made to query the Advisor log file.
  Response: Enable Advisor query logging.

RBS1951E  Only one predicate on column colname is allowed per query.
  Cause:   When an Advisor system table is queried, some columns can have
           only a single predicate placed upon them. More than one predicate
           was provided on the column in this query.
  Response: Correct the Advisor query and submit the statement again.

RBS1952E  WHERE clause expressions in queries against the Advisor
           system tables must be conjunctive.
  Cause:   A query against an Advisor system table contained at least one
           disjunctive expression.
  Response: Correct the Advisor query and submit the statement again.

RBS1953E  Insufficient authority to SELECT from Advisor system
           tables.
  Cause:   The user who issued the SELECT statement did not have the
           required authority. To select data from an Advisor system table, a
           user must have ACCESSADVINFO authority or be a member of
           the DBA system role.
  Response: Notify the warehouse administrator and request the required
           authority.

RBS1954E  The WHERE clause constraint against column column_name must
           be an equality constraint.
  Cause:   The WHERE clause expression that referenced the column did not
           apply an equality constraint.
  Response: Correct the Advisor query and submit the statement again.

RBS1955E  Column column_name cannot appear in WHERE clause of an
           advisor query.
  Cause:   When an Advisor system table is queried, some columns cannot
           appear in the WHERE clause. The predicate in this query included
           one of these columns.
  Response: Correct the Advisor query and submit the statement again.
RBS1956E  Advisor system table table_name cannot appear in a query with another table.

**Cause:** When an Advisor system table is queried, additional tables cannot be included in the same query. The Advisor query included more than one table.

**Response:** Correct the Advisor query and submit the statement again.

RBS1957E  One or more predicates in the Advisor query is invalid.

**Cause:** When an Advisor system table is queried, only certain predicates are allowed. These predicates include an equality predicate on DETAIL_TABLE_NAME (which is required), an equality predicate on START_DATE and/or END_DATE, as well as some specific predicates available for each individual Advisor system table. One or more predicates in the query were invalid. For more information about querying these tables, refer to the *Red Brick Vista User’s Guide*.

**Response:** Correct the Advisor query and submit the statement again.

RBS1958E  Column colname cannot be equated to NULL.

**Cause:** When an Advisor system table is queried, certain columns in the WHERE clause cannot be equated to NULL. These columns are DETAIL_TABLE_NAME, START_DATE, END_DATE, and NAME.

**Response:** Correct the Advisor query and submit the statement again.

RBS1959E  Table name does not exist or is not valid.

**Cause:** When an Advisor system table is queried, the equality constraint on DETAIL_TABLE_NAME must equate to an existing table. Views, synonyms, system tables, and model tables are not allowed.

**Response:** Correct the Advisor query and submit the statement again.

RBS1960E  View name does not exist.

**Cause:** When an Advisor system table is queried, the equality constraint on SAMPLE_VIEW_NAME must equate to an existing view name.

**Response:** Correct the Advisor query and submit the statement again.
Informational, Warning, and Error Messages
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RBS1961E Column DETAIL_TABLE_NAME is not constrained.
Cause: When an Advisor system table is queried, there must exist an equality predicate on the DETAIL_TABLE_NAME column in the WHERE clause. This query did not have an equality constraint on DETAIL_TABLE_NAME.
Response: Correct the Advisor query and submit the statement again.

RBS1962E The Advisor cannot process queries that reference empty detail tables.
Cause: The detail table referenced in the WHERE clause does not contain any rows.
Response: Load the detail table and its associated aggregate tables before you query the Advisor system tables.

RBS1963E START_DATE must be less than or equal to END_DATE.
Cause: When a Advisor system table is queried, a query that constrains on both START_DATE and END_DATE must provide a START_DATE that is less than or equal to the END_DATE.
Response: Change or drop the START_DATE or END_DATE constraint and submit the statement again.

RBA2000E This feature is not supported on this release of Red Brick Warehouse.
Cause: An attempt was made to use a feature that is not supported on this release of Red Brick Warehouse.
Response: Do not use this feature.

RBA2001E Current database size (size kilobytes) exceeds the maximum allowable size.
Cause: Your license does not permit a database larger than 5 gigabytes (5242880 kilobytes).
Response: Notify the warehouse administrator. Upgrade your license to allow a larger database.
RBS2003E  Cannot create new user user_name because the maximum number of allowable users (num_users) already exist.

**Cause:**  The maximum number of users allowed under your Red Brick Warehouse license has been reached.

**Response:**  Check whether all existing users are needed, or upgrade your license to allow more users.

RBS2004E  The BREAK BY subclause is not supported on this release of Red Brick Warehouse.

**Cause:**  An attempt was made to use a feature that is not supported on this release of Red Brick Warehouse.

**Response:**  Do not use this feature.

RBS2005I  Red Brick Warehouse listener daemon version version starting. RB_HOST is RB_HOST. RB_CONFIG is RB_CONFIG.

**Cause:**  Red Brick Warehouse listener daemon is starting.

**Response:**  Informational message.

RBS2006E  Master socket not specified for Red Brick Warehouse listener daemon.

**Cause:**  The rbw.config file is missing a master socket specification or it contains an invalid master socket specification.

**Response:**  Specify correct master socket specification.

RBS2007E  Invalid master socket specification in rbw.config file: (spec).

**Cause:**  The rbw.config file contains an invalid master socket specification.

**Response:**  Specify correct master socket specification.

RBS2008E  Maximum number of master socket specifications reached: (specno).

**Cause:**  The rbw.config file contains too many master socket specifications.

**Response:**  Reduce the number of master socket specifications.
Informational, Warning, and Error Messages
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RBS2009E Communication Layer - Out of memory. OS Error Code = error

Cause: Out of memory.
Response: Look at operating-system error code.

RBS2010E Communication Layer - Get protocol by name failed. OS Error Code = error

Cause: Get protocol by name failed.
Response: Look at operating-system error code.

RBS2011E Communication Layer - Port in use. OS Error Code = error

Cause: The specified port is in use.
Response: Look at operating-system error code.

RBS2012E Communication Layer - Create socket failed. OS Error Code = error

Cause: Create socket failed.
Response: Look at operating-system error code.

RBS2013E Communication Layer - Bind to socket failed. OS Error Code = error

Cause: Bind to socket failed.
Response: Look at operating-system error code.

RBS2014E Communication Layer - Listen on socket failed. OS Error Code = error

Cause: Listen on socket failed.
Response: Look at operating-system error code.

RBS2015E Communication Layer - Select on socket failed. OS Error Code = error

Cause: Select on socket failed.
Response: Look at operating-system error code.
RBS2016E  Communication Layer - Receive on socket failed. OS Error Code = error

Cause: Receive on socket failed.
Response: Look at operating-system error code.

RBS2017E  Communication Layer - Accept on socket failed. OS Error Code = error

Cause: Accept on socket failed.
Response: Look at operating-system error code.

RBS2018E  Communication Layer - Write on socket failed. OS Error Code = error

Cause: Write on socket failed.
Response: Look at operating-system error code.

RBS2019E  Communication Layer - Set socket options failed. OS Error Code = error

Cause: Set socket options failed.
Response: Look at operating-system error code.

RBS2020E  Communication Layer - Internal Logic error. OS Error Code = error

Cause: Internal logic error.
Response: Look at operating-system error code.

RBS2021E  Error on reading OOB data from socket. OS Error Code = error

Cause: Receive of OOB data failed.
Response: Look at operating-system error code.

RBS2023E  No RBWCONC threads were started.

Cause: Internal logic error.
Response: Record what you were doing and contact the Red Brick Customer Support Center.
RBS2024E  Could not find slot to register thread for Control-C notification.

    Cause: Internal logic error.
    Response: Record what you were doing and contact the Red Brick Customer Support Center.

RBS2025E  Could not register thread for Control-C notification.

    Cause: Internal logic error.
    Response: Record what you were doing and contact the Red Brick Customer Support Center.

RBS2026E  Could not find thread in thread table.

    Cause: Internal logic error.
    Response: Record what you were doing and contact the Red Brick Customer Support Center.

RBS2027I  Listening on TCP, HOST = HOST, PORT = PORT.

    Cause: Started listening at above network point.
    Response: Informational message only.

RBS2028I  Listening on SPX, SEGMENT = SEGMENT, MAC ADDRESS = MAC, PORT = PORT.

    Cause: Started listening at above network point.
    Response: Informational message only.

RBS2029I  Started RBWCONC thread. Thread Id is ID

    Cause: RBWCONC thread was started.
    Response: Informational message only.

RBS2030I  Could not send connection-fail ack to client.

    Cause: RBWLSNR thread could not create RBWSVR thread to service client connection. Tried to send connection-fail acknowledgment and failed. Check the MAX_SERVERS parameter in the rbw.config file.
    Response: Informational message only.
RBS2031I  Could not start RBWSVR thread to service client.

**Cause:** RBWLSNR thread could not create RBWSVR thread to service client connection.

**Response:** Record what you were doing and contact the Red Brick Customer Support Center.

RBS2501E  Invalid cursor state - Statement not executed.

**Cause:** Operations such as fetch cursor are not allowed without executing the statement.

**Response:** Check whether a statement has been executed before calling fetch.

RBS2502E  Operation was cancelled by an external agent.

**Cause:** The current operation was cancelled by some external agent; a possible cause is that the DBA issued an ALTER SYSTEM CANCEL USER SESSION command.

**Response:** Notify the warehouse administrator.

RBS2503E  User not connected yet.

RBS2504E  Protocol version mismatch.

**Response:** Notify the warehouse administrator.

RBS2505E  Too few parameter values specified.

**Cause:** The application did not supply values for all the parameter in the SQL statement string.

**Response:** Supply values for all the parameters.

RBS2506E  Invalid client request passed to server.

**Cause:** The client passed an invalid request to the server.

**Response:** Notify the warehouse administrator.

RBS2507E  There is a open cursor in some statement handle.

**Cause:** A request issued on a statement handle cannot be completed as there is a open cursor in some statement handle.

**Response:** Close the cursor in that handle and reissue the request.
**RBS2508E**  Invalid statement state – statement not prepared.

**Cause:** The application issued an execute request without preparing the statement.

**Response:** Contact the warehouse administrator or the application developer.

**RBS2509E**  The cursor 'cursor_name' not found.

**Cause:** The cursor name used for the client is not found.

**Response:** Contact the warehouse administrator.

**RBS7001E**  Unable to allocate number bytes of memory for 'name'.

**Cause:** Not enough memory.

**Response:** Contact the warehouse administrator.

**RBS7002E**  Environment variable RB_CONFIG not set.

**Response:** Set the environment variable RB_CONFIG.

**RBS7003E**  Given 'name' object is not locked.

**Cause:** The object might be deleted or might not be present in the database at all.

**Response:** Make sure the object is present in the database and not locked.

**RBS7004E**  Given 'name' object is not present in the database.

**Cause:** The object is not present in the database.

**Response:** Create a valid object in the database.

**RBS7005E**  Object 'name' already locked.

**Cause:** Object already locked.

**Response:** Free the locked object and try again.

**RBS7006E**  Backup segment does not exist.

**Cause:** A backup segment must exist before you can perform a backup/restore operation.

**Response:** Create a backup segment.
Informational, Warning, and Error Messages
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RBS7007E  Environment variable RB_PATH not set.
       Response: Set the environment variable RB_PATH to default (physical) database path.

RBS7100E  Operation not allowed on database: Segment segment_name already exists and it contains backup data.
       Response: Do not use this feature.

RBS7101E  Operation not allowed on a damaged segment segment_name.
       Response: Do not use this feature.

RBS7102E  Operation cannot complete: Segment segment_name has no space left.
       Response: Do not use this feature.

RBS7103E  Operation not allowed on database.
       Cause: A segment containing backup data must exist in the database before it can be dropped.
       Response: Do not use this feature.

RBS7104E  Operation not allowed on segment segment_name containing backup data.
       Response: Do not use this feature.

RBS7105E  ALTER SEGMENT alter_option requires segment segment_name not to contain backup data.
       Cause: An ALTER SEGMENT statement with an option valid only for non-backup-data segments was issued for a backup-data segment.

RBS7106E  Cannot reinitialize backup segment after recovery: Marked backup segment as damaged.
       Cause: Invalid backup segment information in system files. The backup segment got dropped and created again between backup and recovery with an ALTER DATABASE command.
       Response: Drop backup segment and create it again with ALTER DATABASE DROP BACKUP DATA and ALTER DATABASE CREATE BACKUP DATA commands to initialize the backup segment properly.
RBS7107E Cannot use segment *segment* as backup segment because it is attached to a table or index.

**Cause:** The specified segment is in use; it is attached to a table or index.

**Response:** Use the ALTER SEGMENT command to detach the segment from the table or index and submit this command again.

RBS7108E Query execution failed because the rows of the result table (or the rows of an intermediate result table) are too large.

**Cause:** The result table or an intermediate result table exceeded the maximum row width of 8 kilobytes.

**Response:** Rewrite the query to reduce the row size of the result table and any intermediate tables. For example, eliminate wide columns from the select list or reduce the width of character columns using the SUBSTR() function.

RBS7501E Name defined by CREATE TEMPORARY TABLE already exists.

**Cause:** A base table, synonym, view, or another temporary table with the same name as that specified in the CREATE TEMPORARY TABLE syntax already exists.

**Response:** Choose another table name and submit the CREATE TEMPORARY TABLE statement again.

RBS7502E Referenced table 'table_name' is a temporary table.

**Cause:** The FOREIGN KEY clause of a CREATE TABLE statement referenced a temporary table. Only base tables can be referenced.

**Response:** Correct the SQL statement to reference only base tables and submit it again.

RBS7503E Invalid CREATE TEMPORARY TABLE specification.

**Cause:** The CREATE TEMPORARY TABLE specification was invalid. An attempt was made to create a temporary table that either had a FOREIGN KEY clause specification, a data/primary key index segmentation specification, or a MAXSEGMENTS or MAXROWS PER SEGMENT specification.

**Response:** Correct the CREATE TEMPORARY TABLE statement and submit it again.
RBS7504E  STAR index cannot be created on temporary table 'table_name'.

Cause: The CREATE STAR INDEX statement was used to create a STAR index on a temporary table. A STAR index can be created only on permanent base tables.

Response: Do not create STAR indexes on temporary tables.

RBS7505E  Index with segmentation specification created on temporary table.

Cause: An index with segmentation specification was created on a temporary table. The CREATE INDEX statement for an index on a temporary table cannot contain a segmentation specification.

Response: Correct the CREATE INDEX statement and submit it again.

RBS7506E  ALTER INDEX command is not supported on temporary table indexes.

Cause: An ALTER INDEX command was specified on a temporary table index. This operation is not supported for temporary tables.

Response: Verify that you specified the correct index name. Correct the statement and submit it again.

RBS7507E  ALTER SEGMENT command is not supported on temporary table segments.

Cause: An ALTER SEGMENT command was specified on a temporary table index. This operation is not supported for temporary tables.

Response: Verify that you specified the correct segment name. Correct the statement and submit it again.
RBS7508E  Insufficient authority to create temporary object.

Cause: The user who issued the CREATE TEMPORARY TABLE or CREATE INDEX statement did not have the required authority. To create a temporary table or an index on a temporary table, the user must be a member of the DBA or RESOURCE system roles, or have one of the following: authorization to create temporary objects via the GRANT_TEMP_Resource_TO_ALL option parameter, CREATE_ANY authorization, CREATE_OWN authorization, or TEMP_RESOURCE authorization.

Response: Notify the warehouse administrator and request the required authority.

RBS7509E  Privileges may not be granted or revoked on temporary tables.

Cause: A GRANT or REVOKE statement attempted to grant or revoke one or more of ALL, INSERT, SELECT, DELETE, and UPDATE privileges on a temporary table. A temporary table cannot be the target of a GRANT or REVOKE statement with any privileges.

Response: Do not issue GRANT or REVOKE commands on temporary tables.

RBS7510E  LOCK is not allowed on a temporary table.

Cause: An attempt was made to explicitly lock a temporary table. This option applies only to base tables and model tables. It cannot be specified for temporary tables.

Response: Do not issue explicit LOCK commands on temporary tables.

RBS7511E  A temporary table cannot be locked with the FOR DELETE option.

Cause: A LOCK statement with the FOR DELETE option was issued against a temporary table. This option applies only to base tables. It cannot be specified for temporary tables.

Response: Do not issue any explicit LOCK commands on temporary tables.

RBS7512E  Maximum number of temporary segments exceeded.

Cause: The maximum number of temporary segments that can be created in a session has been exceeded.

Response: Reduce the number of temporary tables or indexes created in any one session.
RBS7513E  CREATE VIEW references a temporary table.


Response:  Use a base table instead the temporary table if you need to create a view.

RBA7514E  Maximum number of usable segments exceeded.

Cause:  A CREATE TABLE, CREATE INDEX, CREATE SEGMENT, ALTER TABLE, or offline load operation attempted to create a named or default segment. However, the limit on the number of segments that can be created in a database has been reached. A maximum of 61440 base table segments can exist in the database at any time.

Response:  Determine whether any tables, indexes, or segments can be dropped from the current database.

RBS7515E  Maximum number of usable indexes exceeded.

Cause:  A CREATE TABLE or CREATE INDEX statement attempted to create a new index. However, the limit on the number of indexes that can be created in a database has been reached. A maximum of 2.5 billion base table indexes can exist in the database at any time.

Response:  Determine whether any indexes and/or tables can be dropped from the current database.

RBS7516E  Maximum number of usable constraints exceeded.

Cause:  An attempt was made to add a primary or foreign key constraint to a table. However, the limit on the number of constraints that can be created in a database has been reached. A maximum of 2.5 billion base table constraints can exist in the database at any time.

Response:  Determine whether if any tables and/or constraints can be dropped from the current database.

RBL8003E  Table table_name cannot be loaded because the primary key index has been dropped.

Cause:  The primary key index has been dropped.

Response:  Create the primary key index again.
RBL8004E  Table table_name cannot be loaded in UPDATE or MODIFY mode because it lacks a primary key.

Cause:  The primary key index has been dropped.

Response:  Create the table again with a primary key index or use the SQL UPDATE command.

RBL8005W  Row number number in segment 'segment_name' in table 'table_name' has been deleted.

Cause:  The TMU referenced a row that no longer exists, which indicates an inconsistency in the database. Possible causes are use of the OVERRIDE REFCHECK clause or an internal error.

RBL8006E  Offline load terminated because segment segment_name is full or the filesystem is full.

Cause:  During an offline load into a segment, the space available for new data was exhausted. A possible cause is that the working space segment is full.

Response:  If the working space segment is full, use ALTER SEGMENT...CLEAR on the offline segment followed by ALTER SEGMENT CHANGE MAXSIZE on the working space segment and submit the LOAD DATA statement again.

RBL8007W  End of file error while synchronizing segment segment_name with table_name.

Cause:  End of file error detected. A possible cause is that the offline segment or the working space segment ran out of space during the offline LOAD operation.

Response:  If the offline segment is full, use the ALTER SEGMENT command to either increase the maximum size of a PSU in the segment or add more PSUs to the segment. If the working space segment ran out of space, use the ALTER SEGMENT...CLEAR on the offline segment followed by ALTER SEGMENT CHANGE MAXSIZE on the working space segment. If the filesystem is full, increase disk space or delete unneeded files. After making the necessary changes, submit the LOAD DATA statement again.
RBL8008I  Automatic Row Generation is DEFAULT.

Cause: Indicates that the AUTOROWGEN feature is set to DEFAULT for the current LOAD DATA operation. The TMU responds to referential integrity failures by attempting to set the foreign key value in the input row record to match the default value of the foreign key column in the referencing table, instead of discarding input rows or inserting automatically generated rows into the referenced tables.

Response: Review processed input rows when the LOAD DATA operation is complete.

RBL8009I  Automatic Row Generation is SELECTIVE.

Cause: Indicates that the AUTOROWGEN feature is selective for the current LOAD DATA operation. Referenced tables not specified in the AUTOROWGEN clause of the LOAD DATA statement have a default setting of OFF and rows that fail referential integrity are discarded.

If AUTOROWGEN is set to ON for a referenced table, the TMU responds to referential integrity failures by attempting to insert automatically generated rows in referenced tables.

If AUTOROWGEN is set to DEFAULT for a referenced table, the TMU responds to referential integrity failures by attempting to set the foreign key value in the input row record to match the default value of the foreign key column in the referencing table, instead of discarding input rows or inserting automatically generated rows into the referenced tables.

Response: Review processed input rows and/or automatically generated rows when the LOAD DATA operation is complete.

RBL8010E  AUTOROWGEN cannot proceed because table or synonym 'table_name' is not directly referenced by table 'table_name'.

Cause: A selective AUTOROWGEN clause has been specified in the LOAD DATA statement; however, the table or synonym specified is not directly referenced by the table being loaded.

Response: Correct the AUTOROWGEN clause to include only the names of referenced tables or synonyms.
RBL8011E  Table 'table_name' is specified more than once in the AUTOROWGEN clause of the LOAD DATA statement.

Cause: A selective AUTOROWGEN clause has been specified in the LOAD DATA statement; however, a referenced table name has been specified more than once.

Response: Specify the referenced table name only once for the required AUTOROWGEN mode.

RBL8012I  AUTOROWGEN DEFAULT processing on row number for table table_name with default foreign key value string.

Cause: Indicates that the AUTOROWGEN feature used DEFAULT processing on the input row for the referenced table that failed referential integrity. The default value of the foreign key in the referencing table is displayed; a valid row with this value must exist in the referenced table to satisfy referential integrity.

Response: After the LOAD operation completes, review all default processed rows.

RBL8013W  Unable to process AUTOROWGEN DEFAULT for table table_name because column column_name does not have a default value specified.

Cause: Indicates that the AUTOROWGEN feature attempted to use DEFAULT processing for the indicated table in order to satisfy referential integrity; however, the default value for the foreign key column is NULL because no default value was defined for the column.

Response: The referencing row is discarded; it is written to the discard file if one was specified for the LOAD DATA operation.

RBL8014W  AUTOROWGEN has conflicting modes on a referenced dimension.

Cause: Indicates that the Automatic Row Generation feature has been specified ON on a certain dimension via cascaded foreign key-primary key relationships to a referenced table that has AUTOROWGEN ON specified. However, this table is also directly referenced by the table being loaded into and the AUTOROWGEN mode has been either specified DEFAULT or is OFF.

Response: The referencing row is discarded.
**RBL8016W**  Parallel TMU fork failure. Trying to load with actual_tasks tasks, not calculated calc_tasks.

**Cause:** Indicates that the calculated number of processes could not be forked, but the operation is proceeding with fewer processes.

**Response:** Evaluate the operating-system configuration to determine why the calculated number of processes could not be forked.

**RBL8017W**  Parallel TMU failed to fork minimum number of parallel processes. Proceeding in SERIAL mode.

**Cause:** Indicates that the minimum number of processes (4) for a parallel load operation could not be forked, so the operation is proceeding in serial mode.

**Response:** Evaluate the operating-system configuration to determine why the minimum number of processes could not be forked.

**RBL8018W**  Rolling back rows to a consistent block.

**Cause:** Indicates the LOAD operation has terminated and rows are being rolled back to a consistent state.

**RBL8019W**  Invalidating all indexes for table table_name.

**Cause:** Indicates that the table was not loaded properly so all indexes for the table are being marked invalid.

**Response:** This message will be followed by another message with specific information about the failure.

**RBL8020E**  RI_DISCARDFILE not allowed on table 'table_name'.

**Cause:** The RI_DISCARDFILE clause is not allowed on tables that do not reference any other tables.

**Response:** Remove the RI_DISCARDFILE clause from the LOAD DATA statement.

**RBL8021E**  Table 'table_name' specified in RI_DISCARDFILE is not directly referenced by table 'table_name'.

**Cause:** The RI_DISCARDFILE clause has been specified in the LOAD DATA statement; however, the table name specified is not directly referenced by the table being loaded.

**Response:** Correct the referenced table name in the RI_DISCARDFILE clause of the LOAD DATA statement.
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RBL8022E Unable to unload more than number rows with one unload statement.

Cause: An UNLOAD operation on a table or list of segments cannot write out more than the specified number of rows with a single UNLOAD operation.

Response: Rewrite the command as several unload-by-segment operations.

RBL8023W Any existing rows in tables that reference table tabname may now be invalid.

Cause: A table that has tables referencing it is being loaded in REPLACE mode; this mode causes any rows in the referencing tables to be invalid.

Response: Either reload the referring tables or perform a REORG operation on them.

RBL8024E Cannot load table because referenced table reftab's primary key has been dropped.

Cause: The primary key of the referenced table has been dropped. Tables that lack a primary key cannot be checked for referential integrity. If AUTOROWGEN is on, the referenced table might be referenced indirectly.

Response: Create the dropped primary key again.

RBL8025E Cannot load table because referenced table reftab's primary key index is not a BTREE.

Cause: The primary key of the referenced table has been dropped and a STAR has been created in its place. Tables that lack a primary B-TREE index cannot be checked for referential integrity. If AUTOROWGEN is on, the referenced table might be referenced indirectly.

Response: Create the dropped primary key again.

RBL8026E Cannot use a WHERE clause when unloading to a tape using TAR format.

Cause: A table cannot be unloaded to a tape in tar format while using a WHERE clause.

Response: Either remove the WHERE clause or use standard label tape format.
RBL8027W  Row counters roll over each time the TMU reaches $2^{32}$ rows.

Cause: Because the TMU uses 4-byte UInts for counters, they roll over at $2^{32}$ rows.

Response: Break up the load into pieces that are less than $2^{32}$ rows.

RBL8028E  Cannot use an abbreviated AM/PM mask specifier.

Cause: A mask specifier for a Datetime field cannot use the abbreviated A format for non-English locales.

Response: Change the mask specifier to AM.

RBP8400E  Process manager service 'service_name' not configured correctly on node node_name. File: filename Line: lineno Errno=errno

Cause: Process manager is unable to connect to the process manager on the given node.

Response: Check the inetd configuration for the given process manager service on the given node. If the process manager is configured on the given node, verify that the pathname of the process manager and the arguments passed to the process manager are correct.

RBP8401E  Invalid node name 'node_name' specified in the rbw.config file.

Cause: Process manager is unable to get information about a node specified in the rbw.config file.

Response: Verify that correct node name is used for MPPNODE, MPPNODEMAP, ADM_HOST, LOG_HOST, etc., in the rbw.config file.

RBP8402E  Cannot spawn the process 'process_name' on node node_name.

Cause: The pathname for RBWPTMU SERVER_NAME in the rbw.config file might be invalid.

Response: Verify that the RBWPTMU SERVER_NAME is valid on the remote node.
RBP8403E  The spawned process 'process_name' on node node_name failed to acknowledge.

Cause:  The spawned process on the remote node failed to acknowledge.
Response:  Verify that Red Brick Warehouse and process manager configurations are correct on the remote node.

RBP8404E  Cannot communicate with the node node_name due to OS error errno.

Cause:  A network error occurred.
Response:  Verify that the specified node is up and running.

RBP8405E  Invalid pathname passed to process manager on node node_name.

Cause:  The arguments passed to the process manager are wrong.
Response:  Verify that the process manager is configured correctly and that the correct arguments are passed to the process manager.

RBP8406E  An entry for MPPPMAN SERVICE_NAME is not specified in the rbw.config file.

Response:  Add an entry for MPPPMAN SERVICE_NAME in the rbw.config file.

RBL8500E  Not all PTMU input/output processes were able to register with directory services.

Cause:  Possible causes are: (1) the PTMU is unable to spawn a process; (2) the process died before registration, or (3) a TCP/IP communication problem exists.
Response:  Check the configuration for process manager.

RBL8501E  Could not create resources for data exchange.

Cause:  The PTMU could not get TCP/IP resources.
Response:  Verify that the node is up and the switch is working.
RBL8502E  Problem in sending a message to exchange endpoint number, error number, error data number.

Cause: Exchange failed to send a message to endpoint. The reason is the error number specified in the message.

Response: Verify that the node is up and no other communication problem exists.

RBL8503E  Problem in receiving a message from endpoint number, error number, error data number.

Cause: Exchange failed to receive a message. The reason is the error number specified in the message.

Response: Verify that the node is up and no other communication problem exists.

RBL8504E  Communication problems, connection dropped, endpoint number, reason number, errdata number.

Cause: Exchange call detected a connection drop.

Response: Verify that the node is up and no other communication problem exists.

RBL8505E  Problem in processing directory services message.

Cause: Internal error in processing directory services request.


RBL8506E  Exchange endpoint not found in the list.

Cause: Internal error: Endpoint not found on registered list.

Response: Check for a communication problem or notify the Red Brick Customer Support Center.

RBL8507E  Invalid message type.

Cause: Internal error: Detected invalid message type.

**Informational, Warning, and Error Messages**

**Message Listing**

RBS8508S  
*stat_typetime_string cp time, time_string tot cp time, Logical Reads/Writes:*numberstat.*

**Cause:** Full statistic messages have been enabled for the PTMU. This message contains statistical information about the command. There might be platform-specific information following the Logical Reads/Writes information.

**Response:** None.

RBS8509S  
*stat_typetime_string cp time, Logical IO count=numberstat.*

**Cause:** This message contains statistical information about the command. There might be platform-specific information following the Logical IO count.

**Response:** None.

RBL8510E  
PTMU input process was unable to register.

**Cause:** The PTMU was unable to spawn the input process or the process died before registration.

**Response:** Check configuration for process manager or look for TCP/IP communication problem.

RBL8511E  
PTMU processes were unable to send acknowledgment.

**Cause:** One or more PTMU processes did not send an acknowledgment for exit request.

**Response:** Look for TCP/IP communication problem or contact the Red Brick Customer Support Center.

RBL8513F  
The PTMU does not support *load_mode* mode.

**Response:** Use the TMU for this mode.

RBL8514E  
One or more PTMU processes failed to abort.

**Cause:** Possible causes are: (1) process is in a loop or (2) a TCP/IP communication problem exists.

**Response:** Save the error messages and contact the Red Brick Customer Support Center.
RBL8515W  Unable to kill process number on node host_name

Cause:   Possible causes are: (1) process is not running when PTMU was
         interrupted/timed out or (2) process manager or “kill” command
         failed.

Response: Try to kill process manually.

RBL8516F  The PTMU does not support 'command_name' command.

Response: Use the TMU for this functionality.

RBL8517I  Number duplicate rows already rolled back by the rollback
         mechanism.

Response: The message simply indicates that the rows have been previously
         rolled back. Thus, the duplicate removal code cannot find it.

RBL8700W  Truncating constant string specified for column
         column_name.

Cause:   Constant string is longer than the maximum specified for the
         column in the CREATE TABLE statement.

Response: Warning only. Review constant string specified in load command.

RBO10000E Assertion failure in source file at line line number: condition

Cause:   An unexpected internal condition arose. The program logic could
         not proceed.

Response: Contact the Red Brick Customer Support Center.

RBO10001E Keyword 'keyword' unsupported.

Cause:   The specified keyword is not supported by this ODBC driver.
**RBO10002E** NULL value in column *column number*, but no indicator

**Cause:** The ODBC driver is unable to inform your program that it is retrieving a null value from the database, because the program passed a NULL pointer to SQLBindCol or SQLGetData instead of a pointer to an indicator variable. The ODBC driver has not altered the data area passed as rgbValue. This error is the only way the ODBC driver can alert the program that it should NOT regard the current contents of the rgbValue buffer as valid data.

**Response:** If you control the application’s source code, modify the program to pass a pointer to an SDWORD length/indicator variable as pcbValue. If you control the SQL query, extend the WHERE clause to exclude null values from this column. If you cannot alter either, eliminate null values from this column of the database.

**RBO10003W** The returned string value was truncated.

**Cause:** The string buffer passed to an ODBC function was insufficient to hold the data.

**Response:** Make sure to pass a buffer of sufficient size.

**RBO10004W** Invalid 'keyword' value 'value', 'default' assumed.

**Cause:** The value specified in the *rbw.config* file or the *.ini* file for the parameter is invalid. A default value is assumed.

**Response:** Specify the correct and acceptable value for the specified parameter.

**RBO10005E** Unrecognized attribute keyword at: 'keyword'.

**Cause:** The specified keyword is not supported by this ODBC driver.

**RBO10006E** Data source name "DSN" is not defined, and there is no Default data source.

**Cause:** The Data Source Name string you passed was not defined in the local *odbc.ini* file, nor was there a Default data source entry. SQLConnect requires a valid data source to be able to connect to a Red Brick server.

**Response:** Use one of the valid defined Data Source Names (which you can enumerate by calling SQLDataSources), or define a valid Default data source, or define the data source name to which you were trying to connect.
Informational, Warning, and Error Messages

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RBO10007W  Keyword empty or has no value, at 'keyword'.

**Cause:** You passed SQLDriverConnect a connection string containing a substring such as "...;=value;..." or "...;keyword;..." Correct syntax is "...;keyword=value;..."

**Response:** Correct the connection string before passing it to SQLDriverConnect again.

RBO10008E  Duplicate keyword 'keyword' second value ignored.

RBO10009E  Unsupported keyword 'keyword' in ODBC escape string.

**Cause:** You passed SQLPrepare or SQLExecDirect or SQLNativeSql an SQL statement string containing an ODBC escape sequence { etc. } or --(* etc. *)--; however, the indicated keyword type is not supported.

**Response:** Avoid using this ODBC escape type in your SQL statement strings.

RBO10010E  Function call interrupted another ODBC function!

**Cause:** Your application called an ODBC function with a particular ODBC handle (HDBC or HSTMT). Before that call could return, your application attempted to call a second ODBC function, passing the same handle, or an HSTMT owned by the same HDBC. In order not to damage critical internal data structures, the second call was rejected. Only SQLCancel is allowed during another ODBC call.

**Response:** Multiple application threads can use ODBC concurrently, but only if each thread is using a different connection. If your application has independent threads competing to use the same ODBC connection, guard your ODBC calls with critical sections. If, on the other hand, the second ODBC function was called by a signal handler, consider setting a flag to request mainline code to perform the ODBC function call.

RBO10011E  Dynamic SQL error. The application must provide the exact number of locations that the output values require.

RBO10012W  Cancel already requested, please wait.

**Cause:** Your application called SQLCancel while another ODBC function was executing. Then, before the interrupted ODBC function could return, the application called SQLCancel again. The first cancel request has been noted and will be carried out, but it has not yet completed.

**Response:** Wait until the request is carried out.
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RBO10013E Connection in use.
RBO10014E DBC not connected.
RBO10018E 'Parameter' parameter 'parameter_number' may be put only once.
RBO10019E Cannot append to NULL parameter value.
RBO10020E A cursor is already open for this HSTMT.
RBO10023E Cannot disconnect because a transaction is pending.
RBO10026E Cursor name 'cursor_name' is too long (max limit bytes)
RBO10027E Cursor name not unique within DBC.
RBO10028E COMMIT and ROLLBACK are invalid statement strings; use SQLTransact instead.
RBO10029E Statement syntax error.
RBO10031E Required attribute attribute is missing.
RBO10032E Dialog box handler error error_number.
RBO10033E Invalid request type request_type.
RBO10034E No '=' sign in string 'string'.
RBO10035E Empty keyword in string 'string'.
RBO10036E Cannot store 'name' value 'value'.
RBO10037E 'string' cannot be used as a data source name.
RBO10038E Column column number: Invalid NULL indicator pointer.
RBO10039E odbx_init called with entry_size entry array; was compiled for max_size entries.
RBO10040E Invalid radio-button ID button_id for button.
RBO10041E No SCFE flag for attribute attribute.
RBO10044E Invalid dialog-box attribute ID attribute.
RBO10045E SQLPutData exceeded max data length for this datatype.
RBO10046E Could not allocate memory for where.
RBO10051E Cannot fit value value into internal size-byte buffer.
RBO10053E Invalid column number column_number.
RBO10059E Invalid SQL_CURRENT_QUALIFIER: qualifier, only valid value is: value.
RBO10068E Invalid option option specified.
RBO10070E Invalid argument specified value.
RBO10075E connection is still active.
RBO10076E Statement not SELECT or not PREPARED.
RBO10081E SQL_NEED_DATA pending: only SQLParamData, SQLPutData or SQLCancel may be called.
RBO10085E Invalid transaction operation code specified (code).
RBO10087E Qualifier name too long: size bytes.
RBO10088E Owner name too long: size bytes.
RBO10089E Table name too long: size bytes.
RBO10090E Column name too long: size bytes.
RBO10091E Procedure name too long: size bytes.
RBO10093E Table type string too long.
RBO10095E Invalid qualifier length size.
RBO10096E Invalid owner length size.
RBO10097E Invalid fColType type.
RBO10098E Invalid table name length size.
RBO10100E Invalid output buffer size.
RBO10103E Invalid parameter type: parameter_type.
RBO10105E Login timeout not supported.
RBO10106E Translation DLL not supported.
RBO10108E Row-wise binding not supported.
RBO10109E MAX LENGTH not supported.
RBO10110E Query timeout not supported.
RBO10111E MAX ROWS not supported.
RBO10112E Asynchronous mode not supported in this environment.
RBO10113E SQL_PACKET_SIZE option not supported.
RBO10114E SQL_QUIET_MODE option not supported.
RBO10115E 'function' not supported.
RBO10125E All SQL_DATA_AT_EXEC params should have been supplied!
RBO10126E Default parameter support not available; param: param.
RBO10127E Data type type out of range.
RBO10129E Cannot find buffer for SQL_DATA_AT_EXEC parameter parameter.
RBO10132E Internal error: 'error_msg'
RBO10135E Required bind pointer was NULL.
RBO10140E Corrupted bind list found while unbinding column in SQLBindCol.
RBO10141E Buffer must be at least 1 byte long.
RBO10143E Unable to open logfile: log_file, cancel requested.
RBO10148E NULL data pointer is invalid.
RBO10150E UNIQUE_ID buffer too small, size:size
RBO10152E Function sequence error 'sequence_error_reason'.
RBO10153E For update specified on a read-only connection.
RBO10154E Invalid cursor name 'cursor_name'.
RBO10155E No cursor name.
RBO10156E Invalid cursor state. Cursor not open.
RBO10157E No pending unbound column data.
RBO10158E An operation is pending on this connection; please wait.
RBO10159E An async operation 'pending_operation' pending; must call the same function.
RBO10160E Operation cancelled.
RBO10161E Invalid scfe result: expecting result 'exp_result', got result 'got_result'.

RBO10162W Could not disconnect.

RBO10163I No processing to cancel. SQLCancel will act as SQLFreeStmt(SQL_CLOSE).

RBO10164E Cannot remove data source name.

RBO10165E Cannot add data source name.

RBO10166E Cannot edit data source without its name.

RBO10167E Attempt to initiate a new SQL Server operation with results pending.

Cause: The application has called SQLPrepare, SQLExecute, or SQLExecDirect when there is a open cursor in some other statement handle.

Response: Contact the DBA or the tool vendor.

RBO10169E Connect option 'option' not supported.

RBO10170W Option option value value not supported, changed to substitute.

Cause: The application attempted to set an unsupported option value. The driver has substituted a supported value in its place.

Response: Ensure that the application’s functionality does not depend on the unsupported value. Alter the application logic so that it does not request the unsupported value; or, if it receives this warning, so that it avoids depending on the semantics of the unsupported value.

RBO10201E Insufficient global memory.

RBO10202E Insufficient local memory.

RBO10203E Invalid anchor pointer specified.

RBO10204E Invalid message structure specified.

RBO10205E Invalid processing mode specified.

RBO10206E This feature is not implemented yet.

RBO10207E Unable to free global memory.
RBO10208E Unrecoverable internal error.
   
   **Response:** Contact the Red Brick Customer Support Center.

RBO10209E Error encountered during simulated communication call.

RBO10210E Invalid SCFE_CTYP_xxx column type.

RBO10211E Unsupported SCFE_CTYP_xxx column type.

RBO10212E Invalid column length specified.

RBO10213E Invalid column precision.

RBO10214E Invalid column scale.

RBO10215E Fetching a look-ahead allowed readonly cursor may not be mixed with other requests.

RBO10216E The AUTOCLOSE option cannot be specified when fetching a look-ahead allowed readonly cursor.

RBO10217E Invalid cursor code.

RBO10218E INTERNAL ERROR: Contact the Red Brick Customer Support Center.

RBO10219E Invalid read-only fetch request.

RBO10220E Invalid SCFE_DTYP_xxx data type.

RBO10221E Invalid data length.

RBO10222E Invalid data precision.

RBO10223E Invalid data scale.

RBO10224E Data returned for input parameter in error.

RBO10225E Invalid SFEX_CTYP_xxx column type.

RBO10226E Unsupported SFEX_CTYP_xxx column type.

RBO10227E Communication error: Network connection has failed.

RBO10228E Fatal communication error.

RBO10229E Debugging string is too long.

RBO10230E Post-message failed within SCFE. Application is likely to hang.
RBO10231E Buffer overflow.
RBO10232E Attempt to buffer too large an item.
RBO10233E Attempt to allocate too large a memory buffer.
RBO10234E Debugging has been disabled.
RBO10235E Floating point overflow or underflow.
RBO10236E Invalid floating point data.
RBO10237E Invalid digit nibble in decimal data.
RBO10238E Invalid sign nibble in decimal data.
RBO10239E The RX communication layer version is down level.
RBO10240E Invalid request structure specified.
RBO10241E Attempt to process an empty request.
RBO10242E Invalid SCFE_REQT_xxx request type.
RBO10243E Attempt to process before login is complete.
RBO10244E Attempt to process before logoff is complete.
RBO10245E Attempt to process a request while another is pending.
RBO10246E Attempt to process a request before claiming previous result.
RBO10247E Attempt to claim an empty result.
RBO10248E The SCFE executable module is at a lower version than the SCFE-caller requires.
RBO10249E Unsupported SSFE to SCFE protocol version.
RBO10250E Result offset out of bounds.
RBO10251E Communication error.
RBO10252E Invalid SQL communication area specified.
RBO10253E Attempt to login with an anchor that is in use.
RBO10254E Attempt to process when not logged in.
RBO10255E Request offset out of bounds.
Informational, Warning, and Error Messages
Message Listing

RBO10256E Windows unable to create PROC INSTANACE.
RBO10257E Attempt to reallocate a smaller size.
RBO10258E Attempt to reallocate a non-allocated pointer.
RBO10259E Result section synchronization error.
RBO10260E Missing error information from SSFE.
RBO10261E Attempt to cancel while SCFE is waiting for an SSFE error.
RBO10262W More results exist.
RBO10263W Given SQLDA is too small.
RBO10264W Cancel processed, but completion message was already posted.
RBO10265W Logout was done synchronously; no message will be posted.
RBO10266W Successful asynchronous login.
RBO10267W Successful asynchronous logout.
RBO10268E Column column number: Invalid conversion from server type to client type.
   Cause: Your application is trying to retrieve a server value of a particular datatype into a variable of a datatype to which the server value’s datatype cannot be converted. For example, you might be trying to retrieve a DATE column into an integer variable.
   Response: Make the application bind a variable of a compatible type, or use an RISQL conversion function to coerce the server value to a type compatible with the application’s variable.
RBO10269E Column column number: Error converting from server type to client type.
   Cause: Your application is trying to retrieve a server value of a particular datatype into a variable of a datatype to which this server value cannot be converted. For example, you might be trying to store a non-numeric character string into an integer variable.
   Response: Make the application bind a variable of a type that can accommodate the server’s value. Note that all types can safely be retrieved as character strings.
RBO10270E Operation halted due to errors.

**Cause:** Because of the other errors already noted for this function, execution cannot proceed.

**Response:** Correct the other errors before trying the operation again.

RBO10271E Error while processing column column number

**Cause:** An error occurred during processing of the column identified by this message. This message provides the column number; the other message identifies the nature of the error.

**Response:** Correct the other error before retrying the operation.

RBO10272W Column column number: the returned column value was truncated.

**Cause:** The buffer used to retrieve this column could not accommodate the entire value. If it is a string value, excess characters were truncated. If it is a numeric value, fractional decimal places were truncated.

**Response:** Bind a longer string buffer, or retrieve the numeric value into a datatype that can accommodate its fractional value.

RBO10273E Column column number: number too large for destination type.

**Cause:** The datatype into which you wanted to retrieve this column could not accommodate the value.

**Response:** Use a datatype capable of storing a larger number.

RBO10274E Column column number: error attempting data conversion.

**Cause:** The value you were trying to retrieve is inappropriate for the datatype into which you wanted to store it. For example, fetching a non-numeric character string into a numeric type, or a string containing an invalid date value into SQL_C_DATE, could cause this error.

**Response:** Use a datatype that can receive the value in question. Note that SQL_C_CHAR can accommodate values of any type.

RBO10275E Bad information request type info type

**Cause:** This is an internal error.

**Response:** Contact the Red Brick Customer Support Center.
RBO10276E No indicator pointer supplied for bound column column number.

Cause: This is an internal error.

Response: Contact the Red Brick Customer Support Center.

RBO10277E Indicator pointer was supplied for unbound column column number.

Cause: This is an internal error.

Response: Contact the Red Brick Customer Support Center.

RBO10278E You cannot call SQLGetData for a bound column (column column number).

Cause: SQLGetData can only be called for columns not already bound by SQLBindCol. SQLGetData has detected that it is being called for a bound column.

Response: Change the application to interrogate its bound buffer for the value of this column, rather than calling SQLGetData for it.
RBO10279W "Binary" value stored in CHAR column is not a valid hexadecimal string; passing through unchanged.

**Cause:** The application has asked to store and retrieve binary data in a CHAR column. The ODBC driver supports this by expanding the binary data to a hexadecimal string for storage, and then converting back to binary on retrieval. This looks like that case to the ODBC driver, but the retrieved CHAR value is not a valid hexadecimal string. (It might have been inserted by the TMU or by another application unaware of this application’s special use of this column.) The ODBC driver is returning the retrieved string value unchanged. This might confuse the application, which is expecting a binary byte string.

**Response:** Determine which of the following cases is applicable:

1. The ODBC driver is wrong about the application’s intended use of the column in question. If your application binds a CHAR column using SQL_C_BINARY, and there is an entry in your WINDOWS\RBODBC16.INI or RBODBC32.INI file of the form CHAR_COLUMN_BINARY=application_name.exe, then the ODBC driver will assume that the application intends to use that CHAR column as if it were a BINARY column (a datatype that is presently unsupported by the server). If this is not the case, either remove your application’s name from the appropriate .INI file entry, or modify your application to avoid using SQL_C_BINARY with this column.

2. The column is being used as a “binary” column by this application but as an ordinary CHAR column by other applications (or by the TMU); avoid using this column inconsistently. If you need to force “binary” values into the column for use by the current application, insert each such value as a hexadecimal string with an even number of digits. Refrain from all other uses of this column.
**Informational, Warning, and Error Messages**

*Message Listing*

**RBO10280W** Parameter param number: value was truncated.

**Cause:** Some part of the parameter value could not be accommodated by the SQL datatype or scale passed to SQLBindParameter. If the parameter value is a floating-point type, some fractional digits may have been truncated when storing into an integral type, or a fixed-precision type with an insufficient scale. If the parameter is a TIMESTAMP, storing into DATE with a nonzero time component causes the time to be truncated.

**Response:** Review the SQL datatype, precision and scale passed to SQLBindParameter to ensure that they are appropriate for this parameter value and for the parameter marker in the SQL statement.

**RBO10400E** Winsock DLL not found.

**RBO10401E** Winsock version mismatch.

**RBO10402E** You need to identify service. Format is hostname:servicename.

**RBO10403E** No such service.

**Response:** Check services file and modify it if necessary.

**RBO10404E** Could not allocate memory.

**Response:** Close some applications and try again.

**RBO10405E** Internal error: If used, both send_data and haveSection must be present; or missing haveResult function.

**RBO10406E** Host not found.

**Response:** Check hosts file and modify it if necessary.

**RBO10407E** Could not create socket. os error:errno.

**RBO10408E** Could not connect to the server. os error:errno.

**Response:** Check the host and the service and run the application again.

**RBO10409E** Could not send to server. OS error:errno.

**RBO10410E** Could not receive from the server. OS error:errno.

**RBO10411E** Internal error calling SCFE have_result:errno.

**RBO10412E** Internal error calling SCFE have_section:errno.
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<th>Error Code</th>
<th>Message Description</th>
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<td>Error reported by SSFE on comm layer: errno.</td>
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<td>RBO10414E</td>
<td>Internal error: comm pending when comm operation issued.</td>
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<td>RBO10415E</td>
<td>Internal error: Bad protocol: OS error: errno.</td>
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<td>RBO10416E</td>
<td>Protocol error: incorrect handshake with server.</td>
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<td>RBO10417E</td>
<td>Attempt to signal server process failed. OS error: errno.</td>
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<td>RBO10418E</td>
<td>Environment variable RB_CONFIG and/or RB_HOST not set or too long.</td>
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<td>RBO10419E</td>
<td>Could not open local connection to the daemon. OS error: errno.</td>
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<td>RBO10420E</td>
<td>Could not write to daemon thru local connection. OS error: errno.</td>
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<td>RBO10421E</td>
<td>Cancel request timed out.</td>
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<tr>
<td></td>
<td><strong>Cause:</strong> Server might be hung (stopped executing) or connection might have been dropped.</td>
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<td>RBO10422E</td>
<td>Operation interrupted due to cancel request.</td>
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<td>RBO10423I</td>
<td>Beginning logging session.</td>
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<td>RBO10424E</td>
<td>Could not get system directory.</td>
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<td>RBO10425E</td>
<td>Error checking if the host is same as local machine.</td>
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<td>RBO10426E</td>
<td>Invalid server specification. Correct format is '&lt;host&gt;:&lt;port&gt;' or '&lt;port&gt;'</td>
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<tr>
<td>RBO10427E</td>
<td>Unknown request type request type.</td>
</tr>
<tr>
<td></td>
<td><strong>Cause:</strong> This is an internal error.</td>
</tr>
<tr>
<td></td>
<td><strong>Response:</strong> Contact the Red Brick Customer Support Center.</td>
</tr>
<tr>
<td>RBO10428E</td>
<td>RBWAPID could not start server: too many sessions or processes.</td>
</tr>
<tr>
<td></td>
<td><strong>Cause:</strong> RBWAPID could not either start a new session for the connection or fork a new server process.</td>
</tr>
<tr>
<td></td>
<td><strong>Response:</strong> Wait awhile and then try again.</td>
</tr>
<tr>
<td>RBO10429E</td>
<td>Error in setting socket option. os error:errno.</td>
</tr>
</tbody>
</table>
RBO10634E Unexpected SCFE warning number.

**Cause:** This is an internal error.

**Response:** Contact the Red Brick Customer Support Center.
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