



WHERESCAPE RED RELEASE NOTES

6.1.0-6.8.5.0

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WHEREscape RED RELEASE NOTES 6.1.0 - 6.8.5.0

This document details WhereScape RED's release significant new features, improvements as well as fixes and changes for each release since version 6.1.0.

To see the latest release notes of the most recent release of RED:

Login to <http://www.wherescape.com> and from the downloads page in the **Support** section, click on the RED **Release Notes** link.

SIGNIFICANT NEW FEATURES - PREVIOUS VERSIONS

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SIGNIFICANT NEW FEATURES 6.8.5.0

Detailed Features

- 1 Multiple default object subtypes can be set in Tools/Options
- 2 ValueColumn setting added for Microsoft Analysis OLAP Cubes' attributes
- 3 Default storage location enabled for all available objects
- 4 Target databases enabled for Teradata Data Warehouses
- 5 Improved File Load Wizard and default load options
- 6 Change of storage location enabled for multiple objects

Other New Features

- 1 WhereScape RED now supports Teradata 15.10 as a data warehouse database
- 2 WhereScape RED certified for PDW AU4 upgrade
- 3 Azure SQL Database enabled as a new Metadata Repository/Data Warehouse
- 4 Flat file loads into PDW using dloader
- 5 For Teradata TPT script-based loads from files, the check for source file existence can now be omitted from the script, making it easier to use built-in TPT functionality.

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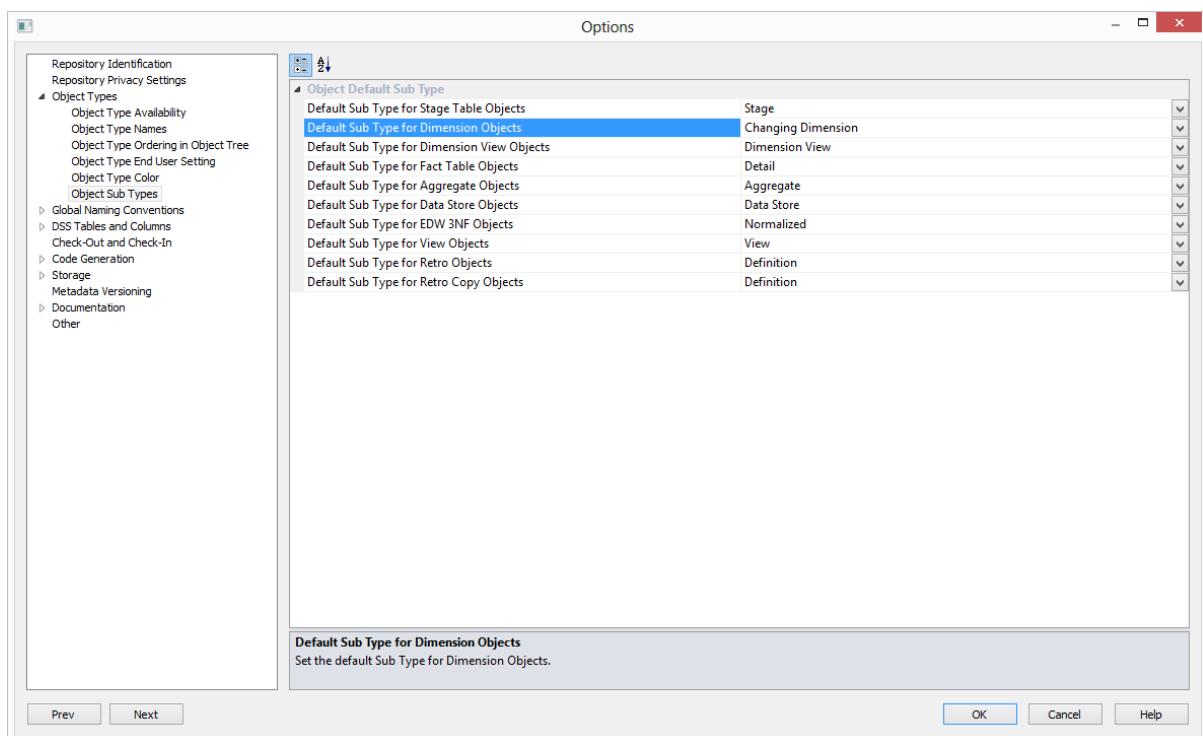
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MULTIPLE DEFAULT OBJECT SUBTYPES CAN BE SET IN TOOLS/OPTIONS

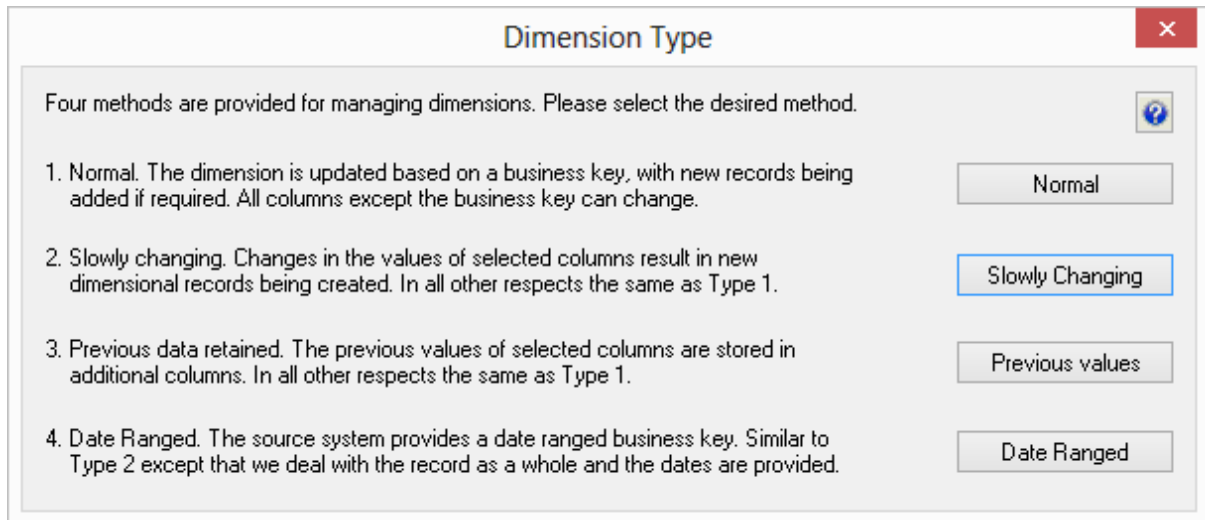
The setting of default object sub types has been extended and it is now possible to set default sub types for all for enabled object types in RED.

To set default sub types for an object type in RED, go to **Tools/Options -> Object Sub Types**.

As an example, to have **Dimension** objects created in RED as **Changing Dimensions** at the time of drag and drop, select the **Changing Dimension** option in the **Default Sub Type for Dimension Objects**.



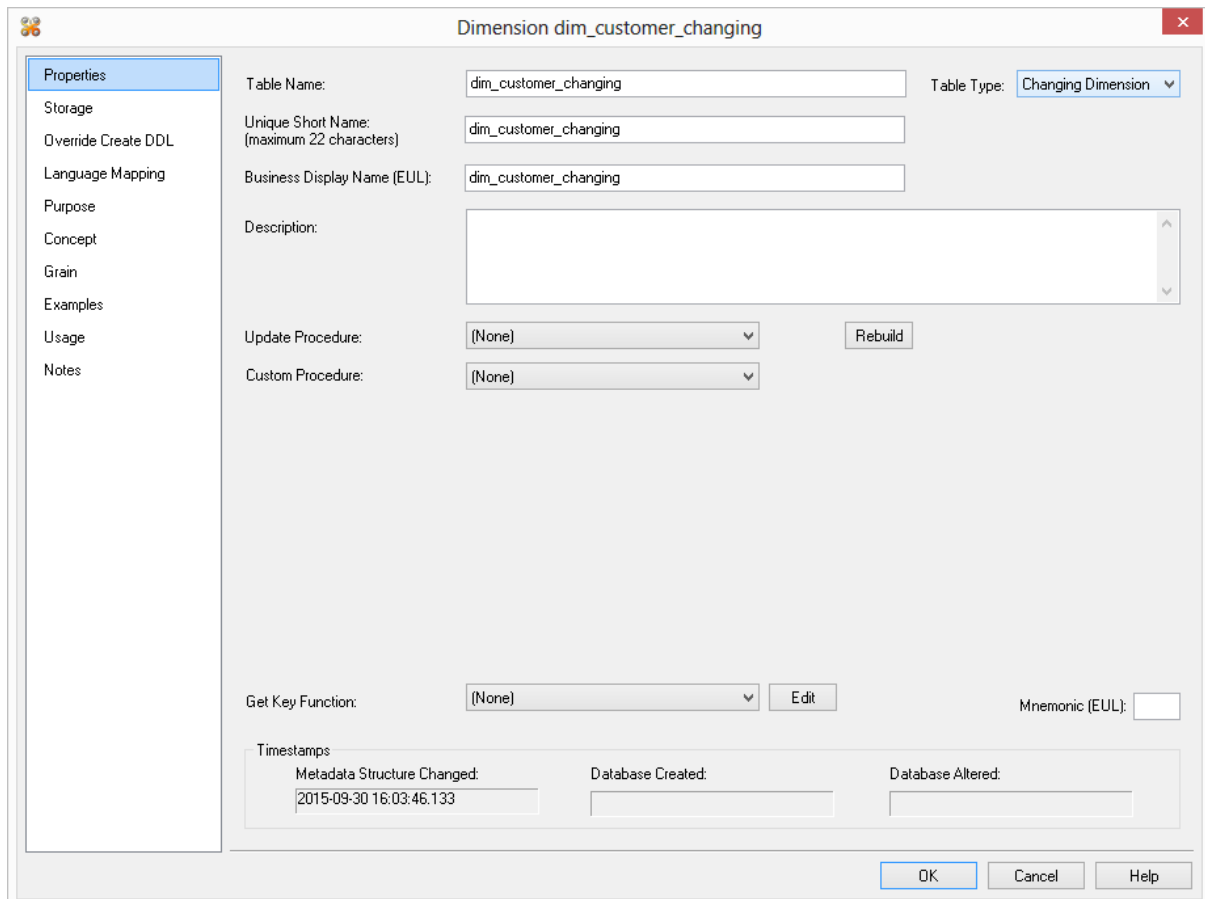
After the table is dragged and dropped, users can simply hit enter to proceed on the Dimension Type where the Slowly Changing type is already defaulting to the sub type option previously selected in Tool/Options.



The image shows a dialog box titled "Dimension Type" with a close button in the top right corner. The main text reads: "Four methods are provided for managing dimensions. Please select the desired method." Below this, there are four numbered options, each with a corresponding button:

- 1. Normal. The dimension is updated based on a business key, with new records being added if required. All columns except the business key can change.
- 2. Slowly changing. Changes in the values of selected columns result in new dimensional records being created. In all other respects the same as Type 1.
- 3. Previous data retained. The previous values of selected columns are stored in additional columns. In all other respects the same as Type 1.
- 4. Date Ranged. The source system provides a date ranged business key. Similar to Type 2 except that we deal with the record as a whole and the dates are provided.

The Dimension Properties' screen will reflect the selected table sub type on the **Table Type** drop-down list.



The image shows the "Dimension dim_customer_changing" Properties dialog box. It has a sidebar on the left with a tree view containing: Properties (selected), Storage, Override Create DDL, Language Mapping, Purpose, Concept, Grain, Examples, Usage, and Notes. The main area contains the following fields:

- Table Name:
- Table Type: - Unique Short Name: (maximum 22 characters):
- Business Display Name (EUL):
- Description:
- Update Procedure:
- Custom Procedure:
- Get Key Function:
- Mnemonic (EUL):
- Timestamps:
 - Metadata Structure Changed:
 - Database Created:
 - Database Altered:

At the bottom, there are buttons for OK, Cancel, and Help.

VALUECOLUMN SETTING ADDED FOR MICROSOFT ANALYSIS OLAP CUBES' ATTRIBUTES

New functionality for defining Microsoft Analysis OLAP Cubes Dimension Attributes has been added to RED. In addition to adding Key column and Name column setting, now **ValueColumn** settings can also be defined in RED.

Value Column setting specifies the details of the binding to the column containing the member value.

Using the Value Column OLAP cube attribute setting for Excel date filtering

In the relevant OLAP Date dimension ensure the OLAP Dimension Type property is set to "Time", then for the Key Attribute of the OLAP Date Dimension (e.g. dim_date_key) set the Value Column property to a date data type column (e.g. calendar_date). Usually it will be useful to set the Name Value property for the Key Attribute to a column containing a textual date format (e.g. dates presented in dd/mm/yy format). After publishing and processing the OLAP cube use Microsoft Office Excel PivotTables to expose date-specific filtering options for this dimension's hierarchies instead of label filtering options.

Olap Dimension Attribute odim_order_date.dim_order_date_key

Dimension Name:	odim_order_date	<- Update
Internal Attribute Name:	dim_order_date_key	Update ->
Published Name:	order_date	
Description:	Key for dim_order_date	
Estimated Count:	1	
Member Names Unique:	False	
Hierarchy Visible:	True	
Hierarchy Enabled:	True	
Hierarchy Optimized State:	FullyOptimized	
Hierarchy Display Folder:		
Order By:	Key	
Order By Attribute:		
Type :	Regular	
Usage:	Key	
Key Column:	dim_order_date	dim_order_date_key
Name Column:	dim_order_date	order_date
Value Column:	dim_order_date	order_date

OK Cancel Help

Note: For the ValueColumn setting to work, enabling date filtering in Excel Pivot Tables, the **OLAP Dimension Type** property must be set to **Time**.

The screenshot shows the 'Olap Dimension Order_Date' configuration dialog box. The 'OLAP Dimension Type' dropdown is highlighted with a red box and set to 'Time'. Other visible settings include:

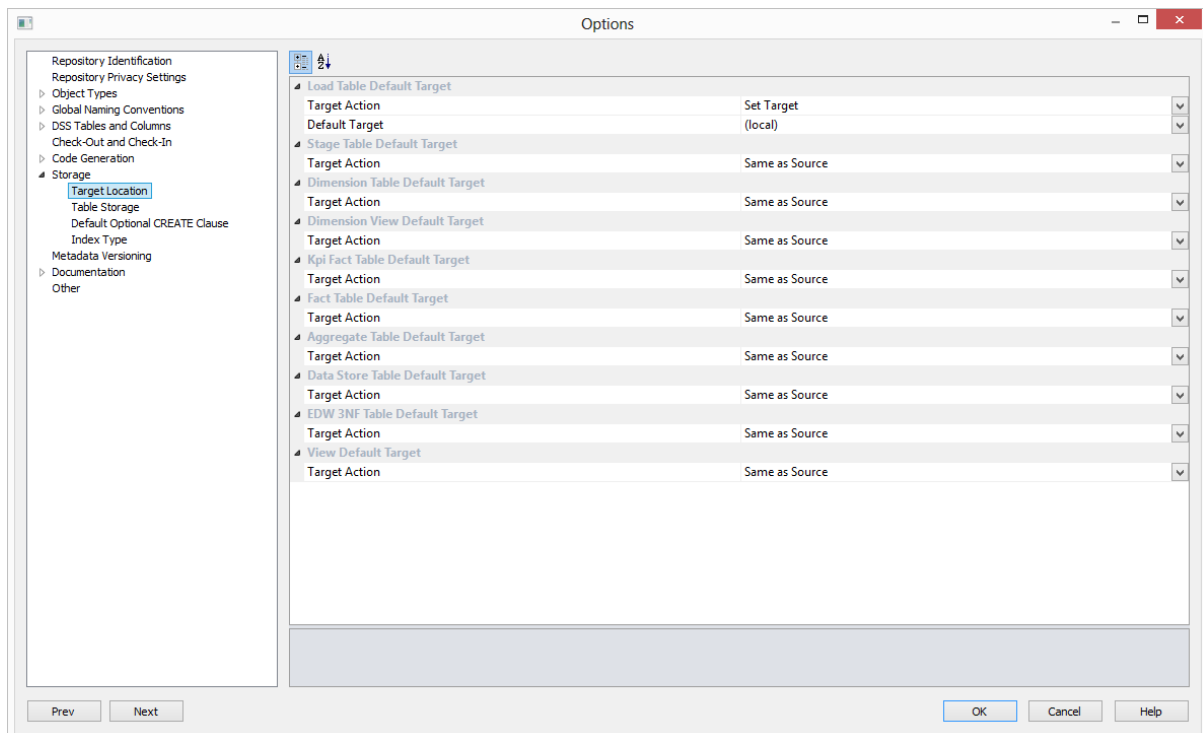
- Internal Dimension Name: Order_Date
- Dimension Publish Name: dim_order_date
- Dimension Description: Use this date dimension to track when the orders are coming in and determine the sales rep commission
- Default Database Connection: SSAS Cubes
- OLAP Database Name: OrderAnalysis
- Data Source Connection: DataWarehouse
- Data Source Provider Type: SQLOLEDB
- Data Source Server: WSL-DOC
- Data Source Database: WslWarehouse
- Post Create XML/A Script: (None)
- Source Table Type: Dimension View
- Source Table: dim_order_date
- Processing Group: ByAttribute
- Processing Mode: Regular
- Processing Method: Default process
- Storage Mode: MOLAP
- All Caption: All order_date
- Unknown Member Action: None
- Unknown Member Name: Unknown

DEFAULT STORAGE LOCATION ENABLED FOR ALL AVAILABLE OBJECTS

Table Location Options enables users that are placing objects across multiple schemas or databases to set default target locations for new tables.

In order to be able to use the target location functionality, the **Allow Object Schema** option must be enabled in the Repository Identification - see **Settings - Repository Identification** in the RED User Guide.

Default table target locations can be set for the following objects: **Load, Stage, Dimension, Dimension View, Kpi Fact, Fact, Aggregate, Join Index (Teradata Only), Data Store, Normalized and View Default.**



Target Location

Set Target

This option enables users to set a target and enables the Default Target drop-down list where a specific target for new tables can be selected.

Same as Source

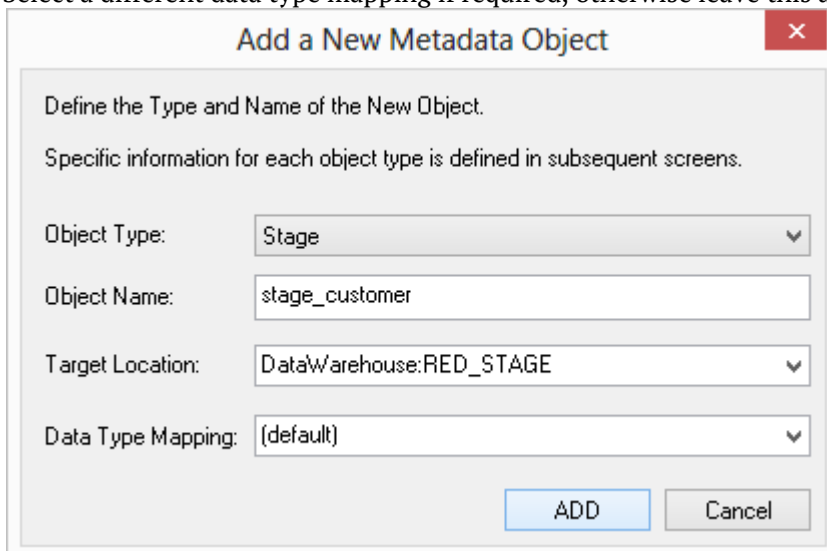
This option should be selected if the table's default storage should be same as the original source where the table is coming from. This option cannot be selected for Load Tables.

Default Target

A default target can only be entered if the **Set Target** action has been selected in the Target Action drop-down list.

With this option users can choose between setting a table's default location to **(local)** or to any other **target locations** that have been defined in the relevant connections.

- 1 When defining a new table in RED, the correct target location options should be set in the **Target Location** options before the table is created in the database. However, when using **drag and drop**, it is also possible to change the target database location of a particular table as you create it.
 - To locate a table in different target locations, select the relevant **Target Location** from the target location drop-down list as you drag and drop the table.
 - Select a different data type mapping if required, otherwise leave this as (default).



- 2 Even though the default target is typically set in the Target Location Options, this setting can also be changed after the table has been created on the **Storage** tab of each table's Properties screen. To see more information about changing the schema after a table has been created, refer to the **Table Storage Properties** topics in User Guides.

IMPROVED FILE LOAD WIZARD AND DEFAULT LOAD OPTIONS

In WhereScape RED 6.8.6.0, the Flat File load wizard has been improved for file loads from **Windows**, **UNIX/Linux** and **Hadoop** connections.

After the **drag and drop** process from the right pane to the middle pane, the following dialog will display for these connection types.

Data load Wizard

Load Type: File load

File parsing: Columns Parsed

File Parsing

First Rows from the File

```
product_code,customer_code,budget_quantity,budget_sales_value,budget_date
1002,228,185,409.92,2010-06-02 00:00:00
1008,228,80,978.58,2010-06-02 00:00:00
1003,227,62,572.42,2011-04-30 00:00:00
1007,227,98,766.17,2011-04-30 00:00:00
1004,226,40,218.00,2011-11-05 00:00:00
1006,226,40,618.00,2011-11-05 00:00:00
1009,225,74,940.24,2012-04-04 00:00:00
1002,225,74,163.97,2012-04-04 00:00:00
1006,225,40,618.00,2012-04-04 00:00:00
1007,225,98,766.17,2012-04-04 00:00:00
1004,225,74,402.54,2012-04-04 00:00:00
1003,224,15,134.85,2011-11-15 00:00:00
1008,224,15,177.34,2011-11-15 00:00:00
1001,224,15,159.50,2011-11-15 00:00:00
1001,223,74,812.46,2010-08-13 00:00:00
1009,223,29,369.17,2010-08-13 00:00:00
1007,223,00,000.00,2010-08-13 00:00:00
```

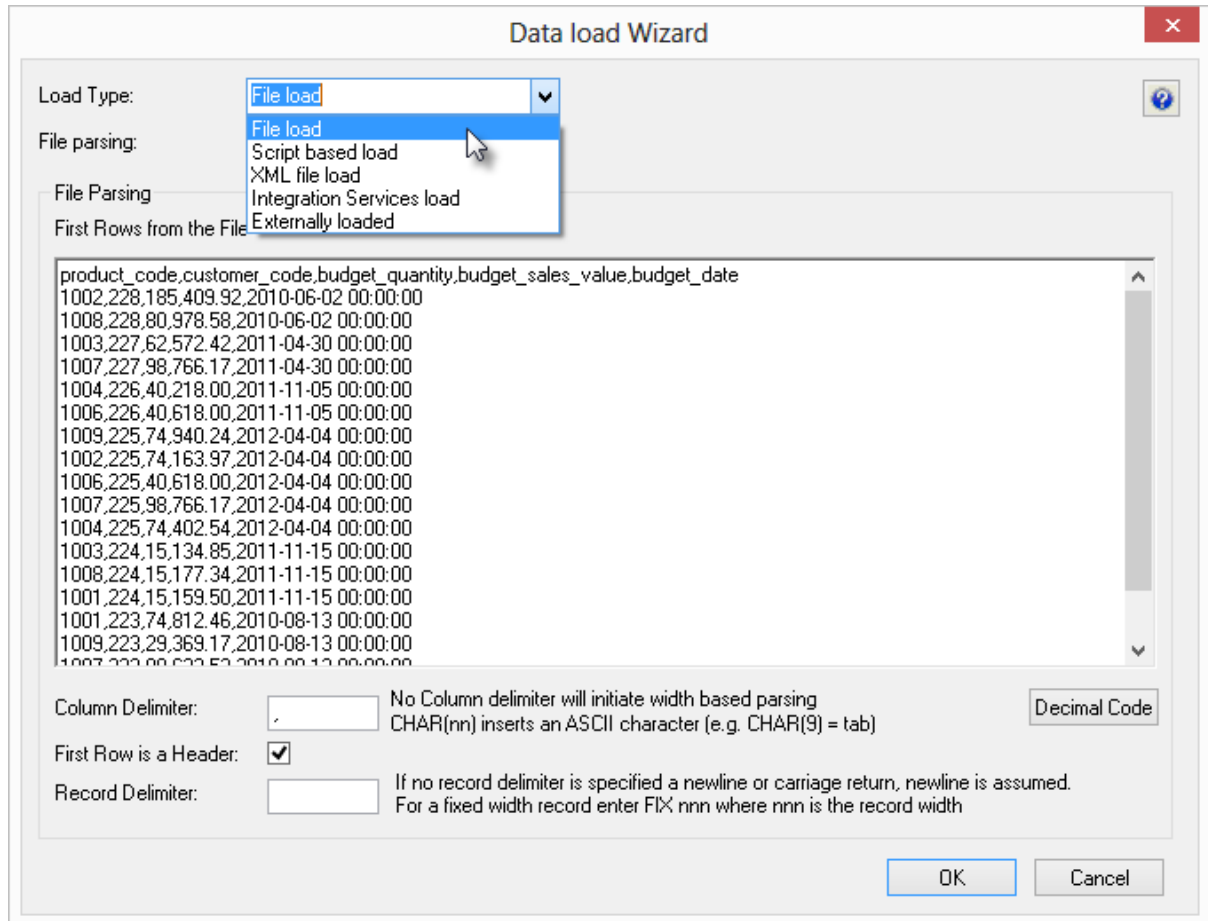
Column Delimiter: , No Column delimiter will initiate width based parsing
CHAR(nn) inserts an ASCII character (e.g. CHAR(9) = tab) Decimal Code

First Row is a Header:

Record Delimiter: If no record delimiter is specified a newline or carriage return, newline is assumed.
For a fixed width record enter FIX nnn where nnn is the record width

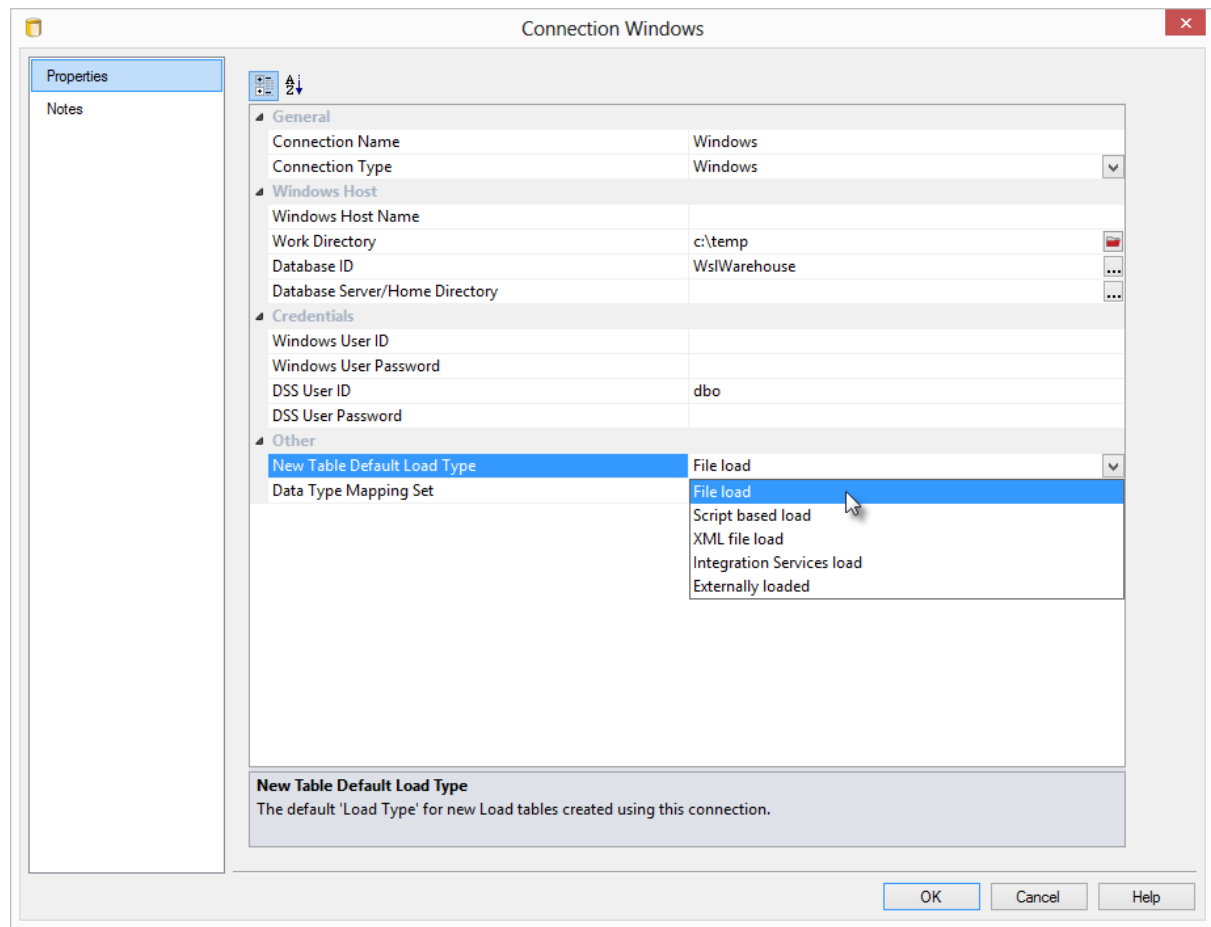
OK Cancel

- 1 The load type defined in the connection dialog will be the pre-selected option in the **Load type** drop-down list.
 - To change the desired load type and file parsing, use the **Load type** and **File parsing** drop-down list options.





WhereScape RED TIP: To set or change the default load type for file loads, set the desired load type in the **New Table Default Load Type** field of the relevant connection.



- 2 For more information on **Load type options** and **File Parsing options**, please refer to the **Flat File Load** sections in the User Guides.

TARGET DATABASE LOCATIONS ENABLED FOR TERADATA DATA WAREHOUSES

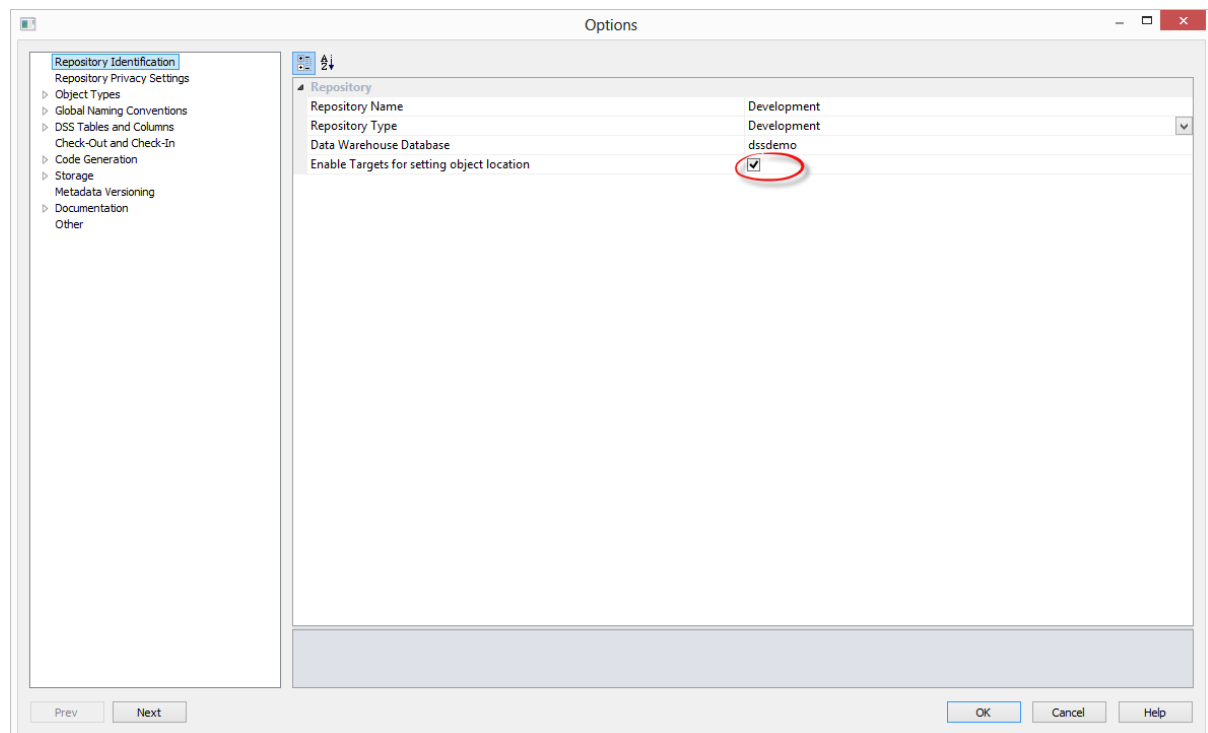
RED 6.8.6.0 introduces "targets" on connections for Teradata Data Warehouses. This new feature allows the user to define the database storage for a table on a connection level enabling simpler handling of deployments and database storage changes.

The basic steps to use target locations in WhereScape RED for Teradata are:

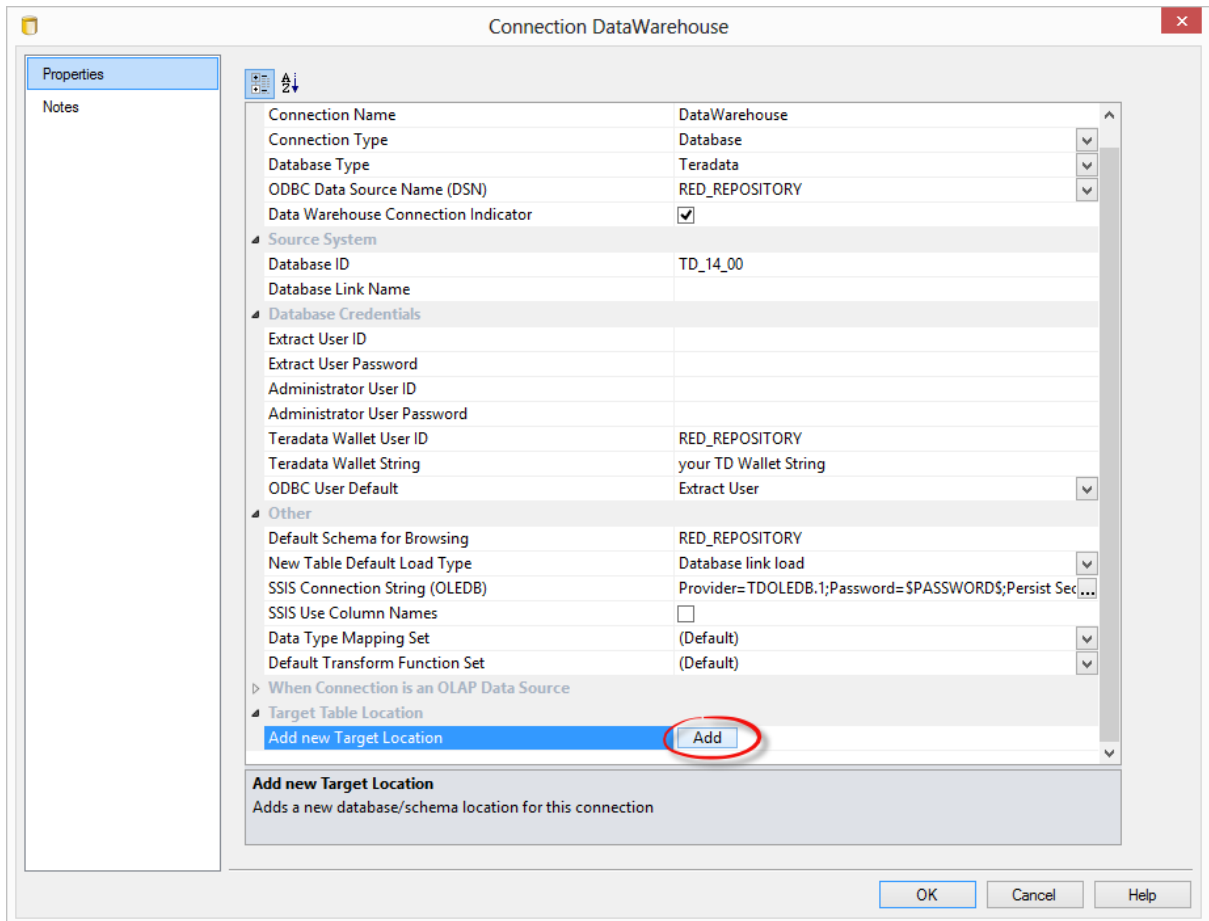
- Ensure the relevant target databases exist in Teradata. Create any databases that do not exist.
- Set the **Enable Targets for setting object location** option in the RED Repository Identification options.
- Add one or more target locations to the Data Warehouse connection in RED for each database you intend to use.
- Configure the Data Warehouse connection in RED to browse all required databases by default.
- Set the default target locations for **new tables** in the RED **Table Location** options.
- When defining a new table in RED, check and ensure the correct target is set on the **Storage** tab.

Highlights for using Target database locations for Teradata Data Warehouses in RED:

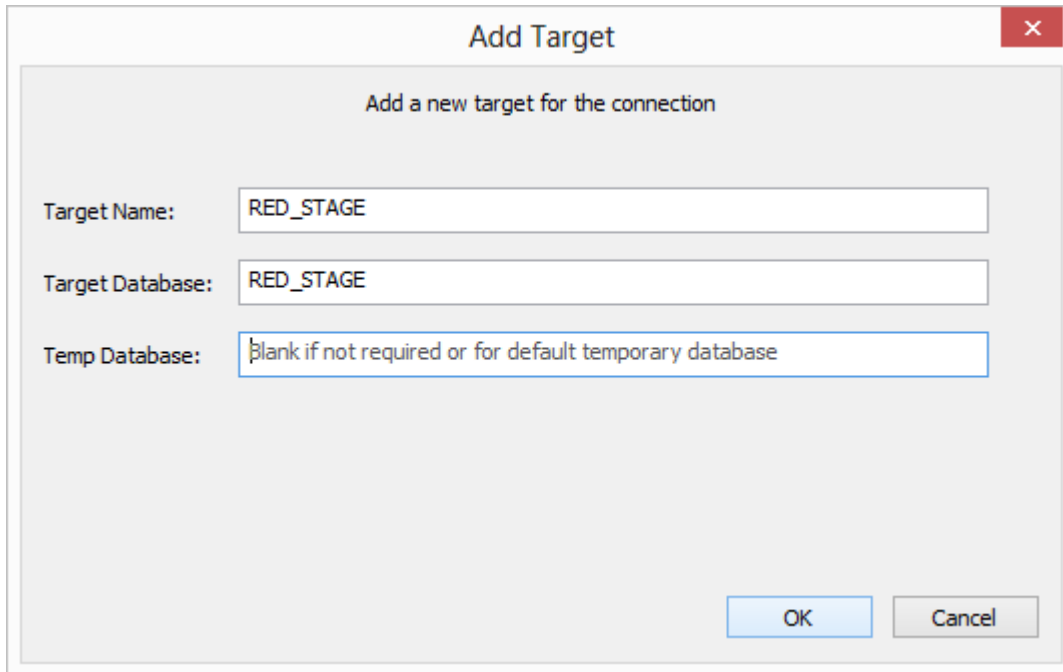
- 1 After logging in to WhereScape RED, make sure the **Enable Targets for setting object location** option is set in the **Tools->Options->Repository Identification** settings.



- 2 Add one or more target locations to the Data Warehouse connection in RED for each target database you want to use:
 - Click the **Add** button to add the required target locations for this connection.



- 3 Give the new **Target Database** a name and then enter the target's database. It is best to set the target name to the same name as the target database.



Add Target

Add a new target for the connection

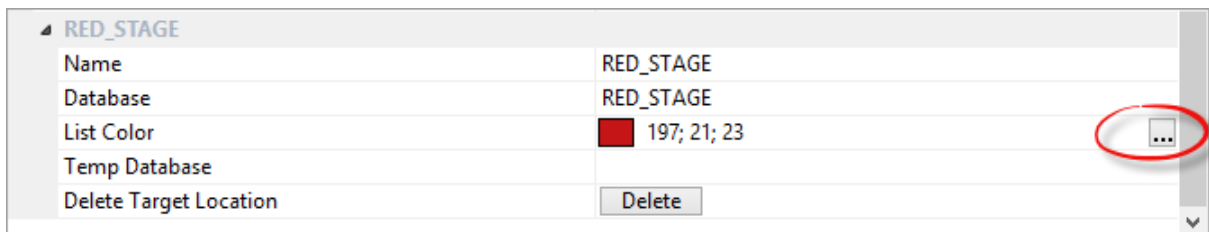
Target Name: RED_STAGE


Target Database: RED_STAGE

Temp Database: blank if not required or for default temporary database

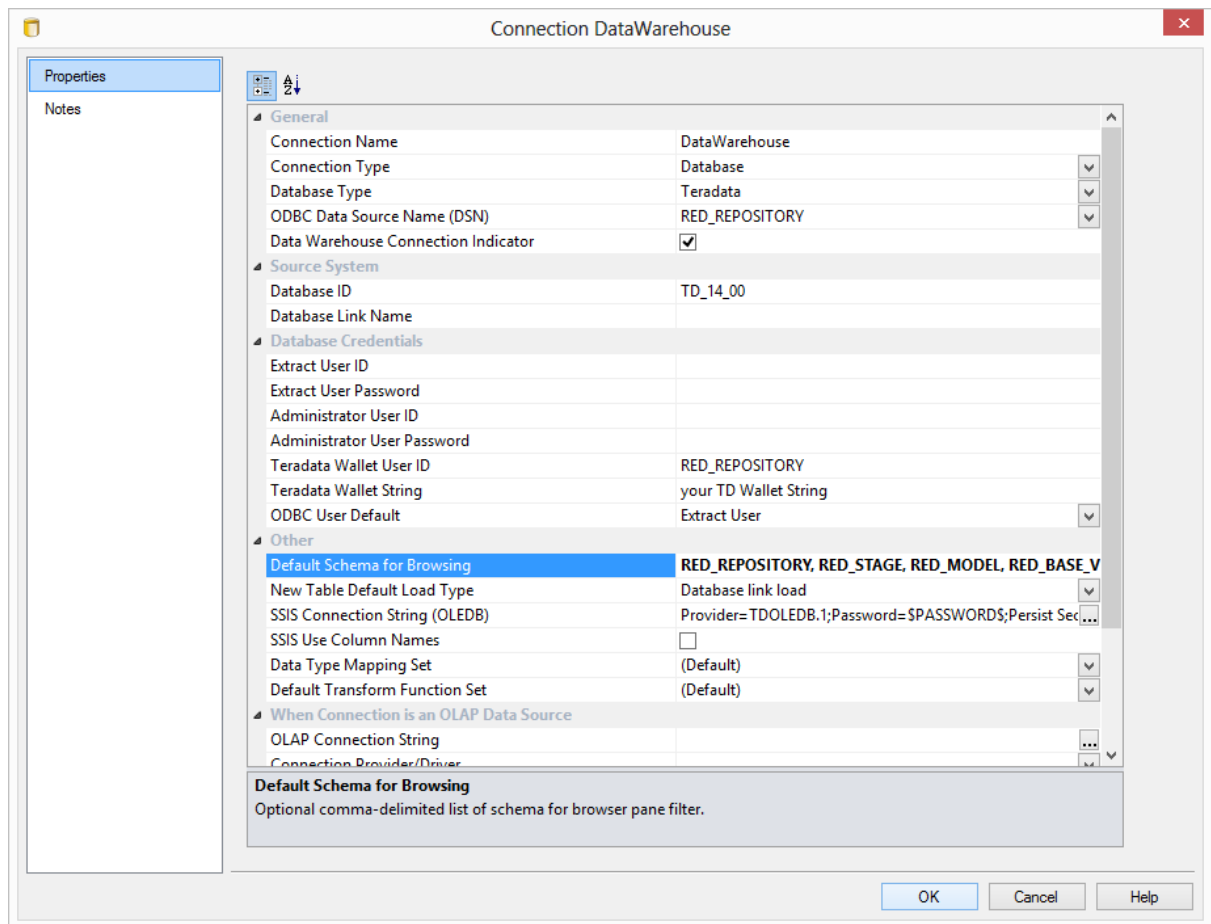
OK Cancel

- 4 Expand the target locations to change target database location colors or to delete target databases.



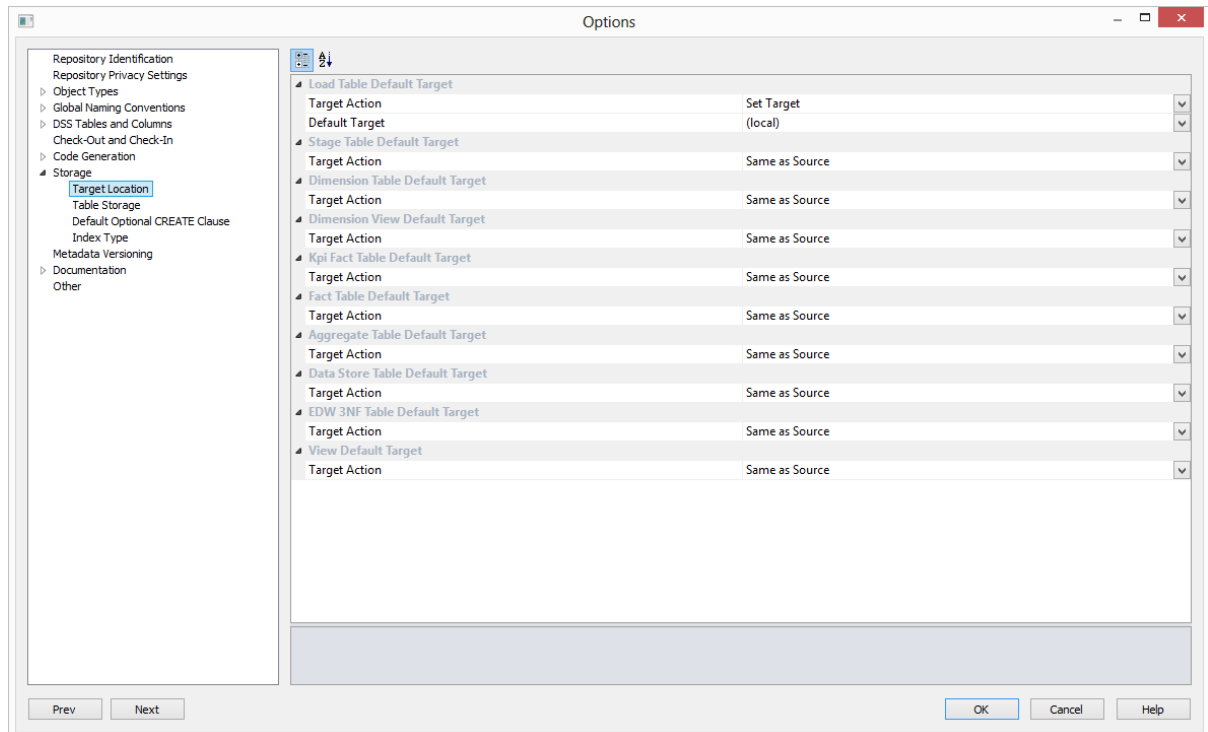
RED_STAGE	
Name	RED_STAGE
Database	RED_STAGE
List Color	 197; 21; 23
Temp Database	
Delete Target Location	Delete

- 5 Still in the **DataWarehouse** connection, add the new databases to the **Default Schema for Browsing** field separated by commas.



NOTE: While browsing this connection, RED will then display a list with all the target databases and their associated objects on the right-hand browser pane.

- 6 You are also able to set the default target location for **New Tables** in **Tools/Options**. This default target location is only applied when a new table is created, not for existing tables.
- Select between the **Set Target** option to set a default target location for new tables (or to use the table's storage) or
 - **Same as Source** to place new tables in the same database as their source.



- 7 Follow the usual steps for creating objects by using the drag and drop functionality. As you are defining a new table in RED, ensure the correct target location options are set in the **Target Location** options before creating the table in the database. When using drag and drop, it is also possible to change the target database location of a particular object as you create it. After a table has been created, it is also possible to change its target location on the **Storage** tab of the table's Properties screen.

NOTE: When upgrading from a RED version previous to 6.8.2.0 and moving existing objects to a target location, all procedures that reference those objects will need to be rebuilt. Any **FROM** clauses will also need to be manually regenerated in order for the table references to be updated to the new [TABLEOWNER] form.

CHANGE OF STORAGE LOCATION ENABLED FOR MULTIPLE OBJECTS

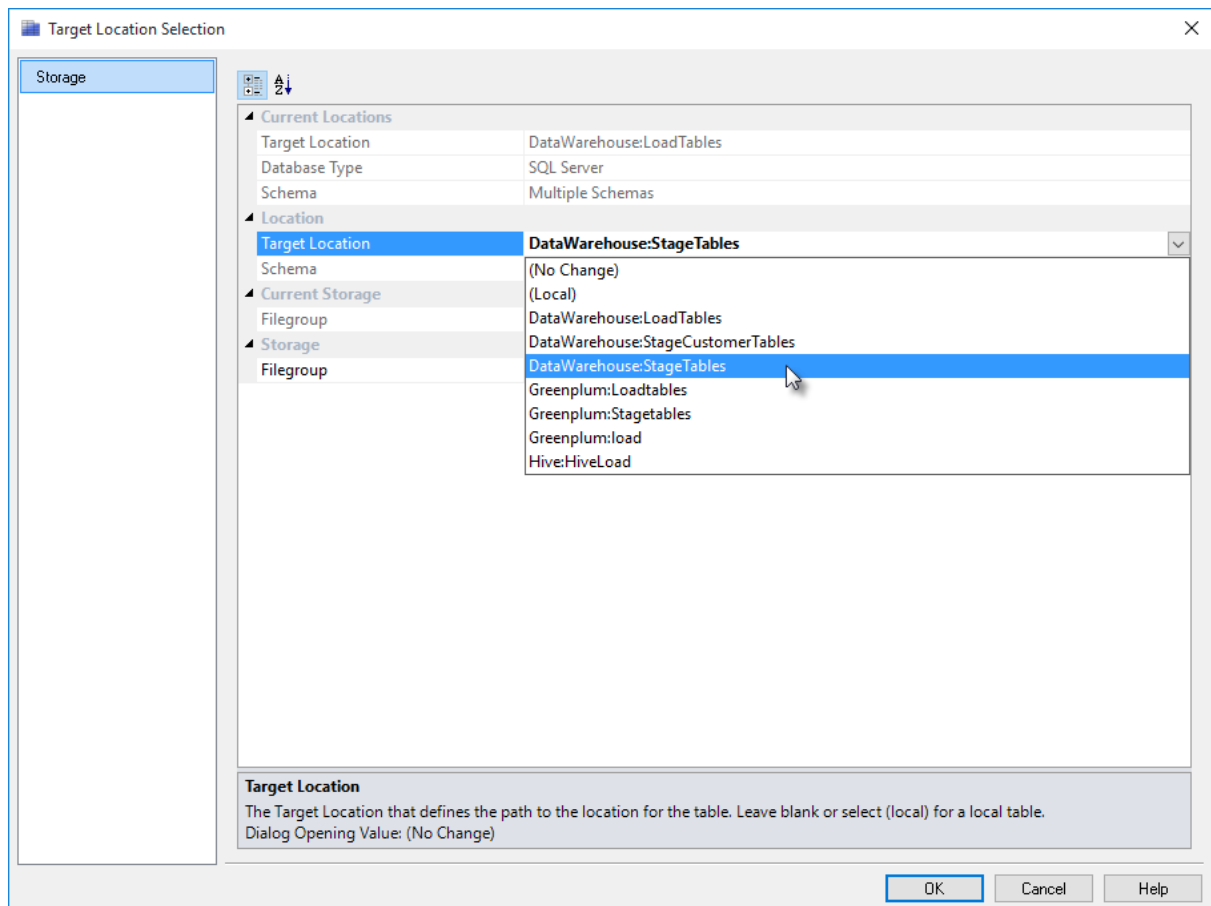
Table Storage locations can be changed through the Storage tab on a table's Properties dialog but with WhereScape RED 6.8.6.0 they can also be changed in bulk by using the following process:

- 1 Double-click on the desired object group in the left pane. This will display all the tables in that group in the middle pane.
- 2 Select the tables that you wish to change the storage for using standard Windows selection.
- 3 Right-click to bring up a menu and select **Storage**.

The screenshot shows a 'Stage Table' list with columns: Stage Table Name, Short Name, Stage Table Type, and Filegroup. Several rows are selected (highlighted in blue). A context menu is open over these selected rows, with the 'Storage' option highlighted by a mouse cursor. The menu items include Properties, Storage, Display Columns, Display Indexes, Display Data, Query via Excel, Report Zero Keys..., Add Column, Add Index, Regenerate Indexes, Change Column(s), Validate Against the Database, Update Comments, Gather Statistics, Version Control, Create (ReCreate), Truncate, and Delete Metadata and Drop Table.

Stage Table Name	Short Name	Stage Table Type	Filegroup
stage_address	stage_address	Stage	
stage_currency_rate	stage_currency_rat...	Stage	
stage_customer	stage_customer	Stage	StageTables
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			StageTables
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
stage_...			
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- 4 On the Target Schema Location Selection dialog, select the desired **Connection** for the schema change.
 - Select the new Target location to change all the selected load tables in bulk on the **Target** drop-down list.
 - Select any new required Filegroups in the **Filegroup** drop-down list in Oracle and SQL Server databases.



- 5 Follow the next dialogs to complete the bulk storage change.
Please note that **all procedures** from the affected tables will need to be **manually changed or regenerated** after a bulk storage change.
- 6 If the database type does not support moving tables such as Oracle, Greenplum, Netezza, Teradata and PDW, all affected tables will also need to be **manually recreated** after the storage change.

WARNING: Please note that changing the Storage for Dimension and Fact tables will need to be handled very carefully as artificial key relationships between Dimension and Fact could become out of sync.

Recreating Fact Tables and large Dimension tables might take a considerable amount of time.

SIGNIFICANT NEW FEATURES 6.8.4.0

Detailed Features

- 1 Oracle Loads from Hadoop - UNIX/Linux script based via OSCH (Oracle SQL Connector for HDFS) and OLH (Oracle Loader for Hadoop)
- 2 Teradata TPT Loads from Hadoop - UNIX/Linux script based
- 3 New Oracle multiple user login method for the RED repository
- 4 SQL Server Integration Services (SSIS) as a load method for Flat Files from Windows connections
- 5 SQL Server Integration Services (SSIS) loads enabled for Teradata
- 6 SQL Server Integration Services (SSIS) Exports
- 7 Greenplum Exports

Other Features

- 1 MAPS PDW as a target for a number of objects and associated stored procedures
- 2 Models exported from WhereScape 3D as a "RED Builder Model" can now be imported into Oracle Databases via the RED Application Deployment tool
- 3 Models exported from WhereScape 3D as a "RED Builder Model" can now be imported into Teradata Databases via the RED Application Deployment tool
- 4 Maximum Groups have been increased to 250; and maximum Projects increased to 1000
- 5 RED is now handling tables with more than 512 columns

RED 6.8.4.0 - ORACLE LOADS FROM HADOOP - UNIX/LINUX SCRIPT BASED VIA OSCH (ORACLE SQL CONNECTOR FOR HDFS) AND OLH (ORACLE LOADER FOR HADOOP)

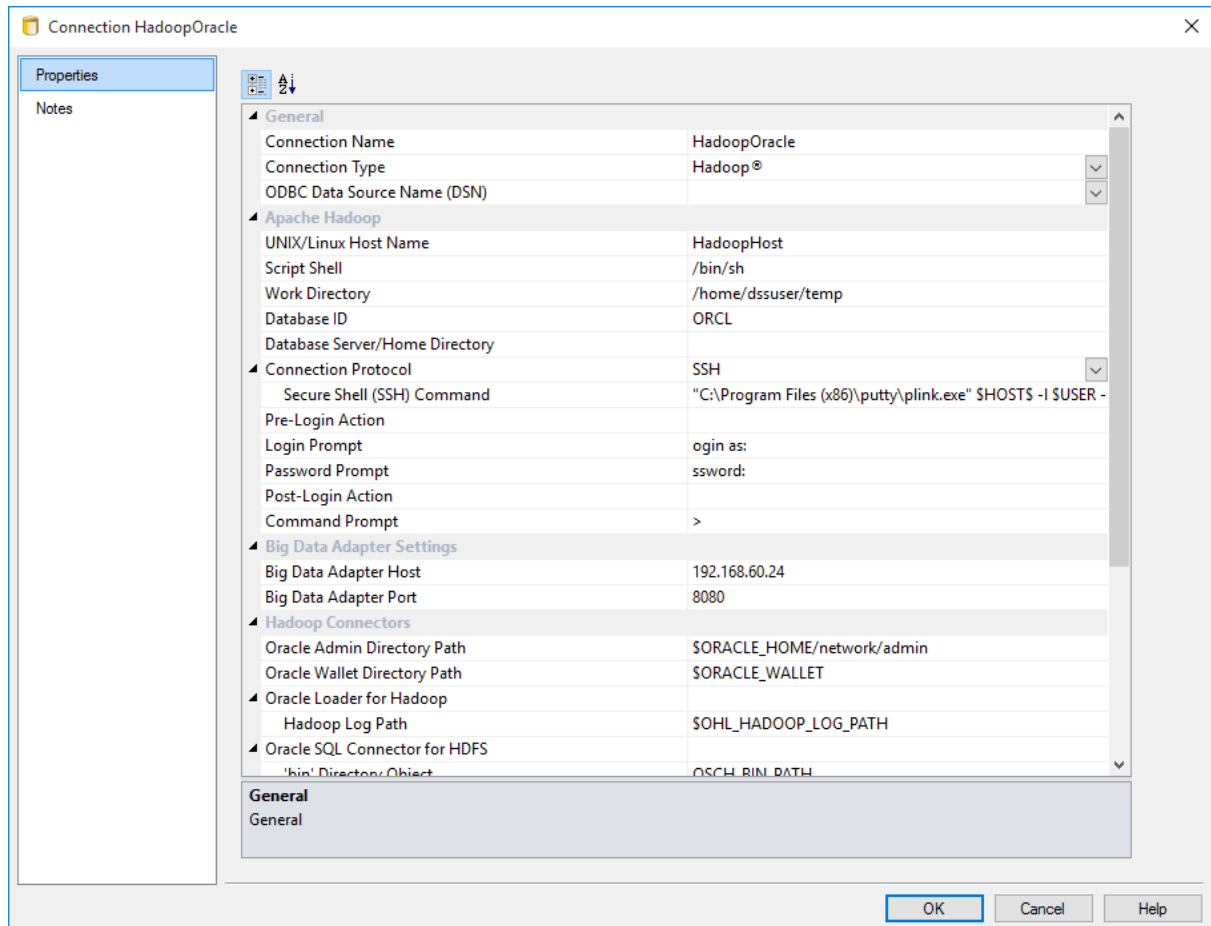
WhereScape RED allows loading data from Hadoop into an Oracle repository using Oracle's Big Data Connectors **Oracle SQL Connector for HDFS (OSCH)** and **Oracle Loader for Hadoop (OLH)**. Hadoop Data is loaded into RED using Oracle's Big Data connectors via a Hadoop connection on UNIX/Linux from which users can then do script based loads using RED's drag and drop functionality.

To process Hadoop loads from Oracle using the **OSCH** or **OLH** connectors, users will need to have the following system prerequisites before setting up a connection within RED:

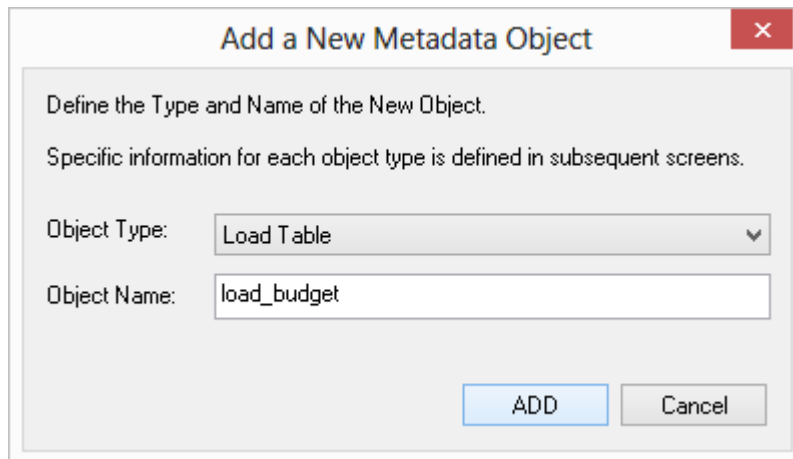
- Oracle on UNIX/Linux Hadoop tools installed on the Oracle Server and configured to connect to the Hadoop client
- **OSCH** installed and/or
- **OLH** installed
- **OSCH** and/or **OLH** configured to connect to the Hadoop cluster and the Oracle database
- Hadoop client installed
- Oracle Wallet created and configured
- For **OSCH** - Oracle Directory Objects configured for the database user
- User permissions

For more details about loading data using Oracle's Big Data Connectors and scheduler configuration settings for the database user, see section 7.1.6.1.1 **Hadoop Oracle Connection** of the RED User Guide and section 9.8.1 **Unix Scheduler for Hadoop loads using Oracle's Big Data Connectors** of the WhereScape Installation Guide.

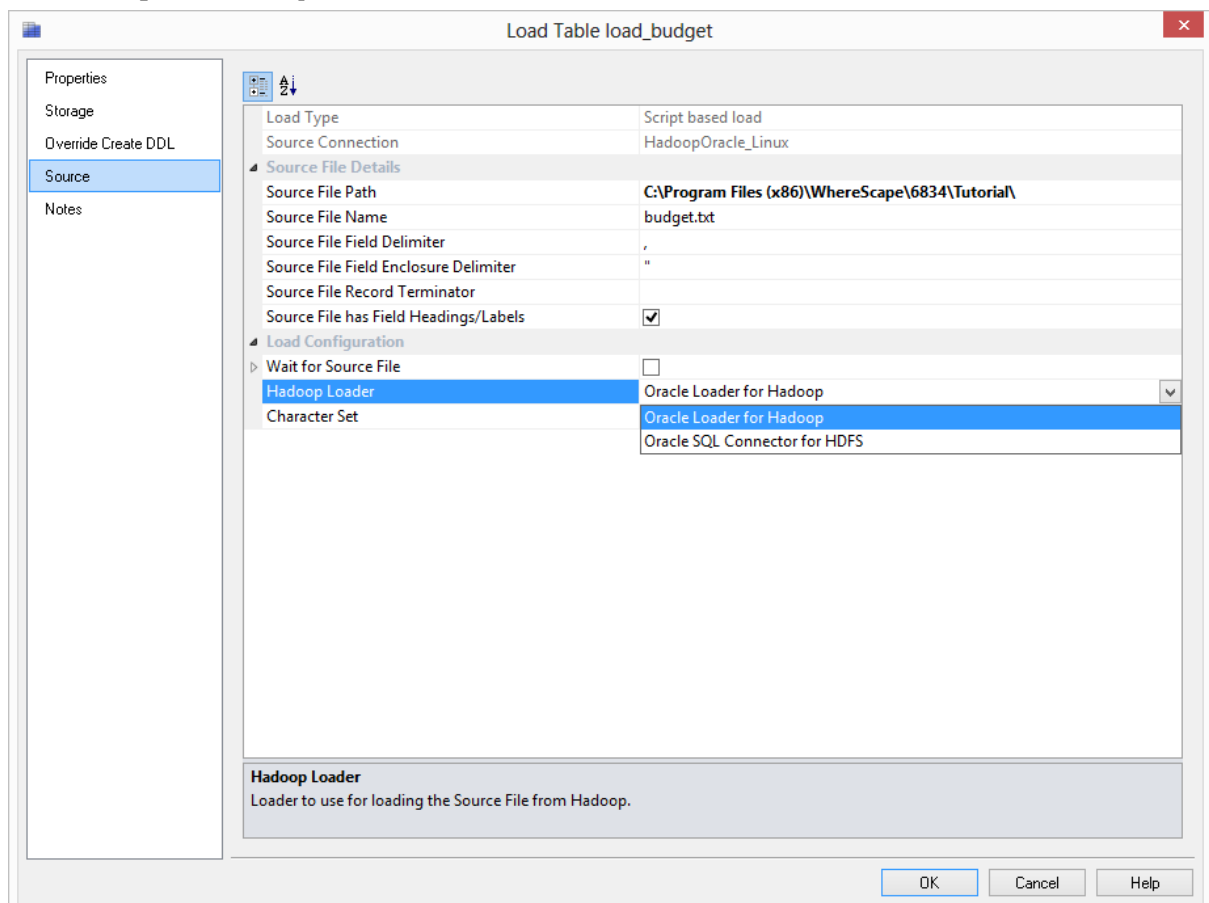
- 1 After the relevant prerequisites have been set up, create a Hadoop connection in RED, filling in the required fields, including the **Hadoop Connectors** fields for using either **OSCH** or **OLH**.



- 2 Browse the **Hadoop** connection to the directory and file.
- 3 Double-click on the **Load Table** object in the left pane to create a drop target.
- 4 Drag the file from the right pane and drop it into the middle pane.
 - If the object needs to be renamed, rename it, otherwise click **ADD** to continue.



- 5 Go through the **Data Load Wizard** and when the Properties screen is displays, click the **Source** tab to select the relevant connector for loading the table.
 - Select either **Oracle Loader for Hadoop** or **Oracle SQL Connector for HDFS** from the **Hadoop Loader** drop-down list.



- 6 Click **OK** on the New Script dialog and then click **Yes** to Create and Load the table.

RED 6.8.4.0 - TERADATA TPT LOADS FROM HADOOP - UNIX/LINUX SCRIPT BASED

Teradata TPT Loads from Hadoop are now enabled in WhereScape RED for loading data directly from a Hadoop System into a Teradata repository.

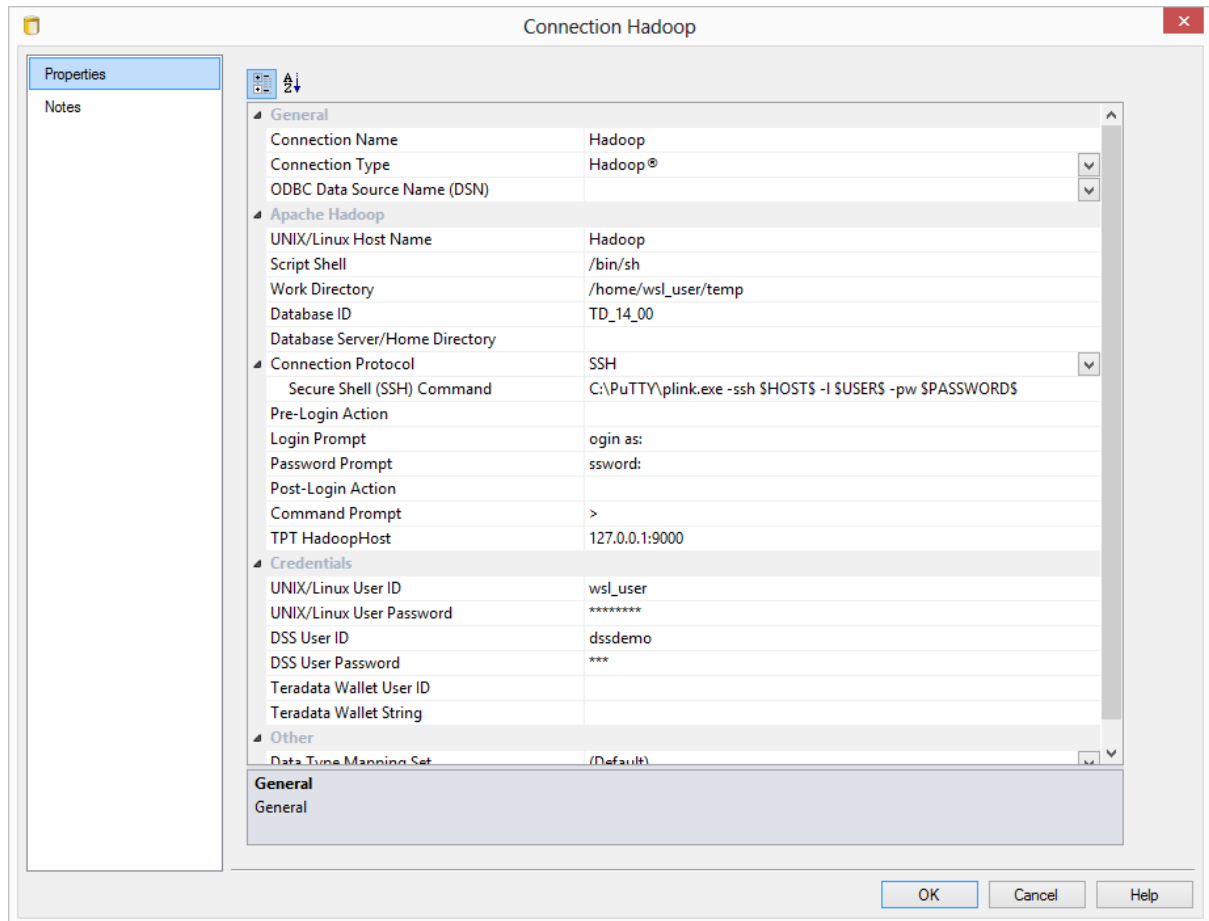
Hadoop data is loaded into RED via a Hadoop connection on UNIX/Linux from which users can then do TPT script based loads using RED's drag and drop functionality.

To be able to process **Teradata TPT Loads from Hadoop**, users will need to have the following system prerequisites before setting up a connection within RED:

- Install **Hadoop**
- Include Hadoop Client Jar files in **Classpath**

To set up a **Hadoop** connection in RED:

- Select **Hadoop** as the connection type and fill in all the relevant fields, including the **TPT Hadoop Host** field.
TPT HadoopHost is the IP address or host name (and optional port number) that identifies the Hadoop Host to a TPT load routine, in order to connect to the Hadoop file system from the machine you run TPT from. e.g, **HadoopHost:9000** or **127.0.0.1:9000**.
If this is not specified, then the UNIX/Linux Host Name will be used as the Hadoop Host to the TPT load routine.
- After browsing the Hadoop connection, users can **drag and drop** files to do TPT script-based loads.



WhereScape RED Tip:

When doing Teradata TPT Loads from Hadoop, RED supports loading multiple files based on a file name wildcard. To load multiple files, users will need to select the **Update TPT** load routine option from the Load table's **Source** screen and enable the **Script Load supports File Name Wildcards** option.

When this option is enabled and the **Source File name** contains a wildcard, the RED generated script will loop to load each matching file while preserving the contents of the load table as each file is loaded. In addition the Archived Source Path and/or Archived Source File Name properties must be specified to allow each successfully loaded file to be archived before loading a subsequent file.

Example

Add * to the **Source File Name**. e. g. **hadoop_customer.csv***

RED 6.8.4.0 - NEW ORACLE MULTIPLE USER LOGIN METHOD ENABLED FOR THE RED REPOSITORY

For Oracle users wanting each developer to log into Oracle using their own username and password, WhereScape added the new **Oracle Individual User** Logon Method.

WhereScape's Oracle Individual User option allows a user, with the appropriate permissions, to log into WhereScape RED and then operate as the RED schema.

This method enables customers to configure RED ensuring that users logged in via this method cannot edit the metadata user password in the connections, and also ensuring that the password is encrypted in **Tools>Options**.

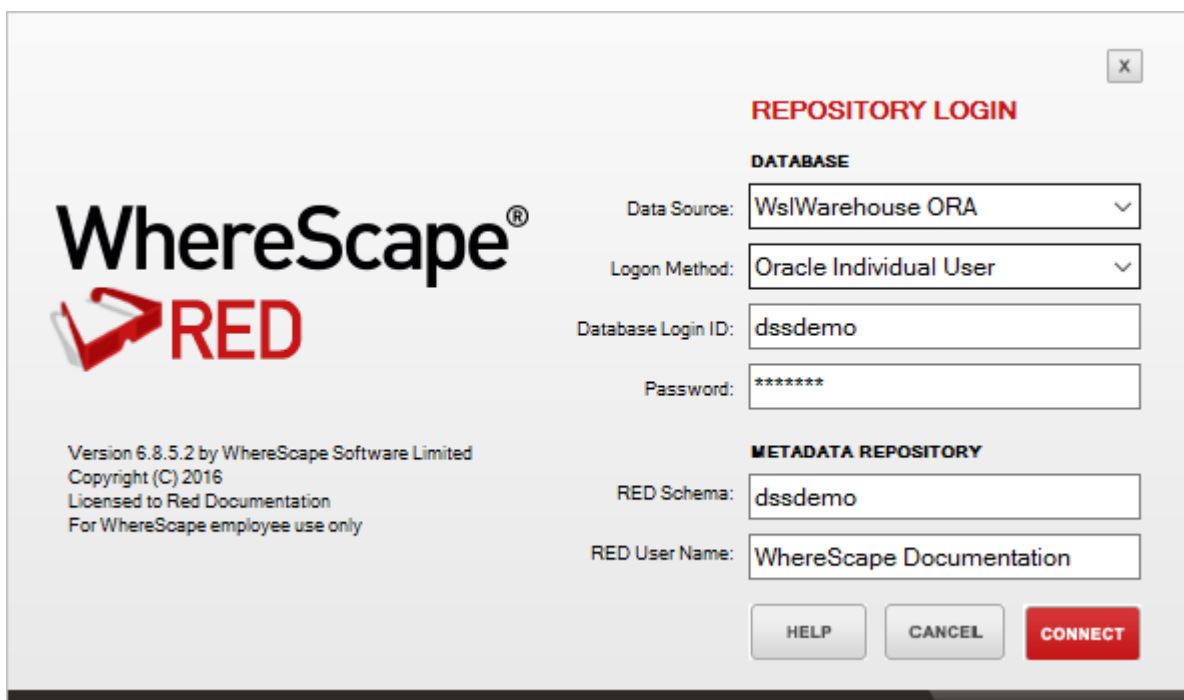
To authorize users to log in to RED using the Oracle Individual User method, a DBA will need to grant users select on the **ws_dbc_connect** table, as well as the **CREATE SESSION** system privilege.

This is also a useful method for tracking individual WhereScape RED user activity in the Oracle database. Their authenticating user name is now stored in the CLIENT_IDENTIFIER field of v\$session which can be used by Oracle's auditing, functioning to track individual developer activity.

Oracle individual users will need to be created and granted certain privileges. Alternatively, for existing Oracle database users, they just need to be granted the following privileges below:

```
grant create session to oracle_user1
grant select on dssdemo.ws_dbc_connect to oracle_user1
```

- 1 To ensure the **Repository Privacy Settings** is locked in **Tools>Options**, the RED metadata user needs to log in to RED before any individual user. To log in:
 - Select the **DB User/Password** option from the Logon Method drop-down menu.
 - Enter the user name and password for the metadata user.
 - Enter the RED **schema**.



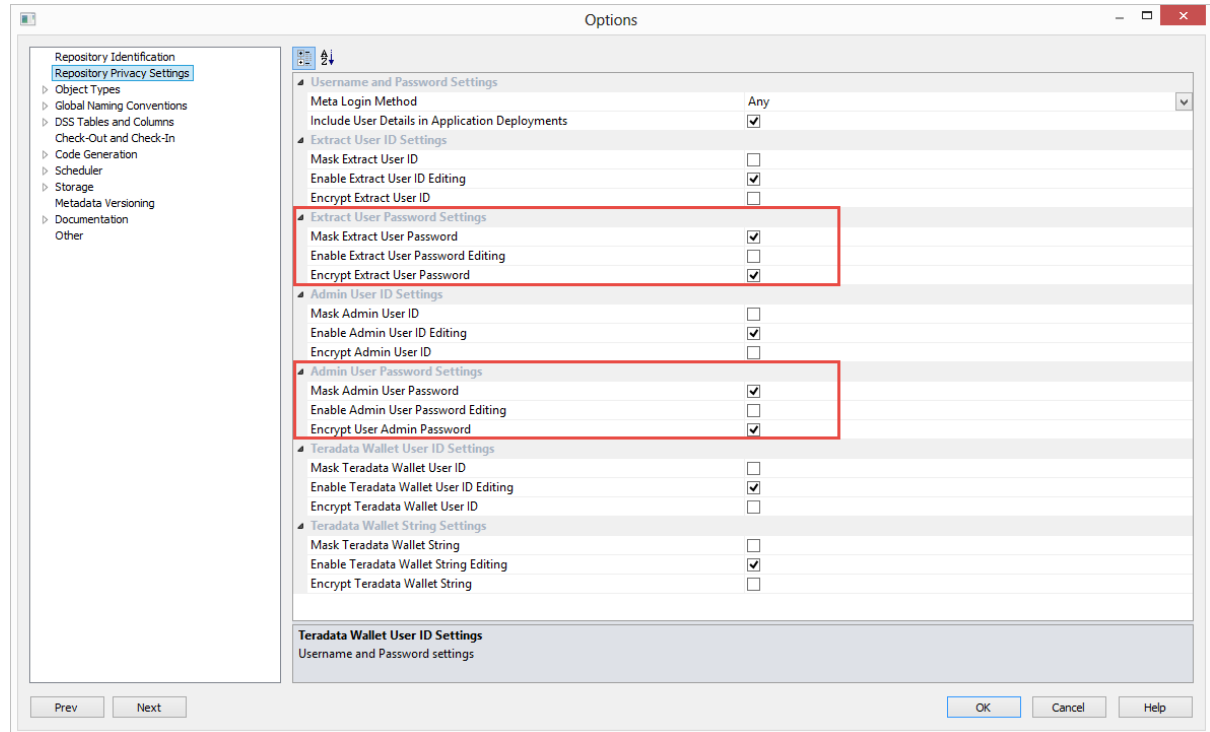
The screenshot shows the 'REPOSITORY LOGIN' dialog box. On the left is the WhereScape RED logo and version information: 'Version 6.8.5.2 by WhereScape Software Limited', 'Copyright (C) 2016', 'Licensed to Red Documentation', and 'For WhereScape employee use only'. On the right, there are two sections: 'DATABASE' and 'METADATA REPOSITORY'. The 'DATABASE' section includes 'Data Source' (WslWarehouse ORA), 'Logon Method' (Oracle Individual User), 'Database Login ID' (dssdemo), and 'Password' (masked with asterisks). The 'METADATA REPOSITORY' section includes 'RED Schema' (dssdemo) and 'RED User Name' (WhereScape Documentation). At the bottom are 'HELP', 'CANCEL', and 'CONNECT' buttons.

- 2 Once logged in to RED, the metadata user needs to do the following in **Tools>Options>Repository Privacy settings**:
 - Check the option to enable the **Mask Extract User Password**.
 - Un-check the option to disable the **Extract User Password Editing** (this will lock down the metadata user password in the connections).
 - Check the option to enable the **Mask Admin User Password**.
 - Un-check the option to disable the **Enable Admin User Password Editing** (this will lock down the Admin/Dss User Password in the connection properties).

NOTE: Encrypt User/Admin User Password Options

Users should also check the options to enable **Encrypt User Password** and **Encrypt Admin User password** as shown in the example screenshot below.

For **UNIX/Linux scheduler** processing User and Password Encryption implications, please see section 5.1.1.2 Settings - Repository Privacy Settings in the RED User Guide.



3 Multiple users can then login to RED using their own credentials by:

- Selecting the **Oracle Individual User** option from the **Logon Method** drop-down menu.
- Entering their user name and password.
- Entering the RED schema.

REPOSITORY LOGIN

DATABASE

Data Source: WslWarehouse ORA

Logon Method: Oracle Individual User

Database Login ID: oracle_user1

Password: *****

METADATA REPOSITORY

RED Schema: dssdemo

RED User Name: WhereScape Documentation

HELP CANCEL CONNECT

WhereScape®
RED

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4 Users that log in to RED via the **Oracle Individual User** method will have their **Repository Privacy Settings** completely disabled.

Options

Repository Identification
Repository Privacy Settings
Object Types
Global Naming Conventions
DSS Tables and Columns
Check-Out and Check-In
Code Generation
Scheduler
Storage
Metadata Versioning
Documentation
Other

Update of Meta Admin Table Disabled

Username and Password Settings

Meta Login Method Any

Include User Details in Application Deployments

Extract User ID Settings

Mask Extract User ID

Enable Extract User ID Editing

Encrypt Extract User ID

Extract User Password Settings

Mask Extract User Password

Enable Extract User Password Editing

Encrypt Extract User Password

Admin User ID Settings

Mask Admin User ID

Enable Admin User ID Editing

Encrypt Admin User ID

Admin User Password Settings

Mask Admin User Password

Enable Admin User Password Editing

Encrypt User Admin Password

Teradata Wallet User ID Settings

Mask Teradata Wallet User ID

Enable Teradata Wallet User ID Editing

Encrypt Teradata Wallet User ID

Teradata Wallet String Settings

Mask Teradata Wallet String

Enable Teradata Wallet String Editing

Encrypt Teradata Wallet String

Prev Next OK Cancel Help



WhereScape RED TIP: Oracle Individual User System Information

The permissions below are required to list and see user session, session locks and user locks information for Oracle individual users.

```
grant select on sys.v_$sql to dssdemo;  
grant select on sys.v_$sess_io to dssdemo;  
grant select on sys.v_$locked_object to dssdemo;  
grant select on sys.v_$lock to dssdemo;
```

The screenshot shows the SQL Developer interface with the following data in the Output window:

USERNAME	STATUS	OSUSER	CLIENT_IDENTIFIER	PROGRAM	SQL_TEXT (WARNING: Output truncated to 256 characters)	SID
DSSDEMO	ACTIVE	User		Connecting ... - []	select distinct username, status ,osuser, client_identifier, program, sql_te...	72
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		24
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		26
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		36
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		45
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		48
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		49
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		50
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		53
DSSDEMO	INACTIVE	User	dssdemo	WhereScape RED		55
DSSDEMO	INACTIVE	User	oracle_user1	WhereScape RED		47
DSSDEMO	INACTIVE	User	oracle_user1	WhereScape RED		67
DSSDEMO	INACTIVE	User	oracle_user1	WhereScape RED		73
DSSDEMO	INACTIVE	User		Connecting ... - []		17
DSSDEMO	INACTIVE	User		Connecting ... - []		41

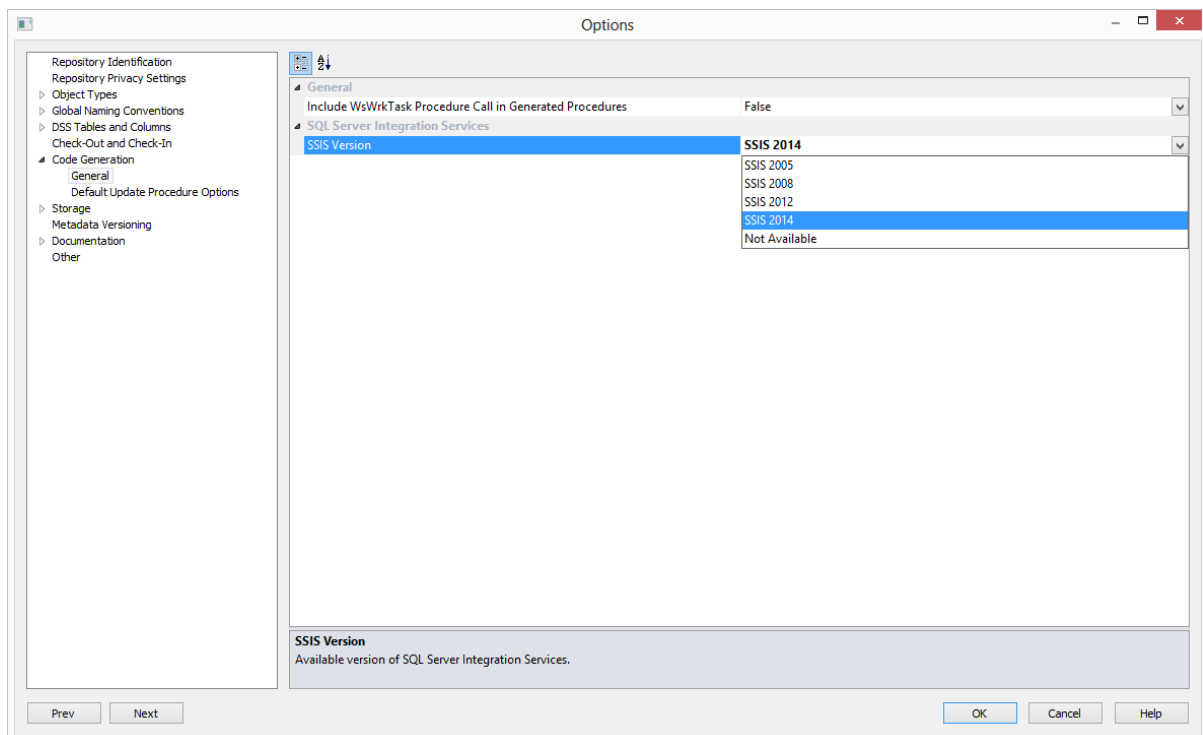
RED 6.8.4.0 - SQL SERVER INTEGRATION SERVICES (SSIS) AS LOAD METHOD FOR FLAT FILES FROM WINDOWS CONNECTIONS

Flat files can now be loaded into RED from a Windows Connection using SQL Server Integration Services (SSIS).

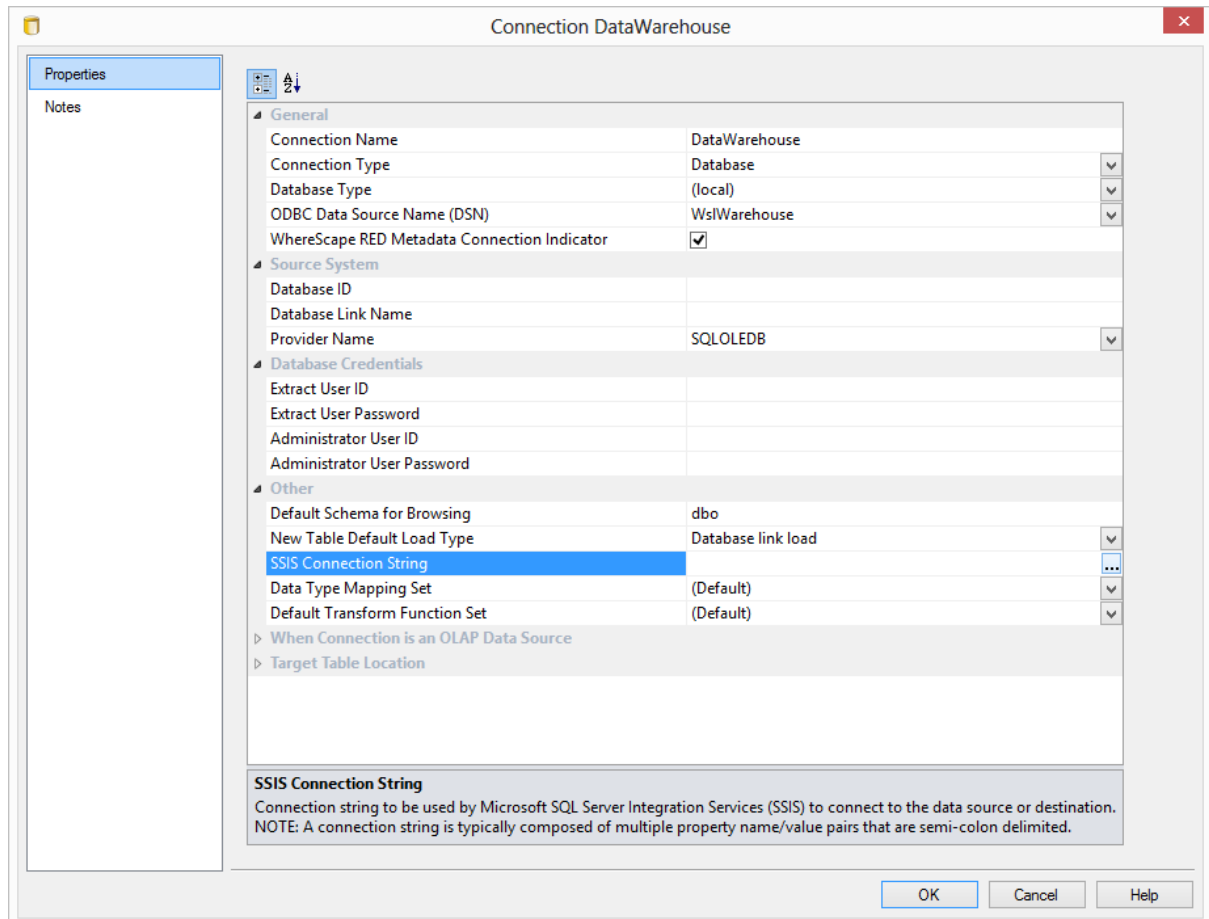
For more details about this new feature which is also available for Teradata databases, see section **8.9.1 Loading Data from Flat Files using SSIS - BETA** of the Teradata User Guide.

The instructions below detail how to add the SSIS connection string to the data warehouse connection and load flat files using the **drag and drop functionality** to create load tables. To load files via SSIS, the SSIS connection string must be defined in the DataWarehouse connection.

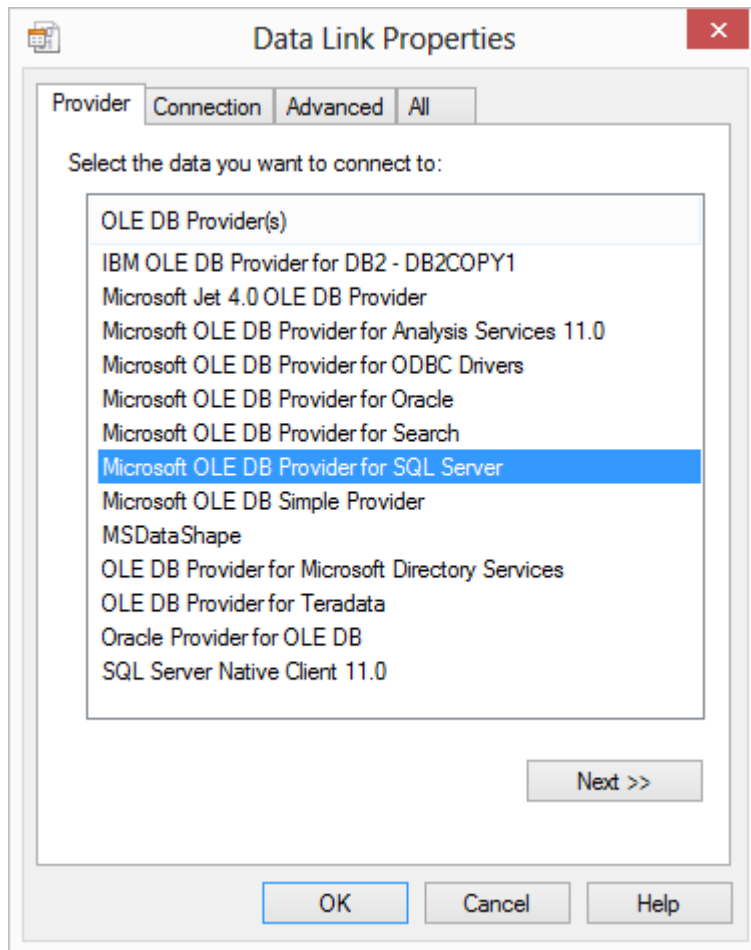
To use SSIS loading, ensure that SSIS loads are enabled by selecting the relevant SSIS version in **Tools->Options->Code Generation->General->SSIS Version**.



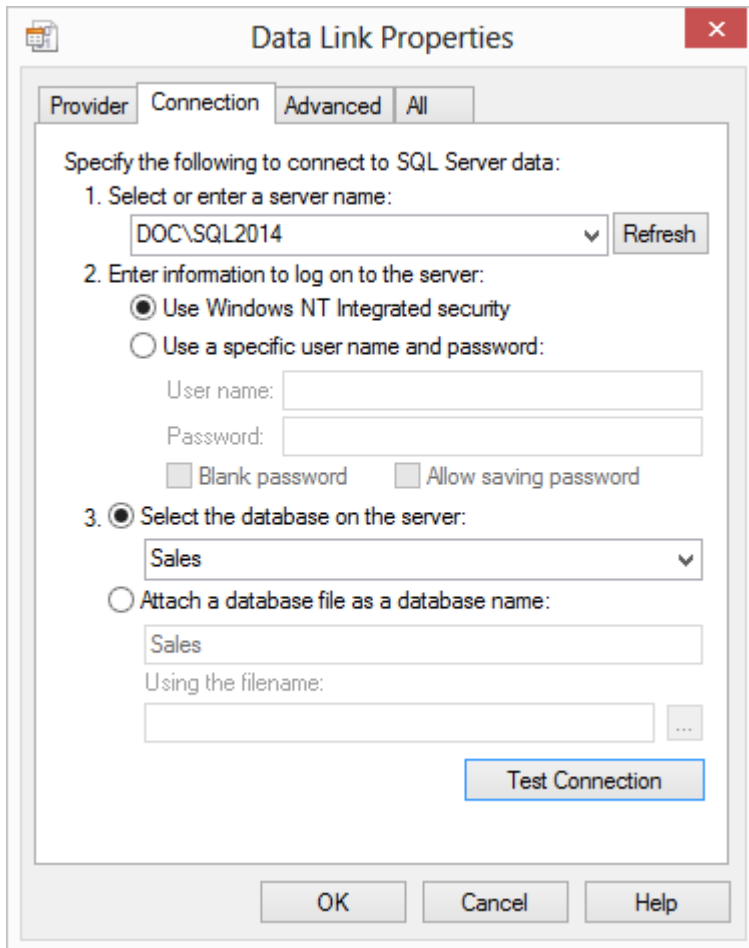
- 1 To load files via SSIS, the SSIS connection string must be defined in the DataWarehouse connection for the **Destination** connection to be specified:
 - Double-click on the **DataWarehouse** connection in the object explorer to open up the Properties dialog.
 - Click on the ellipsis button to open the wizard and define the SSIS connection string.



- 2 On the Provider tab, select the relevant **OLE DB Provider** and click **Next**.



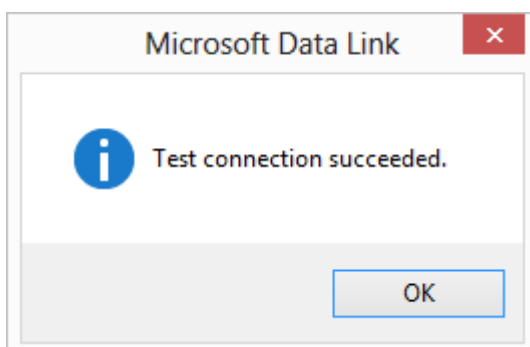
- 3 On the **Connection** tab, select the **server name**, enter the information to log on to the server and select the **database** on the server. Click **Test Connection**.



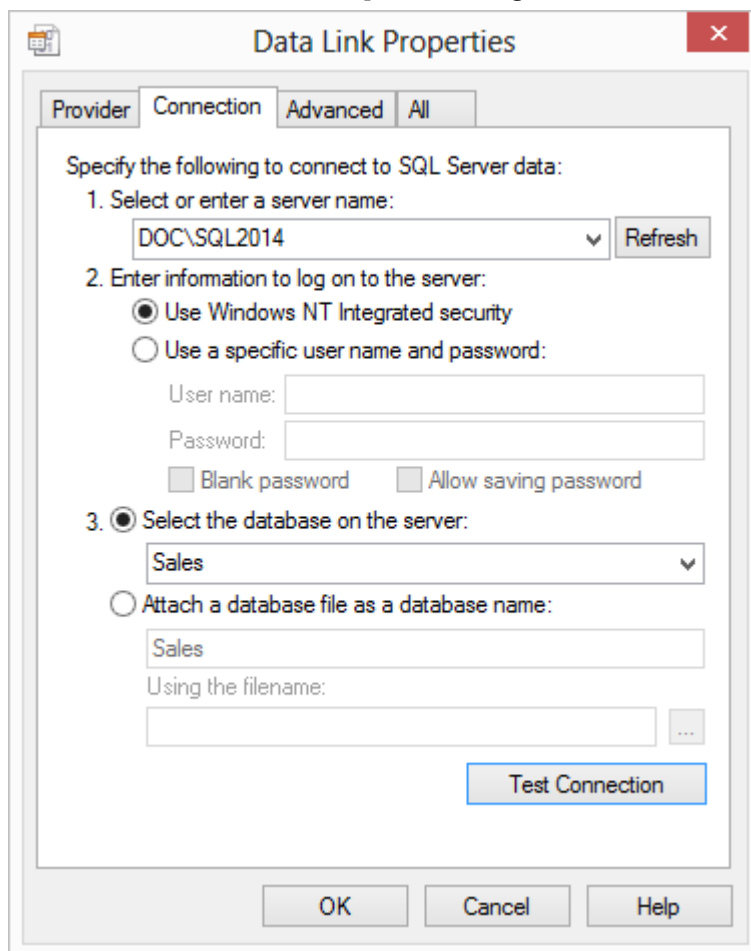
NOTE: When using a specific **user name** and **password** to connect to the server instead of using Windows integrated security, the **Allow saving password** check-box must be ticked.

It is also recommended that the password on the SSIS connection string field that is displayed in the connection properties is replaced with the **\$PASSWORD\$** token that is substituted at runtime.

- 4 Click **OK**.



- 5 Click **OK** on the Data Link Properties dialog.

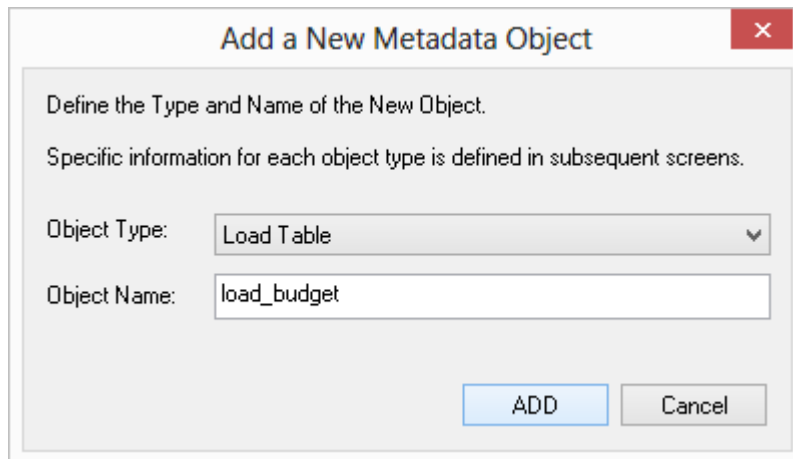


The screenshot shows the 'Data Link Properties' dialog box with the 'Connection' tab selected. The dialog is titled 'Data Link Properties' and has a close button (X) in the top right corner. It contains the following fields and options:

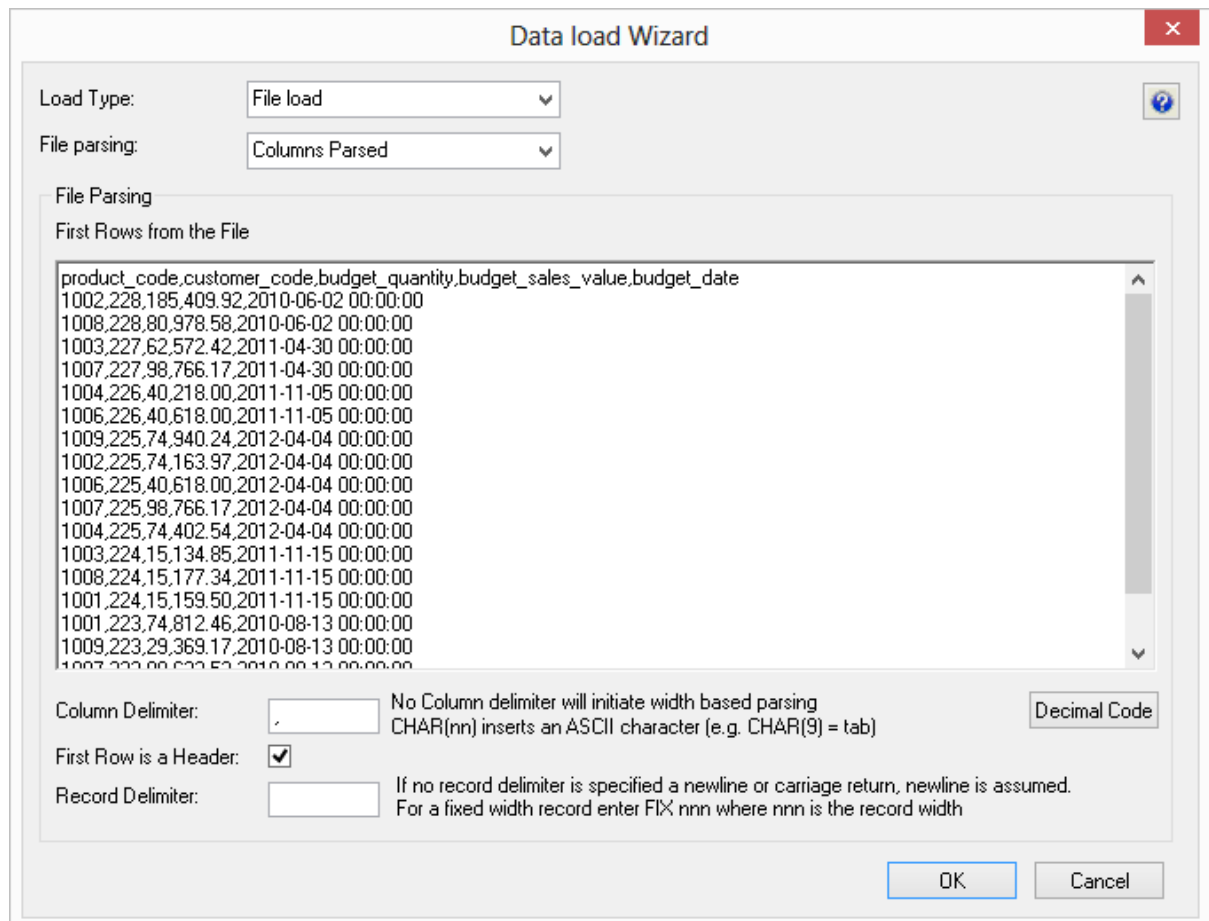
- Provider:** Connection
- Advanced:** All
- Specify the following to connect to SQL Server data:**
 - 1. Select or enter a server name:** A dropdown menu showing 'DOC\SQL2014' and a 'Refresh' button.
 - 2. Enter information to log on to the server:**
 - Use Windows NT Integrated security
 - Use a specific user name and password:
 - User name: [text box]
 - Password: [text box]
 - Blank password Allow saving password
 - 3. Select the database on the server:** A dropdown menu showing 'Sales'.
 - Attach a database file as a database name:
 - Sales [text box]
 - Using the filename: [text box] ...
- Test Connection:** A button at the bottom of the main area.
- Buttons:** OK, Cancel, and Help at the bottom of the dialog.

- 6 Click **OK** to save the changes on the Data Warehouse connection.

- 7 Browse to the directory and file from the **Windows** connection.
- 8 Double-click on the **Load Table** object in the left pane to create a drop target.
- 9 Drag the file from the right pane and drop it into the middle pane. The dialog below appears.
- 10 Click the **ADD** button.



- 11 The following dialog appears.



12 There are four options on this screen (buttons at right).

- The first two options result in a **File based load** where the bulk of the load management is handled by the scheduler.
- If you select either of the last two options, then WhereScape RED will generate a host script and the load table will be a **Script based load**. This host script is executed by the scheduler to effect the load.

Single data column

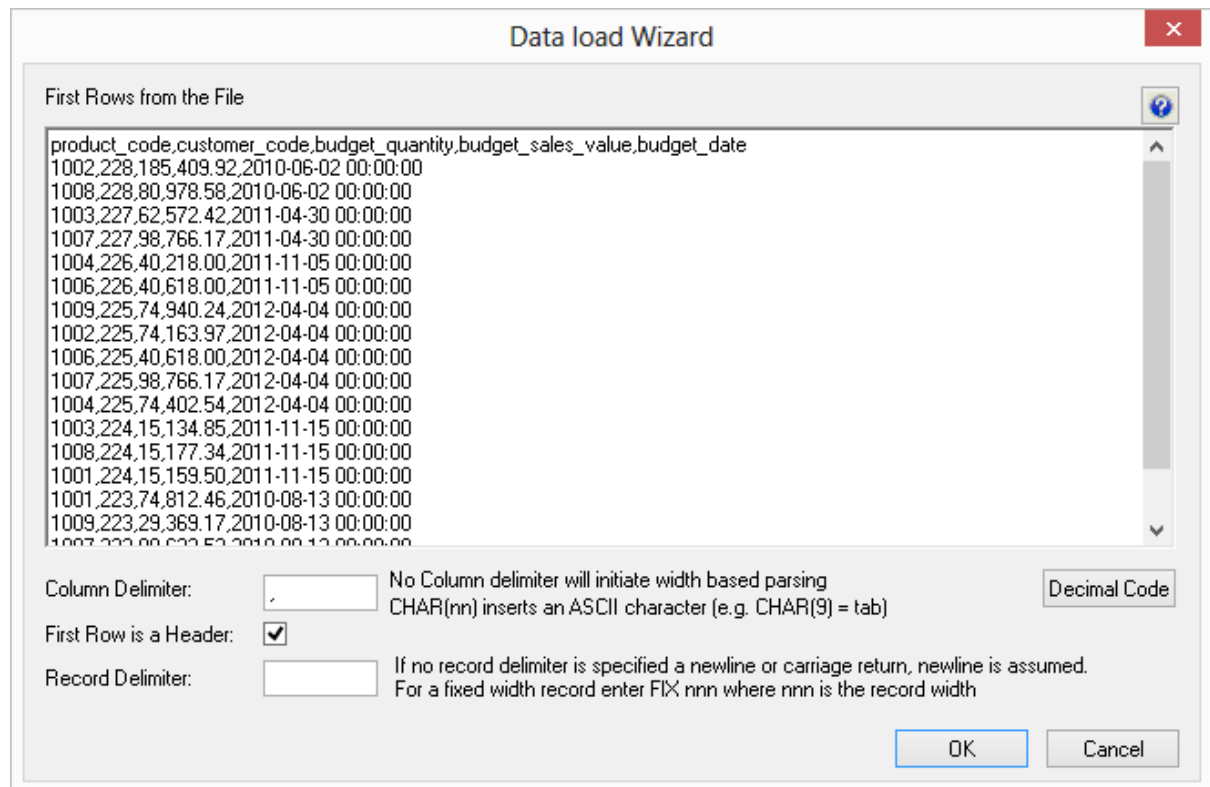
As stated beside the button, the majority of the work in terms of parsing the file must occur in a subsequent procedure within the data warehouse. The data is dumped into a single column. The task of coding a procedure to parse the data must then be undertaken. Three columns are created under Oracle. These include the data column, a sequence column (row_sequence) and the file name column (row_file_name). The file name and sequence columns can be deleted if they are not required for a File based load.

Columns parsed

WhereScape RED attempts to parse the columns. You will be asked for details and for the column delimiter.

You then step through the columns providing names and data types. WhereScape RED attempts to guess the data type, but it needs to be checked and the field length will probably need to be adjusted.

The following screen shot shows the initial file parsed screen.



NOTE: DB2 databases do not support data import from files with header row.

The **Decimal Code** button will display the decimal value of each character in the lines retrieved from the source file. These decimal codes will be shown below each line and are green.

- 13 Once the screen above is completed a screen will appear to allow the breakdown of the source data into columns. If no delimiter is entered then width based parsing is assumed and an addition width size is prompted for. Use the **Back** button to revert to the previous column if an incorrect width or delimiter is entered. The following screen is an example of the file parsing technique.

Data load Wizard - Column Definition

Column Data:

- product_code
- 1002
- 1008
- 1003
- 1007
- 1004
- 1006
- 1009
- 1002
- 1006
- 1007
- 1004
- 1003
- 1008

File

```
product_code,customer_code,budget_quantity,budget_sales_value,budget_date
1002,228,185,409.92,2010-06-02 00:00:00
1008,228,80,978.58,2010-06-02 00:00:00
1003,227,62,572.42,2011-04-30 00:00:00
1007,227,98,766.17,2011-04-30 00:00:00
1004,226,40,218.00,2011-11-05 00:00:00
1006,226,40,618.00,2011-11-05 00:00:00
1009,225,74,940.24,2012-04-04 00:00:00
1002,225,74,163.97,2012-04-04 00:00:00
1006,225,40,618.00,2012-04-04 00:00:00
1007,225,98,766.17,2012-04-04 00:00:00
1004,225,74,402.54,2012-04-04 00:00:00
1003,224,15,134.85,2011-11-15 00:00:00
1008,224,15,177.34,2011-11-15 00:00:00
```

Display decimal character values

Column Name:

Business Display Name:

Data Type: Nulls

Conversion:

Business Definition:

Back Add Cancel

- 14 On the **Properties** screen for the new load table, select **Integration Services Load** as the Load Type. Click **OK**.

This will create and execute a SSIS package at run time to load data into the data warehouse load table.

The screenshot shows the 'Load Table load_budget' dialog box with the following configuration:

- Load Table Name: load_budget
- Unique Short Name: load_budget (maximum 22 characters)
- Description: (empty)
- Connection: Windows
- Load Type: Integration Services load
- Database Link: (empty)
- Script Name: (None)
- Pre-Load Action: Truncate
- Pre-Load SQL: (empty)
- Post Load Procedure: (None)
- Timestamps:
 - Metadata Structure Changed: 2015-03-23 17:07:08.777
 - Database Created: (empty)
 - Database Altered: (empty)

NOTE: If the table is changed to an Integration Services load and has been set up using the wizard for the "File load (columns parsed)" flow, some columns might have transformations set up that will not work.

In RED 6.8.3.4 date/time fields have transformations that are invalid for SSIS and will make the load fail.

Since SSIS does not provide any configuration for the parsing of date/time fields, if users have any date/time field special requirements, file or script-based loads are a better load option instead.

- 15 Click **Yes** to Create and Load the table.

RED 6.8.4.0 - SQL SERVER INTEGRATION SERVICES (SSIS) LOADS ENABLED FOR TERADATA

RED can now load data using SSIS from database tables or flat files (via a Windows connection) into Teradata databases. As with any load into RED a connection to the source data needs to be created to provide extraction details.

The **SSIS Connection String** is a valid SSIS connection string that can be used to connect to the data source or destination.

Currently, SSIS Loads for Teradata can only be processed using a Windows Scheduler.

To use SSIS loading, ensure that SSIS loads are enabled by selecting the relevant SSIS version in **Tools/Options/Code Generation /General**.

The relevant connections will also need to be created in RED. For more information about this new feature see section **8.8 SSIS Loader** in the Teradata User Guide.

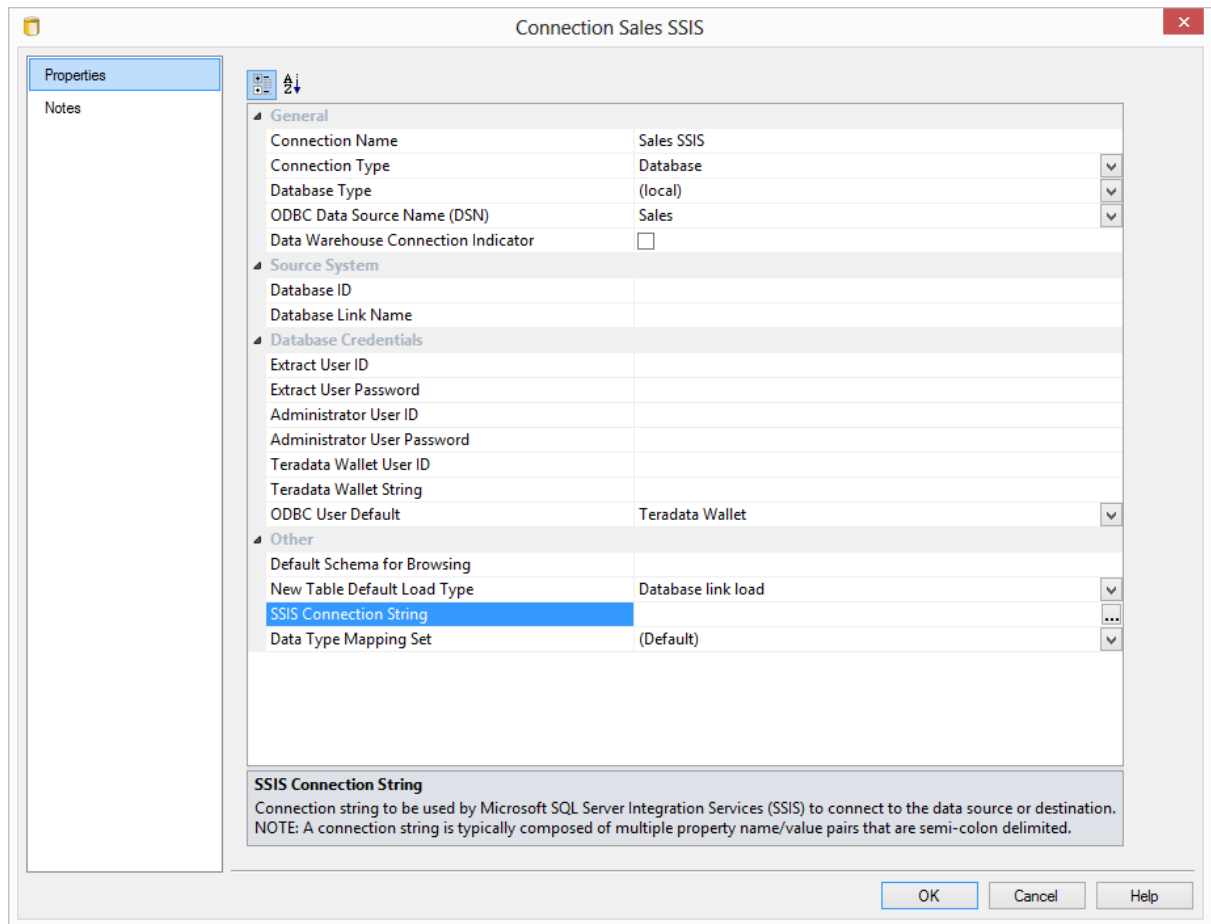
Loading Data via SSIS from a database

If the connection is a database load then there is additional connection information that should be supplied to use SSIS as a loading option.

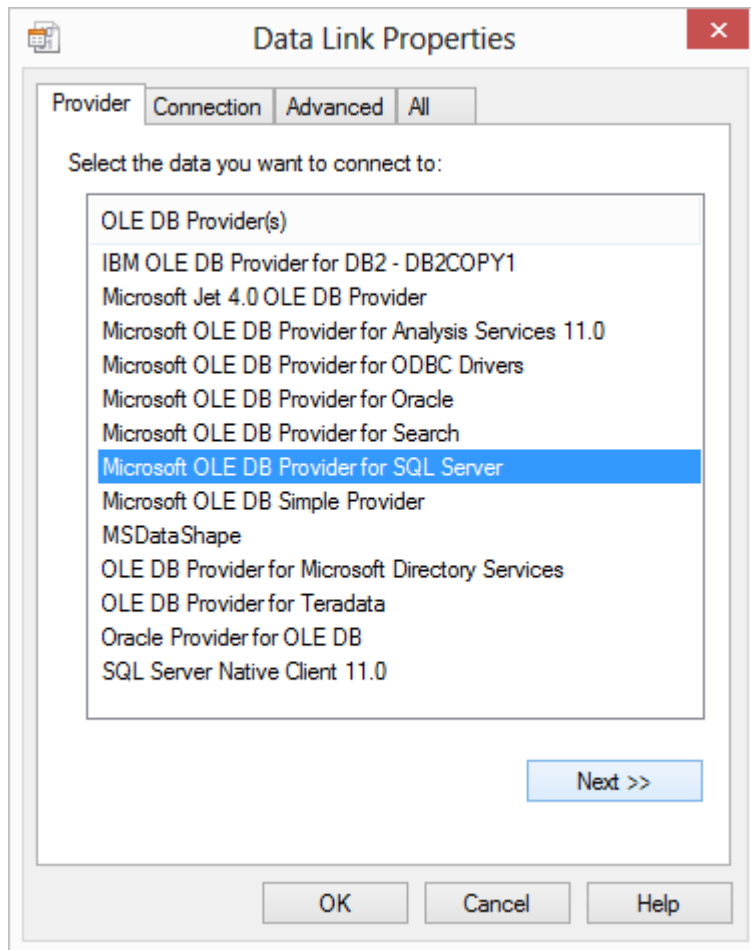
This additional information needs to be supplied on both the source connection and the data warehouse connection.

NOTE: SSIS Loads in Teradata can only be processed with a Windows Scheduler.

- 1 To load data into a Teradata repository using Integration Services, create the **SSIS Connection String** on the relevant connection by clicking on the ellipsis button.

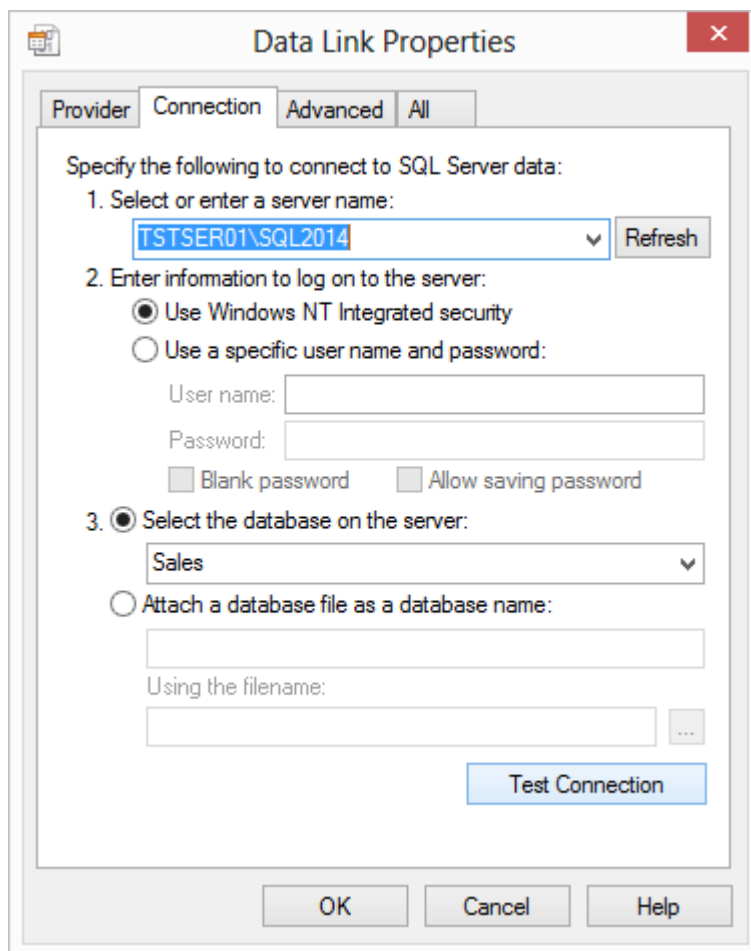


- 2 On the **Provider** tab, select the relevant **OLE DB Provider** and click **Next**.

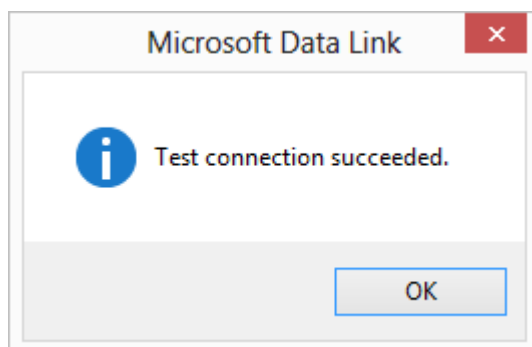


- 3 On the **Connection** tab, select the **server name**, enter the information to log on to the server and select the **database** on the server. Click **Test Connection**.

NOTE: When using a specific **user name** and **password** to connect to the server instead of using Windows integrated security, the **Allow saving password** check-box must be ticked. It is also recommended that the password on the SSIS connection string field that is displayed in the connection properties is replaced with the **\$PASSWORD\$** token that is substituted at runtime.



4 Click **OK**.



5 Click **OK** on the Data Link Properties dialog to save the SSIS connection string settings.

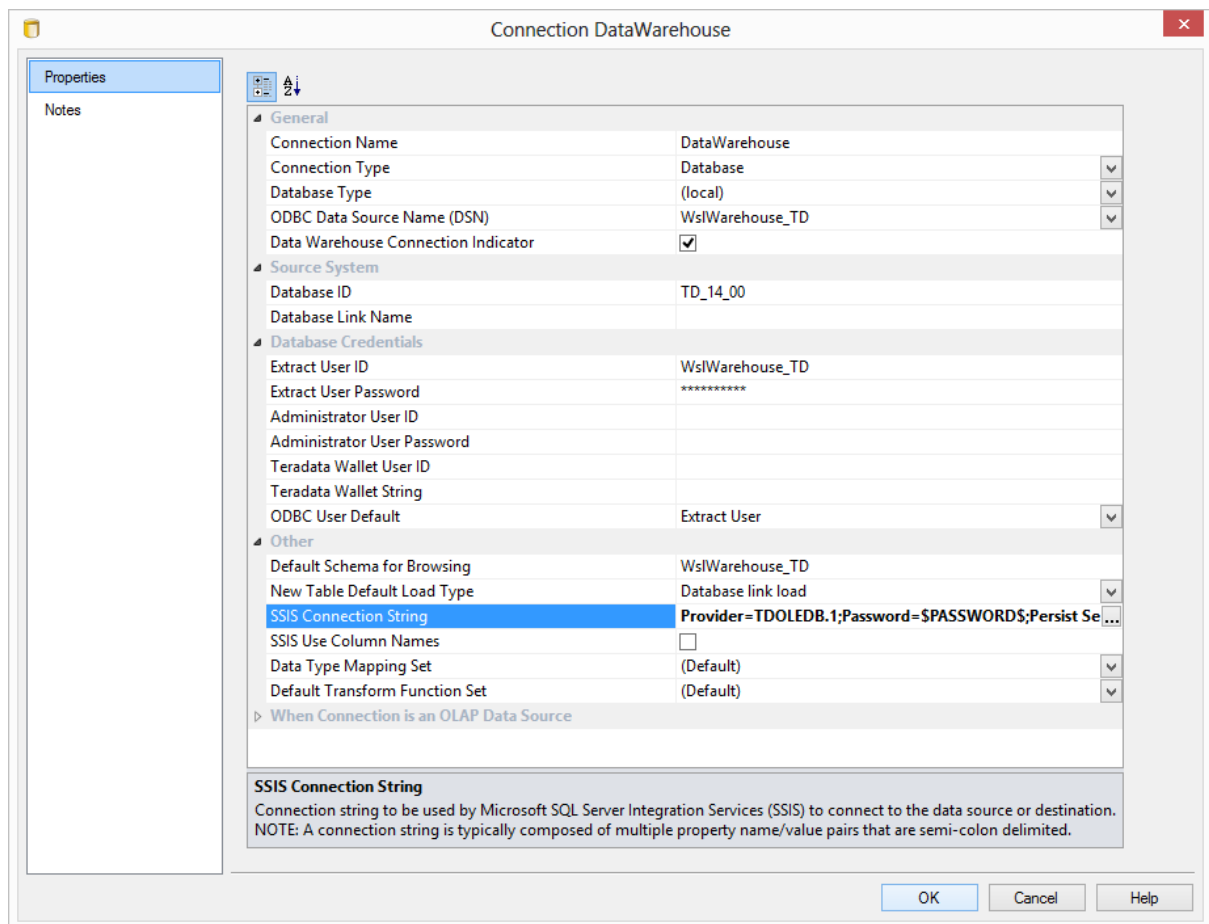
6 The SSIS connection string is displayed.

- Before saving the connection, change to **New Table Default Load Type** to **Integration Services Load**.

- 7 Click **OK** to save and close the connection.
 - Right-click on **Sales SSIS** and select **Browse Connection**.
 - Accept the defaults and click **OK**.

- 8 In SSIS terms, you have now defined your **Source** in **SSIS Connection Manager**. Using the same process, you need to add the SSIS Connection String to the data warehouse connection so you can specify your **Destination** connection:
 - Double-click on the **DataWarehouse** connection in the object explorer to open up the Properties dialog.
 - Follow the process above to create the SSIS Connection String, this time selecting the **OLE DB Provider for Teradata**.

Click **OK** to save your connection.

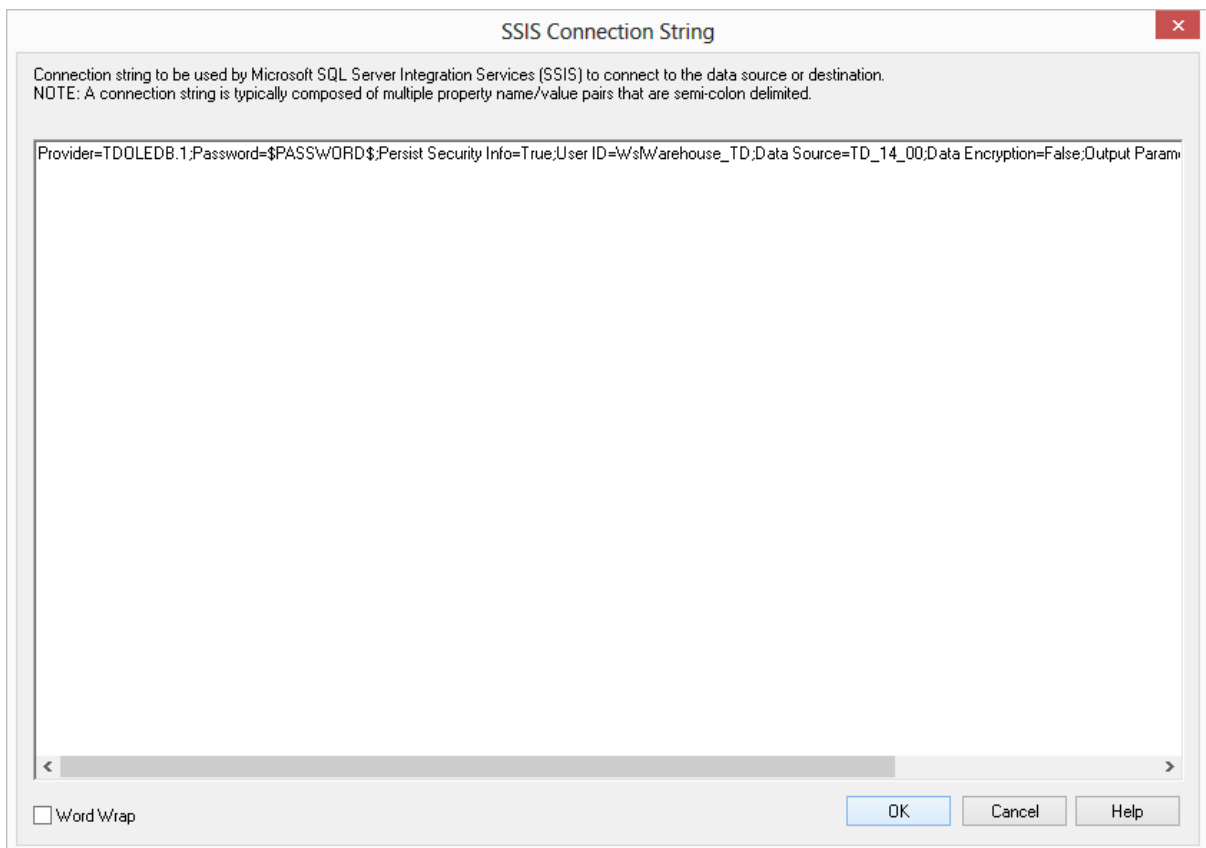


Note1: If the connection string is already set, then the ellipsis button will open up an editor dialog.

Edit the connection string and click **OK**.

Note2: For connections that require a username and password, the connection string can also be edited to replace the password with the **\$PASSWORD\$** token that is substituted at runtime. If the **\$PASSWORD\$** token is used, RED uses the contents of the masked "Extract User Password" property when making the connection.

E.g. "Provider=SQLOLEDB.1;Password=**\$PASSWORD\$**;"



- 9 Once the connection is defined then a load table needs to be created to hold data loaded into the data warehouse by dragging a source table or a flat file to create a load table.

For more details see the **Loading Data** or **Loading Data from Flat Files using SSIS** sections of the **Teradata User Guide**.

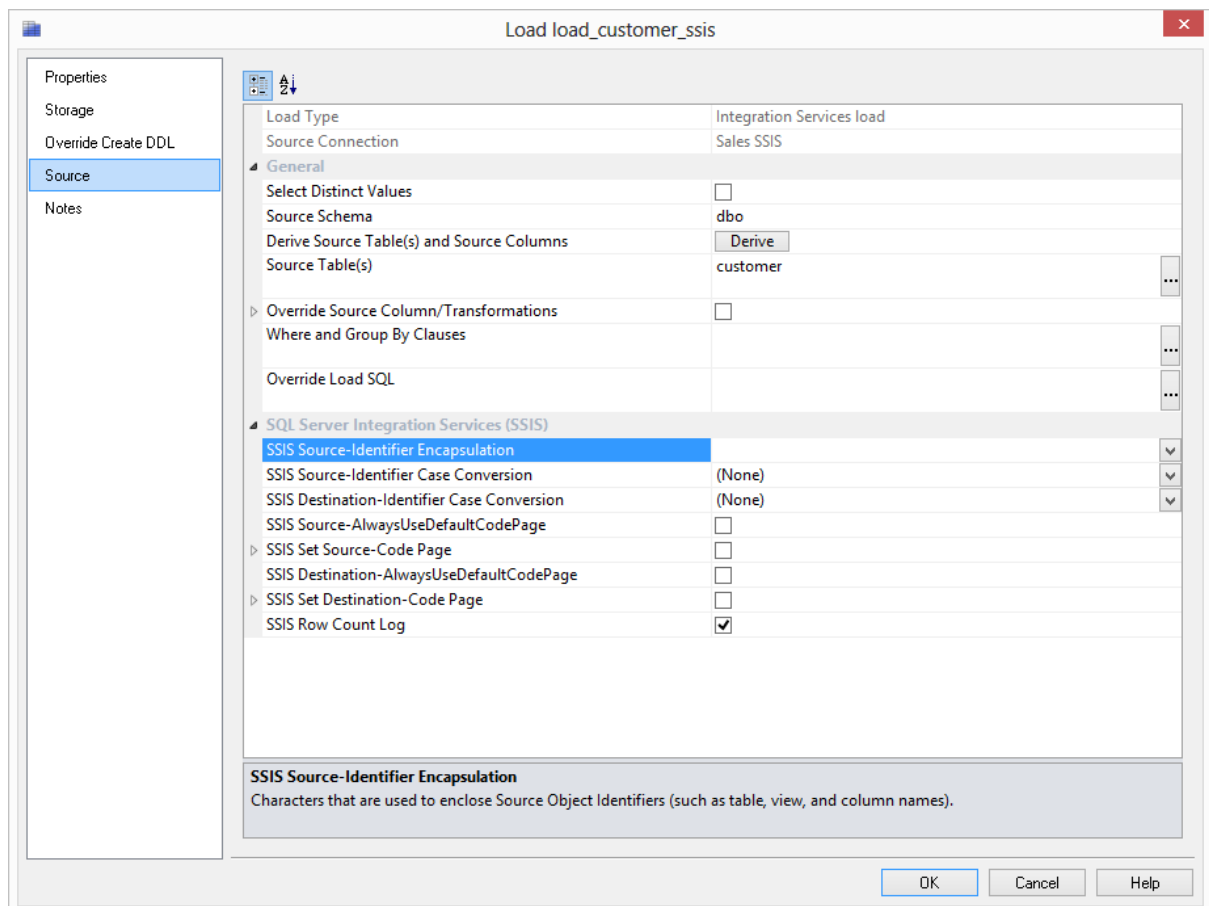
- On the load table properties, ensure the Load type is set to **Integration Services load**. This will create and execute a SSIS package at run time to load data into the data warehouse load table.

The screenshot shows the 'Load Table load_customer_ssis' dialog box with the following fields and values:

- Load Table Name: load_customer_ssis
- Unique Short Name: (maximum 22 characters): load_customer_ssis
- Description: (empty text box)
- Connection: Sales SSIS
- Load Type: Integration Services load
- Database Link: (empty text box)
- Script Name: (None)
- Pre-Load Action: Truncate
- Pre-Load SQL: (empty text box)
- Post Load Procedure: (None)
- Timestamps:
 - Metadata Structure Changed: 2013-08-22 14:05:56.443
 - Database Created: 2013-08-22 14:05:59.230
 - Database Altered: 2013-08-22 14:05:59.230

Buttons: OK, Cancel, Help

- 10 The configuration options available on an SSIS load are available on the **Source** tab of the load table's Properties. These options are:
- **SSIS Source-Identifier Encapsulation** - Characters that are used to enclose source column names. Options are (None), "", [], ", ``
 - **SSIS Source-Identifier Case Conversion** - Case-sensitivity conversion applied to Source Object Identifiers (such as table, view, and column names) in RED-generated SSIS packages. If no conversion is applied then the exact case of the identifier defined in the RED metadata is used in SSIS.
 - **SSIS Destination-Identifier Case Conversion** - Case-sensitivity conversion applied to Destination Object Identifiers (such as table, view, and column names) in RED-generated SSIS packages. If no conversion is applied then the exact case of the identifier defined in the RED metadata is used in SSIS.
 - **SSIS Source-Always-UseDefaultCodePage** - Forces the use of the DefaultCodePage property value when describing character data.
 - **Set Source-Code Page** - Enables the SSIS source Code Page property.
 - **SSIS Destination-AlwaysUseDefaultCodePage** - Forces the use of the DefaultCodePage property value when describing character data.
 - **SSIS Set Destination-Code Page** - Enables the SSIS destination code page property.
 - **SSIS Row Count Log** - During an SSIS Load include Row Count logging.



RED 6.8.4.0 - SQL SERVER INTEGRATION SERVICES (SSIS) EXPORTS

Integration Services Exports are now an available export method in WhereScape RED .

An **Integration Services Export** is an export processed using a **Windows** connection where the processing is handled via an Integration Services Package that is generated and executed dynamically at run time.

SSIS Exports to UNIX/Linux connections and processed via the UNIX/Linux scheduler are currently not supported.

To do **Integration Services Exports**, ensure that the **SSIS Version** is selected in **Tools>Options>Code Generation>SSIS Version**.



WhereScape RED Tip:

When doing **PDW SSIS Exports**, ensure both the **SSIS Connection String (OLEDB)** and the **SSIS Connection String (SQLPDW)** are set in the relevant connection.

- 1 As usual, **Integration Services exports** are performed by using the **drag and drop** functionality of WhereScape RED:
- 2 Browse to the data warehouse connection (Browse/Source Tables).
- 3 Create a drop target by double-clicking on the **Export object** group in the left pane. The middle pane should have a column heading of **Export Objects** for the leftmost column.
- 4 Select a table or view in the right pane and drag it into the middle pane. Drop the table or view anywhere in the middle pane.
- 5 The following dialog appears. If the export object needs to be renamed, rename it, otherwise click the **ADD** button to continue.

Add a New Metadata Object [X]

Define the Type and Name of the New Object.
Specific information for each object type is defined in subsequent screens.

Object Type:

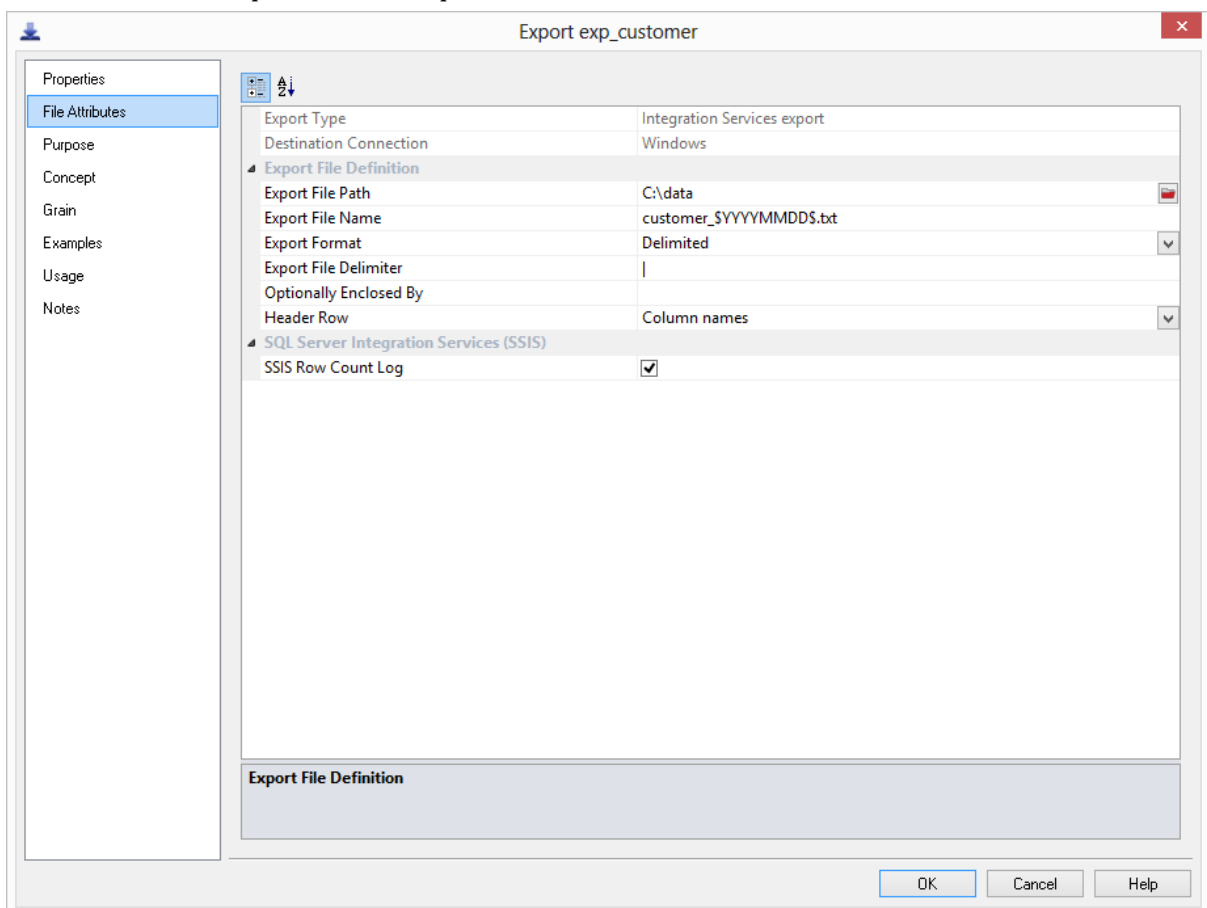
Object Name:

- When the following dialog appears, select a **Windows** connection from the **Connection** drop-down list.
 - Select **Integration Services Export** from the **Export Type** drop-down list.

The screenshot shows the 'Export exp_customer' dialog box. The 'Export Type' dropdown menu is open, showing options: 'Integration Services export', 'File export', 'Integration Services export', and 'Script based export'. The 'Connection' dropdown is set to 'Windows'. The 'Export Object Name' and 'Unique Short Name' fields both contain 'exp_customer'. The 'Description' field is empty. The 'Database Link' field is empty. The 'Script Name' dropdown is set to '(None)'. The 'Pre-Export Action' dropdown is set to 'No action'. The 'Pre-Export Sql' field is empty. The 'Where Clause' field is empty. The 'Post Export Procedure' dropdown is set to '(None)'. The 'Timestamps' section shows 'Metadata Structure Changed' as '2015-05-20 14:11:50.907' and 'Last Exported' as an empty field. The 'OK', 'Cancel', and 'Help' buttons are visible at the bottom right.

7 Click the **File Attributes** tab and fill in the required fields to define the location, name and other definitions of the exported data file:

- Enter the path of the folder/directory where the File is to be created.
- Enter a file name for the export. The variable \$SEQUENCE\$ can be used to provide a unique sequence number for the export file.
Data/file components YYYY, MM, HH, MI, SS can also be used when enclosed with the \$ character. For example an export file name might be customer_YYYYMMDD\$.txt which would result in a file name like customer_20150520.txt.
- The export format available is **Delimited**.
- Enter the character that separates the fields within each record of the export file.
- Enter a character that brackets text fields within each record of the export file for Delimited formats (optional).
- Chose between **business names** or **column names** from the Header Row drop-down list if a header line is required for the export.



8 Finally, run the export by right-clicking on it in the left pane and selecting **Export**.

RED 6.8.4.0 - GREENPLUM EXPORTS

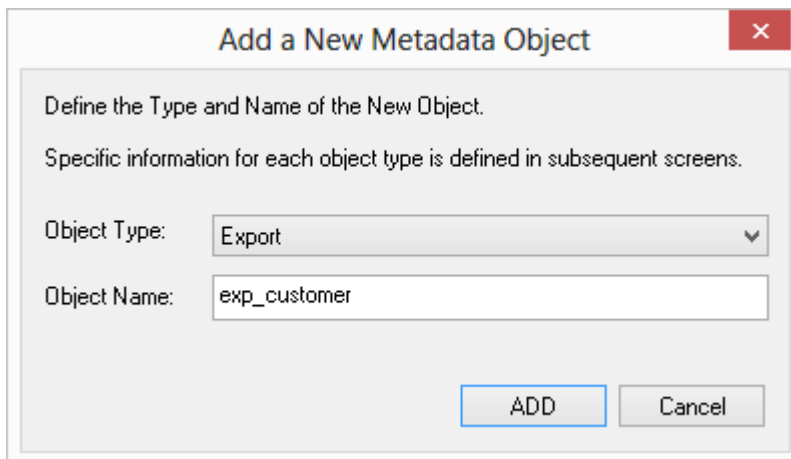
WhereScape RED now allows exporting data from the Data Warehouse via a **Windows** or **UNIX/Linux** connection. File based exports are currently the only export method supported. The process of exporting data from Greenplum is performed using the **drag and drop** functionality of WhereScape RED. Chapter **18. Export Data** of the **RED User Guide** describes the export process in greater detail.

Greenplum Exports have **File Actions** as extra options that can be set in the File Attributes screen. These fields allow users to enter command lines to run after the export such as copying files to another machine or deleting files.

To process Greenplum exports within RED, the Greenplum client software must be installed on each machine that users want to export data to.

To create a **Greenplum Export** in WhereScape RED, use the **drag and drop** functionality:

- 1 Browse to the metadata repository or relevant source connection.
- 2 Create a drop target by double-clicking on the **Export object** group in the left pane. The middle pane should have a column heading of **Export Objects** for the leftmost column.
- 3 Select a table or view in the right pane and drag it into the middle pane. Drop the table or view anywhere in the middle pane.
- 4 The following dialog appears. If the export object needs to be renamed, rename it and then click the **ADD** button.



The screenshot shows a dialog box titled "Add a New Metadata Object" with a close button in the top right corner. The dialog contains the following text and controls:

- Text: "Define the Type and Name of the New Object."
- Text: "Specific information for each object type is defined in subsequent screens."
- Form field: "Object Type:" with a dropdown menu currently showing "Export".
- Form field: "Object Name:" with a text input field containing "exp_customer".
- Buttons: "ADD" and "Cancel" at the bottom.

- 5 When the following dialog appears, select the **Connection** that you want to perform the export, from the Connection drop-down list. In this example, the Connection is a **UNIX** connection.
- Select **File export** as the export type.

The screenshot shows the 'Export exp_customer' dialog box. On the left is a sidebar with a tree view containing 'Properties', 'File Attributes', 'Purpose', 'Concept', 'Grain', 'Examples', 'Usage', and 'Notes'. The 'Properties' tab is active. The main area contains the following fields and controls:

- Export Object Name: exp_customer
- Unique Short Name: (maximum 22 characters) exp_customer
- Description: (empty text area)
- Connection: Greenplum GPLOAD (dropdown menu)
- Export Type: File export (dropdown menu, with a sub-menu open showing 'File export' and 'Script based export')
- Database Link: (empty text area)
- Script Name: (None) (dropdown menu)
- Pre-Export Action: No action (dropdown menu)
- Pre-Export Sql: (empty text area)
- Where Clause: Allows filtering of the export data. (empty text area)
- Post Export Procedure: (None) (dropdown menu)
- Timestamps: Metadata Structure Changed: 2015-04-29 07:57:14.410, Last Exported: (empty text area)

At the bottom right are three buttons: 'OK', 'Cancel', and 'Help'.

- 6 Click on the **File Attributes** tab and fill in the required fields to define the location, name and other definitions of the exported data file:
- Enter the **path** of the folder/directory where the File is to be created on the Windows or UNIX/Linux system.
 - Enter a **name** for the Export File - note that the variable \$SEQUENCE\$ can be used to provide a unique sequence number for the export file.
The data/file components YYYY, MM, HH, MI, SS can also be used when enclosed with the \$ character. For example the export file name might be customer_YYYYMMDD\$.txt which would result in a file name like customer_20150520.txt.
 - Select **COPY** as the Greenplum specific routine to use to export the data.
 - Ensure the **Use Temp Table** check-box is ticked. This option creates a temporary table to export the data into. The temporary table is then deleted once the data has been exported.
 - Select between Text or CSV as the export format.
 - Enter the delimiter that separates the fields within each record of the Export File.
 - Select between **Column Names** or **Business Names** for the Header Row.
 - Enter the trigger path to the directory in which a trigger file is to be generated in the destination system.
 - Enter a name for the file that is to be created as a trigger file.
 - Enter a delimiter for the trigger file.
 - Select any parameters to be put in the trigger file.
 - Use the File Actions to enter any command lines to run after the export such as copying files to another machine or deleting files.

The screenshot shows the 'Export exp_customer' dialog box. The 'File Attributes' tab is active. The configuration is as follows:

Property	Value
Export Type	File export
Destination Connection	Greenplum GLOAD
Export File Definition	
Export File Path	/home/greenplum/user
Export File Name	export_customer_table_YYYYMMDD\$.txt
Export Routine	COPY
Use Temp Table	<input checked="" type="checkbox"/>
Export Format	Text
Export File Delimiter	,
Export Options	
Header Row	Column names
Trigger File	
Trigger Path	/home/greenplum/user
Trigger Name	export_customer_table_YYYYMMDD\$.trg
Trigger Delimiter	,
Trigger Parameter 1	Row Count
Trigger Parameter 2	
Trigger Parameter 3	
File Actions	
File Action 1	cp /home/gpadmin/export_customer_table_YYYYMMDD\$/tmp
File Action 2	
File Action 3	

Export File Path
Full path (absolute path) of the folder/directory containing the Export File on the Windows or UNIX/Linux system.

Buttons: OK, Cancel, Help

- 7 Finally, run the export by right-clicking on it in the left pane and selecting **Export**.

NOTE: Processing Greenplum Exports via the Scheduler

To process Greenplum exports via the Windows Scheduler, please ensure that the **Windows Scheduler user** has the all the necessary permissions including having the **ssh host key saved**. The UNIX scheduler is currently not supported for Greenplum exports.

SIGNIFICANT NEW FEATURES 6.8.2.0

- 1 Multi Schema support for SQL Server and Oracle: object placement enabled across multiple schemas, using a similar method to Target objects.
- 2 RED for Teradata now supports use of non identity columns on artificial key column generation for Data Store, Normalized, Normal, Slowly Changing and Ranged Dimension objects.
- 3 Support for adding a dss_create_time column for Stage, Data Store, Normalized, Dimension Fact and Aggregate objects from the Tools/Options menu.
- 4 More intuitive procedure generation dialogs that direct users to highlighted sections where mandatory fields must be filled in.

RED 6.8.2.0 - MULTI SCHEMA SUPPORT FOR ORACLE AND SQL SERVER

Version 6.8.2.0 of WhereScape RED introduces a new feature which allows objects to be placed across multiple schemas on both Oracle and SQL Server databases.

Before creating any tables using an Oracle source, the RED user needs to be granted a set of specific privileges. In SQL Server, the specific schemas will need to be created in the SQL database.

The required Oracle privileges and SQL Server schema instructions are described at the end of the schema highlights section.

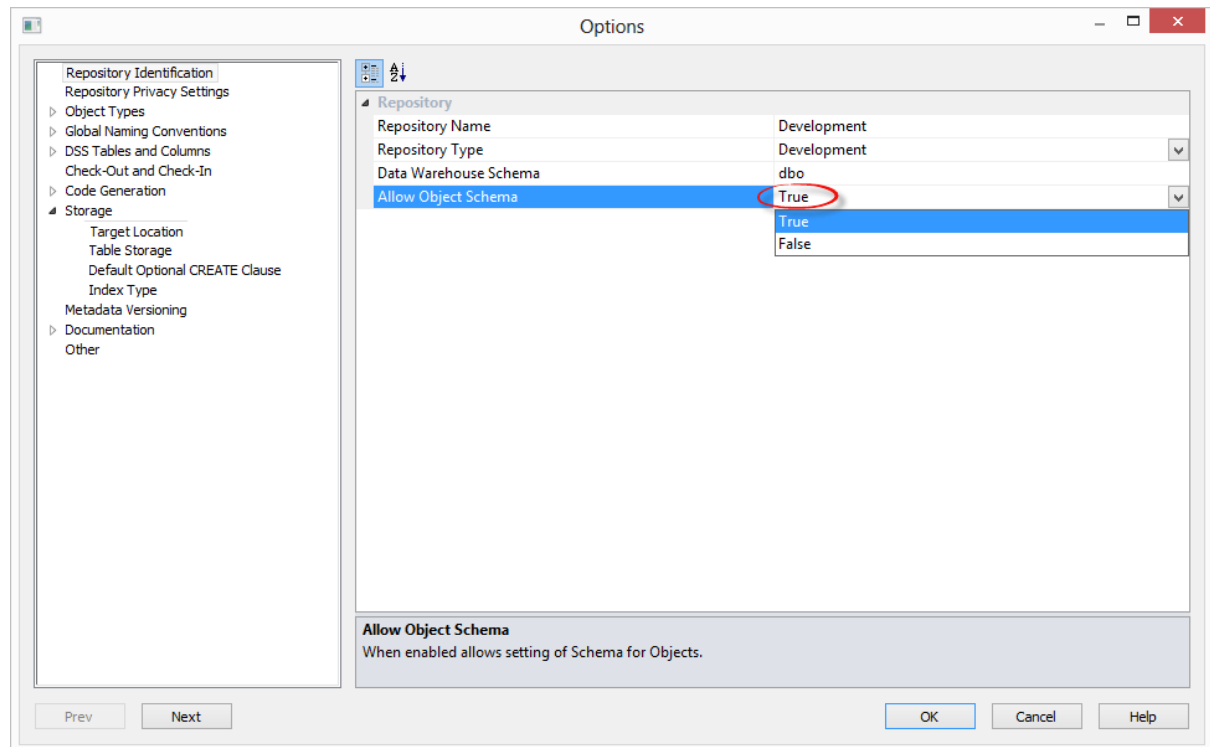
Overview

The steps to use schemas in WhereScape RED are:

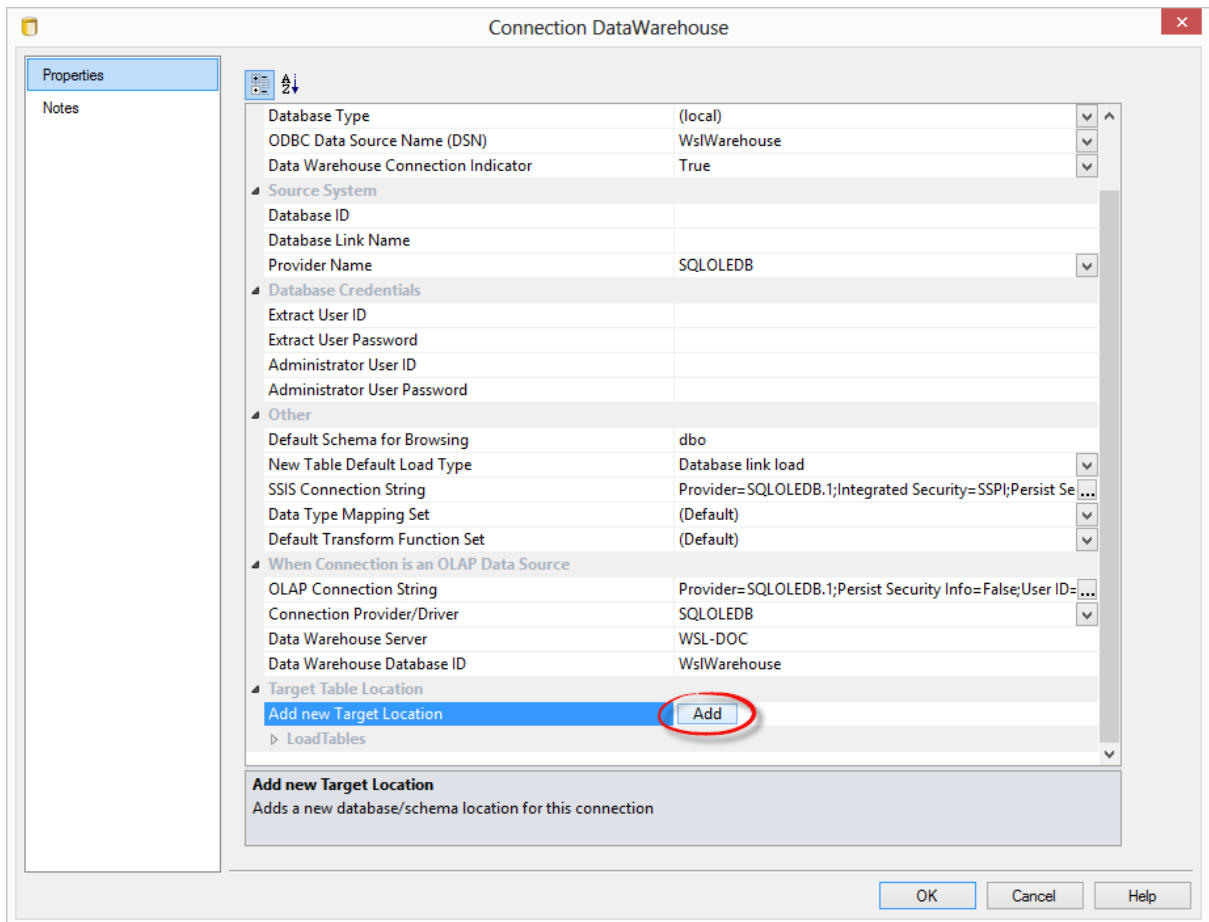
- Ensure the **Schema** you need exists in Oracle or SQL Server. Create any schema that does not exist.
- Enable **Schema** use in RED by switching on the **Allow Object Schema** in the RED options.
- Add one **Target** to the Data Warehouse connection in RED for each **Schema** you intend to use.
- Configure the Data Warehouse connection in RED to browse all required schema by default.
- Set the default **Target** for **load tables** in the RED options.
- When defining a new table in RED, check and ensure the correct target is set on the **storage** tab.

Schema Highlights in WhereScape RED:

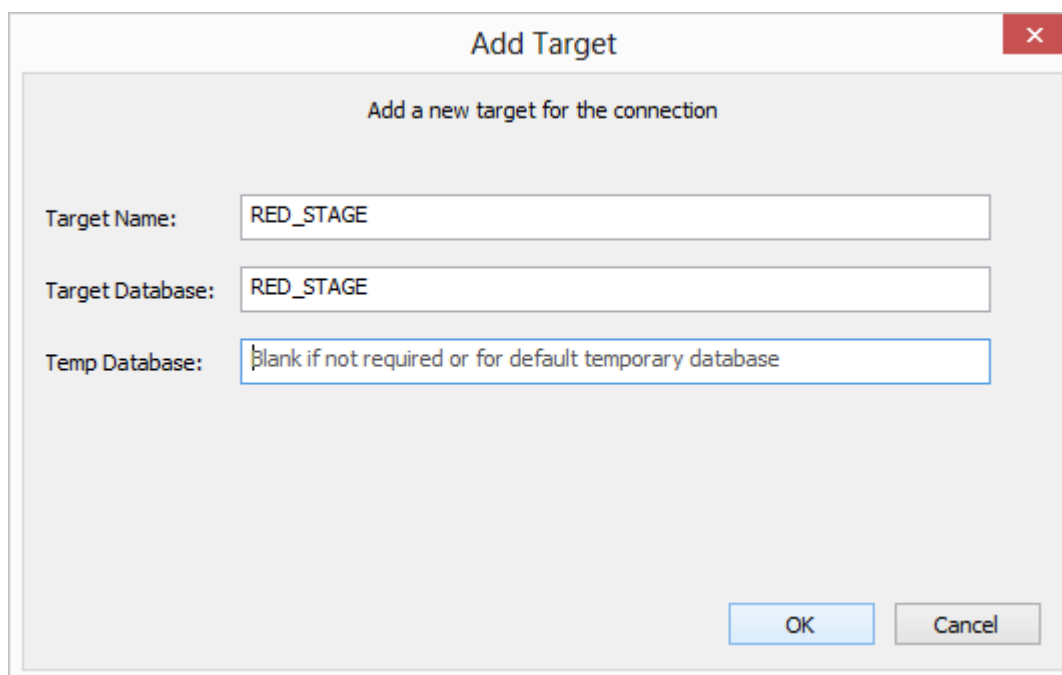
- 1 After logging in to WhereScape RED, make sure the **Allow object Schema** option is set in the **Tools->Options->Repository Identification** settings.



- 2 Add one Target to the Data Warehouse connection in RED for each Schema you want to use:
 - Click the **Add** button to add the required target schemas for this connection.



- 3 Give the new target a name and then enter the target's schema. It is best to set the target name to the same name as the schema.



Add Target

Add a new target for the connection

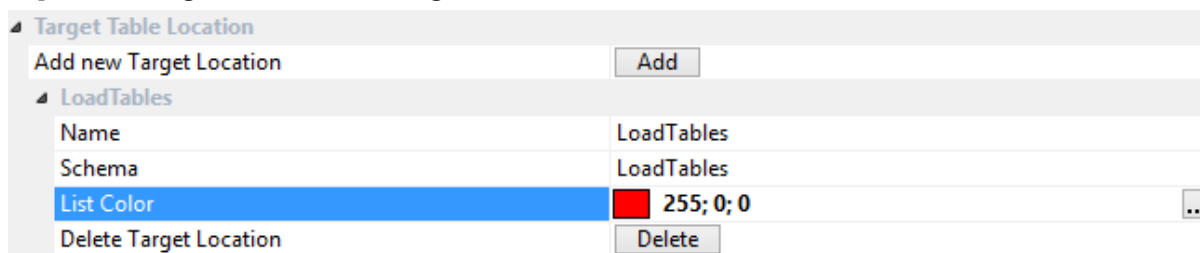
Target Name: RED_STAGE


Target Database: RED_STAGE

Temp Database: blank if not required or for default temporary database

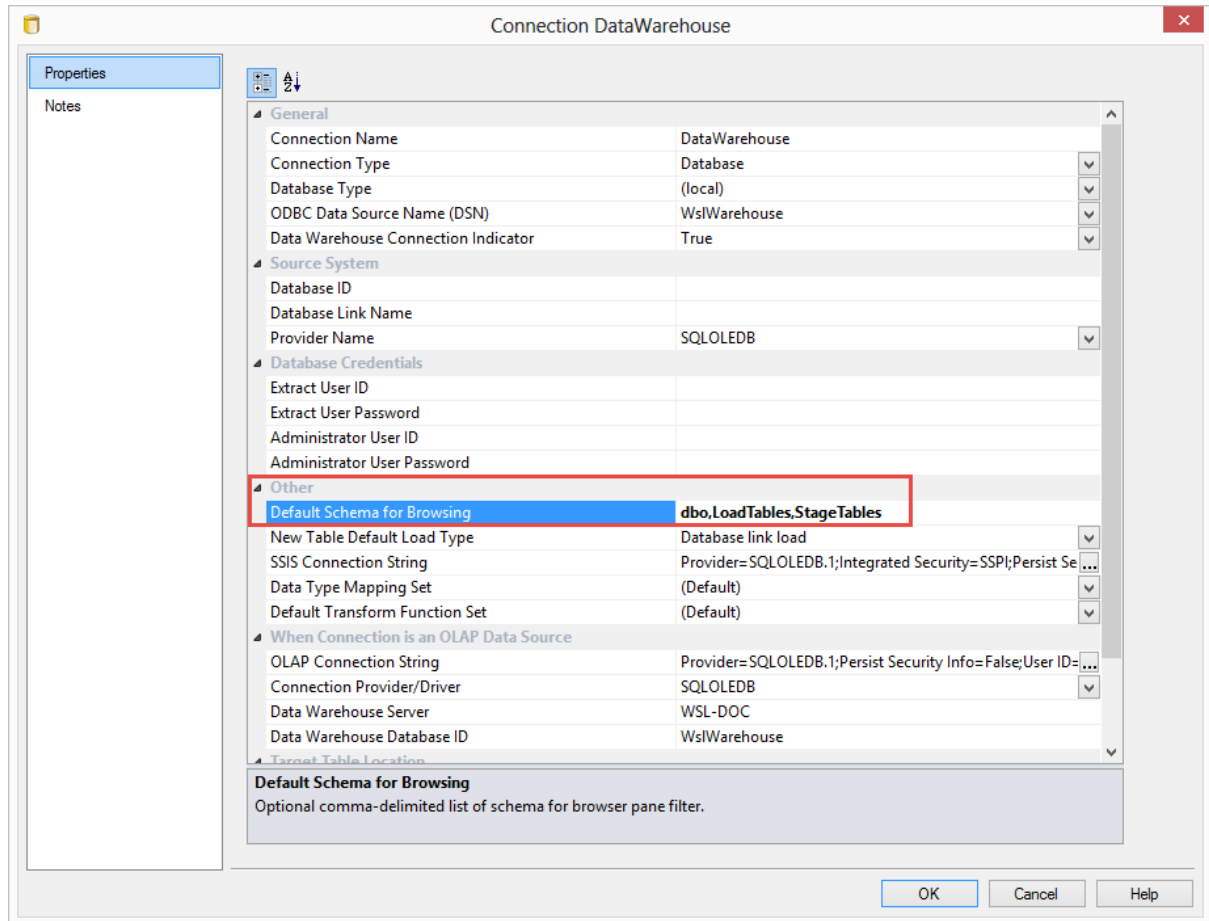
OK Cancel

- 4 Expand the target locations to change schema colors or to delete schemas.



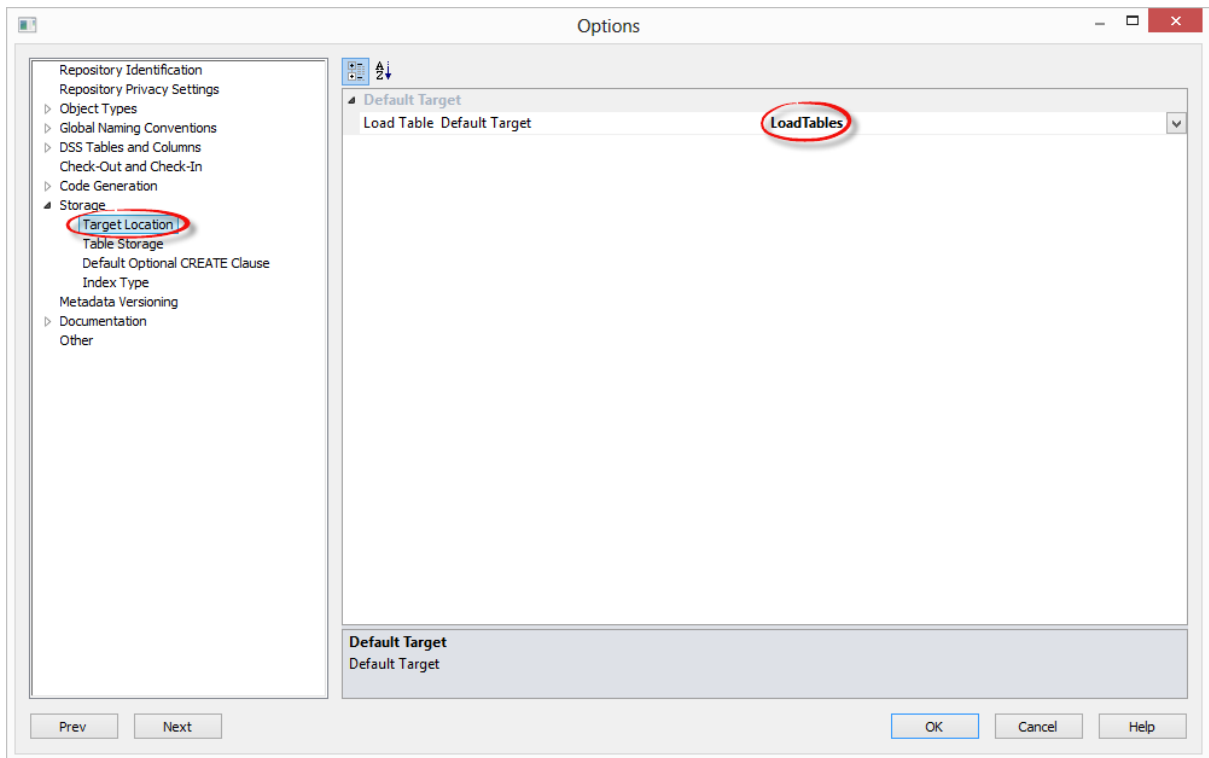
Target Table Location	
Add new Target Location	Add
LoadTables	
Name	LoadTables
Schema	LoadTables
List Color	 255; 0; 0
Delete Target Location	Delete

- 5 Still in the DataWarehouse connection, add the new schemas to the **Default Schema for Browsing** field separated by commas.
 - While browsing this connection, RED will then display a list with all the schemas and their associated objects on the right-hand browser pane.



NOTE: In **SQL Server**, you will probably also want to include **dbo** in this list. Similarly, in **Oracle** you will probably also want to include the metadata schema.

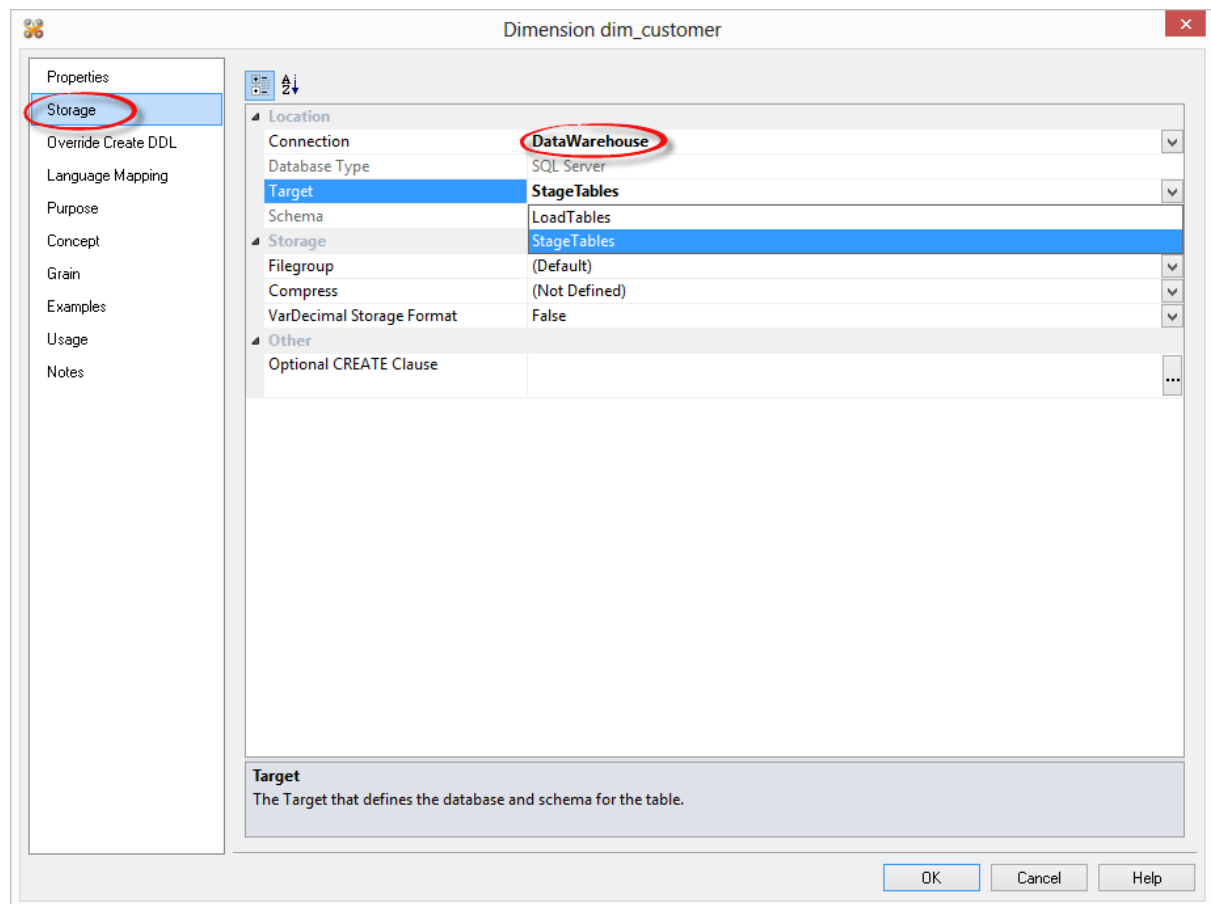
- 6 You are also able to set the default location for new **Load Tables** in **Tools/Options**.
- This default target location is only applied when a new load table is created.



- 7 When defining a new table in RED, check and ensure the correct target is set on the **storage** tab before creating the table in the database.

A new Load table will have a Target value set by default as defined in step 6. You're able to change this as required on each table using the **Storage** tab of each object's Properties screen. When using drag and drop, other object types will inherit the default Target value of the object you create them from. You are also able to change this as required on each table using the **Storage** tab of each object's Properties screen.

- To locate tables in different schemas, select **DataWarehouse** from the drop-down menu and then select the **Target** schema from the target drop-down menu.
- Alternatively, leave this field blank or select (local) for a local table.



WARNING: By default objects will be placed in the source table's schema for table types other than Load tables.

NOTE: When upgrading from a RED version previous to 6.8.2.0 and moving existing objects to a target location, all procedures that reference those objects will need to be rebuilt. Any **FROM** clauses will also need to be manually regenerated in order for the table references to be updated to the new [TABLEOWNER] form.

- 8 To create any of these objects in RED, the RED user will need to be granted a specific set of privileges in Oracle. For SQL Server, the specific schemas will need to be created in the SQL database.

9 SQL Server

- To use object placement across multiple schemas, the required schemas need to be created in the SQL database.

10 Oracle

- To use object placement across multiple schemas in WhereScape RED, the RED user should be granted the following privileges:

```
grant select any table to dssdemo;  
grant create any view to dssdemo;  
grant drop any view to dssdemo;  
grant create any table to dssdemo;  
grant drop any table to dssdemo;  
grant delete any table to dssdemo;  
grant insert any table to dssdemo;  
grant update any table to dssdemo;  
grant alter any table to dssdemo;  
grant global query rewrite to dssdemo;  
grant create any materialized view to dssdemo;  
grant drop any materialized view to dssdemo;  
grant alter any materialized view to dssdemo;  
grant create any index to dssdemo;  
grant drop any index to dssdemo;  
grant alter any index to dssdemo;  
grant select any sequence to dssdemo;  
grant create any sequence to dssdemo;  
grant drop any sequence to dssdemo;  
grant alter any sequence to dssdemo;  
grant analyze any to dssdemo;
```

RED 6.8.2.0 - SUPPORT FOR USE OF NON IDENTITY COLUMNS ON ARTIFICIAL KEY COLUMN GENERATION ON RED FOR TERADATA

RED for Teradata now supports use of non identity columns on artificial key column generation for **Data Store, Normalized, Model, History, Normal, Slowly Changing, and Date Ranged Dimension** objects.

The generation of the update procedure will automatically add logic to the code which will associate a sequential number to the artificial key of the objects when a new row is inserted into the required table.

The order of these sequential numbers is determined by the business key of the source table and the value of the first newly inserted artificial key will be the value of the highest artificial key in the dimension table plus 1.

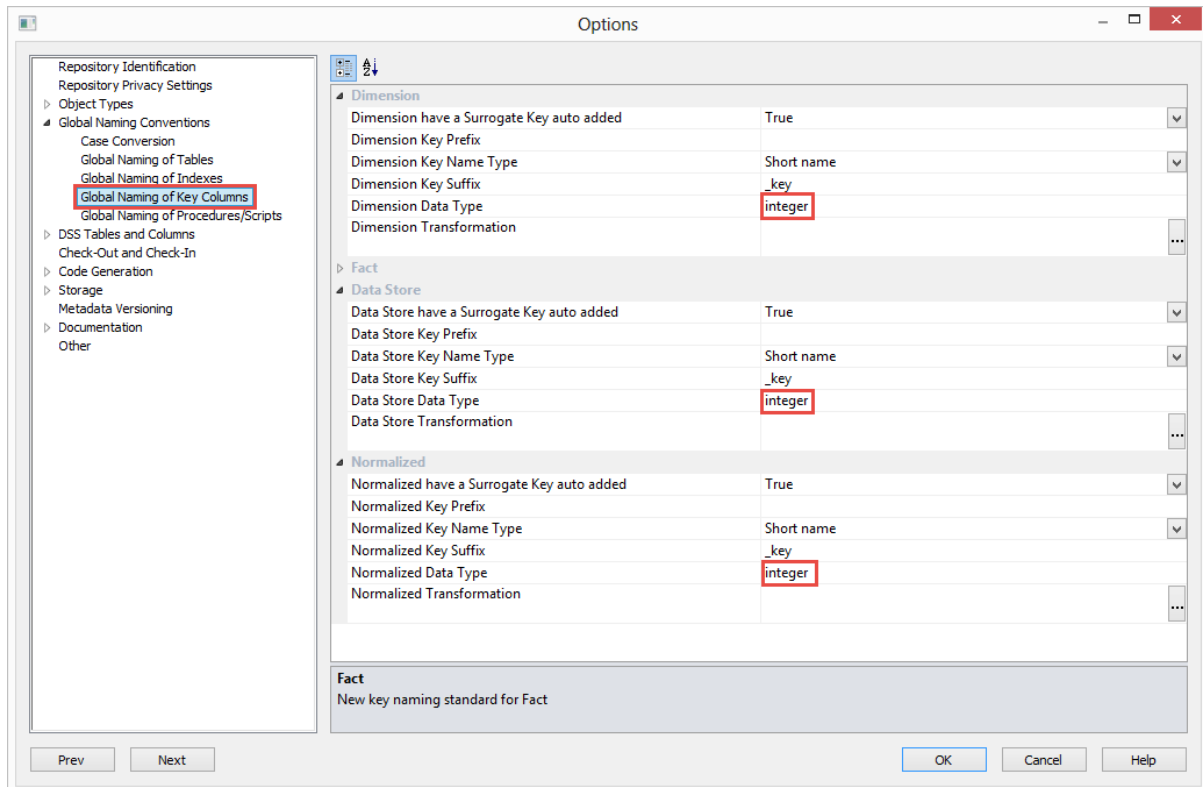
This automatically generated logic can be overwritten by defining a user specific logic in the object's **Transformation** field on the **Tools/Options** menu or in the transformation column of the artificial key.

To have one of these objects with a non identity column as a surrogate key, that object's **Data Type** can be set to to **integer** in the Tools/Options menu.

The old logic can also be retained if an identity column is chosen as surrogate key.

Highlights for allowing non identity surrogate keys on objects:

- Go to Tools -> Options -> Global Naming Conventions -> Global Name of Key Columns.
- Set the desired object's **Data Type** to be **integer** and click **OK**.
- If your tables had been created previously, you will have to **Recreate** the tables after you set this option in the Tools menu.



SIGNIFICANT NEW FEATURES 6.8.1.0

- 1 Support for Teradata Wallet - ODBC and TPT loading.
- 2 Teradata Linux TPT Exports.
- 3 Username and Password security enhancements including encryption of credentials within the metadata database.
- 4 Support for Oracle 12c.
- 5 Support for SQL Server 2014.

SIGNIFICANT NEW FEATURES 6.7.5.0

- 1 WhereScape RED now supports Teradata 15 as a data warehouse database.
- 2 New property grid for Data Store/Normalized object procedure build.
- 3 RED now supports clustered ColumnStore indexes on SQL Server 2014.
- 4 Options for export to CSV such as for job detail/reports now use the configurable options in user preferences/output to determine the format of the output file.

SIGNIFICANT NEW FEATURES 6.7.2.0

- 1 Teradata procedures for most objects now include an additional option/method for change identification.
- 2 A new context menu option is available for load tables: Validate for Reserved Words.
- 3 TPT loads now support the setting of memory size.
- 4 TPT loads now support the setting of producer and consumer instances.
- 5 Tools / Options dialog now has buttons to navigate between option groups.
- 6 New menu options (in Edit Menu) to output 'middle pane' data to either file or clipboard.
- 7 New context menu to enable the copying of columns from one table to another, replicating the drag/drop functionality.

SIGNIFICANT NEW FEATURES 6.7.1.0

- 1 Connection Properties has been redesigned as a Property Grid to facilitate future extensions.
- 2 SSIS connection editing now uses Microsoft standard dialog to build the connection string if nothing is currently set.
- 3 New option added to context menus to create a duplicate copy of a meta object.
- 4 Enabled setting to auto add of artificial/surrogate key when drag/drop to create a new Data Store/Normalized object.
- 5 Merge update options now enabled for Teradata set based update code generation.
- 6 Character Set specification is now enabled for Teradata column definitions.
- 7 Linux scripts can now be generated for TPT ODBC loads on Teradata.
- 8 Native ODBC loads now have the option available to write extract detail (row_count) parameter for each load table.
- 9 List of functions in the column transformation dialog can be edited by the user. Additional sets can be loaded and exported.
- 10 New look - Storage tab.
- 11 Column Properties screens have been reconfigured to improve ease of use and consistency.
- 12 Revised Load Table Source Mapping dialog.
- 13 Enable configuration of True/False values.
- 14 Updates to Teradata retrofit functionality.

SIGNIFICANT NEW FEATURES VERSION 6

Significant New Features 6.6.2.0

- 1 Enabled ODBC Attributes for TPT ODBC Loads.
- 2 Teradata file loads now provide an option to specify the character set of the file being loaded.
- 3 Beta Support of Linux Script generation for File loads.

Significant New Features 6.6.3.0

- 1 New column context menu option added that enables bulk changes to selected attributes including source table, data type, nulls etc.
- 2 Significant changes have been implemented for the selection of diagrams to display.

DETAILED LIST OF CHANGES - RED 6.8.5.0

Changes since 6.8.4.0

Database	Key	Release Note
Common	RED-1129	Change of storage location enabled for multiple objects.
Common	RED-1723	Enabled configuration of the ValueColumn property of Olap Dimension attributes.
Common	RED-2495	Change of storage location enabled for multiple objects.
Common	RED-3090	Columns created by drag/drop or send/add no longer have their default value copied from the source column unless creating a Retro object.
Common	RED-3132	Column list views now retain any relevant column width sizes.
Common	RED-3304	Change of storage location enabled for multiple objects.
Common	RED-4199	Default target location can now be specified for Load, Stage, Dimension, Dimension View, Kpi Fact, Fact, Aggregate, Data Store, Normalized, View Default and Retro objects.
Common	RED-4437	When Opening or Saving a file, or choosing a folder, the user is presented with an updated dialog box with a modernized look and feel.
Common	RED-4612	Added logic to prevent an associated procedure or script from being deleted if it is either checked out by another user or if there exists another object with the same associated procedure or script. Added logic to prevent Save or Compile in the procedure or script edit window if the procedure or script becomes checked out by another user after the edit window was opened or if the procedure or script is deleted after the edit window was opened.
Common	RED-4626	3 Reports changed to include the object type name for sorting and output: Column Transforms, Object-Job Matrix and Object-Project Matrix.
Common	RED-4726	It is now possible to specify an archive file for SSIS file loads.
Common	RED-4788	Table column names will have invalid/unsupported characters removed.

Common	RED-4974	Target-enabled license keys are now invalid and will need to be reissued.
Common	RED-5050	When supplying a parameter file as a command line argument during importation of an Application, if no DSN is loaded from the parameter file then the standard login dialog is presented to the user to collect the DSN value.
Common	RED-5060	With multiple Red versions installed, un-installing one version will de-register "flowchartx32.dll" causing Diagram pane to stop working on the remaining Red installs. If "flowchartx32.dll" load fails a warning message will now pop up suggesting RED installation repair as a way to fix this issue.
Common	RED-5071	Corrected glossary in generated documentation to only exclude Dimensions of Work and Mapping type
Common	RED-5173	A problem with deleting tasks from jobs created from diagrams has been fixed. Previously, the task that was actually deleted from such a job was unpredictable. A problem with saving the dependencies of jobs created from diagrams to deployment applications has been fixed. Newly-created jobs will have their dependencies correctly saved and loaded, however jobs with the problem in existing deployment applications with this problem will need to have their dependencies rebuilt.
Common	RED-5190	Fixed the RED UI to correctly scale according to the current font scaling level (100%, 125%, or 150%).
Common	RED-5198	Corrected issue with cursor state error message for sqlblock execution that contain no result sets.
Common	RED-5240	Corrected directory listing for some HDFS.
Common	RED-5350	Columns exported from WhereScape 3D that have a comment will now have those comments imported into the Data Warehouse via APL.
Common	RED-5393	Tables created in WhereScape 3D of type "Normalized-History" and "Data Store-History" can be imported into WhereScape RED via WhereScape Setup Administrator.
Common	RED-5452	WhereScape RED has been verified on Windows 10.
Common	RED-5460	Setup Administrator now prevents you from entering a license key without Administrator privileges if the license key was previously entered with Administrator privileges.
Common	RED-5497	Setting default object subtype was possible for just Models and Dimensions; this functionality has been extended and it is now possible to set default subtypes for all object types that have them.

Common	RED-5511	Fix sequential processing of OLAP Cubes to discard previously processed objects rather than continuously accumulating new objects to process with already processed objects.
Common	RED-5526	Now default to include define of Attribution Relationships when defining new OLAP dimensions.
Common	RED-5539	Now including OLAP Dimension name on OLAP attributes add dialog.
Common	RED-5571	Fixed a problem with creating dependencies for tasks added to a job without rebuilding dependencies.
Common	RED-5573	Fixed missing dialog to set start/end date columns for ranged dimension in procedure build dialog.
Common	RED-5592	New repository selecting datavault as type will result in more appropriate default settings.
Common	RED-5645	The stand-alone scheduler maintenance utility now does not require a valid license to be installed, as the documentation states.
Common	RED-5803	<p>Changed the terminology "Checked Out" to "Locked For Edit" when describing procedures or scripts which have already been opened for editing, and which can only subsequently be opened for viewing.</p> <p>This terminology change is visible on the properties dialog for procedures and scripts, and is also visible as a grid column heading for the list of procedures when selecting the procedures item in the left browser pane.</p> <p>Also changed the Check Out and Delete operations for procedures and scripts, and the Regeneration and Drop operations for procedures so that these operations are not permitted if the object is currently Locked For Edit by another user.</p>
Common	RED-5843	Oracle scheduler statistics statements can now be up to 4000 characters long.
Common	RED-5865	When setting the documentation directory, trailing "\" characters are now handled correctly. Documentation index will now always be called index.html and this can not be overwritten.
Common	RED-5886	An option to enable the "Olap Role" object type was removed. This object type is not used, so enabling it was not useful.
Common, Teradata	RED-5912	File load objects in 3D to RED export will now parse and edit the source_location string to a directory and file name.
Common	RED-5926	Confusing error message displayed by Setup Administrator when attempting to create a repository in a user/database that already contains a RED repository has been reworded.

Common	RED-5993	Parameter substitution now supported in source filename for XML file loads.
Common, Oracle	RED-6001	The file format for metadata backups created by the "Unload the Metadata to Disk" menu item has changed in order to support Unicode column comments. Existing backups will continue to work, but new backups will not be compatible with older versions of RED.
SQLServer	RED-692	Corrected reporting of deleted rows when processing partitioned fact tables on SQLServer.
SQLServer	RED-2828	Corrected reporting of deleted rows when processing partitioned fact tables on SQLServer.
SQLServer, Oracle	RED-2867	Corrected assignment of projects when converting to partitioned. Previously the fact object was removed from all projects, and the Exchange/swap table was left in all the projects the fact had been in
SQLServer, DB2, Oracle, Teradata	RED-4583	Fixed the spelling of Running (which was incorrectly spelt as Running) in the selected output of the ws_admin_v_sched view.
SQLServer	RED-4623	New option added for SQLServer Native ODBC load to configure the setting of "MAXERRORS". This is being defaulted to 0 rather than the SQLServer default of 10, therefore there is a change in functionality for existing Native ODBC loads.
SQLServer	RED-4783	Fixed error when creating a cube with a large number of partitions and full logging is turned on.
SQLServer, Oracle	RED-5244	corrected so compiled code is same as saved code for Ora/SQL when no targets enabled
SQLServer	RED-5256	Corrected issue with create of new job that may result in deletion of tasks from previously edited job.
SQLServer	RED-5279	Azure SQL Database enabled as a Repository/Data Warehouse.
SQLServer, DB2, Oracle, Teradata	RED-5387	Inserting one or more single quote characters (') into comments will no longer cause database errors.
SQLServer, DB2, Oracle, Teradata	RED-5392	Eliminate a potential race condition when getting the details of a running job which could have completed in the mean time, where its details will have been moved out of ws_wrk_job_run into ws_wrk_job_log.
SQLServer	RED-5461	Fixed issue with view creates in SQL Server scheduler.
SQLServer	RED-5482	Fixed issue with transformations for view creation in scheduler.
SQLServer, DB2	RED-5562	Substitution of \$SEQUENCE\$ in the archive file name for SQL Server file loads now works correctly.

SQLServer, DB2, Oracle	RED-5609	Added open with retry to scheduler to avoid "Permission denied" error in case of locked files.
SQLServer, Oracle	RED-5633	When doing bulk changes to object storage there was no option to change just Filegroup or just Schema/DB, they had to be changed together for all selected objects. Bulk storage change dialog has now been modified to provide a more granular way to apply storage changes.
SQLServer	RED-5641	Fixed the RED manifest to eliminate ambiguity about which custom controls implementation should be loaded.
SQLServer, Netezza	RED-5666	When importing an application with Setup Administrator the user will be shown a dialog box with which they can use to select/create a target connection. The tables being imported will be created at the target connection selected/created using the dialog box.
SQLServer	RED-5736	When building/rebuilding the update procedure "ANSI join" check-box is no longer available for SQL Server. SQL Server table joins are now always ANSI.
SQLServer, DB2, Oracle	RED-5904	Reduced usage of memory.
SQLServer	RED-5948	Fixed an issue with the display of certain boolean-values attributes of OLAP Cube dimension attributes and measures.
DB2	RED-5991	Fixed the "Build All Indexes", "Build Indexes", and "Drop All Indexes" operations for indexes of ODS and EDW 3NF tables to work correctly in the Windows scheduler for DB2
Oracle	RED-4926	Fixed the Oracle Linux/Unix scheduler scripts to locate the Monitor log directory using the correct environment variable.
Oracle	RED-5225	Added purge keyword for oracle table drops via scheduler.
Oracle	RED-5449	Corrected issue introduced in Version 6.8.1.2 for create of view for remote view loads on Oracle via scheduler.
Oracle	RED-5642	Fixed issue with ODBC connections in Direct Path scheduler.
Oracle	RED-5868	Fixed wrong environment variable in Oracle cleanup script
Oracle	RED-5872	Running Gather Statistics from the context menu on Oracle will now use the statement saved in the options if there is one.
Teradata	RED-2345	Fix the sequence number passed into load scripts and export scripts to be the assigned job sequence number (when inside the Scheduler) or assigned from the same range of available job sequence numbers (when inside RED).

Teradata	RED-3314	For Teradata TPT script-based loads from Windows and UNIX/Linux connections it is now possible to disable the check for the existence of the file. This makes it easier to use built-in TPT functionality to wait for the arrival of the file. Also, code relating to functionality that is not requested for the load table are now omitted from the generated script.
Teradata	RED-4702	Statistics are now dropped on Teradata columns that need dropping/altering in application loads.
Teradata	RED-4810	Targets on Teradata are now enabled.
Teradata	RED-5164	Fixed issue when using CHAR datatypes in TPT loads and exports.
Teradata	RED-5324	Superfluous message box describing a 'ws_dbc_connect table' error no longer occurs.
Teradata	RED-5338	Corrected recreate_dssdemo script for Teradata to include all correct options for dssdemo user.
Teradata	RED-5371	WhereScape RED has been verified on Teradata 15.10.
Teradata	RED-5479	WhereScape Setup Administrator will use the 'scale' attribute when constructing a timestamp value from an imported Teradata XML application.
Teradata	RED-5572	Teradata stage table set merge functionality was failing during a query of ws_stage_col in some cases, this has been fixed.
Teradata	RED-5640	Fixed issue with Unix exports.
Teradata	RED-5699	Fix Rebuild of update procedure for Stage tables in Teradata to save the Build Type for Work Tables and Permanent Stage Tables.
Teradata	RED-5710	Corrected procedure validate menu option - Validate procedure status in tool/validate menu option.
Teradata	RED-5748	Fixed the Teradata file loads to handle the Fatal Error action correctly.
Teradata	RED-5811	Load table column character set attribute added to application deploy.
Teradata	RED-5815	New loads from Hadoop into Teradata now default to Script loads using TPT Load.
PDW	RED-4455	Flat file loads into PDW targets are now supported, loading from Windows (as File load or Script based load), or from Unix/Linux or Hadoop (as NativeSSH load).
PDW	RED-5250	Altered binding of return value for procedures executed via scheduler to cater for issues with PDW.
PDW	RED-5462	Corrected Index Drop on PDW targets to use three-part naming (db.schema.tablename) as appropriate.

PDW	RED-5672	Added newly supported distribution method "Round_Robin" for PDW AU4.
PDW	RED-5709	Removed overly restrictive force of no secondary indexes when have clustered index (as opposed to columnstore index) on PDW.
PDW	RED-5738	The default PDW CTAS procedure templates can now optionally create the clustered index after the CTAS statement rather than as part of the DDL.
PDW, Hive	RED-6114	Change Detection columns are allowed to be specified for documentation purposes when building the procedure on tables that use template code generation.

DETAILED LIST OF CHANGES - RED 6.8.4.0

Changes in RED since 6.8.3.0

Database	Key	Release Note
Common	RED-2851	Fixed application create and load to permit comma in all connection attributes.
Common	RED-3372	Replaced AMO10/Microsoft.AnalysisServices.DLL version 10.0.1075.23 (2008 CTP) with version 10.50.1600.1 (2008 R2 RTM -- no SP).
Common	RED-3551	Extended available source table list in column change dialog now includes all valid types.
Common	RED-3556	The "<- Update" and "Update ->" buttons now work while editing user-defined documentation fields for columns.
Common	RED-3573	When adding a column to a table using the "Add Column" item from the context menu it is now possible to specify language mappings and user-defined documentation fields at the same time as the remainder of the column information.
Common	RED-3581	User documentation is now copied when adding or dropping columns from another object (via send/add or drag/drop). Only documentation fields with matching names are copied. Note, creating a new table using drag and drop does not copy documentation fields.
Common	RED-3625	It is now possible to load from delimited flat files using SSIS.
Common	RED-3672	If the imported XML file from 3D contains a column transformation, then it's used.
Common	RED-3678	NOPI, NUPI, UPI and NUSI flags are now set in RED metadata if the applicable elements are present in the imported XML file.
Common	RED-3932	Maximum Groups has been increased to 250; and maximum Projects increased to 1000.
Common	RED-4020	Dragging a column into a table that already contains a column with the same name will no longer lead to the original column being moved instead of the new one. Dragging all of the columns from a table will position the added columns where they were dropped instead of always at the end of the table.

Common	RED-4069	Fixed a problem when creating a new project inside a group from the group context menu for which the project name already exists in another group. Without the fix, the new project was incorrectly nested under the root, and a link to the existing project was added to the group. With the fix, the new created project will now be correctly nested inside the group and is distinct from the other existing project with the same name.
Common	RED-4202	Removed limit of 512 columns.
Common	RED-4501	Track forward reports now continue when an internal table has the same name as an external source table.
Common	RED-4502	View objects are now included in html glossary.
Common	RED-4505	Removed limitations of each individual edit box for joins, "Where" - and "Group By" -clauses to allow a total of 12,000 characters for the combined text of the joins, "Where" - and "Group By" -clauses.
Common	RED-4508	The description associated with tables exported to a 3D XML file is saved into the RED metadata.
Common	RED-4519	Corrected setting of default datatype mapping set when using target objects.
Common	RED-4526	Language mapping and user documentation are now copied when duplicating a column.
Common	RED-4527	When parsing the connection data in the imported XML file, we are now supporting the 'windows' connection type, using the 'user' element if it is present, using the 'database' element if it is present and using the 'path' element if it is present.
Common	RED-4528	If the imported XML file contains a <default_value> element, then its value is used. If it is a default value for a string column, the creator of the XML file must surround the default value with single quote (') characters for APL to generate a valid SQL statement.
Common	RED-4529	If there is join information listed in the imported XML file, then it is used to create the required joins on fact tables.
Common	RED-4541	The SSIS loaders are no longer dependent on a DLL that is not included with the installation.
Common	RED-4549	Changed the daily, weekly, monthly, and annually calculations of the new 'start after' datetime to calculate from the old 'start after' datetime rather than from the current datetime.
Common	RED-4552	Fixed the build and install of deployment applications to correctly save and restore the Display Folder property for OLAP calculations.

Common	RED-4606	Removed limitations of each individual edit box for joins, "Where"- and "Group By"-clauses to allow a total of 12,000 characters for the combined text of the joins, "Where"- and "Group By"-clauses.
Common	RED-4609	Optional user name in Application Load Options Dialog is stored with versions of objects for audit trail.
Common	RED-4610	Documentation will no longer stop at 1000 FACT tables.
Common	RED-4632	The SSIS loaders are no longer dependent on a DLL that is not included with the installation.
Common	RED-4640	Corrected issue with index validate/create not actually performing the create.
Common	RED-4648	Changes made for 'display data' option via both left hand and right hand pane to include db specific limits to query to increase performance particularly on MPP's.
Common	RED-4703	Removed limitations of each individual edit box for joins, "Where"- and "Group By"-clauses to allow a total of 12,000 characters for the combined text of the joins, "Where"- and "Group By"-clauses.
Common	RED-4704	Changes to Help/About to include extended detail of ODBC Driver, Target Databases and Scheduler.
Common	RED-4762	It is now possible to load from fixed-width flat files using SSIS.
Common	RED-4780	WslCube10.exe now returns an error when cube processing fails.
Common	RED-4816	The UNIX/Linux shell to use for generated scripts can now be set in the connection properties. Using the name of the connection to influence the chosen shell is now deprecated and will only work until the connection properties are opened.
Common	RED-4866	Aggregate, normalized, data store and view table types are imported from the XML exported from 3D.
Common	RED-4888	Browsing connections with targets defined now uses the Datawarehouse tab rather than Source.
Common	RED-4938	Fixed a problem with Native ODBC Loads from some DB2 sources in the case that not all columns have a source column.
Common	RED-5001	ODL now adds message to audit log when it cannot proceed due to new/unrecognized server's host key.
Common	RED-5016	Tidy up of identification/determination of numeric or not when drag/drop to add a new column.
Common	RED-5018	Fixed issue with SQLBLOCK in child jobs.
Common	RED-5029	Analysis Services 2000 (deprecated Microsoft version) no longer available for setting of connection type. Existing connections of this type will remain as before.

Common	RED-5240	Corrected directory listing for some HDFS.
Common	RED-5274	Corrected logon options presented in security settings.
SQLServer	RED-1508	Increased the supported length of file/path names in file exports.
SQLServer	RED-3309	Metadata validate can now be launched from the command line.
SQLServer	RED-3583	Fixed the date and time parameter replacement logic of file names and trigger names specified for File-based exports which are run directly in RED. The fixed logic no longer reorders the date and time fields of parameters to be in a predefined fixed order; instead, it leaves the order as specified in the parameter. The fixed logic also leaves all separators present between the different date and time fields of parameters.
SQLServer	RED-3639	Added a fix to retrieve the complete field which contains the Connection Notes, which was incorrectly being terminated by the embedded comma.
SQLServer, DB2, Oracle	RED-3944	Added option to specify number of records in multi-pass delete of "new style" procedure generation for Normalized, ODS and Dimension objects in SQL Server, DB2 and Oracle.
SQLServer, Oracle	RED-3993	Removed option "Update Current Records Only" for Merge in procedure generation.
SQLServer	RED-4055	SQLServer extended properties functions now use the schema parameter and not the user parameter.
SQLServer	RED-4351	Fixed the determination of the slowly changing test inside generated update scripts when a transformation is specified.
SQLServer, Oracle	RED-4438	Improved handling of load table rename or move of schema to be in line with other objects.
SQLServer, DB2, Oracle, Teradata, Netezza, Greenplum	RED-4513	The template script language now supports parameters.
SQLServer	RED-4634	Fixed the creation of a SQL Server non-clustered primary key index to be correctly created as non-clustered when created from within the scheduler.
SQLServer	RED-4795	Fixed issue with race condition in scheduler for SQL Server.
SQLServer	RED-4803	Corrected report for identification of object not in the db to not report invalid object types such as exports.
SQLServer	RED-5256	Corrected issue with create of new job that may result in deletion of tasks from previously edited job.

SQLServer, PDW	RED-4845	Corrected procedure editor compile option on PDW when procedure name is mixed case.
SQLServer, DB2, Oracle	RED-4897	New option to specify number of deleted records per transaction for fact tables.
SQLServer, DB2, Oracle	RED-5109	Fixed memory leak in the Windows scheduler.
SQLServer, Oracle	RED-5244	Corrected issue to have compiled code same as saved code for Oracle/SQL when no targets are enabled.
DB2, Netezza, Greenplum	RED-1939	Rename of view on DB2 now prompts to drop as alter not possible. Renaming of Netezza objects now fully qualifies the target object. Rename of views on Greenplum now work correctly.
Oracle	RED-3378	Oracle Datastore, Normalized and Set Based Dimension update code now enables editing of the Oracle Hints for the insert, update and merge statements. These can also have defaults provided via the Tools/Options/Code Generation setting.
Oracle	RED-4409	New login method for Oracle repositories - Oracle Individual User.
Oracle	RED-4453	Oracle Big Data Connector Support, Part I. Support for Oracle SQL Connector for HDFS (OSCH) added, with the following restrictions in initial release: 1. Supporting only JDBC Thin; 2. Supporting only single file loads;* 3. Supporting only Oracle Wallet authentication (no support for interactive authentication option, which is the only other authentication option available for OSCH). *Note: It is possible to specify loading of multiple files by using wild cards in the Source screen of a table's properties if their format is exactly the same. Multiple files will be loaded successfully, however, the result report will be wrong, stating that not all rows were loaded successfully.
Oracle	RED-4545	Models exported from WhereScape 3D as "RED Builder Model" can now be imported into Oracle Databases via the WhereScape Application Deployment tool.
Oracle	RED-4592	RED now uses the Metadata DSN for backups.
Oracle	RED-4594	Removed DDL terminator for statements that contain comments only. This change allows to use '/' as the DDL statement terminator as this character is appended only to valid statements.
Oracle	RED-4600	Added Datapump export/ import mechanism to backup and restore on local Unix/Linux based Oracle data warehouses.

Oracle	RED-4650	<p>Oracle Big Data Connector Support, Part II.</p> <p>Support for Oracle Loader for Hadoop (OLH) added, with the following restrictions in initial release:</p> <ol style="list-style-type: none"> 1. Supporting only Delimited Text Files; 2. Supporting only single file loads; 3. Supporting only JDBC Thin; 4. Supporting only Online database mode; 5. Supporting only Oracle Wallet authentication (to match OSCH which supports only Oracle Wallet authentication option). <p>The need for supporting additional features is to be determined based on feedback.</p>
Oracle	RED-4998	<p>Fixed multiple scheduler logging issues where message added to audit ended with "Wrong number of parameters". An example of such message would be:</p> <p>"04/05/15 13:39:40 3231060/0 WsWrkAudit write error22 07001. [Microsoft][ODBC driver for Oracle]Wrong number of parameters"</p>
Teradata	RED-4318	<p>Fixed the redefinition of table indices to correctly store the Primary Index type after a rebuild of the table's update script.</p>
Teradata	RED-4331	<p>Fixed issue with Teradata file loads if first column has a default value or transformation and doesn't come from source file.</p>
Teradata	RED-4450	<p>Added new functionality to RED to enable script-based loads from Hadoop file systems into Teradata data warehouses.</p>
Teradata	RED-4532	<p>Fixed missing disconnect from Teradata at the end of a job.</p>
Teradata	RED-4544	<p>Models exported from WhereScape 3D as "RED Builder Model" can now be imported into Teradata Databases via the WhereScape Application Deployment tool.</p>
Teradata	RED-4557	<p>Implemented the suggested change to the select statement that determines the cursor for metadata tables to delete in Ws_Version_Clear.</p>
Teradata	RED-4568	<p>SSIS Loader option is now supported for loads to Teradata tables. Option must be enabled in Tools/Options to expose.</p>
Teradata	RED-4571	<p>Fixed issue with job dependencies in Teradata.</p>
Teradata	RED-4585	<p>Implemented a fix to correctly check if a Teradata table exists which has a table name of 30 or more characters.</p> <p>This change fixes the Create/ReCreate operation, as well as the Validate Against the Database operation.</p>
Teradata	RED-4760	<p>TPT loads now have additional attribute section available for adding options to tlogview call such as "-f '*'" to increase the logging detail.</p>

Teradata	RED-4769	Fixed missing usage of transformation for change detection columns for procedures using MINUS.
Teradata	RED-4840	Added option to specify file format for TPT loads of non delimited files. Note: The default for all non delimited files has been changed from 'Unformatted' to 'Text'.
Teradata	RED-4975	Drag/Drop of an entire table with artificial key column to a Stage table now presumes it wants just the artificial key column added to the stage table.
Teradata	RED-5054	Fixed incorrect escape character for TPT ODBC script load in scheduler.
Teradata	RED-5055	Correction to generated TPT ODBC script when no default ODBC user, and using TD Wallet for that connection.
Teradata	RED-5131	Corrected rename of a primary index at the table level to also update all the required meta fields.
Teradata	RED-5164	Fixed issue when using CHAR datatypes in TPT loads and exports.
Netezza, Greenplum, PDW	RED-4727	DB Link loads for Netezza, Greenplum and PDW now work via Scheduler.
Netezza, Greenplum, PDW	RED-4970	Corrected issue for jobs within jobs firing incorrect object via scheduler for repositories managing PDW, Netezza or Greenplum objects.
Netezza, Greenplum, PDW	RED-4976	Fixed issue with child jobs in scheduler for target objects in Netezza, Greenplum and PDW.
Greenplum	RED-4542	Data can now be exported from the Data Warehouse via a Windows or UNIX/Linux connection. Currently only file based exports are supported, not script based. Note: To process Greenplum exports via the Windows Scheduler, please ensure that the Windows Scheduler user has the all the necessary permissions including having the ssh host key saved. The UNIX scheduler is currently not supported for Greenplum exports.
Greenplum	RED-4575	Corrected view name referencing on Greenplum to use schema name encapsulation.
Greenplum	RED-4898	Changed all Greenplum view create/recreate to perform a drop/create as the "create or replace" syntax of Greenplum does not support most changes to views such as column or view name changes.

PDW	RED-4461	Tables stored in a PDW database can now be exported to a Windows connection using sqlcmd. Both file and script-based exports are supported. Note: The -I option must be specified when accessing PDW with the SQL Server 2012 client tools; this option is added to the export options by default for PDW exports. Also note that the summary line (x rows affected) cannot be suppressed when exporting from PDW; A post-export procedure or a customized script should be used to remove this if necessary.
PDW	RED-4637	Corrected Template default directory setting to include trailing \.
PDW	RED-4839	Updated code templates for PDW to resolve issue of line length exception with multi key business columns.
PDW	RED-4849	Support in PDW template for NULLs in type 2 columns.
PDW	RED-4895	Corrected Fact Code generation for dimension columns having incorrect source (dimension table not stage as per prejoin).
PDW	RED-4945	Changes to PDW CTAS Union template to correct update of type 1 columns on multi business key type 2 objects.
PDW	RED-4947	The "Upsert" load mode is now available for Integration Services loads into PDW tables.
PDW	RED-5250	Altered binding of return value for procedures executed via scheduler to cater for issues with PDW.
PDW	RED-5292	Changes to PDW logic to ensure using correct DB when accessing object information.

DETAILED LIST OF CHANGES - RED 6.8.3.0

Changes since 6.8.2.0

Database	Key	Release Note
Common	RED--4541	The SSIS loaders are no longer dependent on a DLL that is not included with the installation.
SQLServer	RED--4616	Fixed issue with Index Pre-Drop option when used with Process Table via Scheduler where index would get dropped but not recreated.

DETAILED LIST OF CHANGES - RED 6.8.2.0

Changes since 6.8.1.0

Database	Key	Release Note
Common	RED-930	Creating a new project now defaults to enable all available object types in that project and sets it as the active project expanded.
Common	RED-1612	<p>Added support to add dss_create_time column for objects Stage, Data Store, Normalized, Dimension, Fact and Aggregate.</p> <p>Usage: Go to Options->DSS Tables and Columns -> DSS Columns to Include and Naming. Add a name to dss_create_time, e.g. dss_create_time.</p>
Common	RED-1662	<p>1) If RED generates a procedure line longer than 256 characters, it will inform the user and abort the procedure generation. The user must modify the their input that caused the long line to get past this message box.</p> <p>2) If the user closes the procedure editor without saving their procedure, they'll be prompted to save their work. If the procedure happens to have a line longer than 256 characters RED will be unable to save it. In this case RED will allow the user to abort the close of the editor tab and modify their work to correct the long line of code.</p>
Common	RED-2918	Basic support for loading from a Hadoop file system.
Common	RED-2992	Index Regeneration now retains the setting for active if index is pre existing.
Common	RED-2997	ODBC and Database Connections now include a setting for the default list of schema to use when change to browse that connection.
Common	RED-3166	The sorting in RED's scheduler and result pane is now case insensitive.

Common	RED-3176	<p>New options added to OLAP Cube properties to determine at which level cube partitions are processed in parallel. They can remain sequential, have all the cube partitions processed in parallel, or process each measure group sequentially with the partitions for each of the measure groups being updated in parallel.</p> <p>New option added to OLAP Cube properties to direct all dimensions set for update with the cube to be updated in parallel rather than sequentially.</p>
Common	RED-3488	During an application load, erroneous error is no longer output if an inactive index is found.
Common	RED-3614	Fixed issue with regeneration of automatic indexes in slowly changing dimensions.
Common	RED-3653	Issue with Diagram view not displaying underscores in column names has been resolved.
Common	RED-3865	Column List and Table Validate now provide option to synchronize the column order to the same as the physical table in the database.
Common	RED-3868	Corrected issue with incorrect datatype mapping set being used for bulk retrofit.
Common	RED-3869	Back button for File load Wizard now works as expected.
Common	RED-3873	Corrected issue with object duplicate and setting of the associated sequence name.
Common	RED-3879	Repository compare report now includes the names of the compared repositories in the report title and the name of the output file when that option selected.
Common	RED-3881	Meta Editor (RED) now starts up with same window position and size as when last closed (unless option to maximize is selected in tools/preferences).
Common	RED-3882	ODBC Source list in Setup Administrator now list ALL DSN's, previously only listed ones suitable as Meta Repositories.
Common	RED-3883	Job refresh display now also refreshes task display.
Common	RED-3884	Corrected issue with creating a new object from a version setting associated sequence name incorrectly when new version has an alternate name.
Common	RED-3887	Reports tab has been altered to improve sorting of columns identified as numeric.
Common	RED-3891	Added logging to the Metadata validate alter table upgrade dialog and "send to file" right click option to the Metadata validate list view.

Common	RED-3928	Tools/Options now includes ability to configure a default setting for new object 'create clause' append defaults, which is useful for options such as on Oracle the setting of Parallelism and logging settings.
Common	RED-3929	RED now uses up to 256 characters for the "column data type" column.
Common	RED-3954	Backup unload to disk no longer includes the ws_obj_version table detail when select to exclude versions in the backup.
Common	RED-3958	Setup Administrator now uses user preference settings from RED to determine characteristics of file output when output results of an application load.
Common	RED-3977	New ability to sort columns in column select dialog
Common	RED-3987	Display columns now converts line feeds to a single space for the business description field to improve readability.
Common	RED-3989	Resolved issue of Application Deployment being excessively restrictive with short name uniqueness.
Common	RED-4016	Changes made to scheduler to reduce likelihood of script file contention issues during load processes.
Common	RED-4037	The xml batch application load options file now includes options for setting the encoding and line terminator for the DDL and procedure listings. The "Create xml Options File" in the Setup Administrator/Deploy menu has been updated to include these options as well.
Common	RED-4040	This issue enhances the new procedure generation dialog to support a user in filling in the complete minimal set of necessary information, e.g. business keys. If the information is the category of the missing entry is highlighted and the corresponding field is highlighted in RED.
Common	RED-4050	New option added to allow default setting of 'Optional Create DDL' attribute on new objects. This attribute is appended to the 'CREATE TABLE' statement.
Common	RED-4072	View objects now have a 'Select Distinct' property option to be included in the generated DDL.
Common	RED-4170	Browsing a windows directory with the "system objects" check-box unset now hides files and directories identified as "hidden" and "system"
Common	RED-4185	When dropping a file onto a drop target which is not a load table object group, RED will now offer to define a new load table object.
Common	RED-4220	Task editing now allows multi-select change of task actions across varying object types.

Common	RED-4286	Language mappings are correctly copied through when creating an OLAP dimension from a dimension table. They're also correctly copied when creating an OLAP cube from a fact table, and RED auto creates the associated OLAP dimensions.
Common	RED-4374	"Process Cube Dim" scheduler option corrected to process all the cube dimensions rather than only those enabled for update with that cube.
Common	RED-4383	Procedure line limit lengths have been made consistent throughout the product.
Common	RED-4388	Corrected processing of cube and db dimension processing to not also update the cube itself.
Common	RED-4489	Added support for special characters in passwords for native loads in SQL Server and Oracle.
DB2	RED-3732	Fixed issue on DB2 for a dimension that joins to a changing dimension when minimal logging is turned on.
DB2	RED-3959	DB2 set based dimension updates now support auto add of a zero key/unknown row.
Greenplum	RED-4431	Variable names, or \$OBJECT\$ style names, are replaced in User Defined Views.
Greenplum	RED-3997	Fixed issue with multiple business keys for ranged dimension using "Join" as the delta detection method.
Netezza, Greenplum	RED-3843	Procedures can now be manually set to a selected target for target enabled repositories.
Netezza, Greenplum	RED-3952	Storage tab now included for views as appropriate.
Netezza, Greenplum	RED-4143	Corrected issue for Netezza/Greenplum resulting in auto-add procedures with multipart business keys using same source for each ID.
Oracle	RED-2257	Oracle single column windows file loads now correctly display the full path of the source file.
Oracle	RED-3178	Support for DataDirect's Oracle ODBC driver connection to the meta repository.
Oracle	RED-3831	Oracle and SqlServer metadata indexes are now explicitly defined/created in the metadata tablespace/filegroup.
Oracle	RED-3922	Oracle now provides options to control the name and settings for sequences used for surrogate key generation.
Oracle	RED-3923	Corrected result message for Oracle Exports.
Oracle	RED-3933	Most types of Oracle custom Stage procedures will now be generated correctly -- except Bulk Bind Stage custom procedure which ends up empty. JIRA RED-4204 has been created for Bulk Bind fix.

Oracle	RED-3972	When dropping a dimension and its metadata, users are now prompted whether or not they also want to drop the associated sequence.
Oracle	RED-3988	SC Index on history tables now allows indexes columns to be as high as 32 as per new Oracle 11 limit.
Oracle	RED-3992	Oracle artificial key sequence added to html documentation if not the default.
Oracle	RED-4203	Sequence drop/create now offered when alter sequence name.
Oracle	RED-4242	Default Support added for ORAOLEDB (Oracle OLEDB) provider for MSOLAP cubes.
Oracle	RED-969	Oracle now provides ability to control the TRUNCATE options such as REUSE STORAGE for load processing and procedure generation.
Oracle, Teradata	RED-3792	Fixed to populate parameters when job is in blocked state.
SQLServer	RED-2818	SQLServer Clustered indexes now default to the default 'data' filegroup rather than the default 'index' filegroup.
SQLServer	RED-3574	Scheduler no longer generates script with RTRIM's around all attribute during file based exports.
SQLServer	RED-3613	Quick start for SQLServer now attempts alternate ODBC Drivers.
SQLServer	RED-3737	Corrected possible issue with code generation after converting tables to track history (slowly changing) and using the 'alter' option.
SQLServer	RED-3926	Fixed issue with Application build repeating same connections.
SQLServer	RED-4045	Corrected issue with order of dss columns for 'initial build' insert in generated SQL Server procedure.
SQLServer	RED-4053	An internal buffer has had its size increased to accommodate the large number of columns.
SQLServer	RED-4057	For the case of a rollup fact table having more than one source table, the generated update procedure will SUM only columns relevant to the current cursor's source table.
SQLServer	RED-4099	The user is no longer presented with unnecessary message boxes when redefining a Detail Fact Table as a Detail Partitioned Fact Table.
SQLServer	RED-4102	Corrected issue with SQLServer Export trigger file generation.
SQLServer	RED-4144	Storage location enabled when target/schema storage enabled.
SQLServer, DB2	RED-4255	Fixed issue with percent sign in where clause for source in ODBC loads.

SQLServer, DB2, Oracle	RED-4348	Removed plain default user and password from generated script.
SQLServer, DB2, Oracle, Teradata	RED-3804	New option enabled to Override the generated DDL for table objects.
SQLServer, DB2, Oracle, Teradata	RED-3885	Repository compare report output is now multi-column (Difference definition, Local value, Remote Value).
SQLServer, DB2, Oracle, Teradata	RED-4023	Buffer overflow crash in html documentation creation resolved.
SQLServer, DB2, Oracle, Teradata	RED-4025	Use of the term 'Source Strategy' in the GUI changed to 'Column Description' but the field is still used in join columns to describe the join predicate.
SQLServer, DB2, Oracle, Teradata	RED-4109	Spelling corrected in 'Application Build exceeds 5000' message during application build.
SQLServer, Netezza, Greenplum	RED-3998	Added support for usage of reference date for joins to changing/ranged dimensions to Greenplum, Netezza and SQL Server for Data Store, Normalized and Dimension objects in SQL Server and for Stage, Data Store, Normalized and Dimension objects in Greenplum and Netezza.
SQLServer, Oracle	RED-1054	Recreate or Alter of a partitioned fact table now prompts with offer to resync and recreate the related exchange table and indexes.
SQLServer, Oracle	RED-3895	Oracle Linux Scheduler scripts have been altered and need to be manually applied.
SQLServer, Oracle	RED-3900	Index redefine (regeneration) now keeps the 'predrop' setting if the index had previously been defined.
SQLServer, Oracle	RED-4249	All Oracle partition processing now references all_tab_partitions rather than user_tab_partitions so as to enable schema support.
SQLServer, Oracle	RED-4349	Fixed to allow special characters in passwords for script and file based loads.
SQLServer, Oracle	RED-649	Local Schema support for Oracle and SQLServer now enabled.
Teradata	RED-2973	Teradata datatype mapping now includes option to set the character set.
Teradata	RED-3395	Added trim of business key column name.
Teradata	RED-3500	RED for Teradata now supports non use of identity columns for artificial key column generation for data store; normalized; normal, slowly changing and ranged dimensions object types.

Teradata	RED-3659	Teradata Windows file export using TPT is enabled.
Teradata	RED-3683	Teradata TPT file based export on Unix and Linux enabled.
Teradata	RED-3771	Generated documentation includes documentation on Linux/Unix based exports.
Teradata	RED-3800	Teradata Merge update now has option to use a join vs minus to identify new rows.
Teradata	RED-3832	Teradata windows client calls no longer rely on deprecated TWB_ROOT system variable.
Teradata	RED-3855	Teradata Export to Windows can now be executed via a TPT Script.
Teradata	RED-3898	RED for Teradata now supports use of non-identity columns for artificial key column generation for model and history model tables. Automatic generation of code is provided if no user-defined logic for the key is given in the transformation field of the surrogate key column.
Teradata	RED-3950	Teradata queries now use dbc.ColumnsV rather than dbc.Columns, as the later does not support greater than 30 character column names. This meta detail is used during the likes of data display and table validates.
Teradata	RED-4051	Fixed bug in Job from Diagram functionality when there are views derived from views.
Teradata	RED-4369	Retrofit of tables which have columns with a default value of CURRENT_TIMESTAMP now correctly sets default value when retrofitting via the Retrofit Tables dialog.
Teradata	RED-4371	Changes made to better handle UTF file based loads via TPT to ensure schema defined has adequate buffer sizes defined.
Teradata	RED-4375	When defining a new object on Teradata that requires a surrogate key, the default data-type for that surrogate key is now 'Integer'. Previously this used an identity attribute. This can be altered via Tool/Options if required.
Teradata	RED-4385	Corrected referencing of view create for Teradata to include the target database.
Teradata	RED-4400	Corrected links to help pages for OLAP objects on Teradata.

DETAILED LIST OF CHANGES - RED 6.8.1.0

Changes since 6.7.5.0

Database	Key	Release Note
Teradata	RED-3287	Teradata TPT based export now supported on Linux/Unix.
Teradata	RED-3807	Small change to .tdenv example file to include example for usage of TD Wallet for the DSS password.
Teradata	RED-3663	Possibility to store and use TD Wallet definition in connections.
Teradata	RED-3703	"Fail when incomplete load" and "Script Load supports File Name Wildcards" options for Teradata file loads are now enabled for supported operations.
Teradata	RED-3724	Logon screen now enables use of Teradata Wallet String.
Teradata	RED-3536	Issue with Retro Loads using referencing incorrect database resolved.
Teradata	RED-3721	Changes made to Teradata Scheduler to prevent erroneous message regarding setting of next run.
Teradata	RED-2907	TPT Fixed width file loads now enabled.
Teradata	RED-3472	Validation report for DB Tables not in Meta now includes Views for Teradata.
Teradata	RED-3749	Corrected possible issue with Teradata column data type alterations where new column is defined as 'not null' and no default value is provided.
Teradata	RED-3750	Corrected help link for export objects on Teradata.
Teradata	RED-3841	Fixed issue with WhereClause in generated script for TPT Linux Exports.
Teradata	RED-3844	Enabled 'Optionally Enclosed By' option for TPT Exports.
Teradata	RED-3396	Teradata Unix/Linux TPT processing now uses -L command, and therefore no longer has dependence on environment variable TWB_ROOT
Teradata	RED-3801	Fastload and Multiload now support usage of TD Wallet connection details
Teradata	RED-3802	Windows export now creates trigger file when using TD Wallet for connection details.

Teradata	RED-3590	Teradata Unix Script Load/Exports now ensure unique work file names to ensure parallelism is possible.
Teradata	RED-3817	Windows TPT ODBC Load now checks rows sent vs rows applied.
Teradata	RED-3818	Corrected help link for Teradata Export Properties File Tab
Teradata	RED-3845	Teradata exports no longer use "SAMPLE 1" for header extract line.
SQLServer, Oracle, Teradata	RED-3803	SQL Native ODBC load no longer embeds password in batch files
SQLServer, DB2, Teradata	RED-3356	Windows scheduler now performs a daily cleanup on the ws_wrk_sequence meta table.
SQLServer	RED-3726	Setup Administrator now recognizes new MS ODBC Driver for SQL Server.
SQLServer	RED-3774	SQL Server table validate now better support BIGINT, SMALLINT and TINYINT.
SQL Server	RED-3741	Fixed invalid code generated for History objects using Merge option on SQL Server.
Oracle	RED-3527	Improved support for Oracle 12c.
Oracle	RED-3621	SQL*Loader file loads now support specification of Character Set for input file.
Oracle	RED-3620	Now possible to define Oracle Indexes as Invisible.
Oracle	RED-3705	Corrected intermittent issue with converting a waiting job to on hold for Oracle repositories.
Netezza, Greenplum	RED-3709	Corrected generated code for Netezza/Greenplum to support joins using source rather than target columns.
DB2	RED-3451	DB2 code generation for selected objects now uses property grid.
DB2	RED-2517	Option to populate dimensions via set based mode now enabled.
DB2	RED-3480	DB2 set based dimension, data store and normalized objects now support minimal logged updates.
Common	RED-869	Tracking diagrams now correctly handle stage merge tables.
Common	RED-3746	Bulk retrofit dialog now has new option to change user.
Common	RED-3646	Hierarchy add dialog now allows entry of a description.
Common	RED-1987	Added rebuild script item to "code" context sub-menu for script based load objects.
Common	RED-3618	Ability to add a new parameter when defining an update procedure.

Common	RED-2616	Object list for "All Objects" or for a selected Group or Project now includes the storage detail optionally via a setting in Tool/User Preferences.
Common	RED-2589	Changes made to the tracking reports and diagrams to better reflect merge tables. Column track reports enhanced to include tabbed report option.
Common	RED-3763	New option in Tools/Preferences to control if the the new script dialog is produced.
Common	RED-3627	New options added to configure the updatability of connection user/passwords within the meta tables.
Common	RED-3781	Corrected last beta introduced issue with context menu invocation of diagrams failing to produce.
Common	RED-3710	Corrected execution of SQL Block procedures within RED with regard to the connection being used.
Common	RED-2893	Connection user and password now support extended storage length in meta tables.
Common	RED-3756	Prompt now provided to allow missing join for multi sourced build of procedure.
Common	RED-3296	Corrected placement of function builder dialogs to retain the selected position for adding a new column/transform.
Common	RED-3751	Corrected issue with Property grid setting incorrect default source table when first column is from a pre joined lookup.
Common	RED-1036	Corrected default applications to have the daily date roll procedure update the current_fin_date where was previously setting current_cal_date.
Common	RED-3758	Code/Transform edit dialogs showing functions now provide scroll bar to enable viewing entire function description details.
Common	RED-3757	Resolved issue in setup administrator where some password strings were not handled correctly..
Common	RED-2950	Column default values are now correctly imported into retrofit objects.
Common	RED-3798	When creating a script based export, issue with options not being saved before generation of script is now resolved.
Common	RED-3825	Search for string report fixed to include search of facts.
Common	RED-3815	Corrected default button on Parameter Select dialog.

DETAILED LIST OF CHANGES - RED 6.7.5.0

Changes since 6.7.4

Database	Build	Key	Description
Common	140505	RED-3684	Corrected intermittent issue with bulk retrofit resulting in crash.
Teradata	140505	RED-3497	WhereScape RED now supports Teradata 15 as a data warehouse database
Netezza	140505	RED-3658	Corrected code generation for Netezza history objects that resulted in invalid test for version numbering.
Common	140505	RED-3650	Convert to history not setting version and current flag default values. Corrected to include corrected default values for new columns when altering to history type objects.
Teradata	140505	RED-3645	Improved consistency in final audit message logging for Teradata windows scheduler
Teradata	140505	RED-3644	Improvement to inter task lag in Windows Scheduler for teradata
SQL Server	140505	RED-3643	Corrected calls to sp_rename being in uppercase resulting in not finding the procedure.
Common	140505	RED-3221	Corrected issue with Duplicate object functionality that results in follow on steps having issues with assuming columns are all prejoin
SQLServer	140404	RED-3603	SQLServer now defaults surrogate keys to identity(1,1) so as to reserve 0 for zero key value.
Common	140404	RED-3598	Windows Scheduler was resulting in failure for large select statement of ODBC based load.
Common	140404	RED-3587	Application deployment now creates requested comments on view objects.
Common	140404	RED-3585	Corrected setting of publish name (case issue) and description when defining a new OLAP Dimension attribute that participates in a hierarchy.
Common	140404	RED-3579	Further changes made to ensure compile failures are reported during Application Deploy.

Teradata	140404	RED-3575	Teradata objects can now use up to 64 characters for name.
Netezza	140404	RED-3572	Netezza now supports passing in parameters to stored procedures. All existing procedures must be converted (old manually deleted) to meet the new input parameter list of just variable arguments.
SQLServer	140404	RED-3570	Now support Clustered ColumnStore indexes on SQLServer 2014.
Common	140404	RED-3569	View Alias' creation is now explicit in the columns selected from the source view.
Teradata	140404	RED-3567	Include statistics gather detail for Join Indexes to documentation
Teradata	140404	RED-3563	Changes made for Teradata windows scheduler to decrease inter task delays.
Common	140404	RED-3557	Script and file loads no longer create/update trigger parameters when trigger prefix is blank.
Teradata	140404	RED-3553	Issue with Application Deploy dropping tables resolved.
Teradata	140404	RED-3546	Statistics define now enabled for Join Index objects.
Common	140404	RED-3544	Native loads via scheduler now use log level of the calling scheduler.
Teradata	140404	RED-3540	Corrected non setting of view type when cancel during drag/drop to create a new view.
Common	140404	RED-3522	Search for String now searches the complete user defined view details.
Common	140404	RED-3519	Improved load performance of object tree refresh.
Teradata	140404	RED-3517	Loads that use TPT now have option to override the TPT Job Name.
SQLServer	140404	RED-3515	SQL Server comments now available for sourcing of SQLServer views during retrofit and load table definition.
Common	140404	RED-3509	Corrected issues related to non documented projects causing incorrect object lists in the generated documentation.
Teradata	140404	RED-3502	Teradata Linux scheduler now correctly clear old job logs.
Common	140404	RED-3501	Corrected issue with adding tasks with > 63 characters to jobs
Common	140404	RED-3496	Changes made to improve sorting of numeric columns for 'Display Data' option.

Netezza	140404	RED-3452	Netezza code generation now uses a new property grid for the build options.
Common	140404	RED-3445	Options for export to CSV such as for job detail/reports now use the configurable options in user preferences/output to determine the output file format.
Common	140404	RED-3414	Bulk retrofit no longer uses alternate object name when simply a clash of short name encountered.
Common	140404	RED-3408	Corrected issue with not always retaining selected dimension object subtype during initial drag/drop.
Common	140404	RED-3367	Additional checks now performed for Application Deploy and Import to ensure do not load orphaned indexes.
Common	140404	RED-3345	Required Ancillary Columns are now added immediately when altering to a history type object rather than only at point of code regeneration.
Teradata	140404	RED-3310	TPT based loads now have options field to be included in the tbuild command line.
Common	140404	RED-3278	Procedure generation for a number of objects types have been migrated over to a new property grid method to enable further enhancements.
Common	140404	RED-3273	Generated Documentation has improved look.
SQLServer	140404	RED-3264	Index create failures via scheduler no longer creates additional messages on subsequent tasks.
Common	140404	RED-3181	XML loads via scheduler now handle issues with data containing '%' characters.
Teradata	140404	RED-3169	TPT Script Generation leaves \$P parameter replacement for execution time.
Teradata	140404	RED-3161	Corrected some object documentation on Teradata objects.
Teradata	140404	RED-3146	Corrected "key type" description for index definitions in index displays.
Oracle	140404	RED-3145	Oracle Linux/Unix scheduler now better handles 'complete' being found in post job commands.
DB2, Teradata	140404	RED-3128	Procedure compare to compiled code now correctly verifies the fully referenced object name (includes DB).
Oracle	140404	RED-2837	Native load now caters for > 255 default characters for character data in sql*loader.
Oracle	140404	RED-2771	Now Trim CR or LF in transform code to fix oracle file load error in the windows scheduler.

Teradata	140404	RED-2611	Corrected documentation for Teradata merge update detail.
Common	140404	RED-1876	Corrected text alignment in generated documentation.
Common	140404	RED-1874	Documentation now provides better detail when associated objects have not as yet been documented.
Common	140404	RED-1873	Documentation tabs now display the full path/file name.
Common	140404	RED-1870	Included the table properties clause in the generated documentation.
Teradata	140404	RED-1112	Teradata Script Exports now generate correctly when the where clause contains special chars

DETAILED LIST OF CHANGES - RED 6.7.4

Changes since 6.7.3

Database	Build	Key	Description
Teradata	140310	RED-3538	Corrected multi threading for Teradata Linux/UNIX Schedulers.
Teradata	140310	RED-3505	Corrected issue with incorrect procedure build dialogs being offered for initial build of code on Teradata dimensions.
Common	140310	RED-3485	Corrected issue with possible failure during documentation create related to autoadd being included in code generation.
Common	140310	RED-3469	Correction to include for parameter replace for Native ODBC Loads.
Common	140310	RED-2607	OLAP Dimension retrofit now handles the situation where the attribute in a cube has a key column but not a name column.

DETAILED LIST OF CHANGES - RED 6.7.3

Changes since 6.7.2

Database	Build	Key	Description
SQLServer	140124	RED-3467	Corrected issue with SQLServer SSIS loads failing to use fastload options.
Common	140124	RED-3465	Corrected ability to schedule index creates from the middle pane.
Teradata	140124	RED-3461	Fact and Dimension (Model) object columns now retain their character set attribute setting.
Common	140124	RED-3460	Corrected handling of multi-character delimiter for Unicode Native Loads.
Common	140124	RED-3458	Corrected application loads not reporting all compile failures.
Teradata	140124	RED-3457	Correct renaming for teradata objects via RED.
Netezza, Greenplum	140124	RED-3447	Greenplum / Netezza ODBC loads now use explicit NULL rather than empty value ("") when incoming length is 0.
Common	140124	RED-3442	Corrected ability to set a View object to have a subtype of "Dimension View".
Teradata	140124	RED-3441	Native loads on Teradata now correctly uses the DW Connection Database ID rather than meta connection DSN as introduced in previous version.
Teradata	140124	RED-3436	Corrected issue with case conversion setting for column properties.
Teradata	140124	RED-3434	Corrected Alter of table column attributes to ensure no loss of attributes such as Title when altering data type.
Common	140124	RED-3431	An attempt to Drop or Create an Index flagged as inactive now produces an appropriate error message.
Teradata	140124	RED-3429	Character set now taken into account when validating Teradata column size.

DETAILED LIST OF CHANGES - RED 6.7.2

Changes since 6.7.1.2

Database	Build	Key	Description
Oracle, DB2, SQLServer	130815	RED-3012	View Objects can now be replicated to other DB / Schema.
Common	130815	RED-3110	Create wizard and store full cube connect string.
Common	130815	RED-3157	Corrected issue with missing File Attributes tab for script based windows loads.
Teradata	130815	RED-3160	Corrected Teradata merge code for Norm / ODS / Dim / Fact change detection logic.
Common	130815	RED-3163	Corrected issue with property grids making check-boxes disabled on new installs.
Teradata	130815	RED-3185	Corrected restore from version for teradata procedure cancel.
Oracle, SQLServer	130815	RED-3187	Corrected issue with History code via Merge not supporting altered Ancillary Column naming.
Common	130815	RED-2583	Additional options for case conversion for SSIS load tables.
SQLServer	130815	RED-3131	Now use Alter View syntax when creating / recreating views on SQL Server.
Common	130815	RED-3156	New Context Menu option to Truncate tables. Revision of Preferences dialog.
Common	130815	RED-3171	New options included for DDL file definition in Application Deploy.
Common	130815	RED-3177	Connection properties now expose ability to provide the full connection string for OLAP sources.
Common	130815	RED-3183	Duplicate of objects now also copies / replicates the project / group mappings.
Common	130815	RED-3194	Connections now have a context menu to report on load and export objects associated with the selected connection.
Common	130815	RED-3129	Order field for column display now sorts correctly.

Common	130815	RED-3134	Use defined view reset noe includes by default the create part of the DDL.
Common	130815	RED-3175	Corrected Tools / Options to allow clearance of DSS_Source_System and DSS_Fact_Table settings.
Common	130815	RED-3182	Corrected for lost focus on next / prev for column properties when altering (clearing) Source.
Common	130815	RED-3193	Group and Ungroup context menu options now available for OLAP Objects.
Common	130815	RED-626	Load statement override field is now trimmed on input to avoid false identification of requirement.
Common	130815	RED-579	Export Objects now have File Attributes context menu option.
Common	130815	RED-1627	Have made object sub type naming consistent.
Common	130815	RED-1765	With change to property grid for many options, the issue with lack of highlight of focus field has been remedied.
Oracle	130815	RED-1943	Display Data from Object Pane now handles display of Oracle Timestamp datatypes.
Common	130815	RED-2942	Tabs now have individual close [x] buttons.
Oracle, DB2, SQLServer	130815	RED-3012	View Objects can now be replicated to other DB / Schema.
Common	130815	RED-3147	Extended case support conversion for column properties to include an option of Title_Case and also added the option to the business display name property.
Common	130815	RED-3159	Context menu for statistics gathering DDL completed for all DB types.
Netezza	130815	RED-3174	Option to choose columns for the "Auto-add Unmatched Business Keys" was missing valid columns to choose from in some situations.
SQLServer	130815	RED-3184	Corrected loss of Insert Hint for procedure generation.
Common	130815	RED-3192	Corrected list of columns presented in date selection dialog for history tracked joins.
Common	131011	RED-3300	Corrected Issue with quotes becoming duplicated within long Where Clause for procedure generation
Common	131011	RED-3272	Corrected issue with Load Table post procedures becoming disassociated from the table object. Corrected erroneous error message regarding target object for load table post procedures.

Common	131011	RED-3270	Application loading now has an option to choose file encoding when generating DDL and proc files.
Common	131011	RED-3237	Function Set Item Maintenance dialog now provide Next / Previous buttons.
Common	131011	RED-3233	Maximum length of SSIS load select statement has been extended.
Common	131011	RED-3230	Selecting folder for Deployment application now allows create of a new folder.
Teradata	131011	RED-3227	TPT ODBC Loads now include Stream TPT as an option.
Oracle	131011	RED-3222	Corrected issue with Documentation of Jobs on Oracle Repository sometimes throwing an Open Cursor.
Common	131011	RED-3218	Corrected issue with version of Data Store Objects when also select to version procedures.
Greenplum	131011	RED-3211	Function Sets added for GREENPLUM.
Common	131011	RED-3195	SSH details now retained when adding a new connection.
Teradata	131011	RED-3003	Teradata procedures for most objects now include additional option / method for change identification.
Teradata, Oracle DB2, SQL Server	131011	RED-3256	Corrected issue with rename of table not working.
Oracle, DB2, SQL Server	131011	RED-3255	Multi pass pre-delete re-enabled when appropriate.
Common	131011	RED-3254	Validate / Alter of database objects now provides feedback confirmation of success / failure.
Common	131011	RED-3253	Corrected issue with defining a new object where source object naming has a suffix.
Not fully assessed	131011	RED-3252	Corrected introduced bug where changed to the file header setting were not being saved.
Common	131011	RED-3251	Add column now saves compression string.
Common	131011	RED-3247	OLAP and Index Objects now have "Create via Scheduler" context menu options.
Common	131011	RED-3246	File load default object name now honors case options. File load naming now also strips from last. (e.g. to remove .txt).
Teradata	131011	RED-3239	TPT File loads now have configurable setting for Min and Max Sessions.

SQL Server	131011	RED-3204	Issue with Documentation generation failure resolved.
Oracle, Teradata	131011	RED-3141	Changes have been implemented for the Unix / Linux work file cleanup scripts to use environment specified variables for all directories.
Teradata	131011	RED-3023	WhereScape now support column transformations in TPT Update loads.
Teradata	131011	RED-2813	Teradata windows script execution in scheduler now loads audit and detail logs correctly.
Common	131129	RED-3370	Corrected text input limits for Bulk Column Change Dialog.
Common	131129	RED-3369	New context menu to enable the copying of columns from one table to another, replicating the drag / drop functionality.
Teradata	131129	RED-3358	When defining a new Dimension on Teradata, the prompt for slowly changing type is now provided.
Common	131129	RED-3350	Options dialog now has buttons to navigate between option groups.
Common	131129	RED-3347	Corrected issue with application loads, where if any change was unsupported (e.g. move to file group on SQLServer) then no changes for a given object were applied.
Common	131129	RED-3342	Change Columns option now disabled if object is checked out by other user.
Common	131129	RED-3340	Double-click from browser to add column to existing column list now adds to location of last active column or end of list, and ensures column display has the column visible.
Common	131129	RED-3339	Improved load performance of object tree refresh.
Common	131129	RED-3336	Load Table Column validation for reserved words usage enabled for supported ODBC Drivers.
DB2	131129	RED-3332	Corrected identification of DB2 Alias for CLI calls in Native Loads.
SQLServer	131129	RED-3331	Extended width visible in bulk change column dialog.
Common	131129	RED-3329	Corrected Index context menu option for create via Scheduler.
Common	131129	RED-3327	Corrected handling of Apostrophes within Table / Column comments.
Teradata	131129	RED-3307	TPT loads now support the setting of memory size.
Teradata	131129	RED-3306	TPT loads now support the setting of producer and consumer instances.

Common	131129	RED-3225	New menu option (in Edit Menu) available to output "middle pane" data to either clipboard or file.
SQLServer	131129	RED-3354	No longer force conversion of user / pwd to UPPER when defining SQLServer Linked Server Login detail for Linked Server definition.
Common	131129	RED-2700	Corrected handling of Join type for when create object from version.
Teradata	131129	RED-3259	Can now set "TPT Script" load as default load method for Teradata ODBC loads on the connection definition.
Teradata	131129	RED-3335	Corrected check for file names in Teradata file load scripts.
Common	131129	RED-3334	Corrected issue with blank dimension being shown in diagrams when dimension not available in selected project being documented.
Common	131129	RED-2567	Improved user guide callable procedures section.
Common	131129	RED-3288	Corrected issue with display of error and empty box when producing some tracking diagrams.
Common	131129	RED-3323	Application loads no longer perform a row-count for view objects being altered.
Common	131129	RED-3189	Removed erroneous message for Project Object maintenance dialog regarding maximum objects.
Common	131129	RED-3280	Corrected diagram printing issues.
Common	131129	RED-3303	Now possible to map unassigned filegroups during SQLServer application deploy.
Common	131220	RED-3420	Corrected project object list in beta.
Common	131220	RED-3415	Corrected save of preference setting for output to clipboard.
Common	131220	RED-3413	Corrected issue with some scenarios of documentation resulting in freeze of process.

DETAILED LIST OF CHANGES - RED 6.7.1.2

Changes since 6.7.1.1

Database	Build	Issue Num	Description
Common	131011	RED-3300	Corrected Issue with quotes becoming duplicated within long Where Clause for procedure generation
Common	131011	RED-3272	Corrected issue with Load Table post procedures becoming disassociated from the table object. Corrected erroneous error message regarding target object for load table post procedures.
Common	131011	RED-3270	Application loading now has an option to choose file encoding when generating DDL and proc files.
Common	131011	RED-3237	Function Set Item Maintenance dialog now provide Next/Previous buttons.
Common	131011	RED-3233	Maximum length of SSIS load select statement has been extended.
Common	131011	RED-3230	Selecting folder for Deployment application now allows create of a new folder.
Teradata	131011	RED-3227	TPT ODBC Loads now include Stream TPT as an option.
Oracle	131011	RED-3222	Corrected issue with Documentation of Jobs on Oracle Repository sometimes throwing an Open Cursor.
Common	131011	RED-3218	Corrected issue with version of Data Store Objects when also select to version procedures.
Greenplum	131011	RED-3211	Function Sets added for GREENPLUM.
Common	131011	RED-3195	SSH details now retained when adding a new connection.
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Teradata, Oracle DB2, SQL Server	131011	RED-3256	Corrected issue with rename of table not working.
Oracle, DB2, SQL Server	131011	RED-3255	Multi pass pre-delete re-enabled when appropriate.

Common	131011	RED-3254	Validate/ Alter of database objects now provides feedback confirmation of success/failure.
Common	131011	RED-3253	Corrected issue with defining a new object where source object naming has a suffix.
Not fully assessed	131011	RED-3252	Corrected introduced bug where changed to the file header setting were not being saved.
Common	131011	RED-3251	Add column now saves compression string.
Common	131011	RED-3247	OLAP and Index Objects now have "Create via Scheduler" context menu options.
Common	131011	RED-3246	File load default object name now honors case options. File load naming now also strips from last. (e.g. to remove .txt).
Teradata	131011	RED-3239	TPT File loads now have configurable setting for Min and Max Sessions.
SQL Server	131011	RED-3204	Issue with Documentation generation failure resolved.
Oracle, Teradata	131011	RED-3141	Changes have been implemented for the Unix/Linux work file cleanup scripts to use environment specified variables for all directories.
Teradata	131011	RED-3023	WhereScape now support column transformations in TPT Update loads.
Teradata	131011	RED-2813	Teradata windows script execution in scheduler now loads audit and detail logs correctly.

DETAILED LIST OF CHANGES - RED 6.7.1.1

Changes since 6.7.1

Database	Build	Issue Num	Description
Oracle, DB2, SQLServer	130815	RED-3012	View Objects can now be replicated to other DB/Schema.
Common	130815	RED-3110	Create wizard and store full cube connect string.
Common	130815	RED-3157	Corrected issue with missing File Attributes tab for script based windows loads.
Teradata	130815	RED-3160	Corrected Teradata merge code for Norm/ODS/Dim/Fact change detection logic.
Common	130815	RED-3163	Corrected issue with property grids making check-boxes disabled on new installs.
Teradata	130815	RED-3185	Corrected restore from version for teradata procedure cancel.
Oracle, SQLServer	130815	RED-3187	Corrected issue with History code via Merge not supporting altered Ancillary Column naming.
Common	130815	RED-2583	Additional options for case conversion for SSIS load tables.
SQLServer	130815	RED-3131	Now use Alter View syntax when creating/recreating views on SQL Server.
Common	130815	RED-3156	New Context Menu option to Truncate tables. Revision of Preferences dialog.
Common	130815	RED-3171	New options included for DDL file definition in Application Deploy.
Common	130815	RED-3177	Connection properties now expose ability to provide the full connection string for OLAP sources.
Common	130815	RED-3183	Duplicate of objects now also copies/replicates the project/group mappings.

Common	130815	RED-3194	Connections now have a context menu to report on load and export objects associated with the selected connection.
Common	130815	RED-3129	Order field for column display now sorts correctly.
Common	130815	RED-3134	Use defined view reset now includes by default the create part of the DDL.
Common	130815	RED-3175	Corrected Tools/Options to allow clearance of DSS_Source_System and DSS_Fact_Table settings.
Common	130815	RED-3182	Corrected for lost focus on next/prev for column properties when altering (clearing) Source.
Common	130815	RED-3193	Group and Ungroup context menu options now available for OLAP Objects.
Common	130815	RED-626	Load statement override field is now trimmed on input to avoid false identification of requirement.
Common	130815	RED-579	Export Objects now have File Attributes context menu option.
Common	130815	RED-1627	Have made object sub type naming consistent.
Common	130815	RED-1765	With change to property grid for many options, the issue with lack of highlight of focus field has been remedied.
Oracle	130815	RED-1943	Display Data from Object Pane now handles display of Oracle Timestamp datatypes.
Common	130815	RED-2942	Tabs now have individual close [x] buttons.
Oracle, DB2, SQLServer	130815	RED-3012	View Objects can now be replicated to other DB/Schema.
Common	130815	RED-3147	Extended case support conversion for column properties to include an option of Title_Case and also added the option to the business display name property.
Common	130815	RED-3159	Context menu for statistics gathering DDL completed for all DB types.
Netezza	130815	RED-3174	Option to choose columns for the "Auto-add Unmatched Business Keys" was missing valid columns to choose from in some situations.
SQLServer	130815	RED-3184	Corrected loss of Insert Hint for procedure generation.
Common	130815	RED-3192	Corrected list of columns presented in date selection dialog for history tracked joins.

DETAILED LIST OF CHANGES - RED 6.7.1

Changes since 6.6.3

Database	Build	Key	Description
Teradata	130628	RED-3144	Corrected Links to Data Type Mapping and Data Base Function Sets for Teradata online help.
Common	130628	RED-3143	Corrected handling of multiline Where Clause on export script generation.
DB2	130628	RED-3140	WhereScape now certify WhereScape RED 6.7.1 for use against DB2 10.5
Teradata	130628	RED-2981	A UNIX scheduler is now provided for Teradata.
Oracle	130607	RED-3103	Corrected beta issue with creation of Oracle indexes spanning > 5 partitions.
Oracle, Greenplum , Netezza	130607	RED-3104	Corrected beta issue with generation of a sequence for view objects with surrogate sourced columns.
Common	130607	RED-2899	Bulk retrofit dialog now has option to alter the user / pwd for the connection being used.
Common	130607	RED-2419	Bulk retrofit now enables override of source user / password. Bulk retrofit now enables selection of Data Type Mapping set for where ODBC will be used to provide source column information.
Common	130607	RED-3105	Corrected label for Procedure generation insert option in tools / options.
Teradata	130607	RED-3117	Corrected issue with Teradata scheduler not referencing objects correctly in earlier beta.
Netezza	130607	RED-3106	Truncate now supported within Netezza Stored Procedures.
Common	130607	RED-2216	SSIS connection editing now uses Microsoft standard dialog to build the connection string if nothing currently set.
Common	130607	RED-3111	Connection Properties has been redesigned as a Property Grid to facilitate future extensions.

Common	130607	RED-3113	When moving from column to column using next / prev buttons, the last active property is remembered and set.
SQL Server	130607	RED-3114	Corrected result message when Merge with Initial Insert options chosen.
Teradata, SQL Server	130607	RED-3112	Merge option now included in tools / options for default procedure build.
Common	130607	RED-3115	Corrected some limits in new source mapping property grid.
Common	130607	RED-3124	Corrected beta issue with incorrect dialog options for dimension view getkey function build.
Common	130607	RED-3121	Regen / rebuild of indexes from context menu, or as step in procedure build now only rebuilds new / redefined indexes.
Common	130607	RED-3123	Drag / Drop of columns now retains drop position in the visible columns.
Teradata	130517	RED-1576	Multi retrofit for Teradata now correctly handles non named indexes.
Oracle	130517	RED-3070	Corrected introduced issue with oracle table renames.
Common	130517	RED-3061	Increased limit on Native ODBC query statement length.
Common	130517	RED-3067	Corrected introduced issue with available columns for drill through actions.
Common	130517	RED-2782	Corrected order of updates for History tables. Now expires required rows before applying any updates to existing rows.
Netezza	130517	RED-3059	Object retrofit now retrofits Netezza Distribution and Organization details.
Netezza	130517	RED-3038	Netezza data type mappings and function sets now included.
Netezza	130517	RED-3017	Netezza procedures now support across DB processing. Existing procedures will require rebuilt of FROM clause to use new [TABLEOWNER].[tablename] referencing for all objects.
Teradata	130517	RED-2619	Multi retrofit of Teradata objects now correctly retrofits NOPI tables.
Teradata	130517	RED-2620	Multi retrofit of Teradata objects now correctly retrofits NOPI tables.
Teradata	130517	RED-1875	Teradata table retrofit now correctly sets any column default value and its format attribute.

Common	130517	RED-3063	Batch application deploy xml files now have the correct default versioning settings and the Teradata file now contains Normal, ODS and Fact objects.
Teradata	130517	RED-2924	WhereScape now certify WhereScape RED 6.7.1 for use against Teradata 14.10.
Teradata	130517	RED-2921	Corrected setting of export object database during application deployment.
Common	130517	RED-3000	The setup administrator version number is now included in the log file when being generated.
Common	130517	RED-2897	WhereScape REDis now certified for use on Windows 8 and Windows 2012 Server.
Teradata	130517	RED-2956	WhereScape now certify WhereScape RED 6.6.3 for use against Teradata using TTU 14.10
Oracle	130517	RED-3015	Selected object types on Oracle now support Merge syntax for update.
Teradata	130517	RED-2621	Corrected issue with trailing spaces on column names on retro indexes.
Common	130517	RED-3051	Documentation Glossary is now correctly showing cube dimension's "Published Name" instead of "Internal Attribute Name"
Common	130517	RED-3053	Corrected issue with changing to history (slowly changing) and choosing the recreate option with recompile / regenerate options.
Oracle, SQLServer	130517	RED-2530	Dimension procedure mode now defaults to Set based for Oracle and SQLServer.
Netezza	130517	RED-3025	Netezza set based processing now supports auto add of missing lookups table surrogate key entries. Note that this is not supportable for Netezza views at present, and also is only supported where lookup table exists in same database as the table being processed.
Not fully assessed	130517	RED-3060	Corrected issues with inconsistent object name length limitations.
Oracle	130517	RED-2994	Corrected set based update to handle surrogate key insertion when use distinct option.
Common	130517	RED-3077	Tools / Preferences now has an option for setting of the True / False text for boolean settings in various property dialogs.
Teradata	130517	RED-3078	Number datatype now correctly handled for column validate on Teradata.

Common	130517	RED-3086	Corrected setting of Cube source connection during drag / drop create of olap objects.
Teradata	130517	RED-3079	Added alias to Merge statement for Teradata.
Common	130517	RED-3080	No longer present "no active indexes" message during procedure recompile.
Teradata	130517	RED-3083	Column compression value now included during retrofit for Teradata.
Netezza	130517	RED-3082	Netezza now supports update of all fields during Auto Add for late arriving data.
Greenplum , Netezza	130517	RED-3075	Corrected code generation issue on Netezza for initial insert with distinct option where have surrogate keys.
Teradata	130517	RED-3081	An attempt is now made during bulk retrofit of Teradata tables to parse the partitioning clause.
Teradata	130517	RED-3094	Improvements to handling of default values and compression string during Teradata table retrofit.
Common	130517	RED-3093	Load Table Source Mapping dialog is now a property grid style dialog, enabling extension of options presented in future releases.
Common	130403	RED-1004	Exports now correctly handle \$P parameters substitution for file name and directory.
Oracle	130403	RED-2748	Corrected labels for Meta Restore to Oracle.
Oracle	130403	RED-2751	Corrected set based dimension code for Ranged Dimensions on Oracle where was assuming version column present.
Common	130403	RED-2459	General tidy-up of Dialog and List names in object properties to make clearer and consistent.
Common	130403	RED-2807	Improvements to options / preferences property pages.
Common	130403	RED-2826	Number of rows displayed for display of data is now configurable via tools / preferences.
SQLServer	130403	RED-2853	Improved message for validation of SQLServer partition naming.
Oracle, DB2, SQLServer	130403	RED-2904	Corrected step numbering of stage update procedures to ensure uniqueness.
Teradata	130403	RED-2905	Removed clear text passwords from Teradata load scripts.
Teradata	130403	RED-2850	Unix file based loads to Teradata are now supported.

Common	130403	RED-2911	Tables with no procedures report extended to include Data Store and Normalized objects.
Oracle, DB2, SQLServer	130403	RED-2913	Corrected issue with running of unix scripts on Oracle via RED.
Common	130403	RED-2916	OLAP dimensions now have an optional post create XML / A script associated where custom code can be applied during a create/re-create of the dimension on Analysis Services.
Common	130403	RED-2695	New option added to context menus to create a duplicate copy of a meta object.
Common	130403	RED-2635	Enabled setting to auto add of artificial/surrogate key when drag/drop to create new ds / normal object.
Teradata	130403	RED-2341	Changes made for Data Join Trackback diagrams in Teradata to ensure consistency.
Common	130403	RED-2919	\$P Parameter substitutions now available when running OLAP post Create/Update XML / A Scripts.
Common	130403	RED-2920	Corrections to View Object Context menu in drop target pane.
Common	130403	RED-2914	Corrected issue in documentation generation with in excess of 500 objects impacted by any single object.
Teradata	130403	RED-2927	Removed superfluous checks occurring when executing stored procedures.
Teradata	130403	RED-2937	Null support now enabled for Teradata set based update code.
Common	130403	RED-2958	Added option to bulk change EUL flag settings for an objects columns as applicable.
Common	130403	RED-2957	Converting retrofit definitions to the new object type now correctly defaults the object sub types.
Common	130403	RED-2955	Enabled Ctrl-S (save) and Ctrl-P (print) for procedure and script editors
Common	130403	RED-2953	Pre Delete options for code generation now correctly provide column list when source table is a view object.
Common	130403	RED-2959	Default font for code editing is now Courier New.
Common	130403	RED-1195	Changes to application deployment to support change of object type.
Teradata	130403	RED-2900	Generated code for batch processing on Teradata now correctly prefixes source object with database.
Common	130403	RED-2906	Object limit for repository compare report extended.

Common	130403	RED-1786	New option to create a deployment application from either a Job definition or diagram view.
Teradata	130403	RED-2676	Merge update options now enabled for Teradata set based update code generation.
Teradata	130403	RED-2954	Corrected Group By code placement in generated code.
Common	130403	RED-2832	Character set specification is now enabled for Teradata column definitions
Teradata	130403	RED-2764	Linux scripts can now be generated for TPT ODBC loads.
SQLServer	130403	RED-2925	SQLServer timestamp and rowversion data type now handled better in mapping sets.
Oracle	130403	RED-2976	Corrected import for OLAP, Data Store and Normalized objects where meta repository schema/database differ between target and source.
Teradata	130403	RED-2986	No longer produce audit message duplicate of task status message on scheduled tasks.
Common	130403	RED-2985	Column properties screen now retains any moved location within a session.
Common	130403	RED-2964	Applications now have the option of including all objects in the delete request. This provides the ability to bulk delete objects from a repository.
Common	130403	RED-2993	Native ODBC Loads now have option available to write extract detail (row_count) parameter for each load table. No longer write parameter for Teradata standard ODBC loads.
Teradata	130403	RED-2995	Corrected possible issue with multiple job delete not closing connections.
Common	130403	RED-2977	Corrected issue with loss of job dependencies during application loads that have jobs being updated/overridden.
Common	130403	RED-2961	Messages from application load altered to improve quality when export to csv.
Teradata	130403	RED-2943	Teradata scheduler procedures modified to not set default values for declared variables due to Teradata issue with converting each to a select statement.
Common	130403	RED-2941	Updated generated documentation for Netezza target database support.
Common	130403	RED-2415	List of functions in the column transformation dialog can be edited by the user. Additional sets can be loaded and export.

SQLServer	130403	RED-2974	Column Store indexes now correctly built via Application Deployment.
Common	130403	RED-2750	New look Storage Tab
Teradata	130403	RED-2960	Corrected help links of Table and Column properties for Teradata.
Common	130403	RED-2971	No longer receive an error message when have a group selected and choose file/new menu option.
Teradata	130403	RED-2949	Corrected issues with Teradata Linux Scheduler Job Check process. Requires update of scheduler scripts on Linux.
Teradata	130403	RED-2947	Corrected issue with Teradata Job Check for Linux based scheduler.
Common	130403	RED-3024	New SQL log file included for Native Load (unicode) extracts
Teradata	130403	RED-2988	New Statistics collection definition enabled for Teradata Tables.
Teradata	130403	RED-3035	Application ddl options now available in Teradata for ODS, Normal, Fact
SQLServer	130403	RED-1682	Merge options now available for selected object type updates.
Common	130403	RED-3037	Corrected issue with Native loads potentially truncating the source column name when generating the extract definition.
Common	130403	RED-3036	Copy columns now copies all column applicable attributes.
Teradata	130403	RED-2983	Teradata now correctly reports if fails attempt to create an object due to that object already existing.
Teradata	130403	RED-2982	Teradata windows scheduler now capable of creating and dropping views.
Common	130403	RED-2980	Clear text passwords no longer appear in the repository compare report.
Common	130403	RED-2835	Changes to the bulk column change functionality to update transformations when alter a source table.
Common	130403	RED-2712	Creation of a view from a load object now works correctly.
Common	130403	RED-2578	New option to create / update a project from diagram view.
Common	130403	RED-3045	Changes to table column validation now handle data types such as datetime2(0) on SQLServer
Common	130403	RED-3050	Column properties screens have been reconfigured to improve ease of use and consistency,

Common	130403	RED-3008	When defining the join source for a join lookup during procedure generation, there is now a drop-list populated with all possible source table / columns to select.
Teradata	130403	RED-3052	New Improved Data Type mappings for Oracle and SQL Server to Teradata.

DETAILED LIST OF CHANGES - RED 6.6.3

Changes since 6.6.2

Database	Build	Key	Description
Common	121012	RED-2863	Corrected help link on Connection Properties.
Teradata	121012	RED-2885	Corrected issue with ordering by sequence rather than completion date for job log archiving, and status checks from ws_job_status API.
SQLServer	121012	RED-2865	Corrected handling of zero-key row for columns defined as varchar(max).
Teradata	121012	RED-2763	Single column file loading enabled for Teradata.
Common	121012	RED-2873	Corrected issue with validating load source table from SQLServer in other than dbo schema.
Common	121012	RED-2883	New installations now default to using the newer look diagrams.
Common	121012	RED-2860	Load source validation now for all ODBC / Database connections rather than specific to type of load.
Common	120912	RED-2831	Correct issue where file actions for native loads were not appearing in load table properties.
Common	120912	RED-2296	Diagram selection dialog now presented on first entry to diagram viewer.
Common	120912	RED-2670	Impact and Track back diagrams now include OLAP objects.
Common	120912	RED-2596	Improved reporting of Group-by detail in generated documentation.
Teradata	120912	RED-2833	Improved reporting of row counts for TPT based ODBC loads.
Common	120912	RED-1740	New column context menu option added that enables bulk change to selected attributes including source table, data type, nulls etc.
Teradata	120912	RED-2644	Now include pre-delete information in the generated documentation for Permanent Stage and Model Tables on Teradata.

Common	120912	RED-2824	Prompt to warn of large source row counts when performing create / load of a newly defined load object has been removed.
SQLServer	120912	RED-2830	Resolved possible issue for most recent SQLServer ODBC drivers and the Windows Scheduler.
Common	120912	RED-1088	Significant changes have been implemented for the selection of diagrams to display.
Teradata	120912	RED-2767	TPT Script loads now report the number of rows processed. A new option is also supported to force a failure if not all rows loaded.
Common	120813	RED-2800	Changes to Unix / Linux browsing/execution from RED UI to eliminate risk of a crash.
Common	120813	RED-2805	Corrected issue with load type being changed from external to database link load via deployment applications.
Teradata	120813	RED-2795	Corrected call to WsWrkTask in newer set based code generation Teradata.
SQLServer	120813	RED-2593	SSIS loads now return the number of rows loaded.
Teradata	120813	RED-2785	Teradata jobs from context menus now default to a Unix Preferred Scheduler.
Teradata	120813	RED-2788	Corrected issue with Teradata file load attributes being applied in generated Linux scripts.
Teradata	120813	RED-2787	Include escaping from certain delimiters in the generated scripts for TPT loads.
Oracle,SQL Server	120813	RED-2754	Corrected placement of insertion of Zero Key row relative to any predelete code in generated procedures.
Teradata	120813	RED-2796	Corrected issues with version to disk set for Data Store and Normalized objects on Teradata.
SQLServer	120813	RED-2784	Corrected auto setting of options when regenerate indexes.
Common	120813	RED-2176	Display folders enabled for OLAP Calculated Members and Sets.
Common	120813	RED-2793	Login validation of Repository DSN is now case-insensitive.
Common	120813	RED-2638	Corrected action for clearing of group/project lists in diagram selector.
Teradata, Oracle,DB2 ,SQLServer	120813	RED-2798	Indexes on Data Store and Normalized History tables now also include a unique 'SC' index.

Teradata, Oracle	120813	RED-2794	Updated Scheduler user grants scripts to include Execute rights on Ws_Job_Status (Oracle and Teradata). Updated Scheduler user grants scripts to include Execute rights on WsWrkAudit (Teradata).
Common	120813	RED-2806	Now possible to multi select from the Object Checkout report to perform check-in or add to project.
Common	120813	RED-2810	OLAP Calculated measures now retain the entered format when not in default list.
Common	120813	RED-2809	Corrected possible issue with documentation of complex jobs.
Teradata, Oracle	120813	RED-2777	Teradata and Oracle now have load context menu and resulting report to validate column names against the Database reserved words.
Teradata	120813	RED-2791	Prevent Unix Script crash via run/retain then logout within script results in crash
Teradata	120813	RED-2775	Generated TPT file loads now protect the column names so as to avoid clash issues with TPT reserved words.
Teradata	120813	RED-2759	Renaming of files and triggers is now working for Unix scripts, as is the compress option.
Teradata	120813	RED-2742	TPT ODBC Load Attributes now included in generated technical documentation.
Teradata	120813	RED-2757	Generated Teradata scripts that make BTEQ calls now include .exit. Any existing scripts will require regeneration to include this functionality.
SQLServer	120813	RED-2390	Corrected handling of converting Set based to Cursor for Dimensions.
Teradata	120813	RED-2802	Changes to BTEQ calls of Linux scheduler to ensure have exit.
Common	120813	RED-2095	Windows script load rename now work if spaces in file name.
Common	120813	RED-2683	Corrected issue with SSIS not handling tables or columns with \$P in their names.
Common	120813	RED-2684	Changes to remove logging issues where certain characters (eg %) could cause 'parameter violation' errors.

DETAILED LIST OF CHANGES - RED 6.6.2

Changes since 6.6.1

Database	Build	Key	Description
SQLServer	120703	RED-2716	SQL Server Permissions section added to the ADM User Guide.
Common	120703	RED-2746	Corrected multi job delete execution to prevent error in copy of audit messages to archive.
Oracle	120703	RED-2772	Object import corrected to use the source meta schema to look up related meta objects.
SQLServer, DB2, Oracle	120703	RED-2779	Corrected chapter numbering in the RED User Guide.
SQLServer	120703	RED-2744	Application pre and post sql fixes to allow call of stored procedures.
Teradata	120703	RED-2729	Updated minimum Teradata Version in ADM User Guide.
Oracle	120703	RED-2770	Corrected issue with invalid source table appearing in set based table joins dialog.
Common	120703	RED-2773	Defining a new procedure block now saves the selected default connection.
Common	120703	RED-2745	No longer protecting single quotes (') in application deployment pre and post sql blocks.
Teradata	120703	RED-2747	Updated privilege settings for Teradata in User Guide.
Common	120703	RED-2774	UNIX sample data now does a head rather than returning the whole file. When the SSH window is closed the background reading thread is now also closed. The option to stop waiting for the UNIX sample data now is more informative and now returns the available data and optionally closes the SSH connection.
Common	120703	RED-2706	Additional command line options added for Administrator operations.
Teradata	120703	RED-2741	Enabled ODBC Attributes for TPT ODBC Loads.

Teradata	120703	RED-2723	Corrected SET / MULTISSET definitions in the Teradata RED User Guide.
Oracle	120703	RED-2780	Added User Guide section for Help on Oracle Scheduler Statistics.
Teradata	120612	RED-1915	Beta Support of Linux Script generation for File loads.
Common	120612	RED-2692	Scheduler view now has new menu option to reset the display headings back to default.
Teradata	120612	RED-2513	Teradata file loads now provide an option to specify the character set of the file being loaded.
Common	120612	RED-2717	Included checking that jobs being loaded via an application are not in a Run or Failed state.
Teradata	120612	RED-2617	Corrected display sort order of tasks for a job in a running / failed state on Teradata.
Teradata	120612	RED-2722	Corrected SQL generated on Teradata to perform Multi Job Delete.
DB2	120612	RED-2680	Corrected DB2 code generation issue for minimal logging stage table with type 2 dimensions.
SQLServer, Oracle, Teradata	120612	RED-2682	Corrected test for a zero key in set based code.
Common	120612	RED-2604	View objects where clauses now appear in the generated documentation.
SQLServer	120612	RED-2701	Corrected the 'Initial User Name' for OEM QuickStarts.
Common	120612	RED-2687	Maximum number of steps that can be presented in tracking diagram has been increased.
SQLServer, Oracle, Teradata	120612	RED-2673	Corrected native loads to work beyond 300 columns.
Common	120612	RED-2713	Drop-down list for default loader selection on Connection Properties has been increased.
Teradata	120612	RED-2714	Corrected false enablement of multi pass pre-delete option within Teradata stored procedures.
Common	120612	RED-2715	Application loads now test for an index existence before attempting a drop.
SQLServer	120612	RED-2650	Included ColumnStore details in the generated documentation. Also now in repository compare reporting.

Teradata	120612	RED-2725	Character set selection for Teradata loaders now included in generated documentation.
SQLServer	120612	RED-2704	Corrected installation of a scheduler as part of an OEM Quick Application Process.
Common	120612	RED-2705	When installing RED using msiexec from the command line, the destination can be set using the APPDIR property.

DETAILED LIST OF CHANGES - RED 6.6.1

Changes since 6.5.6

Database	Build	Key	Description
Teradata	120321	RED-2460	TPT File loads now correctly use the "Loader Options" available on the file attributes tab. Load Attributes enabled for TPT ODBC loads.
Common	120321	RED-2443	Changes made to the license entry via the Setup Administrator.
Common	120321	RED-2194	Application loads will now allow columns to be dropped in user tables if enabled in the options dialog.
Common	120321	RED-2645	New option for set based code build to elect to include the zerokey (unknown record) for tables with an artificial key.
Teradata	120321	RED-2490	Enabled full Star Schema support on Teradata Repositories.
SQLServer, DB2, Oracle	120321	RED-2097	The OLAP Cube Wizard now better handles creating cubes from views by using the source of the view for joins and translations.
Common	120321	RED-2640	Corrected entries not being saved on source mapping for load table if navigate to another tab before selecting OK.
Teradata	120321	RED-2374	Enabled view objects to be used like dimension views to allow join during staging.
SQLServer	120321	RED-2378	Enabled option to run SQL2012 Integration Services Loads.
Teradata	120321	RED-2489	Data Store and Normalized Objects have been enabled for Teradata.
SQLServer	120321	RED-2511	WhereScape now certify WhereScape RED for use against SQL2012.
Teradata	120321	RED-2568	Improved detection of Multiset tables for validate purposes.
Oracle	120321	RED-2610	Corrected setting of dblink for load source of dbloads via application deployment.

Common	120321	RED-2569	Improvements to XML namespace identification during create of new load from XML. XML loads definition now also handling BOM.
Teradata	120321	RED-2088	Enabled \$P Parameter substitution for File Name and Directory for Teradata file based loads.
Common	120321	RED-2634	Enabled Staging to perform surrogate key lookup from objects other than just dimensions.
SQLServer	120321	RED-2566	Corrected handling of Exports when work or file name contains spaces
DB2, Oracle, Teradata	120321	RED-2573	Corrected setting of UNIX user / password in Change Connection screen for source browser.
SQLServer, DB2, Oracle	120321	RED-1003	New index added to procedure and script metadata.
SQLServer, DB2, Oracle	120321	RED-1782	New index added to procedure and script metadata.
Common	120321	RED-2254	Improved flexibility and fixed functionality around updating OLAP dimensions with an OLAP cube.
Common	120321	RED-2429	The "Applications to load" list in Setup Administrator can now be sorted on any column.
Teradata	120321	RED-2613	Corrected Tools / compare to compiled source option in procedure editor.
Common	120321	RED-2560	Fixed truncation of host script notes in generated documentation.
Teradata	120321	RED-2565	Corrected SQL for Audit Log Query when use dates filter on Teradata.
Teradata	120321	RED-2605	Corrected message type on Teradata when attempt to kill a scheduler process.
SQLServer	120321	RED-2647	Remove Global / Local index option for SQLServer indexes as not used on SQLServer.
Teradata	120321	RED-824	Index compare to meta data has been introduced for Teradata Repositories.
Teradata	120321	RED-1923	Fix for setting OLAP measure group dimension relationship type consistently in all cases.
Common	120321	RED-1657	Generated End User Documentation now recognizes group setting to exclude from documentation.

DB2	120321	RED-2563	Repository Compare no longer reports on Schema differences between DB2 metadata repositories.
Common	120321	RED-2632	Corrected issues with column properties immediately after adding new or deletion of an object that has its columns listed.
Common	120321	RED-2533	The html documentation glossary now contains the display names and description for Facts,Dimensions,Normal columns,Cube measures,OLAP cube measures,KPI's, calculations and OLAP dimension attributes, when marked as End User Layer, with a subset for Projects and Groups.
Common	120321	RED-1859	Enabled drag and drop ordering of OLAP objects which support re-ordering in SSAS.
Common	120321	RED-2276	Made sort order in OLAP displays consistent with that in SSAS.
Common	120321	RED-2277	Fixed updating of details in display pane after editing OLAP hierarchies.
Common	120321	RED-2066	Fix to use consistent drill through action column naming as used in SSAS.
Teradata	120321	RED-2526	Removed redundant FILE SCHEMA section for generated TPT ODBC load script.
Common	120321	RED-2440	Fixed help button on add measures in OLAP cube wizard.
Common	120321	RED-1854	Fix to only show valid OLAP dimensions for OLAP drill through actions.
Teradata	120321	RED-2571	Change of TDPID (Database ID) on DW connection is now applied immediately rather than having to log off / on.
SQLServer	120321	RED-2575	ColumnStore indexes now available for SQL2012 repositories.
SQLServer	120321	RED-2157	Removed invalid deallocate of cursor in set based update of dimension code.
SQLServer, DB2, Oracle	120321	RED-2471	Corrected saving of artificial flag for Data Store and Normal objects when using copy column functionality.
Oracle	120321	RED-2145	Improved performance of code generated to expire history records.
Common	120321	RED-2266	OLAP Measures now exclusively use source table set on their parent measure group.

DETAILED LIST OF CHANGES - RED 6.5.6

Changes since 6.5.5

Database	Build	Key	Description
SQLServer, Oracle	120119	RED-2553	Converting Fact to Partitioned Fact was generating a customer procedure when not required.
Teradata	120119	RED-2543	Change usage of LENGTH function to use CHARACTER_LENGTH function for Teradata where applicable.
Common	120119	RED-2552	WhereScape now requires a valid license to be entered.
Common	120119	RED-2550	Ensured consistency in naming restrictions for Groups / Project Add / Rename. Re-enabled usage of -in Project and Group Naming.
Common	120119	RED-2548	Corrected issue of SSIS loads failing if > 4003 character select statement containing \$P parameters.
Common	120119	RED-2546	Enable manual restart of Blocked and Pending Jobs.
DB2	120119	RED-2547	Corrected issue with Dimension object create via scheduler failures due to not specifying owner when setting certain alter attributes.
Common	120119	RED-2545	Corrected icons on Job Dependency diagrams.
Common	120119	RED-2541	Added Task Jobs report to the object context menus. Added Views report to object context menu for Teradata Model and Dimension objects.
Teradata	111221	RED-1514	Number of changes made to allow for recent allowance of NO PRIMARY INDEX on Teradata Multi Set tables. Change to make Primary Index driven by definition of Index Objects rather than column properties.
Common	111221	RED-2261	Group, Project and All Objects options have been added to the batch application create options, along with options to not include Connections, Jobs and / or Parameters.
Teradata	111221	RED-1091	Warning now provided if attempt to drop the Primary Index.
DB2	111221	RED-2523	Corrected issue with context menu on DB2

Common	111221	RED-2524	Ensure context menu available to add a new parameter when none currently exist when listing parameters.
Common	111221	RED-2422	Building a deployment application using the 'copy previous' option now first initializes the selected object list.
Common	111221	RED-2411	Extension of fields included in Validate / Compare Metadata Repository Report.
Teradata	111221	RED-2409	Validate / Compare Metadata Repository to Another no longer reports on difference in Schema or Tablespace on Teradata.
Common	111221	RED-1449	Repository compare report now also provides informational message if remote repository table has additional columns.
Teradata	111221	RED-2303	Base application for Teradata model_date now includes the defined indexes.
Common	111221	RED-2408	Improvements to Validate / Compare Metadata Repository Reporting.
Common	111221	RED-1960	Additional tests during Application loads have been added to ensure constraints on Short Name cannot be violated.
Common	111221	RED-2461	Building Deployment Applications now warns if no objects selected.
Common	111221	RED-2426	XML load discovery has been modified to use the namespace in the xmlns: record if it exists in the xsd file.
Common	111221	RED-2439	Changes made to Generated Documentation to eliminate duplicate entries when objects appeared in two projects within the same group.
Common	111221	RED-2339	Documentation glossary generation is now filtered on project or group objects. Normal objects have been added. Included jobs are filtered on task object keys.
Common	111221	RED-2534	Corrected sizing of dependent job list in job edit.
SQLServer	111215	RED-2462	Corrected Parameter being replaced not having quotes replaced by double quotes for openquery.
Common	111215	RED-2467	All OLAP actions (create / update / drop / retrofit) attempt to use the internal name as the object ID first, but fall back to using the publish name if an object can't be found.

Teradata	111215	RED-2294	Improved 'type' mapping for generation of (ODBC Based) TPT load scripts.
Teradata	111215	RED-2234	Backup / Save load scripts to disk now writes TPT ODBC control files instead of SQL insert statement.
Teradata	111215	RED-2455	"Generate Procedures by Default" option of tools options was not being saved when choose false.
Teradata	111215	RED-2477	Exports now handle post export procedure via scheduler.
Common	111215	RED-2505	Improved mapping of source to target for SSIS loads during create of package. Issues had existed going between case sensitive and non case sensitive environments.
Common	111215	RED-2506	Corrected issue with selecting (None) as the Update Procedure on most objects.
Common	111215	RED-2239	Corrected generate procedure setting when perform multi table create with regeneration option.
Common	111215	RED-2510	Resolved issue of wrong project objects being versioned using the 'Version Objects' menu option.
Teradata	111215	RED-2252	Corrected Stage Table properties to show Previous Build option. Corrected Stage and View Procedure build to default to last build option selected. Corrected Window message on dialog to select build type to say View rather than Stage.
Teradata	111215	RED-2251	Stage procedure generation when including Model keys was missing the "Distinct" option when selected.
Common	111215	RED-2469	Handle Teradata BTEQ scripts and procedure 'Blocks' in application loads
Common	111215	RED-2482	fixed up connection handle allocating and dropping pairs in cub10
Common	111215	RED-2508	Added a menu option in the Browser Pane to sort displayed table columns by column name.
Teradata	111215	RED-1547	Correct Drop statement generated when altering the database name specified for view objects.
Common	111215	RED-2446	Include '...' on all required buttons and correct tab order of data type mapping dialog.

Common	111215	RED-2222	Improved tooltips on all OLAP objects.
Common	111215	RED-2465	Handle Population of OLAP Action targets where target type for any dimension don't exist.
Common	111215	RED-2474	Finds the default MdxScript object if there is more than one during OLAP retrofitting.
Common	111215	RED-2480	Fixed error when dropping OLAP cubes
Common	111215	RED-2509	Changes made to the job name defined when scheduling a one-off execution of a tables custom procedure.
SQLServer	111215	RED-2516	Corrected data store and normalised objects usage of the specified zero key values for the zero key row entry.
Common	111215	RED-2386	Fix creation & retrofitting of 'Null Processing' property on OLAP cube measures.
Common	111215	RED-2434	Removed non schedulable Retro objects from task selection list.
Teradata	111215	RED-2452	Teradata Merge now handles WHERE Clauses when update changed rows is off.
Teradata	111215	RED-2454	Teradata Merge now handles GROUP BY clauses when there is no WHERE clause.
Common	111215	RED-2463	Corrected issue related to disabling update of associated dimensions during cube process.
Common	111215	RED-2468	Enables ' to be used in project descriptions
Teradata	111215	RED-2483	Correctly handle rowcount for multiload with in excess of 999999 rows.
Common	111215	RED-2485	Corrected message to refer to correct menu for metadata validate when object issues discovered.
Teradata	111215	RED-2473	View default storage option reenabled in tools / options.
Common	111215	RED-2450	Tidied up of index type naming in index display.
Common	111215	RED-2441	Project Obj Maintenance now enables arrow for remove objects when objects have focus.
Common	111215	RED-2435	Corrected issue with versioning to disk for Retro Objects.
Common	111215	RED-2497	Include search of Load Table WhereClause for Parameter in "Parameter Used By" report of scheduler.

Common	111215	RED-2501	Tidy up of Multi Select Table validate against database to handle not table types correctly.
SQLServer	111215	RED-2503	Data Type mappings for SQLServer source updated to handle more integer types that could have identity type defined, such as bigint, smallint and tinyint.
Common	111215	RED-2507	Corrected 'Browse' option in Browser Pane not correctly handling filter of (None)
Common	111215	RED-2500	Checks performed during login to identify if the datawarehouse ODBC Source differs to the Login Source. Checks performed during login to ensure only one connection is identified as the Data Warehouse.
Common	111215	RED-2512	Corrected mapping of SQLServer unique identifier type to char(36) for all data type mapping sets.
Oracle	111215	RED-2499	Fixed displaying results of SSH / Telnet operations

DETAILED LIST OF CHANGES - RED 6.5.5

Changes since 6.5.4

Database	Build	Key	Description
Common	111025	RED-2380	Choose build procedure when defining a new aggregate no longer builds just an empty procedure
DB2, Teradata	111025	RED-2384	Correct sql issue with search string for facts and export objects on DB@ and Teradata
SQL Server, DB2 and Oracle	111025	RED-2405	Corrected action when cancel rebuild of a data store object procedure
Common	111025	RED-2404	Corrected default setting of SSIS version for SQL2005 instances
Common	111025	RED-2402	Corrected double click action for project and object type groups on Object Project Maintenance dialog
Teradata	111025	RED-2379	Corrected for setting of default aggregate type for new aggregates on Teradata
Teradata	111025	RED-2406	Corrected handling of Where Clause existence in Merge code generation
Common	111025	RED-2407	Corrected issue with options stored in registry not being saved / restored when exceed 50 characters
Common	111025	RED-1960	Change reversed out of release due to impact on prior versions. Will be re-applied in a future release
Common	111025	RED-2417	Corrected reversed labels for script and procedure generation file paths in user preferences
Common	111025	RED-2392	Corrected sort order for list of procedure version history
Common	111025	RED-2388	Corrected syntax for view comment creation
Common	111025	RED-2410	Ensured consistency of password character on dialogs with password protection
SQL Server, DB2	111025	RED-2368	Fixed issue with Reports / Jobs / Object Job Matrix
Teradata	111025	RED-2391	Handle spaces or (B) in transform for fastload format strings

Common	111025	RED-2393	Object-Project matrix report modified to include all objects and an 'Included in Projects Count' column
Common	111025	RED-2413	Tidy up of dialog label when you drag an entire table to existing column list
Teradata	111025	RED-2399	WhereScape now certify WhereScape RED 6.5.5 for use against Teradata 14.0
Common	110915	RED-2308	Added option to schedule the load / update step of creating a new object
Common	110915	RED-2298	Procedures now have context menu options to Execute and Execute via the Scheduler
Teradata	110915	RED-2309	Changes made to not clean up error tables or script files after TPT Load failure
Common	110915	RED-2315	Context menu option to update comments in database has been extended to all available objects. Multi select to update comments in database from middle pane has been enabled
Teradata	110915	RED-2327	Now include the From / Where clause for Join Indexes on the Properties tab
Common	110915	RED-2324	Improved handling of MemberKeysUnique issues related to SSAS pre SP2
Teradata	110915	RED-2336	Resize of dialog for selecting Primary Key columns
SQL Server	110915	RED-2346	Enable Evaluation Keys for QAD and Clever Devices
Common	110915	RED-2342	Increased error reporting for scheduler when issues with file create / read due to system resources.
Common	110915	RED-2338	Corrected label for Minimum aggregate function in column transformation builder.
Common	110915	RED-2337	Corrected introduced issue with column transform editor when 'click' to paste column was eliminating spaces before paste point for multi-line transforms.
Common	110915	RED-2335	Corrected handling of multiple aggregates as a source for DS / Normal and Stage objects.
Teradata	110915	RED-2332	TPT File loads now correctly use the provided file delimiter setting.
Teradata	110915	RED-2331	Include 'skiprows=1' in generated TPT job for file loads that have header row attribute set.
Common	110915	RED-2330	Corrected the generic query report to output the query results in order processed. Corrected the generic query report to handle when successive queries have additional output columns.
Teradata	110915	RED-2328	Better handling of TPT error during TPT compilation phase for File based TPT Loads.

Common	110915	RED-2325	Table joins list now just shows part number rather than previously incorrect attempt at showing part of total parts.
Common	110915	RED-2322	The Application load, retry View create feature has been fixed, and it is now repeated after the Procedure compiles, to allow for Views that are dependent on Function / Procedures.
Common	110915	RED-2321	Extended column description discovery for SQLServer sources to also look at extended property of type 'MS_Description'.
SQL Server, Teradata	110915	RED-2319	Corrected setting of view comments in database for SQLServer and Teradata. Corrected setting of view column comments in database for SQLServer.
Common	110915	RED-2316	Re-enabled auto-scrolling in the drop pane when performing drag of columns.
Common	110915	RED-2312	ODBC and Database Connections now provide an option to select the default load method to be used when defining a new load table via drag / drop.
Common	110915	RED-2311	Auto-partitioning fix when OLAP Cube Dimension internal and publish name are different.
Common	110915	RED-2307	Corrected dialog title when creating new view.
Teradata	110915	RED-2304	Tables in database but not in Metadata report no longer includes procedures.
Common	110915	RED-2302	Technical Teradata documentation now has a Storage chapter in all Object types except Views, and Join Indexes where it is called Table Size.
Teradata	110915	RED-2301	User documentation Dimension / Model and Dimension View objects will now filter correctly on the Tools->Options->Object End User Setting.
Teradata	110915	RED-2300	Generated documentation for Fact View objects now includes a Star Schema diagram.
Teradata	110915	RED-2293	Fixed issue of jobs being released multiple times on teradata. This occurred most frequently on overloaded systems with reduced scheduler polling intervals.
Teradata	110915	RED-2285	Improved SQL Server to Teradata data type mapping set.
Common	110915	RED-2281	Have made the read_only data type mappings for standard mapping sets Scrollable.
Teradata	110915	RED-2262	Tidied up error handling of Native Load on Teradata.
Common	110915	RED-2249	Corrected for some missing handling of KPI objects in Application loads (creates and versioning).

Common	110915	RED-2241	Added data type mappings for SQL Server int identity types.
Common	110915	RED-2238	OLAP Cube Dimension retrofitting of update with cube option.
DB2	110915	RED-2237	Installation / Verification of DB2 metadata procedures now checks that the procedures exist at the end of the process.
Common	110915	RED-2233	OLAP Cube retrofitting of measure group partition / processing options.
Common	110915	RED-2229	If documentation path not set when attempt to create object documentation, a prompt is made to supply a directory.
Common	110915	RED-2221	Improved details for View objects in Generated Documentation.
Teradata	110915	RED-2220	Changes to diagrams for view objects.
Oracle	110915	RED-2211	Tidy up of tablespace settings across Oracle Tutorial Deployment Applications.
SQL Server, Oracle	110915	RED-2195	SQLServer data dictionary queries now restricted to objects in dbo, and Oracle data dictionary queries now use the all_tables with owner set to the RED logon UserId.
Common	110915	RED-1244	When installing the metadata, the dim_date, model_date, dss_source_system, dss_fact_table, ToDo objects, and their respective procedures, are now created using the base_1 application in the Application directory.
Common	110804	RED-2017	Enable greater control over handling of Jobs and Parameters when loading applications
Common	110804	RED-710	Added support for two new OLAP calculation types: Named Sets and Scripts
Common	110804	RED-2124	SSIS loads now have the option to encapsulate the table / column names to eliminate issues with mapping
Common	110804	RED-2134	New Options in Reports-Column Reports-Column track forward and Column track back; objects can be selected by Group or Project and a check box is available to exclude the intermediate objects
Common	110804	RED-2206	Moved Job Performance reports to a new section of reports menu: Operational Reports. New fragmentation report added to Operational reports section for SQL server
Common	110804	RED-1722	Enabled Display folder fields on compatible OLAP objects with create and retrofit functionality with SSAS

Common	110804	RED-2199	Upgraded grant requirements for Stand Alone Scheduler Maintenance tool
Teradata	110804	RED-1041	Native load now allows specification of min and max sessions for Teradata loaders
Common	110804	RED-1742	If applications are being loaded using the command line, the saved application load options in the local registry can be outputted to an xml file for use in the application load. This feature is in the Applications menu in the Setup Administrator
Common	110804	RED-2031	Application load options have been extended to allow different option selection for all object types. New options include the ability to version an object before the application load, if it exists, and / or after the application load
Common	110804	RED-2061	SSIS loads now have the option on Source Mapping tab to dictate how Source column names should be encapsulated. This is to handle scenarios such as source column names containing spaces
Common	110804	RED-2168	When meta schema / database is required during logon (DB2 / Teradata) the main logon dialog is redisplayed with input field rather than previous separate dialog
Teradata	110804	RED-2077	Model tables now have SQL Merge option for update procedure
Common	110804	RED-2205	Added option for index type built on for Dimension Join Columns
Common	110804	RED-2000	SQL Server 2008 R2 table and index compression feature now available in object creates in application loads
Common	110804	RED-2048	Various Look and Feel changes etc
Oracle	110804	RED-2044	Corrected issue on Oracle get key function build that was missing out the business keys for the lookup (or causing exception) when the update code method selected is SET based
Common	110804	RED-2046	No longer have excess messages when reach limit of tasks to add / modify / delete on a job
Common	110804	RED-2053	Corrected definition of partition scheme when converting fact table to a partitioned fact table
Common	110804	RED-2054	Added new warnings for when no valid source table is set on an OLAP dimension
Common	110804	RED-2164	Corrected path setting for saving of procedures / script / templates to disk from the editor. Change saving of procedures / scripts / templates to disk to default directory to documents directory

Common	110804	RED-2163	Fix for RED procedures / scripts / templates editor font, font color and background color functionality. Existing sites may need to set font on upgrade via tools / preferences
Common	110804	RED-2001	Changes to Deployment Application loads to ensure we are looking at the correct schema
Common	110804	RED-2175	API ws_load_change is consistent with new functionality in RED
Common	110804	RED-2171	ADM – possible application loads errors, where attributes are substrings of other attributes, have been circumvented
Common	110804	RED-1990	Fixed scheduler handling of Include columns when schedule build of individual indexes
Teradata	110804	RED-2198	If DCB.TVN cannot be queried, we assume that the table in question is not Multiset, and continue with the Validate, Alter table or Retro creation, and report the query failure
Oracle	110804	RED-2041	Corrected update code for NULL support for history tables in set based code
Teradata	110804	RED-2060	Correct data type determination for multi retro select of Teradata source tables
Common	110804	RED-2133	Tools / options and tools / user preferences extensions
Common	110804	RED-1307	Previously when logged out / in and entered incorrect details; application would close. It now provides repeat opportunities
Oracle	110804	RED-2042	Changing to history or slowly changing identities now correctly adds missing dss_version column to the metadata
Common	110804	RED-2098	\$P parameters for Script based Export file name no longer have the leading \$ removed
Common	110804	RED-2100	Regenerate of Indexes now keeps old clustered indicator setting if index previously existed
Common	110804	RED-2101	Corrected Alter DDL syntax where was incorrectly setting column name to lowercase in Validate table code
Teradata	110804	RED-2115	Source system queries to display Teradata tables no longer have sample statement and also send lock for 'access'
Common	110804	RED-2112	Now handling Table Valued functions during 'Object Drop' and 'Compile All'

Oracle	110804	RED-2117	Moved placement of enable parallel DML call to start of generated procedure and introduced a commit after the insert of the zero key row for set based update code. This will prevent the ORA-12841 error that could have been generated
Teradata	110804	RED-2118	Model tables now cater for NULL business keys
Common	110804	RED-2129	SSIS log file is now removed after extract / load to audit files
Common	110804	RED-2008	OLAP ASSOCIATED_MEASURE_GROUP property of calculated members is now retrofitted correctly if it is available
Common	110804	RED-2169	Context menu to add new object now defaults the object name to include the default naming for the object type being added
Common	110804	RED-2093	Changes made to scheduler procedures to stop risk of deadlock between ws_job_clear_logs and ws_job_exec_411
Common	110804	RED-1834	OLAP internal name is used as the main identifier so all other properties can be altered without dropping / re-creating
Teradata	110804	RED-2192	Updated Teradata Tutorial to include table column comments
Common	110804	RED-1918	Canceling the properties of an OLAP cube dimension during a dimension refresh will leave the dimension unchanged
Common	110804	RED-1931	Standard handling of right-click context menus / popup means across the main RED panes
Common	110804	RED-2225	Fixed OLAP retrofitting using ID instead of Name for RED sub-objects whose ID and Name are one and the same
Common	110804	RED-2244	Enabled multi select / delete of parameters in the middle pane
Common	110804	RED-791	Added the ability to start the track-back and track-forward diagrams from object context menus
Common	110804	RED-1453	Added the ability to start the track-back and track-forward reports from object context menus
Common	110804	RED-1819	If an application is being created from an existing application, the Pre and Post SQL is loaded into the dialog
Common	110804	RED-1820	Building an application from a previous build now loads the old pre and post SQL

Common	110804	RED-1821	Application delete file is now generated irrespective of whether there are objects to delete or not. We have changed the application load process to include any pre application load SQL, or post application load SQL in their own files, so we can now have up to 8 files.
Common	110804	RED-1986	Parameter used by report output is now in the reports output tab
Common	110804	RED-2015	Job reports now include all objects
Teradata	110804	RED-2047	Tools Options now has correct labels for Model objects
Common	110804	RED-2051	Impact report on entire table no longer includes excess separators when no impact for any column
Common	110804	RED-2052	Creating a load table, script or export object from version will now inherit the connection details from the versioned record
Common	110804	RED-2113	Add result message for context menu procedure compile outcome
Common	110804	RED-2090	When auto-creating an OLAP cube, a choice is given via a drop down list if there exists more than one matching OLAP dimension
DB2	110804	RED-2127	Corrected handling of create of OLAP Dimension when the source dimension contains no valid attributes. Had been causing exception on DB2
Common	110804	RED-1981	OLAP measure group dimension 'source' column value fixed for when differs to the dimension key name
Common	110804	RED-2162	No longer display fields on retro column properties that are not applicable. Extended custom documentation to enable different tabs for RETRO vs RETRO_COPY objects. Extended custom documentation to enable different tabs for FACT vs KPI_fact columns
Common	110804	RED-2170	Altering connect type of connection(ODBC <->Database) no longer alters the load type of the associated load tables when the load type is 'Integrated Services Load'
Common	110804	RED-2159	Fixed varying display order in browser of OLAP objects when ORDER field is not used
Common	110804	RED-2160	Fix for retrofitting OLAP calculated member transactions when the calculated member has an associated measure group
Common	110804	RED-2161	Fixed retrofitting OLAP objects not deleting existing translations
Common	110804	RED-2174	Fix for deleting OLAP dimension hierarchy when it has a translation set. Now uses a free connection to do the delete

Common	110804	RED-2189	Include error message in the log file in event of native load extract failure
Common	110804	RED-2207	Object Project Matrix report now shows all projects. Previously stopped at the first 200
Common	110804	RED-2208	Corrected a number of (menu driven) report titles
Common	110804	RED-2201	The documentation icons have been updated, please select the Recreate Style Sheet option when creating your documentation to update the Style Sheet to use the new icons
Common	110804	RED-2056	OLAP calculations now allow for Parent Hierarchy and Parent Member to be set
Common	110804	RED-2245	Corrected error when remove all columns from change tracking column selection for slowly changing dimensions
Common	110804	RED-972	XML file loads have been changed to manage the BOM. Also changed to perform incremental I / O which speeds up the load
Common	110804	RED-1357	A new check box to validate dialogs which give the option of only reporting validation failures
Common	110804	RED-1785	Application Loads now repeatedly attempt to compile invalid procedures / functions to handle any dependencies
Teradata	110804	RED-1879	Join index objects in Teradata application loads are now dropped or created as required
Common	110804	RED-1910	OLAP Actions have been removed from the user documentation
Oracle	110804	RED-1912	Workflow repair with multiple actions now works correctly
Common	110804	RED-1960	Additional tests during Application loads have been added to ensure constraints on Short Name cannot be violated
Common	110804	RED-1969	Fix applied for dropping OLAP dimensions with only one attribute
Common	110804	RED-1995	Applications now contain detail on the database version used to build it
Common	110804	RED-2039	Additional field length validation added to OLAP objects and sub-objects
Common	110804	RED-2043	Corrected handling of metadata repository unload / load for handling of nvarchar that resulted in the ws_language_trans table not being correctly created

Common	110804	RED-2057	Delete of old Cube measures, partitions or drill items was causing invalid SQL to be executed. This had no impact on the delete occurring; was simply incorrect to execute that SQL
Teradata	110804	RED-2071	Corrected issue with incorrect parsing in Teradata specifically API's WsWrkAuditBulk and WsWrkErrorBulk
Teradata	110804	RED-2078	Model tables now have delete option. Delete sub-query now uses SELECT with a GROUP BY rather than SELECT DISTINCT
Teradata	110804	RED-2086	UPDATE statements in Model tables now alias update the table
DB2	110804	RED-2102	The DB2 object size information in the HTML documentation has been changed from extents to Mbytes
Common	110804	RED-2105	Enabled full multi select on a number of dialogs such as business key column selection
Common	110804	RED-2108	Fact HTML documentation for users was not reporting the attributes and measures correctly
Common	110804	RED-2081	Versioning of Dimension and Views during Create has been fixed
Common	110804	RED-2014	If Tables are included in the Tools-> Search for string, the WHERE clause is now included in the search
Teradata	110804	RED-2070	API notes improved for Teradata user manual
Common	110804	RED-2136	Corrected message on SQL Server when abort a job directly
Teradata	110804	RED-2148	Corrected Insert count message for multiload when used for Native load
Oracle	110804	RED-2152	Script based file loads now include the 'APPEND' keyword in the SQL *loader control file when identified as possible multi file loads
Common	110804	RED-2150	Corrected issues with SSIS loader routine that resulted in not handling connection or SQL issues when the connection string exceeded 240 characters
Common	110804	RED-2154	Fix for retrofitting OLAP languages with apostrophes
Common	110804	RED-2151	Corrected issues with generated FROM clause for SSIS loads
Teradata	110804	RED-2074	Model History Tables no longer generate incorrect code when ALL columns are history columns
Common	110804	RED-2033	Setting of Editor fonts is now available via Tools / Preferences
Teradata	110804	RED-2065	Updated Overview Diagram

Teradata	110804	RED-2147	Teradata Native loads now have option to create / load as UTF-8
Teradata	110804	RED-2197	Inclusion of lock for access to calls to dbc.ErrorMsgs for error handling in generated procedures
Common	110804	RED-2137	A source loop test has been added to context options Load table -> impact of change to table, and impact -> Track forward report
Common	110804	RED-2097	The OLAP Cube wizard now better handles creating cubes from views by using the source of the view for joins and translations
Common	110804	RED-2173	Changes made to how call external processes for Native Load, SSIS Load and OLAP via RED UI
Orcl,Tera	110804	RED-2212	Corrected insert of new olap dim attribute relationship on Teradata and Oracle
Oracle	110804	RED-2214	Corrected sequence test for WS_OMM_SEQ (used for olap measures) in meta validate / repair
Teradata	110804	RED-2188	Prevent incorrect message during native load stating not all rows loaded when > 100000 rows being loaded
Common	110804	RED-2230	Adding a window scheduler service now performs some checks / warning for creating duplicate service names
Common	110804	RED-1941	Number of allowed Groups / Projects altered from 256 Groups and 256 Projects to 64 Groups and 350 Projects
Common	110804	RED-2217	Corrected substitution of \$P Parameters where consecutive replacements required within a string, but also has a valid \$P that is not an indicator of a parameter requiring replacement identified impact was on dblink loads
Oracle	110804	RED-2211	Updated tutorial applications for Oracle

DETAILED LIST OF CHANGES - RED 6.5.4

Changes since 6.5.3

Database	Build	Key	Description
Common	100908	RED-1783	Non-EUL flagged columns are available to select when auto-creating olap dimensions
Common	100909	RED-1792	Corrected icons used in scheduler for job filter etc.
Teradata	100909	RED-1791	Correctly handling bringing in money / smallmoney data types to Teradata decimal
Common	100909	RED-1793	Corrected action when dragging all of an object type to a new project.
Oracle	100910	RED-1756	Updated grant_sched_access.sql example so that don't get warning when run stand alone scheduler maintenance.
Oracle	100913	RED-1763	Native loads now have option to load via a UNICODE format file.
SQLServer	100913	RED-1763	Native loads now have option to load via a UNICODE format file.
Teradata	100913	RED-1763	Native loads now have option to load via a UNICODE format file.
Common	100913	RED-1763	Tidy-up of 'Source Mapping' dialog fields to ensure only the applicable fields are shown.
Common	100916	RED-1807	Correctly placing menu option when right mouse in free space of meta browser pane.
Common	100916	RED-1803	Rearrangement of Dialog for Report - Repository Compare including correction of tab order.
Common	100916	RED-1808	Corrected issue where if the ToDo script is open no further scripts could be opened.
Common	100916	RED-1815	Corrected meta check report for Oracle so doesn't incorrectly report on WS_PROJECT_SEQ inconsistency.
DB2	100917	RED-1813	Meta LOAD from UNLOAD now correctly sets the objects Schema defintions.
DB2	100920	RED-1810	Meta Restore from Meta Export now correctly sets the objects Schema defintions.

DB2	100920	RED-1811	Meta Restore from Meta Export now correctly handles changed directory.
DB2	100920	RED-1814	Now prompted for output of log for Meta Export / Import to result pane.
Common	100920	RED-1798	When performing ODBC Source Browse will be prompted for details (password etc) if fail connect.
Common	100920	RED-1798	Source browse dialog now also allows input of connect user / password.
Common	100921	RED-1827	List installed applications report right click menu now has option to send to excel.
Common	100922	RED-1826	Corrected column display for after 'New Object from version'.
Common	100923	RED-1828	Corrected issue in dim_view get key generation where source column case different to metadata object case.
Common	100927	RED-1829	Corrected issue with get key function on dimension views with long surrogate key names
Teradata	101001	RED-1425	Tidied up to ensure fact table objects are not useable in Teradata installs.
Oracle	101001	RED-1844	Creating a new custom procedure on an ODS or DS object in oracle no longer results in an empty procedure.
Common	101001	RED-1624	Datastore and Normalised check for table now just looks for first row rather than full table count.
Common	101001	RED-1783	NON EUL flagged columns are now also available to select when auto-creating OLAP dimensions.
Common	101001	RED-1731	Order By attribute property added to OLAP dimension attributes Dialogs.
Common	101001	RED-1796	Existing properties on OLAP Cube objects are updated in SSAS when the cube is created. Create now more fully works as create / alter.
Common	101001	RED-1801	Determination of column type issues resolved in create of OLAP objects on SSAS.
Common	101001	RED-1802	Corrected issue during drag / drop to create OLAP Dim attributes where some were not working due to a case sensitive validation check.
Common	101001	RED-1584	Errors regarding multiple measure groups on same fact table have been applied.
Common	101004	RED-1741	New Database' for SSAS database creation changed from a button to a meta-option on CUBE objects.
Common	101004	RED-1056	Foreign Key fields on Index definition removed until can resolve fully.

Common	101005	RED-0879	Cancelling from 'New Connection' dialog no longer leaves meta data in a bad state.
Common	101005		New connections now default connection method to 'IP'
Common	101005	RED-1850	Procedure and Script objects now only list valid sub types in their properties.
Common	101005	RED-1833	OLAP Cube and OLAP Dim Create action now labelled Create (Alter) to reflect what will occur.
Common	101006	RED-1851	Changed list options for new procedure / new script to be more windows standard.
Oracle	101006	RED-1784	Corrected issue with embedded schema name in KPI Fact generated code.
Common	101006	RED-1852	When create a new 'custom' procedure from object properties, the procedure is opened immediately for edit.
Common	101011	RED-1858	Corrected available list of tables / columns for transformations helper dialog.
Oracle	101011	RED-1784	Tutorial Application 6 (KPI) updated to remove hardcoded schema name.
DB2	101011	RED-1650	Tutorial Application 6 (KPI) now available.
Common	101012	RED-0668	Extended input length for WHERE clause of Stage Objects.
Common	101012	RED-1072	Extended input length for WHERE clause of Dimension, Fact, Data Store and Normal Objects.
Common	101012	RED-1319	DataStore and Normalized Batch processing now correctly offer source rather than Target Column fields in select list.
Oracle	101012	RED-0546	Corrected potential issue with DB Link Loads truncating the select columns.
SQLServer	101012	RED-1853	Corrected potential issue with DB Link Loads truncating the select columns.
Common	101013	RED-1862	Corrected issue with not handling quotes in ASID field when adding new languages.
Common	101013	RED-1661	When deleting objects via application load, warnings are now provided for impacted jobs.
DB2	101013	RED-1554	Functions now correctly identified for compilation validation.
Common	101013	RED-1250	Corrected bug in Load table impact report when > 50 columns.
Common	101013	RED-1594	Additional build options now included in index create during application load.

Common	101013	RED-1809	OLAP storage mode now included in Generated Documentation.
Common	101013	RED-1760	Generated Documentation now has correct forward slashes in image references.
DB2	101013	RED-1861	Corrected TABLEOWNER replacement in application load.
Common	101013	RED-1781	Inter Job Dependencies now included in Job Dependency Diagrams.
Common	101013	RED-1863	Corrected default path for Application via version control menu.
Common	101014	RED-1862	Corrected TAB order on Object Language input dialog.
Common	101014	RED-1865	Change job definition dialog to correct any jobs with invalid job wait intervals.
Common	101014	RED-1865	Job Idle Thread Wait setting now correctly handled in Applications / Imports.
Common	101015	RED-1866	Corrected data type setting when defining new XML load
Common	101018	RED-1871	Tidied up message for if not 2 tables selected in table join dialogs.
Common	101018	RED-1872	Changed generated template code references of "Bespoke" to "Custom".
Teradata	101019	RED-1835	Non required entry fields (Format, Compression, Case Default Value) on Join Index columns now removed.
Teradata	101019	RED-1835	Copy of Join Index Column now works.
Teradata	101019	RED-1835	Columns of Join Index with transformations now has alias applied during create.
Teradata	101019	RED-1835	Default for new join index columns is to now assume join index is non aggregating.
Common	101019	RED-1749	'Escaping' from Job Definition Dialog no longer repeats warning for invalid fields.
Teradata	101019	RED-1835	Table Properties (Partitioning) clause enabled for Join Indexes.
Teradata	101020	RED-1887	Creation of retrofit object now retains the null status of the object being retrofitted.
DB2	101020	RED-1882	Corrected issue when attempt to define a new dimension with no hierarchies.
Teradata	101020	RED-1885	Scheduler now handles ANALYZE action correctly.
Common	101020	RED-1890	Fixed issue with jobs getting stuck in Pending state if Job Name length = 64.

Common	101021	RED-1299	Confirmed all business key lists remove all selected items when click delete.
Oracle	101021	RED-1271	WhereScape now certify WhereScape RED 6.1 onwards for use against Oracle 11.2
Teradata	101021	RED-1443	Sample Create script for repository now caters for UNICODE environments.
Teradata	101021	RED-1520	WhereScape now certify WhereScape RED 6.5.1 for use against Teradata 13.10
Teradata	101021	RED-1893	Teradata primary index column list is now derived from the primary index order field on the join index columns in the linux scheduler.
Teradata	101021	RED-1892	In the Teradata linux scheduler, the FROM clause is no longer added twice to join indexes being created if the from / where field contains a FROM clause.
Teradata	101021	RED-1891	In the Teradata linux scheduler, square brackets in the from / where clause of a join index are now resolved to DatabaseName.TableName
Teradata	101021	RED-1878	Teradata linux scheduler now includes primary index in join indexes when creating.
Common	101026	RED-1902	Enlarged date displays on Procedure and Script properties to display longer format dates.
Common	101026	RED-1900	Tidied up message box if try starting RED against older repository that requires a meta upgrade.
Teradata	101026	RED-1883	Fix bug in OLAP processing module resulting in exception occurring.
Teradata	101026	RED-1889	Corrected SQL used when attempt to display OLAP dimension attributes.
Common	101101	RED-1828	Corrected issue of inclusion of all group / project mappings in applications.
Teradata	101101	RED-1914	Corrected issue with creating OLAP objects from Teradata repositories.
Teradata	101101	RED-1520	WhereScape now certify WhereScape RED 6.5.1 for use against Teradata 13.10 .
Oracle	101101	RED-1271	WhereScape now certify WhereScape RED 6.1 onwards for use against Oracle 11.2 .
Teradata	101104	RED-1919	Teradata windows scheduler now uses scheduler work directory for temporary files.
Teradata	101104	RED-1369	Teradata loads, exports and scripts via the windows scheduler now handle spaces in directory and file names.
Common	101104	RED-1369	Windows scripts for exports are now generated to handle spaces in control and audit file names.

Teradata	101104	RED-1369	Teradata windows scripts for loads are now generated to handle spaces in control and audit file names.
Common	101104	RED-0569	Validation of procedure now handle quotes in comments.
Common	101104	RED-1383	Limit for number of objects to be validated in middle pane extended.
Common	101104	RED-1432	Corrected potential issue with column track-back report.
Common	101104	RED-1770	When importing objects, checked out objects are now reported, and require verification before continuing.
Common	101104	RED-0187	Limit on application objects extended.
Common	101104	RED-1886	Application load now cleanly handling missing objects.
Common	101104	RED-1629	Application loads now include column and table comments when creating tables.
Teradata	101104	RED-1904	Daily date roll procedure modified to stop Teradata error 7691 in Teradata 13.10.
Common	101105	RED-1850	Corrected available sub-types for Procedure and Script Objects.
Common	101105	RED-1924	Filter options on Main Browse menu now work whether have previously established datawarehouse connection or not.
Common	101105	RED-1925	Scheduler window is now activated on startup (with focus still on Browser window).
Common	101105	RED-1926	Removed "As a cube Data source" section from connection properties when not applicable.
Teradata	101108	RED-1835	No longer attempt to add comments to Join Indexes.
Teradata	101108	RED-1835	Join Indexes now prevent adding Identity fields during drag / drop to align with Teradata restrictions.
Common	101109	RED-1928	Corrected Meta Repair for issues with Data Store objects.
Common	101109	RED-1928	Corrected Meta Repair for Index having invalid object reference.
Common	101109	RED-1929	Now fully qualify calls to create audit messages when abort / halt / restart jobs via UI. Also additional grants added to grant_sched_access sql.
Common	101110	RED-1930	Corrected issue with intermittent crash when working with DataStore or Normalized objects.

Teradata	101110	RED-1080	Verified old identified issue with teradata unload / load is rectified.
Common	101111	RED-1933	Ensure job name generated by process action in context menu never exceeds limit.
Common	101115	RED-1938	Ensure dimension build options for minus update are always cleared when requested.
Teradata	101116	RED-1917	SQL Functions now handled.
Teradata	101117	RED-1945	XML loads now identify correctly the database / user on which the load table exists to load to.
DB2	101117	RED-1380	Truncate actions now use TRUNCATE syntax rather than load from NULL.
Oracle	101118	RED-1346	Corrected intermittent issue of Buffer limit being exceeded for DB Loads with large number of columns via scheduler
Common	101122	RED-1951	Remove Project menu option renamed to Delete Project.
Common	101122	RED-1951	New Remove Project from Group menu option added.
Common	101122	RED-1953	Now prompt to confirm if attempt to delete a 'Blocked' Job.
SQLServer	101123	RED-1954	Filter expression enabled for SQL2008+ nonclustered indexes.
Common	101123	RED-1224	Data type mapping between the same source and target is handled by new data type mapping functionality.
Common	101123	RED-1888	Corrected handling to identify artificial key when adding OLAP dimensions.
Common	101123	RED-1584	Enabled multiple measure groups from same fact table for OLAP.
Common	101123	RED-0801	Data type mapping between the same source and target is handled by new data type mapping functionality.
Common	101123	RED-1579	Improved data types determination during drag / drop for file load.
Common	101123	RED-0614	Control over Transformation of data types added to new data type mapping functionality.
Common	101123	RED-1909	OLAP Dimension attributes are now created with hierarchy visible defaulting to true
Common	101123	RED-1050	Improved data types determination during drag / drop for file load.

Common	101123	RED-1755	Now possible to create multiple OLAP dimensions from same dimension source.
Common	101124	RED-1947	Corrected source object type setting when retrofit OLAP Dimensions.
Common	101124	RED-1948	Fixed OLAP retro-fitting to ensure correct source tables and columns.
Common	101124	RED-1949	Retrofit of OLAP objects now brings across all calculations.
Common	101126	RED-1958	Corrected setting of available tabs when altering the load type for a Load Object.
Common	101201	RED-1959	Building of index for Slowly changing now limits index size to 16 columns and warns appropriately.
DB2	101203	RED-1961	No longer error when copying job with no tasks.
Common	101203	RED-1306	Better handling of shortname violations during application load. Additional task RED-1960 created to resolve fully.
Common	101203	RED-1950	The "Apply changes" and "DDL only" options in application load now also apply to the delete file processing.
Teradata	101203	RED-1927	Join indexes are now created by application load.
Teradata	101203	RED-1921	SQL Functions now handled in application loads.
Common	101203	RED-1908	The repository logon dialog has been tidied up for application loads.
Common	101203	RED-1750	Application Loads will not run if any checked out objects are to be changed, unless ignore checkout option is selected.
Teradata	101203	RED-1587	Tidied up messages when procedure compile fails for application load.
Oracle	101203	RED-595	Option to populate dimensions via set based mode now enabled in Beta form.
SQLServer	101203	RED-595	Option to populate dimensions via set based mode now enabled in Beta form.
Common	101203	RED-1002	Issue with not exists code for dimension update resolved in set based mode.
Common	101203	RED-1191	Issue with not exists code for dimension update resolved in set based mode.
DB2	101203	RED-1823	Work Directory enabled on Database connection so available for Minimal Logging directory setting for load tables.

Common	101203	RED-1965	New data type mappings has resolved issues with retrofit potentially using deprecated datatypes in SQL2008.
Common	101203	RED-1100	Issue of dimension views not carrying across business keys was fixed in v6.1.1.2 as part of issue RED-1620
Common	101206	RED-1970	Tidied up warning message in scheduler log when database was unable to trap the error.
Common	101206	RED-1963	Column 'Format' now handles single quotes.
Common	101206	RED-1952	Format value and default value added to data type mapping and carried through when drag & drop objects
Common	101206	RED-0551	New data type mapping includes ability to request prompt for specified or unknown data types.
Common	101207	RED-1971	Fix to enable jobs containing child jobs to be restarted.
Common	101210	RED-1978	Meta Validation report / repair now check for integrity of OLAP Dimension Attributes.
Common	101210	RED-1396	Application loads now give you the option of not importing any new Project / Group relationships.
Common	101210	RED-1570	Application load now has greater control over index handling.
Common	101210	RED-1600	Application loads now include options for index creation.
Teradata	101210	RED-1877	Non Applicable Update and Custom Procedures detail no longer included in Join Index documentation.
Common	101210	RED-1916	Missing fields for application import on connection meta data now included.
Common	101210	RED-1922	Corrected issue with hierarchy publish names being truncated during application migration.
Common	101210	RED-1691	Report results now have dedicated window pane so can retain report results and continue ot work on objects.
Teradata	101210	RED-1442	New ODBC connection load type added called "TPT Load".
Common	101213	RED-1976	Using SSIS as a load method has been enabled.
Common	101213	RED-1977	Restructure of Reports Menu and added new Validate Menu.
Common	101213	RED-1881	Columns as additional attributes for Dimensions are now sorted in the selection dialog.

Common	101213	RED-1382	Added missing variable for insert count when choose only Initial Build for 3NF / DS objects.
Common	101213	RED-1974	updating source table / column names of OLAP objects maintains referential integrity and deleting them displays a warning to the user.
Common	101213	RED-1987	Chnages to olap attribute source column derivation to prevent certain issues.
DB2	101217	RED-1888	Correction to SQL when testing impacted OLAP objects when delete a source column.
Common	101221	RED-1594	Updated Batch application xml file samples for new options.
Common	101221	RED-0801	Corrected identification of date type fields on drag / drop of file to create load table.
Common	101222	RED-1570	Removed redundant message that have loaded defaults for application option on entry to dialog.
Common	101222	RED-1976	Added missing load type to technical documentation for new load types (SSIS and TPT).
Common	101222	RED-1984	New 'View Procedure' option added to search results options.
Common	101223	RED-1989	Corrected possible incorrect notification of object exiting in a job when deleting the object.
Common	101224	RED-1981	OLAP measure group dimension 'source' column value fixed for when differs to the dimension key name.
Common	101224	RED-1985	Fix for auto-adding OLAP dimension attributes updating source columns incorrectly.
Common	101229	RED-1991	Corrected handling for quoted strings in format, data type, description and default values for columns when add, copy and update
Oracle	110117	RED-1784	Tutorial 6 updated to remove static schema name.
Teradata	110118	RED-1997	Fix for query updating OLAP dimension attributes.
Common	110120	RED-1957	Track back report has better detection of external sources.
Common	110120	RED-1911	String search has been improved to ensure no missing finds.
Common	110120	RED-1964	Generated documentation updated to include detail for set based dimension build.
Common	110120	RED-1489	New report for impact analysis (track forward) at the column level.
Common	110120	RED-1998	Date types in file loads now determine format to ensure optimal transforms for loaders are applied.

Common	110120	RED-1721	Corrected "hit count" for string search.
SQLServer	110121	RED-1899	Improved validation of column checking to resolve issue with views in same database as table being validated.
Common	110222	RED-2018	Corrected issue with application loads when have index with maxdrop or fill factor settings.
Oracle	110222	RED-2026	Inclusion of test harness in release.

DETAILED LIST OF CHANGES - RED 6.5.3

Changes since 6.5.0

Database	Build	Key	Description
Oracle	100820	RED-1756	Corrected issue for stand alone scheduler when logging on as non schema owner.
SQLServer	100823	RED-1754	Resolved issue with Ws_Version_Clear API on case sensitive repositories.
Common	100824	RED-1665	Corrected drag column to reorder bug on VM / Remote Desktops
Common	100824	RED-367	Dragging entire object group to a new project now prompts with option to cancel.
Common	100827	RED-1732	Passwords in connection properties are now always encrypted.
Common	100830	RED-1001	Load file wizard no longer case sensitive for CHAR(9) delimiter specification.
Common	100830	RED-1679	Changes to Custom Job Filter, so that it has drop list of last 10, and can be combined with other filters (Today etc)
Common	100830	RED-225	Now possible to scheduler the custom procedure execution via the scheduler from the object context menu.
Oracle	100903	RED-1775	Results of ALTER INDEX (name) NOLOGGING PARALLEL now in results window.
DB2	100903	RED-1774	Corrected introduced issue with DS / Normal objects context menu.
Common	100905	RED-1776	Corrected mapping of NCHAR during drag/drop.
Common	100905	RED-921	OLAP items now have next / prev update buttons on dialogs.
Common	100905	RED-1638	Original values on the translations tab now accurately reflect the values as entered on the properties tab.
Common	100905	RED-1774	Artificial key column is no longer displayed in available column list when selecting date range columns.

Common	100905	RED-1411	Prompt now provided to add All Columns flagged as 'End user layer' (EUL) visible that are not in a hierarchy are auto-added as an attribute, to an OLAP Dimension.
Common	100905	RED-1619	OLAP Dimension Attributes Key and Name columns source table is now updated to reflect the source table of the OLAP Dimension.
Common	100905	RED-1480	Storage mode options of Molar and OLAP are now available on appropriate OLAP objects.
Common	100905	RED-1746	OLAP objects can be checked out / in the same as other objects.
Common	100905	RED-1761	OLAP Actions are able to be copied (including drill-through actions selected drill columns)
Common	100905	RED-1773	When adding a drill-through action via 'Add Action' menu item the selected drill columns are also saved.
Common	100905	RED-816	Job Diagram extended to show start of job and also job dependencies.
Common	100905	RED-1751	Changes to diagram window to handle main window movements.
Common	100906	RED-1747	Checked out objects now have column reordering disabled for other users.
Common	100906	RED-1778	Order controls removed from add OLAP Attribute dialog.
Common	100906	RED-1779	Checked-out OLAP objects have warning message in their dialog windows title text
Common	100906	RED-1780	Drill columns copied without needing to load (view) the drill columns tab when copying an OLAP action.
Common	100909	RED-1792	Corrected icons used in scheduler for job filter etc.
Oracle	100910	RED-1756	Updated grant_sched_access.sql example so that don't get warning when run stand alone scheduler maintenance.
Common	100916	RED-1815	Corrected meta check report for Oracle so doesn't incorrectly report on WS_PROJECT_SEQ inconsistency.
Common	100922	RED-1826	Corrected column display for after 'New Object from version'.
Common	100923	RED-1828	Corrected issue in dim_view get key generation where source column case different to metadata object case.
Common	100927	RED-1829	Corrected issue with get key function on dimension views with long surrogate key names

Common	101101	RED-1828	Corrected issue of inclusion of all group / project mappings in applications.
Teradata	101101	RED-1914	Corrected issue with creating OLAP objects from Teradata repositories.
Teradata	101101	RED-1520	WhereScape now certify WhereScape RED 6.5.1 for use against Teradata 13.10
Oracle	101101	RED-1271	WhereScape now certify WhereScape RED 6.1 onwards for use against Oracle 11.2
Common	101110	RED-1930	Corrected issue with intermittent crash when working with DataStore or Normalized objects.

DETAILED LIST OF CHANGES - RED 6.5.0

Changes since 6.1.0

Database	Build	Key	Description
Common	100309	RED-1450	Auto addition of Attribute relationships on OLAP dimensions is now case sensitive as required by AS.
Common	100311	RED-1456	Prompts provided to remedy meta data issues when identified.
Teradata	100311	RED-1458	Changes to Teradata scheduler to fix issue where jobs sometimes didn't fire if slow connect to Teradata.
Common	100312	RED-1459	Index validate report enhanced to report appropriately based on active flag setting.
Common	100312	RED-1461	Modified Procedure report now only reports if procedure is a getkey or update procedure.
Common	100312	RED-1462	Browser now has "(Refreshing)" message in window when source connections are being refreshed.
Common	100315	RED-1465	Result of a procedure regenerate / rebuild now included in results pane.
Common	100315	RED-1468	Deleting a load object now also offers to delete the associated script.
Common	100315	RED-1467	Deleting a export object now also offers to delete the associated script and procedures.
Common	100315	RED-1467	Deleting a export object now also offers to delete the associated script and procedures.
Oracle	100316	RED-1469	Now recognize NCLOB types and handle appropriately.
Teradata	100316	RED-1470	Changes made to the Teradata scheduler to better trap system errors on initiation.
Common	100316	RED-1471	When adding objects to a project an option is default on to add related objects.
Oracle	100317	RED-1473	NVARCHAR data-type now handled correctly for 'unknown' value in dimension code.
DB2	100317	RED-1397	DB2 minimal logging loads in procedures now capture load messages.

DB2	100317	RED-1374	Warning level message now provided when minimal load in procedure results in deletes by db2 load routine.
Teradata	100323	RED-797	Terminology corrections in Setup Administrator.
Common	100323	RED-1428	Parameters in application loads will now replace existing parameters of the same name, the old parameter will be renamed.
Oracle	100323	RED-1430	Oracle application loads that include jobs, which require renaming of existing jobs, will now update the job keys in the Scheduler monitoring metadata if it exists.
Common	100323	RED-1429	Applications with just a single parameter now load successfully.
Teradata	100323	RED-1399	Teradata application load can now successfully create tables with compress values up to 4000 chars.
SQLServer	100323	RED-1414	SQL Server metadata indexes are now created during the Quick App and the Quick Start options.
Common	100323	RED-1452	Application creation and loading now correctly handles jobs, parameters and objects with the same name.
Common	100323	RED-1444	Invalid Connections!!! in application loads caused by invalid script object connection keys has been fixed.
DB2	100323	RED-1479	DB2 application loads now load dim hierarchies correctly
Common	100326	RED-1389	Change_count field now incremented rather than set during batch processing for ds / normal.
Common	100326	RED-1389	Batch processing of DS / Normal objects now defaults to include sort on batch field
Teradata	100326	RED-1470	Scheduler changes to identify system error that would otherwise have resulted in job stuck in pending state.
Common	100330		Change to licensing model - removal of practitioner license.
Common	100330	RED-1398	New OLAP objects use the business name from source as publish name.
Common	100330	RED-1485	SQLAdmin no longer creates 2 connections if source is Progress.
Common	100330	RED-0637	New OLAP objects have increased flexibility related to hierarchies and Attribute settings.
Common	100330	RED-0615	New OLAP objects have increased flexibility related to hierarchies and Attribute settings.
Common	100330	RED-0594	New OLAP cube object when using right mouse add new populates all the drop lists.

Common	100330	RED-0500	New OLAP objects make it easier to add new measures etc.
Common	100330	RED-0461	New OLAP objects make it easier to add hierarchies etc.
Common	100330	RED-456	Now possible to create OLAP cubes from fact views.
Common	100330	RED-1011	Now possible to create OLAP cubes from fact views.
Common	100330	RED-1410	Auto add of calc member on new OLAP warns if attribute types not valid.
Common	100330	RED-441	Application load of new OLAP object automatically adds cube database name.
DB2	100330		New DB2 Load tables default to minimal Logging.
Common	100330	RED-1238	Creating load from objects such as facts no longer sets column source for the fact column source.
Common	100331	RED-862	Separation of Olap_Cube and Olap_Dimension in new OLAP objects resolves catch-22 issue with drop in AS Databases.
SQLServer	100331	RED-1493	Clustered indexes created after non clustered when schedule build indexes.
SQLServer	100331	RED-1493	Clustered indexes dropped before non clustered when schedule drop indexes.
SQLServer	100401	RED-1493	Clustered indexes rebuilt before non clustered when indexes flagged for rebuild.
Common	100406	RED-1494	DS / 3NF objects now appear in tree correctly of object project maintenance dialog.
Teradata	100407	RED-1495	Clearing GROUP BY Clause during Aggregate code rebuild will reset GROUP BY based on column flags.
Common	100412	RED-1262	Issues with large (>4000 char) custom views resolved.
Common	100412	RED-1466	Work directory for cube and native load processing via RED no longer set to program folder on XP.
Common	100413	RED-1507	Column business name now handle single quotes.
Teradata	100413	RED-1510	Adding Hierarchies to Views now uses same method as on Dimensions.
Common	100413	RED-1405	New OLAP objects included in Diagrams.
SQLServer	100413	RED-1474	Removed "Unable to ascertain the available SQL Server servers message" during Quick App.
SQLServer	100419	RED-1519	Corrected issue for DS / Normal where if no update code requested on history table the history update SQL was using CHECKSUM
Common	100420	RED-1521	Fixed issue with setting action target objects

Common	100420	RED-1525	Copy and Add measure to new OLAP object now save source table details correctly
DB2	100421	RED-1528	Fixed issue related to quotes in the key for dimension joins.
Common	100423	RED-1530	Unix trace file in ADM no longer being written to program folder.
Common	100423	RED-1531	Setting of code indent size changed to ensure > 0.
Common	100426	RED-1533	Hierarchy key now set correctly when add or modify hierarchy on hierarchy levels.
SQLServer	100426	RED-1536	Tutorial Application 6 (KPI) updated with new OLAP objects.
Common	100426	RED-1537	Auto Partitioning SQL corrected for OLAP objects where object in different Database / Schema
Common	100427	RED-1539	OLAP Actions no longer reset to default target type and object when go to the properties tab.
Oracle	100504	RED-1555	Tutorial Application 6 (KPI) updated with new OLAP objects.
Teradata	100504	RED-1556	Corrected auto partitioning of OLAP Cubes.
Teradata	100504	RED-1557	Implemented teradata scheduler for OLAP objects.
Common	100505	RED-1559	Handle where internal and publish name of OLAP hierarchy differs.
Common	100505	RED-1560	Fixed processing to turn off historic partitions when auto partitioning in OLAP.
Common	100510	RED-1661	Ability to set Default Indicator for drill through OLAP actions added.
Common	100511	RED-1544	Application load of views no longer counts the rows, simply reports existence.
Common	100511	RED-1543	User defined views now handled correctly via Application loads.
Common	100511	RED-1573	Standardization of output from application loading.
Common	100512	RED-1575	'All Licensed Objects' option added in install repository type selection.
SQLServer	100513	RED-1553	Issue when run multiple parallel fixed width file loads via scheduler resolved.
Common	100513	RED-1360	Generated script for script based loads now have unique control files so can be run in parallel.
SQLServer	100513	RED-1578	Index options such as sort_in_temp now retained when defining a new index.
Common	100514	RED-1585	Better handling of when ask to add new dimension to cube but not yet defined as OLAP dimension.

Oracle	100520	RED-INT	Corrected validation for ws_language meta table in Beta.
DB2	100520	RED-INT	Corrected index validation file in Beta.
Common	100520	RED-INT	New 'WhereScape Overview' diagrams added / updates.
Common	100520	RED-INT	Partitioned olap measure groups now use the provided where clause for when determine new partitions to add.
Common	100521	RED-1601	ToDo list will now always default to open in read / write.
Common	100521	RED-1603	Corrected actions in Tools / Options / Objects for activation of OLAP objects.
DB2	100521	RED-1602	After selecting minimal logging option when building stage procedure, control returns to the selected build type.
Common	100521	RED-1604	New informational message provided when changing object enablement - requiring restart.
Common	100528	RED-1620	Creation of Dimension View now brings across the create / update date time fields, and also the business key setting.
Common	100608	RED-1636	Corrected message for Native load when have failure reading the log file.
Common	100608	RED-1637	Adding or copying dim view column was showing incorrect icon in initial column list.
Common	100608	RED-1375	Changes made to handle stricter registry access enforced by recent Windows OS changes.
Common	100609	RED-1640	Improved query performance for "archive audit log" query in scheduler area of RED.
SQLServer	100611	RED-970	Flat file non delimited loads now use the record delimiter specified.
Common	100611	RED-1643	Additional tests in windows scheduler for call allocation failures.
Common	100611	RED-1609	Corrected documentation create failure when creating at the 'group' level.
Teradata	100611	RED-1647	Meta import of olap objects now work fully. Did have issue with attributes.
Common	100611	RED-1512	Olap Cubes and Dimensions can now be restored from versions.
DB2	100614	RED-1650	KPI tables implemented.
Common	100615	RED-443	KPI generated code now uses selected date field rather than default 'calendar_date'

Common	100615	RED-1652	Correction to Index import when choose to map tablespace. Had been losing table relationships.
Teradata	100616	RED-1633	Join Indexes moved via application now correctly remap the database.
Common	100616	RED-934	Ability to 'retrofit' OLAP objects has been included.
Common	100616	RED-1549	Ability to 'retrofit' OLAP objects has been included.
Common	100621	RED-1632	Corrected user documentation to use business names throughout.
Common	100621	RED-1534	Dependency limits extended for job diagrams.
Common	100621	RED-1631	Using the new 'Include in documentation' options in the project properties dialog, the deselected projects will not appear in the index tree in the created html documentation.
Common	100621	RED-1659	Projects now utilize option to determine if should be included in application build and import.
Common	100702	RED-1670	Corrected handling for 0000 start before when using custom jobs.
DB2	100702	RED-1649	Corrected handling for load objects to use parameters when > 4000 character insert statements.
Common	100702	RED-1523	Resolved intermittent error when use dbl click on left pane with no object selected
Common	100702	RED-1596	New Overview diagrams and selection options.
Common	100702	RED-1526	Added language support for key display elements.
Common	100702	RED-876	Application distributions can now include an optional sixth file containing objects to be deleted and dropped from the destination.
DB2	100705	RED-1675	Corrected issue of not using table space for create via scheduler of dimension objects.
DB2	100705	RED-1140	Now expose and use index storage table space options for tables.
Common	100705	RED-1515	The application load report in setup administrator can now be exported to Excel using the right mouse button.
DB2	100721	RED-1686	Prevent error when large transforms (~4000 char) and minimal logging option on stage tables.
Common	100721	RED-1693	Corrected issue with load impact report when > 50 columns.
Common	100721	RED-1696	Extended size of input fields for history date setting from 80 to 120 characters.
Common	100722	RED-1588	Changes made to OLAP Dimensions are now reflected immediately in OLAP Cubes.

SQLServer	100723	RED-1703	Fixed issues with load via RED UI for native load when spaces in work directory.
Common	100723	RED-1703	Fixed issues with file cleanup via scheduler for native load when spaces in work directory.
Teradata	100723	RED-1703	Fixed issues with load via RED UI for native load when spaces in work directory.
Common	100726	RED-1705	Adding views now allows for auto prefixing of name and display name.
DB2	100726	RED-1703	Fixed issues with load via RED UI for native load when spaces in work directory.
Common	100802	RED-1690	Additional validation checks when adding OLAP objects to validate naming.
Common	100802	RED-1680	Retrofit of OLAP objects now also include translations.
Common	100803	RED-INT	Corrected issue of no repository type selection for special license.
Common	100805	RED-1726	Attribute relationship names displayed in output are truncated and the output line has been split into two for cubes to prevent exception occurring in logging.
Common	100809	RED-1725	Corrected error message when dbl click parameters sub menu for application define when no parameters exist in the repository.
Common	100809	RED-1715	New object menu item added to build individual object application files for source control purposes.
Common	100810	RED-1733	New customizable URL links added to menu bar.
Common	100811	RED-1716	Rebuild of Get Key code for Dimension Views moved to under the 'code' sub menu.
Common	100811	RED-1717	Added rebuild of Dimension Get Key procedure under the 'code' popup menu.
Common	100811	RED-1618	The Get Key code generation has been corrected for Dimension Views of type "ranged".
Common	100811	RED-1617	The Get Key code now correctly handles long date range field names.
Common	100811	RED-1205	Date Ranged Dimension Get Key rebuilds now always prompt for the start / end dates.
Common	100811	RED-1719	Get Key Functions now correctly use the short name for the procedure when requested.
Common	100811	RED-1671	Application Build truncates VIEW WHERE clause after 2K for Dimension View objects.
Common	100811	RED-1646	Corrected potential error in Setup Admin during Quick App with OLAP Objects.

Common	100811	RED-1538	A restore point application can be created prior to loading an application, by launching RED from the command line and specifying the application files about to be loaded.
Common	100811	RED-774	Applications can now be created via the Command Line.
Common	100811	RED-1478	Applications can now be loaded via the Command Line.
DB2	100811	RED-1735	Issues related to Repository Compare resolved.

DETAILED LIST OF CHANGES - RED 6.1.0

Changes since 6.0.1

Database	Build	Key	Description
DB2	80903		New warning during file load wizard if file contains a header row.
DB2	80904		Query fact by Excel now constructs correct SQL
Common	80904		Generating documentation at the group or project level was generating a SQL error
DB2	80904		Documentation was failing where had long transformations on columns
DB2	80908		Native load now accesses 'current server' to perform the connect to allow for use of server alias
Teradata	80908		Option to have add a job as a task of another job removed until Teradata scheduler enables them
SQLServer	80909	RED-1005	Dimension unknown values now handled for VARCHAR(MAX) columns by enclosing the unknown value in quotes.
DB2	80922		XML file load creation no longer fails with SQLError
DB2	80923		Create via scheduler now handles long (>64 character) data type definition on columns
DB2	80923		Aggregate table Create via scheduler now includes schema correctly
Common	80924		Default column values enabled
DB2	81007	RED-1012	Unix / Linux wait on loads failing if test with hour, minute or second = 8 or 9
Oracle	81007	RED-1012	Unix / Linux wait on loads failing if test with hour, minute or second = 8 or 9
DB2	81008		Attempt to load with presql option selected but no presql provided will halt the load
DB2	81008		If no DBNAME provided from ODBC Driver for restore (Load metadata from disk), will attempt to use driver name to identify database

DB2	81009		ODBC loads in RED were not prefixing the schema on the load table
DB2	81009		ODBC loads via scheduler no longer encases columns in ' when the numeric flag is set
DB2	81010		Linux / Unix trigger parameters now start at 0 rather than 1 for both generated scripts and file loads
Common	81017		Check in / out functionality now also allows for automatic version generation
Teradata	81020		If the file delimiter is not set a pipe is used. A message is written to the detail log to inform this has been done
Teradata	81020		If the file load routine is not set, the repository default is used in RED and fastload is used in the scheduler. A message is written to the detail log to inform this has been done
Teradata	81020		The computed number of loader sessions is now written to the detail log
Teradata	81020		The number of rows loaded is now written to the detail log.
Teradata	81020		For fastload native loads, the max sessions value is now specified in the command line call of fastload, rather than in the ctl file.
Teradata	81020		For multi-load native loads, any col transforms are now ignored as native load col transforms are for the extract from the source, not the load.
Teradata	81020		If the number of rows extracted from the source is not the same as the number of rows loaded, the task now errors, even if the loaded does not.
Teradata	81020		The loader output is not loaded into the detail log if the task succeeds (it is still loaded if the task exists with a warning or failure status).
DB2	81020		Schema handling corrected for RED Application creates
Oracle	81022		Corrected versioning in split repository models
Teradata	81022		Linux Scheduler supported
SQLServer	81022		Improved server identification in Administrator
DB2	81022		Application loads now allow for automatic reorg of altered tables
	81024	RED-1040	Non Empty Behaviour field now passed to Analysis Services
Teradata	81024		Table validation using DBC.TVM and DBC.Dbase now uses LOCK ROW FOR ACCESS
DB2	81028		Import of cube now completes successfully

Common	81124	RED-1075	New dialogs for maintaining projects objects.
Teradata	81124	RED-1044	insert into ws_retrofit_tab fails on 6.0.2 when following Teradata tutorial.
Common	81124	RED-1059	Added menu / application key usage to bring up context menu via keyboard.
SQLServer	81124	RED-1064	Change detections fields are now AND'ed instead of OR'ed for normalized objects.
SQLServer	81124	RED-1065	date issues on change detected records for normalized objects.
SQLServer	81124	RED-1068	Functions of type SQL_INLINE_TABLE_VALUED_FUNCTION and SQL_TABLE_VALUED_FUNCTION are not recognized.
Common	81124	RED-1069	Now use table short name if table name is too long in scheduler using a 'process' in UI.
Common	81124	RED-1070	Admin password were not hidden on connection properties when set in Tools Options Hide.
SQLServer	81124	RED-1071	Parameters were limited to 28 chars the generated code.
Common	81124	RED-1067	Parameters were being truncated during use of import functionality.
Common	81124	RED-1074	If add project when in a project, default to have it included in that project.
SQLServer	81124	RED-1031	Parameters were limited to first 28 chars in the generated code.
Common	81124	RED-1039	Now possible to multi select tasks of same type to change action.
Common	81125		Export options field has been re-enabled.
Common	81126	RED-0734	New checkbox on connection properties to specify which connection is the data warehouse.
Teradata	81126		Native loads now calculate the number of amps correctly.
Teradata	81126		Native loads now correctly report file action failures.
Teradata	81126		History tables now consistently use v_current_timestamp.
Teradata	81126		Stage table update procedures now remember date to use for history table key lookups.
Teradata	81126		Missing METABASE database names added to Ws_Maintain_Indexes.
Teradata	81126	RED-0779	Surrogate keys columns where not always showing the source stage table as the column source on model tables.

Teradata	81126	RED-0925	History tables now cater for DATE data types for start and end dates.
Teradata	81126	RED-0926	Permanent stage tables no longer show a dialog box on regenerate of update procedure.
Teradata	81126	RED-1000	History tables now correctly update non change detect fields and flip flopping records.
Common	81201	RED-1034	Application attributes defaulted when base of old application used.
Common	81201	RED-1051	All messages now logged to application load log file while loading an application.
Common	81201	RED-1067	Applications now handle long parameter names.
Common	81201	RED-1048	New menu shortcut for stage tables to link to report on 0 key joins
Teradata	81201	RED-1082	Adding tasks on a job and not choosing to recalculate dependencies no longer throws an error.
Common	81208		Change of != to ANSI standard <> in some meta data queries.
Common	81208		User column documentation no longer display source detail
DB2	81212		Native loads from oracle now handle date format.
DB2	81212		Updated data type conversion handling for load going from non DB2 to DB2.
Common	81212		Adding single columns to existing load from Access, Excel or file source now works correctly.
DB2	81219		View object introduced.
Oracle	81219		View object introduced.
SQLServer	81219		View object introduced.
Common	81224		Diagram selection now only lists valid objects, also some changes to the hops / join diagram to ensure all joins included.
Common	81224	RED-1092	A warning level test is now performed for application loads to check that the file has not varied from being Unicode.
Common	81229	RED-1085	Creating a new object from version now uses the short name as completed in initial dialog.
Common	81229		View objects now have their short name validated for uniqueness.
Common	81230		Refined not null support in generated code for DS / Normal objects.
DB2	90105		View objects enabled in scheduler.

Oracle	90105		View objects enabled in scheduler.
SQLServer	90105		View objects enabled in scheduler.
Common	90105		Application build changed to correctly handle views.
Common	90105		Project object maintenance changed to correctly handle views.
Common	90119		Modifying a views columns now updates the metadata to reflect the date of change.
Common	90119		Transformation tab for view columns now contains source table columns in the tree.
Common	90119		Adding a new view will now test for short name uniqueness.
Common	90120		Impact of change reports now takes into account previously missing objects such as views, exports etc.
Common	90121	RED-1097	A warning level test is now performed for application loads to check that the file has not varied from being Unicode.
Teradata	90122		Change to scheduler for Teradata HOUR part bug introduced by Teradata in V2R6.2.
Teradata	90123	RED-1099	New option in model code generation to update changed rows only
Oracle	90129	RED-1101	Handle long business names in file based exports via scheduler.
SQLServer	90129	RED-1101	Handle long business names in file based exports via scheduler.
Oracle	90129	RED-1103	Remove surplus delimiter on header line in file based exports via scheduler.
SQLServer	90129	RED-1106	Ensure column alias added to header line for file based exports via scheduler.
DB2	90129		Generated dimension update procedure was missing ; when setting zero key values on numeric fields.
Teradata	90130		Can now specify one date column in the start / end date dialog for a driving date in History tables.
Teradata	90202		Windows scheduler now uses bteq to load the detail log for file loads and script loads.
Oracle	90203	RED-1094	Oracle native load now uses connect detail from connection rather than from ODBC due to inconsistency in Oracle versions.
Common	90204		Creating a new version now ok if enter a quote in the version comments or description.
Common	90205	RED-1108	Now able to change just the case of a hierarchy name associated with a dimension.

Common	90205	RED-1109	Native loads no longer fail when run via the UI when have a space in the work directory location.
Common	90205		Changes made to windows scheduler to minimize chance of jobs getting stuck in Pending state.
SQLServer	90205		Changes made to job check to minimize chance of jobs getting stuck in Pending state.
Oracle	90205		Changing dimensions to slowly changing now construct correct initialization setting if modified version name.
Common	90209	RED-1110	Now possible to rename an Export Object.
Common	90209	RED-1111	Converting retro objects presets new object sub type to nothing.
Common	90209		Viewing list of objects in middle pane defaults sub type if not already set (still blank if invalid).
DB2	90209		Native loader corrected to use provided user / password when available. Previously not passing password correctly.
Common	90212	RED-1116	ODBC load via RED changed to align with scheduler to handle source columns containing quotes.
SQLServer	90212	RED-1118	Partitioned fact table was analyzing the full fact table rather than the partition.
Common	90212	RED-1117	Building an application from an existing one now reports on objects that no longer exist.
Common	90216	RED-1120	Source browser now enables viewing indexes for Progress databases
Common	90219		Corrected application build bug of beta 6.0.2.3
Common	90223		Tutorials moved to separate help document and menu option
Common	90302	RED-1127	Allow select multiple cubes to create, process (distinct jobs) or update. Also allow other multiple actions in middle pane.
Common	90302	RED-1126	Information message for incorrect user / password when servicing the scheduling account now shows user id provided only.
Common	90304	RED-1132	Cube item list headings corrected.
DB2	90304	RED-1133	Error resulting in message when displaying properties of measure on a virtual cube corrected.
Common	90304		Enabled Regeneration option on Data Store objects.
Common	90304		Corrected inconsistent effect of 'View->lastsql' menu option.
DB2	90305	RED-1136	Error resulting in message when adding a new virtual dimension.

Common	90305		Ensure line numbers start at 1 for all default procedures loaded on initial create of repository.
Common	90306	RED-1137	Note tab headings corrected for Export and Cube objects.
DB2	90309		Corrected references to database to be Table space.
Common	90316		Change to windows scheduler to prevent truncation of select statement for native loads with parameter substitution.
DB2	90317	RED-1146	Column comments now truncated to 250 characters to avoid db2 error.
DB2	90317	RED-1147	Issue with index generation when select join field as part of business key on fact resolved.
Common	90317	RED-1142	Using right mouse in "Drop target pane" (middle) now does an implied select of the row the mouse is over.
Common	90317		Retrofitting multiple objects at same time had potential to clash on short name generation.
Common	90317	RED-1149	Retrofit conversion of multiple objects, on finding issue such as short name, resulted in a loop.
Common	90318	RED-1154	Audit log now prompts at 5000 row intervals to continue, previously halted at 1000.
SQLServer	90318		Checking added to handle incomplete procedure transactions.
Oracle	90323		Corrected issue with multi-line transformations.
Oracle	90323		Auto create of sequence (short name + "_seq") for Data Store and Normal if table has artificial column.
Common	90323	RED-1157	Post load / export procedures now created correctly after earlier procedure generations.
Common	90324	RED-1159	Validate object limits extended.
Common	90325		Corrected column source track report for DS / Normal objects.
Common	90330		Fixed issue with view object enablement in tools / options.
Teradata	90330		Re-enabled parameter file for scheduler loads.
DB2	90401		Corrected unix / linux scheduler script that had issue with generating call to wswrkaudit.
DB2	90403	RED-1180	Linux scheduler changed to batch up the audit message inserts for Linux scheduler load / export.
Common	90406	RED-1177	View create now updates the meta tables to set the created dates.
Common	90406	RED-1164	Validation of table name length is now performed.

Oracle	90406	RED-117?	Enabled global 'non partitioned' indexes on partitioned fact tables with warning that must set for drop before update.
Common	90415		Corrected icon in middle pane for DS / Normal objects when dbl click left pane group.
Common	90415	RED-1178	Column default values no longer default inclusion of surrounding quotes, this is to allow for function entries etc.
SQLServer	90416		Additional workflow wait locking added to further reduce possibility of deadlocks.
Oracle	90416	RED-1181	Ensure not null is placed after the default column setting in table creates.
Common	90416	RED-1172	The update and process menu options for views have been disabled for non Teradata repositories.
Common	90416		Storage tab for export object properties removed for non Teradata repositories.
Oracle	90417	RED-1182	Application loads were losing related procedures for DS, Normal, View and Export objects.
Common	90418	RED-0953	Dialog "New(from version)" enhanced to allow sorting and object type selection. Other minor cosmetic changes also made.
DB2	90421		Fix to scheduler for child jobs that resulted in string function error.
DB2	90422		Corrected mapping for SQLServer data type nVarchar to transform to varchar.
Common	90429		Performance improvements in "Search for string" report, when procedures or scripts selected.
SQLServer	90501		Removal of orphaned ws_wrk_dependency records for once only jobs.
Common	90501	RED-1190	Fix for connections being left open on certain modification (data type or name) of columns.
DB2	90501		Changes to handle different db2 v9.7 handling of CHAR() function.
DB2	90501	RED-1186	Changes to date handling within scheduler.
Common	90505	RED-1188	Handle SQLServer max data types (varchar and nvarchar)
DB2	90506		Minor correction to unix / linux scheduler script file ws_job_check_600.sh
Teradata	90506		Minor correction to unix / linux scheduler script file ws_job_check_600.sh

Oracle	90506	RED-1197	Native load with clob target defaults to set char(50000) as type in sqlloader statement.
Common	90506		SQL Admin batch and file output mode now handle column sizes up to 50000 rather than previous 256.
Common	90506		Native load now handle column sizes up to 50000 rather than previous 256.
Common	90511		Pasting into SQL Admin now retains any carriage returns.
Common	90511		Include expiring code for history type DS / Normal objects even if no update requested.
SQLServer	90511		Additional checks to ensure job not fired > 1 time when have multiple schedulers.
DB2	90511		Additional checks to ensure job not fired > 1 time when have multiple schedulers.
Common	90511		Host that the windows scheduler is running on is now available with scheduler status pane.
Common	90512		Correction to update of table_join info when alter a column name.
Common	90513	Issue	Re-target no longer alters 'ancillary' columns.
DB2	90520		Fix to scheduler to prevent the same task being run multiple times in a job.
Common	90520		Application loads now recognize Data Store and Normalized objects.
Common	90520		Application loads now handle change to default value requirements changes in RED for issue 1178.
DB2	90520		Scheduler procedures now protected.
Common	90521	RED-1196	Added support to display MySql indexes in DBA.
DB2	90525		Change to Unix scheduler to fix issue with high CPU utilization.
SQLServer	90525	RED-0683	Added functionality for Include columns on indexes.
Common	90526	RED-1198	Windows scheduler has reduced delay in releasing jobs when multiple jobs available for release.
DB2	90529		Changes to scheduler to trap where no work directory defined for script processing.
Common	90529		Prompt now appears when use the 'Del' key to delete column(s) from middle pane to prevent accidental delete.
Teradata	90602	Issue	History table code generation, where RED is putting :: in front of v_current_timestamp.

DB2	90602		Now handles spaces in the name of jobs running via the Unix / Linux scheduler.
SQLServer	90603		SQLServer load objects now have option 'hints' field.
SQLServer	90604		Partitioned table with truncate option selected now correctly truncates each partition processed. Previously truncated entire table.
Common	90605	Issue	Double click in meta browser enables object properties as appropriate.
Common	90605	Issue	Report for columns with no comments extended to data store and normalized objects.
Common	90608	RED-1170	After successfully creating a new object from version, the middle pane is refreshed to show new object columns.
SQLServer	90608	RED-1200	Application loads no longer default modified_date etc to 1900-01-01.
Common	90609	Issue	Reports for table and columns with no comments only looks at objects flagged as end-user enabled.
Common	90610		Updated generated documentation.
SQLServer	90612		Renumber (Alt-Z) of procedure steps re-enabled.
Common	90615		Windows scheduler on not finding active job returns more specific message.
SQLServer	90616		Corrected error for SQL2000 meta validate resulting in 'fetch catalog' error.
Common	90616		Script saves were trying to go to disk when had elected for procedure version to go to disk result 'Parameter incorrect' error msg.
Common	90618	RED-1203	Tighter control over jobs that enter blocked state to ensure don't provide excessive warning messages.
Common	90618		Tighter control over task threads not finding active job to ensure don't provide excessive warning messages.
DB2	90618		Jobs were not handling blocking runs resulting in multiple iterations of same job at same time.
Common	90618		New right mouse option to view object HTML documentation.
Common	90618		New right mouse option to refresh object HTML documentation.
Oracle	90619	RED-1131	Corrected scheduler index building which was missing buffer pool settings.
Oracle	90619	RED-1151	Corrected scheduler, application load and RED primary index building which was missing parallel degree and nologging.

Teradata	90622	RED-1192	Scheduler was reporting negative elapsed time for jobs / tasks in certain cases.
Common	90622		Local documentation path now configurable via tools / options / documentation.
Common	90629	Issue	Manually altering a running state job will produce audit message detailing what / who.
Common	90630	RED-1202	Generated HTML documentation now includes start time and frequency and custom dates and times for jobs.
DB2	90630		Staging now has the option to insert with minimal logging.
SQLServer	90701		Stage, Normalized, Data store and Fact objects now have option field for 'hints' in set based inserts.
Common	90701		Scheduler window (and stand alone scheduler maintenance) now have ability to create / view object documentation.
Common	90703		Stage procedure builds now default to have the last build type selected.
Common	90705		4K limit for SQL statement of native ODBC clause in scheduler extended, and additional tidy-up of parameter replace made.
DB2	90706		Correction to scheduler scripts (attain job key) when thread wait required.
Teradata	90706		Correction to scheduler scripts (attain job key) when thread wait required.
DB2	90706		Fixed lock timeout setting in scheduler procedures.
Common	90707		Changes to dialog to set defaults for new 'custom' job.
Common	90713	RED-1204	Dialog changes to business / change key dialogs to remove columns from available list when selected.
Common	90713	Issue	New ODBC load definitions default to have an AFTER action to delete all work files.
DB2	90714		Better identification of jobs that need aborting via Unix scheduler.
SQLServer	90723		Corrected issue where no jobs released if find a waiting job for a specific scheduler that is inactive.
SQLServer	90723		Change to include missing END for SQL2000 code generation for DataStore and Normalized objects.
Common	90727		Increased size of task dependency dialog.
Common	90727		Corrected issue with new dimension views using incorrect prefix after having gone to tools / options.

Common	90727	RED-1217	Trigger file parameter loading of windows files via script were not using provided delimiter.
Oracle	90730		Last column header missing for exports of type windows file, and also from the scripts for script based unix or windows.
DB2	90730		Handling for changed timestamp format between version 9.7 and prior versions.
DB2	90730		Test cycles for latest DB2 version (9.7) completed.
Oracle	90730		Fix to API ws_job_clear_archive to correct calculate delete date when no job name provided.
DB2	90804		Minimal logging options implemented for load,stage and fact inserts.
DB2	90805	RED-1218	Generated update statement for converting to SC Dim was not using altered defaults dss fields.
SQLServer	90805	RED-1218	Generated update statement for converting to SC Dim was not using altered defaults dss fields.
Common	90805		Altering DataStore or Normalized Object to History now also sets the default start / end dates.
DB2	90805		Unix File Loads where failing in the scheduler intermittently if had load modifiers.
DB2	90805		Unix jobs were incorrectly being identified as not running under linux / unix.
Common	90805		Datastore and Normalized were not setting default source FROM clause when majority of columns had no source table.
Common	90806	Issue	Attempt to create a new cube traps invalid source tables for dimensions and provides a message.
Teradata	90901		Enabled parameter conversion on presql for load objects.
Common	90901		Corrected build from prior beta that had include file issues resulting in side by side install error message.
DB2	90813	RED-1235	Native loads not always correctly identifying source as DB2
DB2	90813	RED-1236	Fixed Dimension GetKey code when short columnnames
SQLServer	90813	RED-1236	Fixed Dimension GetKey code when short columnnames
Oracle	90817	RED-1232	Script load detail messages now have correct icon depending on overall status when run via RED.
DB2	90820	RED-1226	Calls to Ws_Job_Schedule no longer truncate the datetime in the return message.
Common	90820	RED-1249	Quotes in column source now handled correctly.

Common	90903	RED-1260	Windows scheduler now correctly releases source odbc connections when fail in select.
Common	90904	RED-1266	Effect of hitting enter key in middle pane now same as double click.
Common	90908	RED-1268	Quotes in business description for adding a new column now handled correctly.
Common	90909	RED-1270	Table validate(in RED) and application load now handle spaces before (such as for varchar (nnn).
DB2	90910	RED-1274	Load objects now ok if source table name contains a comma.
SQLServer	90910	RED-1274	Load objects now ok if source table name contains a comma.
DB2	90910	RED-1276	Aggregate generation no longer misses the GROUP BY when all additive fields have transformations.
Oracle	90910	RED-1276	Aggregate generation no longer misses the GROUP BY when all additive fields have transformations.
SQLServer	90910	RED-1276	Aggregate generation no longer misses the GROUP BY when all additive fields have transformations.
SQLServer	90910	RED-1277	Fixed intermittent "invalid argument" error encountered when view properties of indexes with include columns.
DB2	90914	RED-1281	Minimal Logged Set Merge now has correct counts and valid result cursor names.
DB2	90914	RED-1283	Minimal Logged stage procedures now include DISTINCT option if selected.
Teradata	90914	RED-1285	Procedures ws_job_abort, ws_job_check, ws_job_dependency and ws_maintain_table now included in teradata procedure distribution.
SQLServer	90917	RED-1288	Tightened checking for Index existence when drop / build Index scheduled task.
Common	90921	RED-1293	Removed erroneous message when duplicate column name encountered during drag / drop.
Common	90923	RED-1298	Convert for retro now works correctly when select multiple objects to convert.
Common	90924	RED-1303	Quotes in dimension hierarchy descriptions now handled correctly.
Oracle	90924	RED-1304	Corrected update code generation for DS / 3NF objects in Oracle.
Common	90924	RED-1305	Unload / Load across repository types now handles DS / Normal objects correct.

Common	90925	RED-1272	Can now move from column property to next and prior using ALT + arrow key
Common	90925	RED-1297	Generated stored procedure header now included generation time and RED version.
Common	90925	RED-1287	Removed superfluous check code for DS and 3NF object insert code using Not Exists option.
Oracle	90925	RED-1296	Building an index in the scheduler for a table with a very large number of partitions no longer generates an error.
SQLServer	90928	RED-1309	Fixed issue with non us standard date format for SQLServer scheduler.
DB2	91002	RED-1312	Corrected intermittent issue with DB2 procedure Generation resulting in 0 code lines in meta.
SQLServer	91009	RED-1317	Change to improve performance and reduce lock risk during drag / drop functionality.
Common	91016	RED-1308	Application loads now handle connections in export objects.
Common	91016	RED-1269	Procedure Save and Version, and Script Save and Save and Version now disabled when in Read Only mode.
Common	91016	RED-1263	New Diagram View menu Tools added which includes Launch Dependency Editor.
Common	91016	RED-1264	New Diagram View menu Tools added which includes Refresh Diagram (F5).
Common	91016	RED-795	New Diagram View menu Tools added which includes Create Job.
SQLServer	91016	RED-1248	Alter table functionality has been enhanced to drop the default value constraint if required.
Common	91016	RED-676	Column lists in the RED generated html documentation can now be sorted on business (display) names.
Common	91019	RED-1322	RED no longer maximizes at logon time.
Common	91020	RED-1323	Data Store and Normalized objects added to tools table validate option.
Common	91020	RED-1331	Source Browser column display reformatted and now also displays nullability for columns.
Common	91020	RED-1332	Entry screens for 'code type' fields to use same font as procedure editor where appropriate.
SQLServer	91021	RED-1328	Fill factor for index storage setting now allows full range 0-100 rather than previous 0-99.
Common	91021	RED-1339	Fixed potential performance issue of Native Loads introduced in 6.0.5.0

Common	91028	RED-1342	Creating a new procedure or script now handles quotes in the purpose field.
Common	91029	RED-1344	Reorganization of right mouse menu options to make procedure execute and process options clearer.
Common	91030	RED-1347	Index column selection dialog change to how multi select occurs to be more standard.
Common	91030	RED-1347	Index column selection dialog now persists selection when moving order up / down.
Common	91030	RED-1347	Index column selection dialog now removes all selected fields in single pass.
SQLServer	91030	RED-1329	New options for index builds added.
SQLServer	91105	RED-1355	Fixed issue with restart of failed child jobs.
SQLServer	91116	RED-1341	Removed 'space' documentation for views.
Teradata	91116	RED-1340	Documentation failure has been resolved.
SQLServer	91116	RED-1336	SQLServer indexes in the Repository Compare will now test non-include column indexes followed by include column indexes.
Common	91116	RED-1321	Procedure or script associations can now be dropped from their table objects in an application load.
Common	91116	RED-1320	Setup Administrator Scheduler Maintenance listing now contains DSN, Scheduler name, log level and metabase.
Common	91116	RED-0861	Cube OLAP Database name is now included in application loads.
Common	91116		WhereScape RED has been certified as 'Compatible with Windows 7'.
Common	91207	RED-1376	Make WhereClause wider to cater for new default non proportional font
Oracle	100113	RED-1394	Corrected for possible loop when loading from SQLServer unload to Oracle repository
Common	100120	RED-1401	Column comments now included when retrofit multiple tables.
Common	100128	RED-1393	Fixed issue in Generated Documentation when jobs contained over 500 tasks
Common	100202	RED-1381	Now possible to copy RED parameters.
Common	100202	RED-1379	Generate procedure for an object when none previously now correctly associates new procedure to object.
Common	100202	RED-1417	Right mouse 'regen' procedure now performs rebuild to ask questions if not done so previously.
Common	100203	RED-1419	Change to dialog behaviour of 'table join' definition dialog.

Common	100203	RED-1421	When adding a new object (or moving) now set the focus to the new / moved object in the tree.
Common	100204	RED-1418	New right mouse option to perform Rebuild of update procedure.
Common	100209	RED-1431	Fix for connections being left open during repeated stage procedure rebuilds.
DB2	100212		Will now use new TRUNCATE option as a default

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