



WHERESCAPE RED RELEASE NOTES

6.8.5.0

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WHEREscape RED 6.8.5.0 JANUARY RELEASE UPDATE

JANUARY 2016

WhereScape is pleased to announce that the WhereScape RED 6.8.5.0 is now available.

UPGRADING TO VERSION 6.8.5.0

To upgrade to version 6.8.5.0, login to <http://www.wherescape.com> to download RED from the downloads page in the **Support** section.

A full list of WhereScape RED's previous release notes is also available for download on the website.

Upgrading: when upgrading from previous versions of RED, it is necessary to update each RED metadata repository to complete the upgrade. This is done by completing a **validate and recompile of all metadata procedures** in WhereScape Administrator.

Please see all Important Messages that are relevant for your RED Upgrade below.

IMPORTANT MESSAGES

1) **APL users:** All APL XML functionality has been migrated into Setup Administrator, including importing models from WhereScape 3D.

2) **Changes in the RED Generated HTML Documentation for customers with custom banners.** Please see detailed information about these changes in this release notes document.

3) For **UNIX/Linux exports and loads** in versions after 6.8.2.0, the logic used for defining the SID value for connecting to the repository has been modified. If the ORACLE_SID environment variable is set in your Unix/Linux environment, this will be the variable used. If this environment variable is not set then the value from the Linux/Unix connection object will be used.

4) The **Linux Scheduler scripts for Oracle, Teradata and DB2** have been altered and will need to be manually applied.

5) There have been changes made to the WhereScape RED Target Licenses and customers with those licenses will need to have their licenses re-issued.

Please contact your WhereScape Sales Representative or email sales@wherescape.com.

Kind Regards,

WhereScape RED Team

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

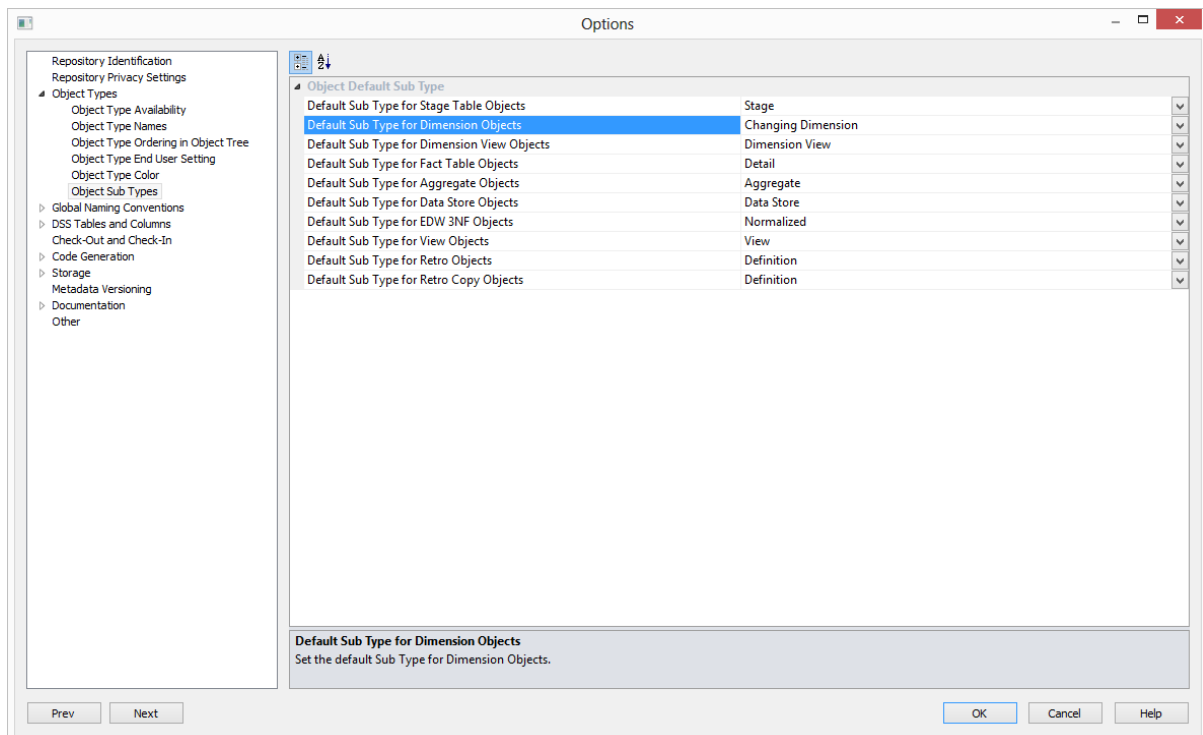
- 1 WhereScape RED now supports Teradata 15.10 as a data warehouse database
- 2 WhereScape RED certified for PDW AU4 upgrade
- 3 Azure SQL Database enabled as a new Metadata Repository/Data Warehouse
- 4 Flat file loads into PDW using dloader
- 5 For Teradata TPT script-based loads from files, the check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

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.

Dimension Type

Four methods are provided for managing dimensions. Please select the desired method.

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.

Dimension dim_customer_changing

Properties

Storage

Override Create DDL

Language Mapping

Purpose

Concept

Grain

Examples

Usage

Notes

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:

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.

The screenshot shows a configuration window titled "Olap Dimension Attribute odim_order_date.dim_order_date_key". The window has a sidebar on the left with "Properties" selected. The main area contains the following fields:

- Dimension Name: odim_order_date
- Internal Attribute Name: dim_order_date_key
- 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: (empty)
- Order By: Key
- Order By Attribute: (empty)
- Type: Regular
- Usage: Key
- Key Column: dim_order_date
- Name Column: dim_order_date
- Value Column: order_date

Buttons for "<- Update", "Update ->", "OK", "Cancel", and "Help" are visible at the bottom.

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:

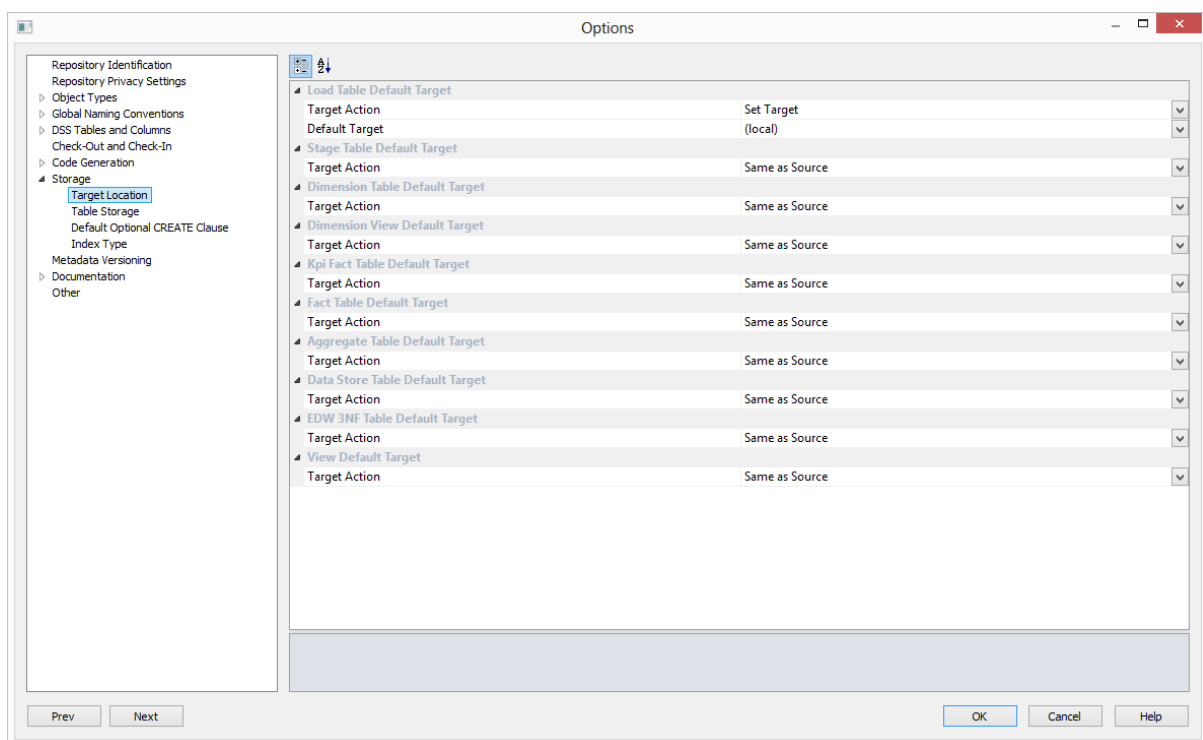
- Internal Dimension Name: Order_Date
- Dimension Publish Name: dim_order_date
- Dimension Description: Use this date dimension to track when the orders are coming in and determine the sales rep commission
- Default Database Connection: SSAS Cubes
- OLAP Database Name: OrderAnalysis
- Data Source Connection: 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

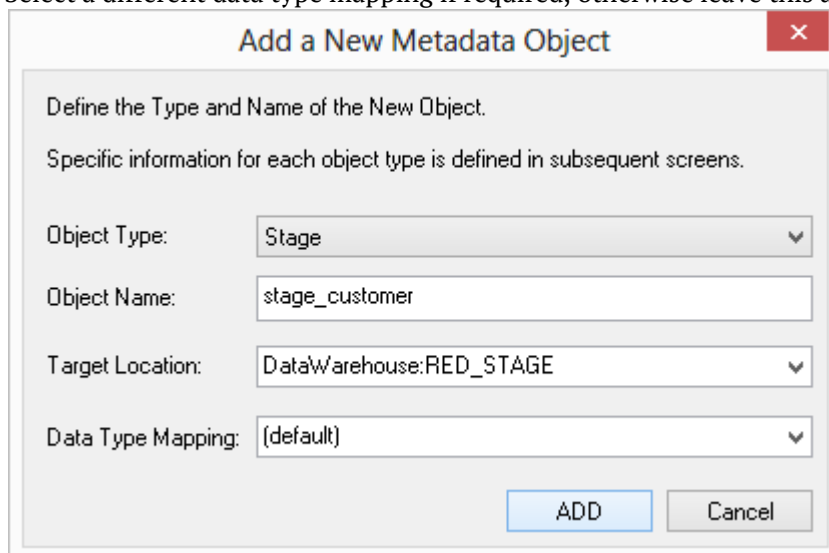
A default target can only be entered if the **Set Target** action has been selected in the Target Action drop-down list.

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).



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: Stage [v]

Object Name: stage_customer

Target Location: DataWarehouse:RED_STAGE [v]

Data Type Mapping: (default) [v]

[ADD] [Cancel]

3. 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 6.8.5.0, 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
1007,223,00,629.53,2010-08-13 00:00:00
```

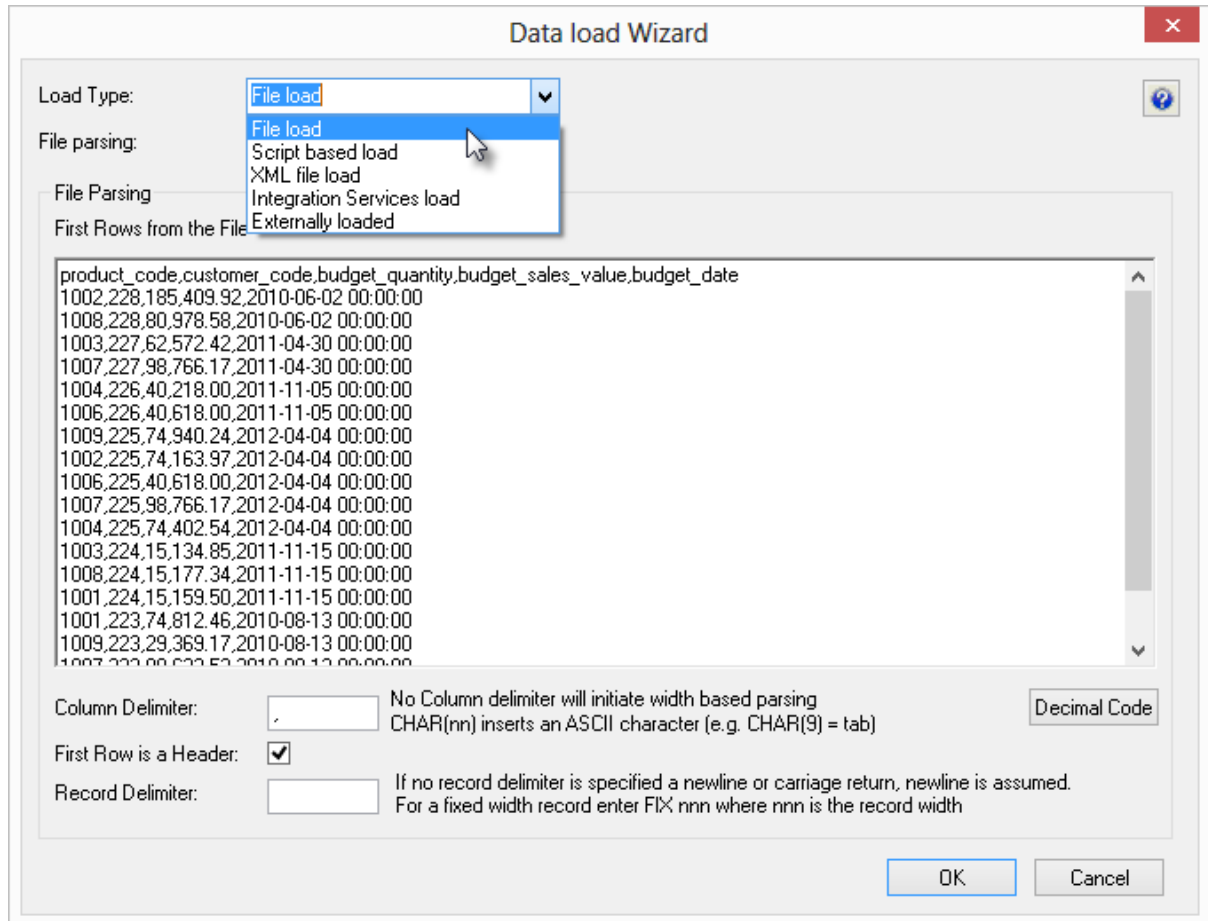
Column Delimiter: , No Column delimiter will initiate width based parsing
CHAR(nn) inserts an ASCII character (e.g. CHAR(9) = tab) Decimal Code

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

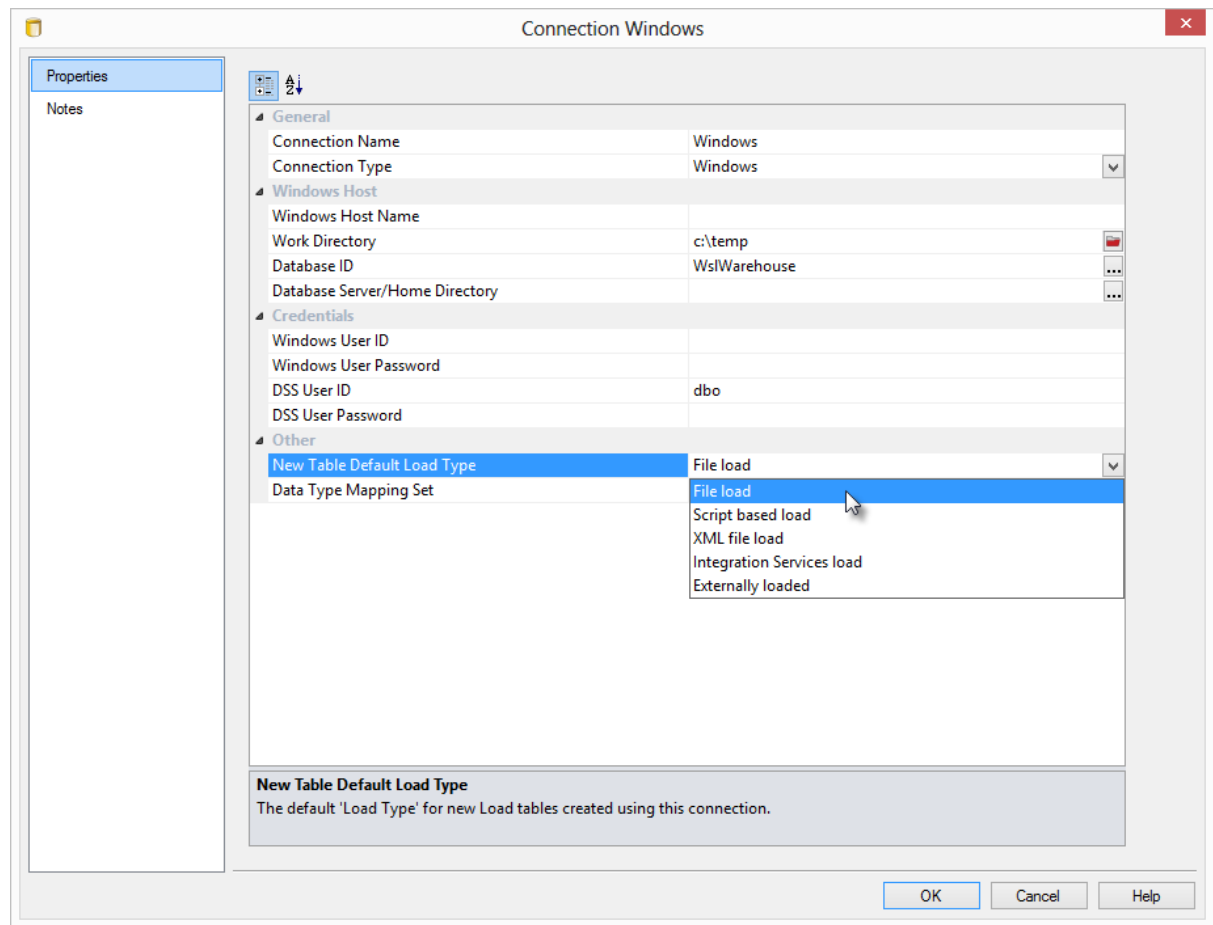
OK Cancel

- 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

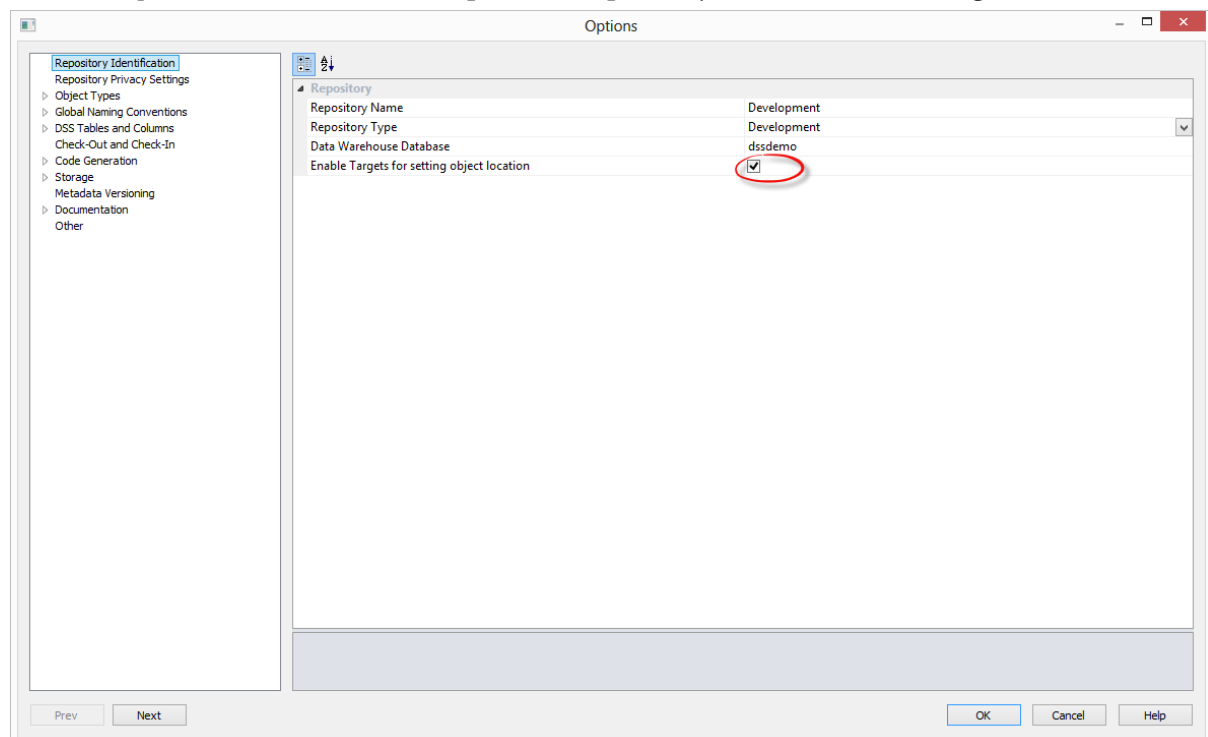
RED 6.8.5.0 introduces "targets" on connections for Teradata Data Warehouses. This new feature allows the user to define the database storage for a table on a connection level enabling simpler handling of deployments and database storage changes.

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

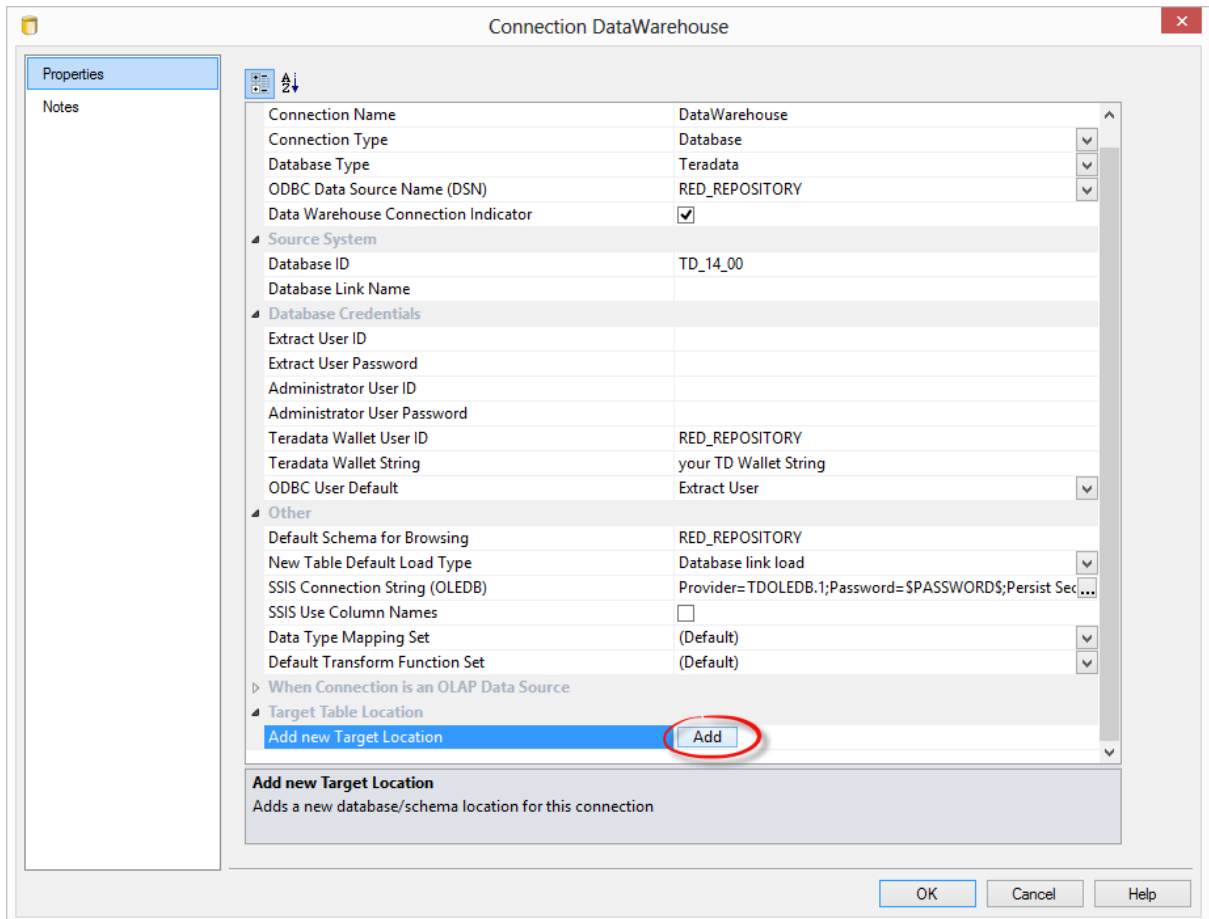
- Ensure the relevant target databases exist in Teradata. Create any databases that do not exist.
- Set the **Enable Targets for setting object location** option in the RED Repository Identification options.
- Add one or more target locations to the Data Warehouse connection in RED for each database 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:

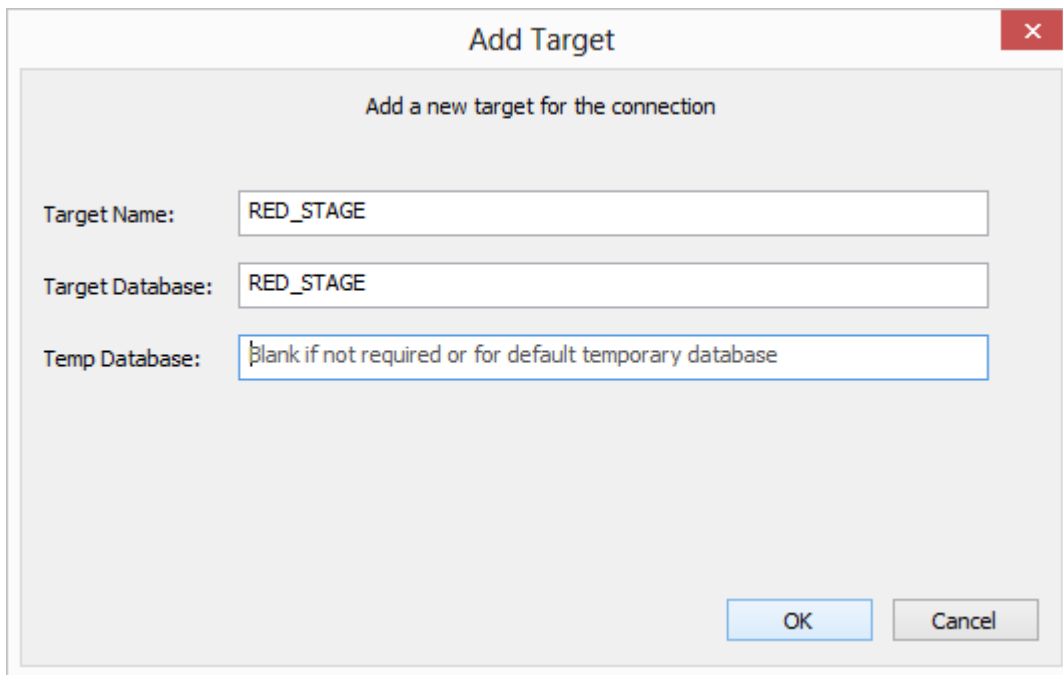
- 1 After logging in to WhereScape RED, make sure the **Enable Targets for setting object location** option is set in the **Tools->Options->Repository Identification** settings.



- 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 [X]

Add a new target for the connection

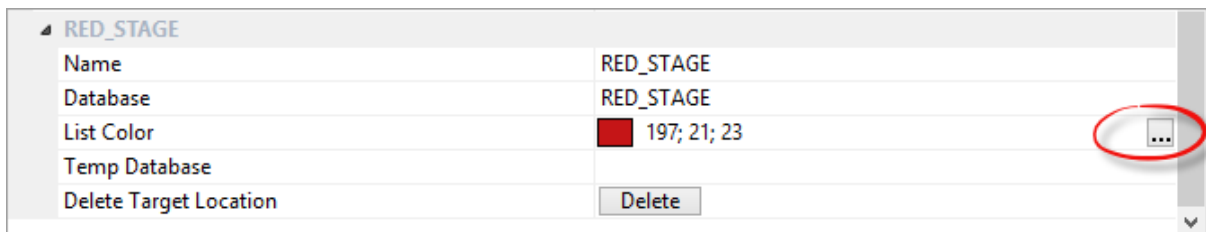
Target Name: RED_STAGE


Target Database: RED_STAGE

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

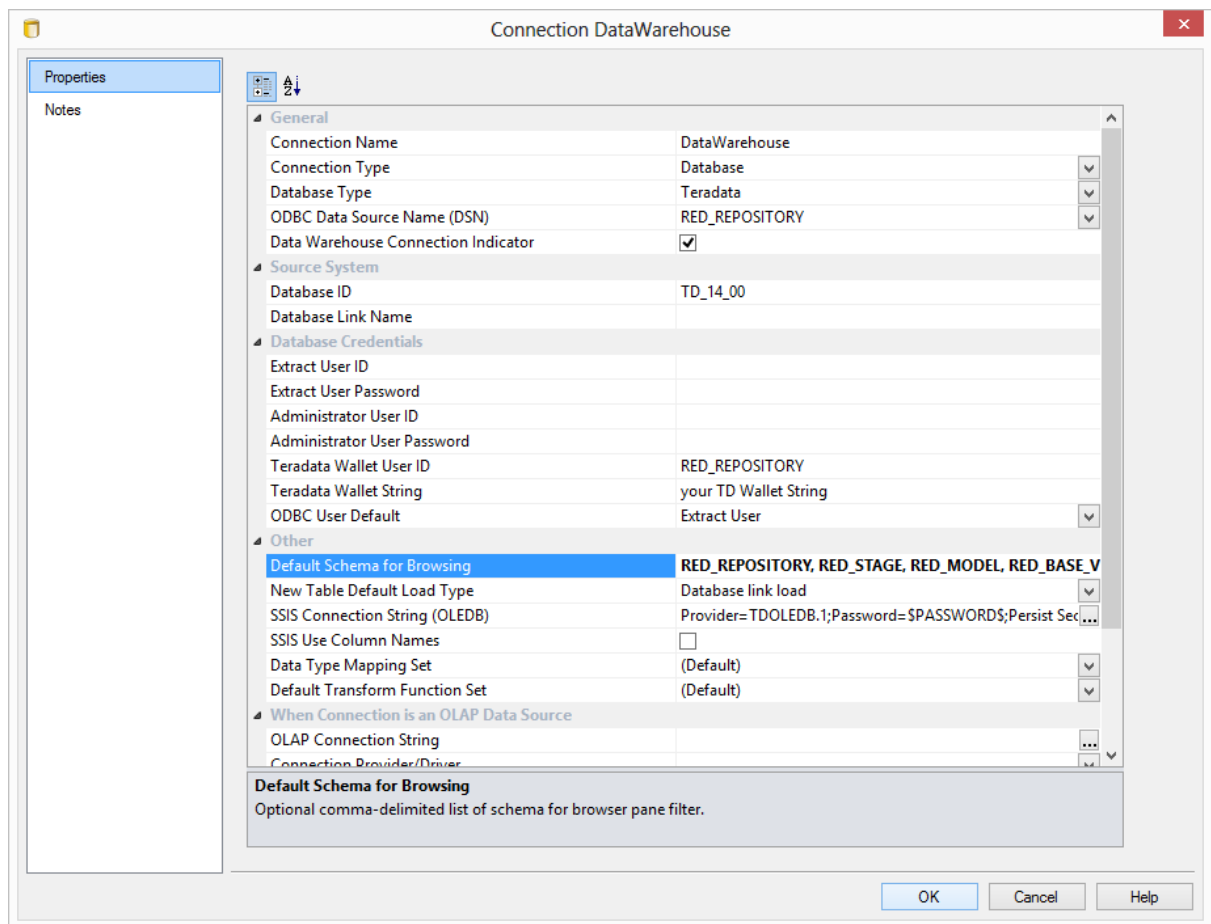
OK Cancel

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



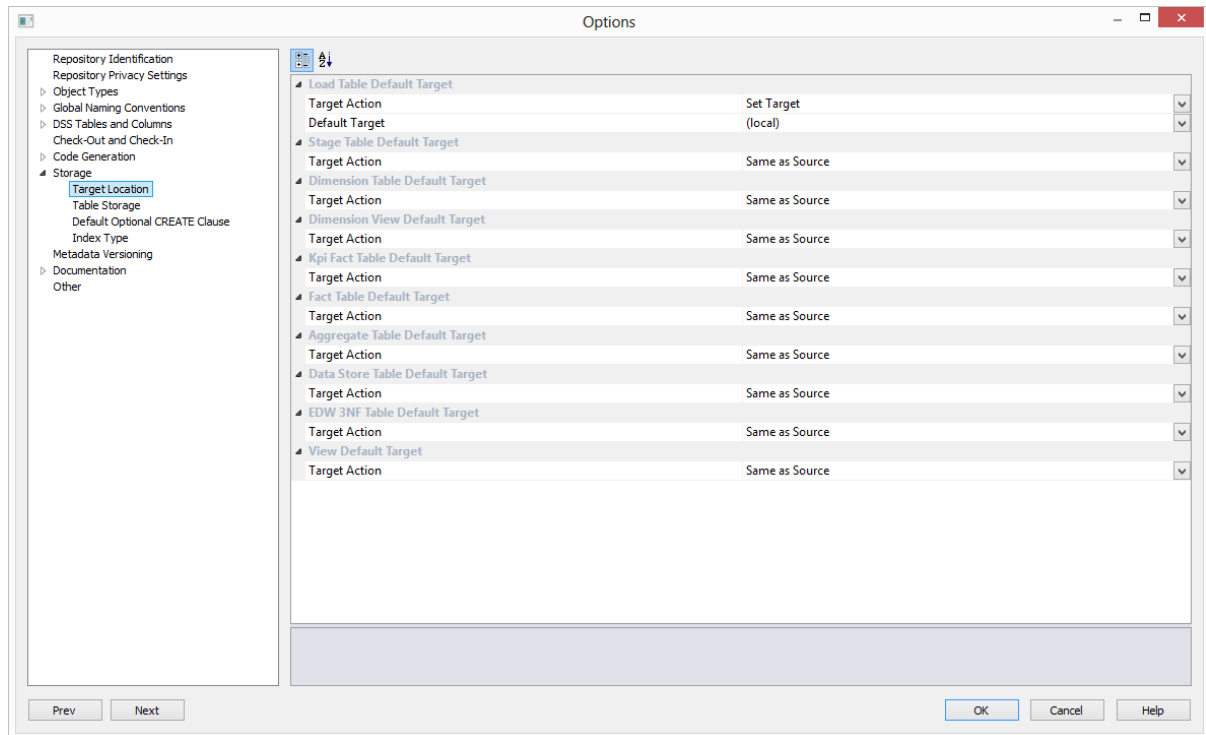
| RED_STAGE | |
|------------------------|-------------------------------------------------------------------------------------------------|
| Name | RED_STAGE |
| Database | RED_STAGE |
| List Color |  197; 21; 23 |
| Temp Database | |
| Delete Target Location | Delete |

- 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.

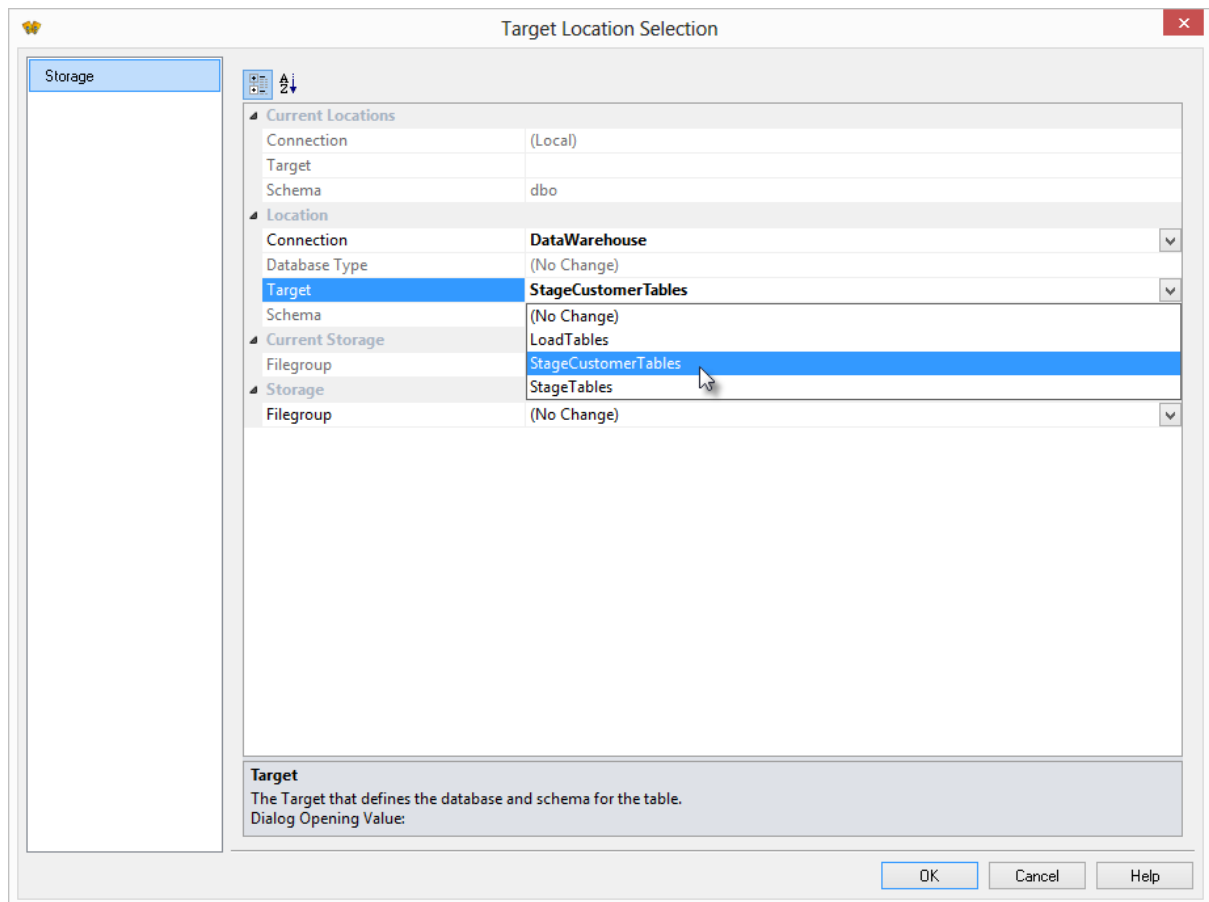
- 6 You are also able to set the default target location for **New Tables** in **Tools/Options**. This default target location is only applied when a new table is created, not for existing tables.
- Select between the **Set Target** option to set a default target location for new tables (or to use the 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.

- 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.

CHANGES IN THE RED GENERATED HTML DOCUMENTATION FOR CUSTOMERS WITH CUSTOM BANNERS

The RED Generated Documentation is now using different images with different sizing. The format of the company_logo.jpg image has also been changed from .jpg to .png. Customers that have created their own banners will need to resize the images according to the table below and also convert the company_logo.jpg image to .png. The new .png files can be found in the WhereScape RED DocImages installer folder.

| Previous Image File | New Image File | Action(s) required |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1. company_logo.jpg (528 x 108) has been replaced by: | C:\Program Files (x86)\WhereScape\DocImages\company_logo.png new image size: (408 x 134) | company_logo.jpg needs to be converted to company_logo.png and resized . |
| 2. poweredbyred.png (331 x 100) has been replaced by: | C:\Program Files (x86)\WhereScape\DocImages\poweredbyred.png new image size: (415 x 134) | poweredbyred.png needs to be resized . |

DETAILED LIST OF CHANGES FOR 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. |

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| 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). |

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| 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. |

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| 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. |