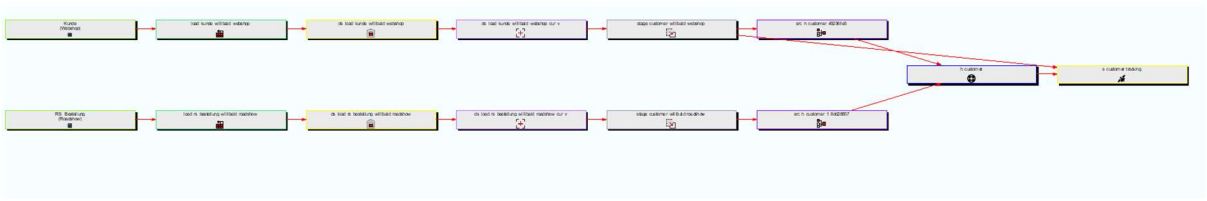
16. Data Lineage

WhereScape RED includes the ability to document the data warehouse based on the information stored against the metadata for all the tables and columns in the data warehouse. All business definitions, descriptions, data transformations, data lineage and scripts related to all tables and columns will be visible to end users as HTML or word document.

Visual Data Lineage diagrams can also be generated within WhereScape RED.

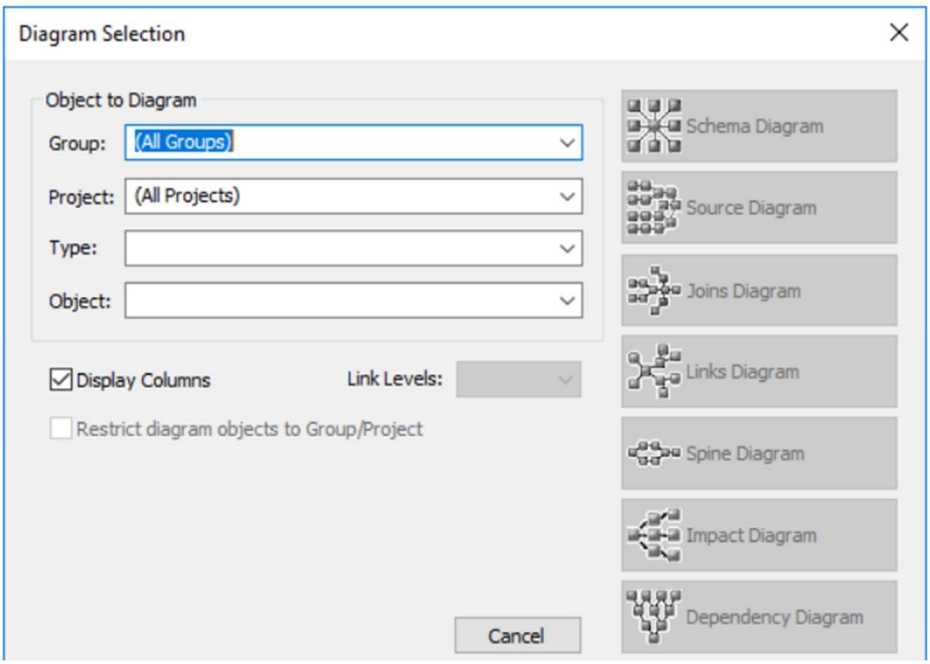


Types of Diagrams

Six types of diagrams are provided to give visual representation of what has been created. These are

- The **Schema Diagram**
- The **Source Diagram**
- The **Joins Diagram**
- The **Links Diagram**
- The **Impact Diagram**
- The **Dependency Diagram**

1. To display the **Diagram Selection** window, click the New Diagram button from the toolbar.



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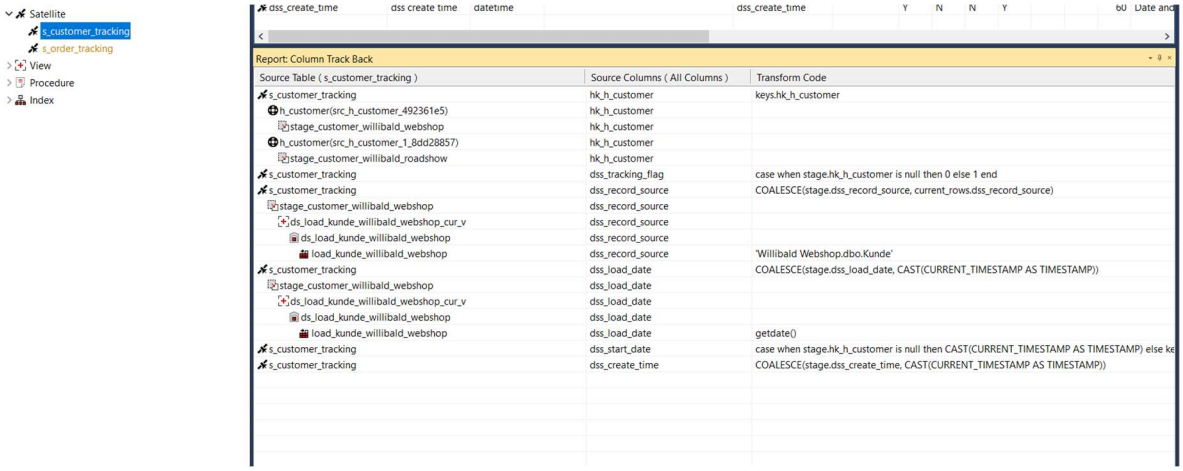
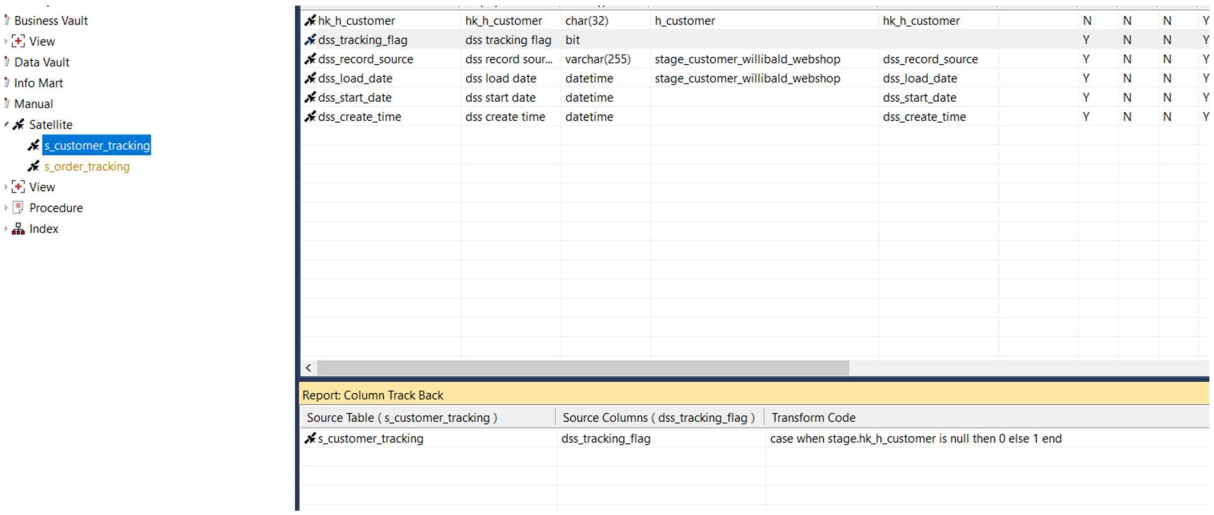
Data lineage reports at table and column level, track-back and track-forward

Table level track-back report



Column level track-back report



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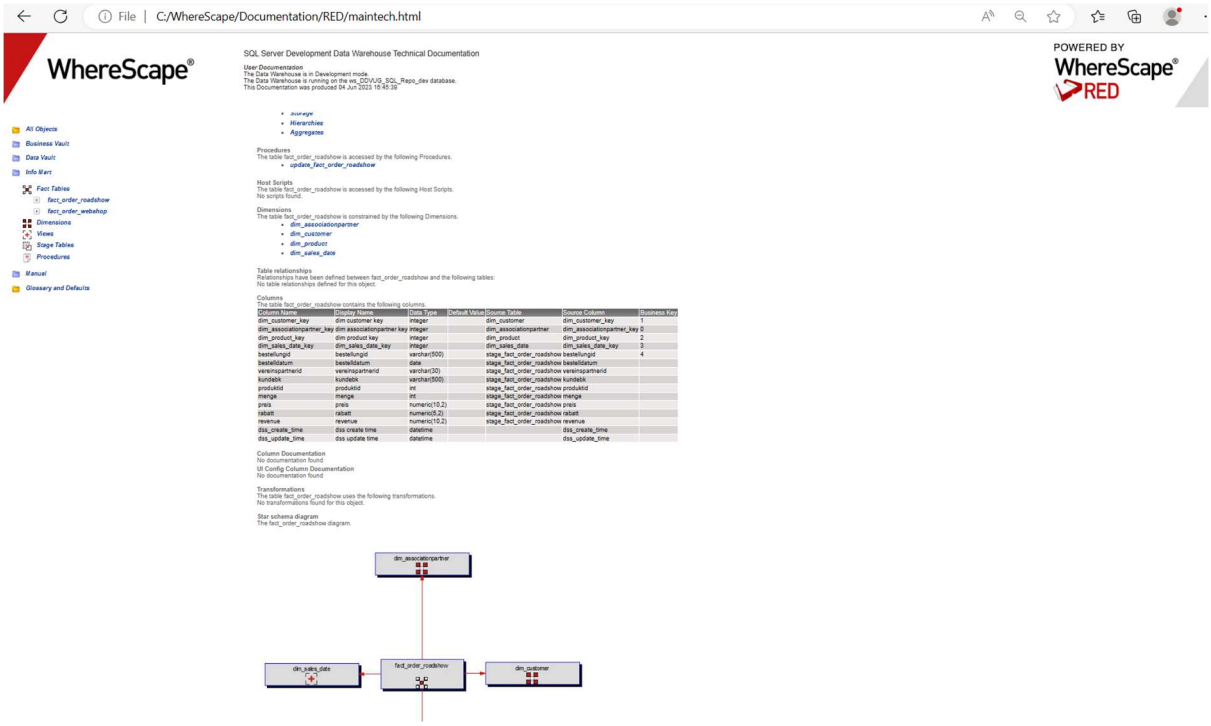
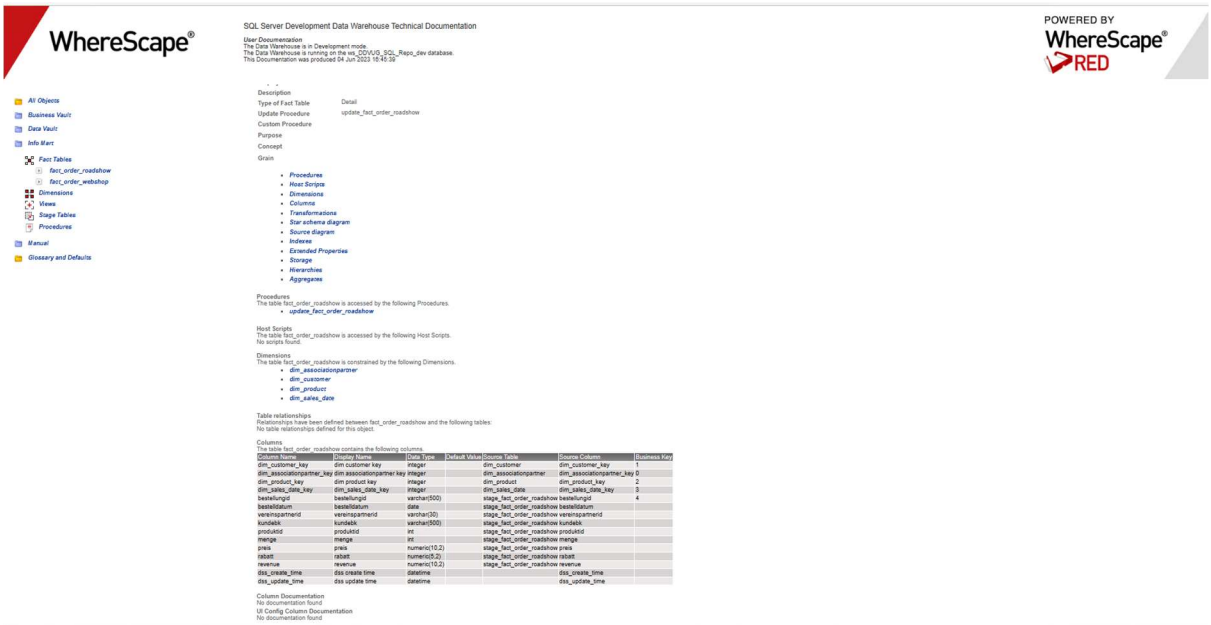
Documentation

User and technical documentation can be generated for all objects or at project level.





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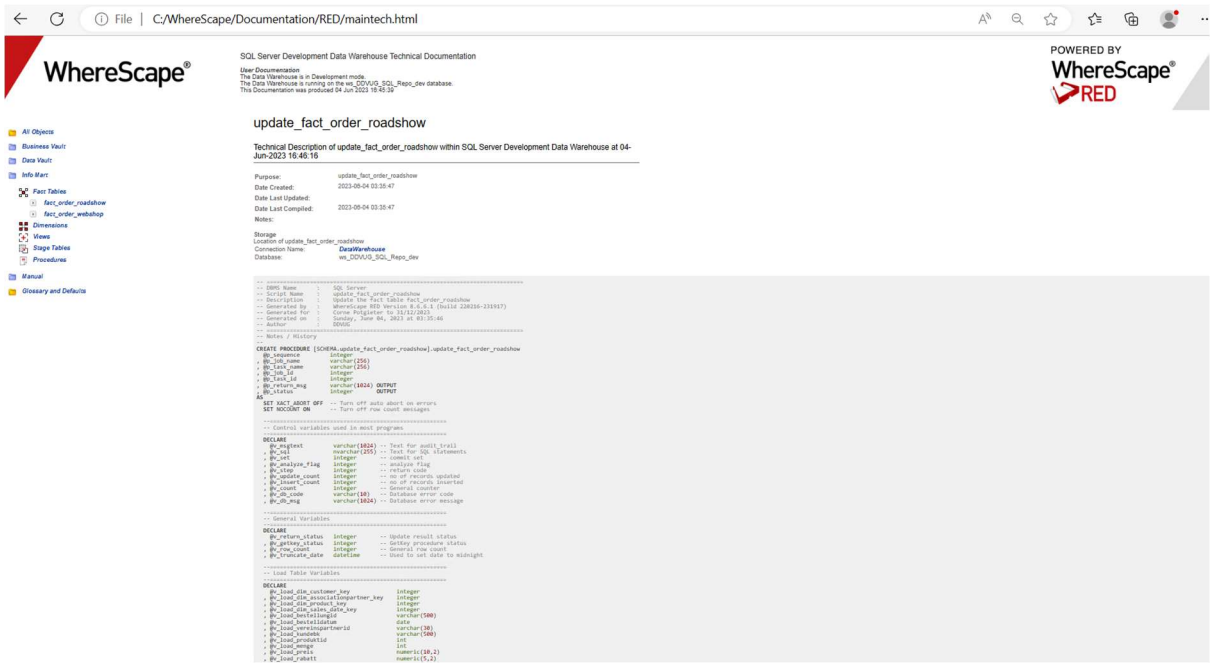


```
-- ================================================================================
-- DBMS Name      :  SQL Server
-- Script Name    :  update_fact_order_roadshow
-- Description    :  Update the fact table fact_order_roadshow
-- Generated by   :  WhereScape RED Version 8.9.0.1 (build 220216-231917)
-- Generated for  :  Corne Potgieter to 31/12/2023
-- Generated on   :  Sunday, June 04, 2023 at 03:35:46
-- Author         :  DDVUG
-- ================================================================================
-- Notes / History
--
CREATE PROCEDURE [SCHEMA.update_fact_order_roadshow].update_fact_order_roadshow
    @v_sequence             integer
  , @v_job_name             varchar(256)
  , @v_task_name            varchar(256)
  , @v_log_id               integer
  , @v_task_id              integer
  , @v_return_msg           varchar(1024) OUTPUT
  , @v_status               integer       OUTPUT
AS
  SET XACT_ABORT OFF  -- Turn off auto abort on errors
  SET NOCOUNT ON      -- Turn off row count messages

  -- ------------------------------------------------------------
  -- Control variables used in most programs
  -- ------------------------------------------------------------
  DECLARE
    @v_msgtext          varchar(1024) -- Text for audit_trail
  , @v_sql              nvarchar(255) -- Text for SQL statements
  , @v_set              integer       -- commit set
  , @v_analyze_flag     integer       -- analyze flag
  , @v_ins_count        integer       -- no of inserts
  , @v_update_count     integer       -- no of records updated
  , @v_insert_count     integer       -- no of records inserted
  , @v_count            integer       -- General counter
  , @v_db_code          varchar(10)   -- Database error code
  , @v_db_msg           varchar(1024) -- Database error message

  -- ------------------------------------------------------------
  -- General Variables
  -- ------------------------------------------------------------
  DECLARE
    @v_return_status    integer       -- Update result status
  , @v_getkey_status    integer       -- Getkey procedure status
  , @v_row_count        integer       -- General row count
  , @v_truncate_date    datetime      -- Used to set date to midnight

  -- ------------------------------------------------------------
  -- Load Table Variables
  -- ------------------------------------------------------------
  DECLARE
    @v_load_dim_customer_key              integer
  , @v_load_dim_customer_scd1company_key  integer
  , @v_load_dim_product_key               integer
  , @v_load_dim_sales_date_key            integer
  , @v_load_bestellungid                  varchar(500)
  , @v_load_bestelldatum                  date
  , @v_load_verkinspartnerid              varchar(30)
  , @v_load_kundenbs                      varchar(500)
  , @v_load_produktid                     int
  , @v_load_menge                         int
  , @v_load_preis                         numeric(10,2)
  , @v_load_rabatt                        numeric(5,2)
```