

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.

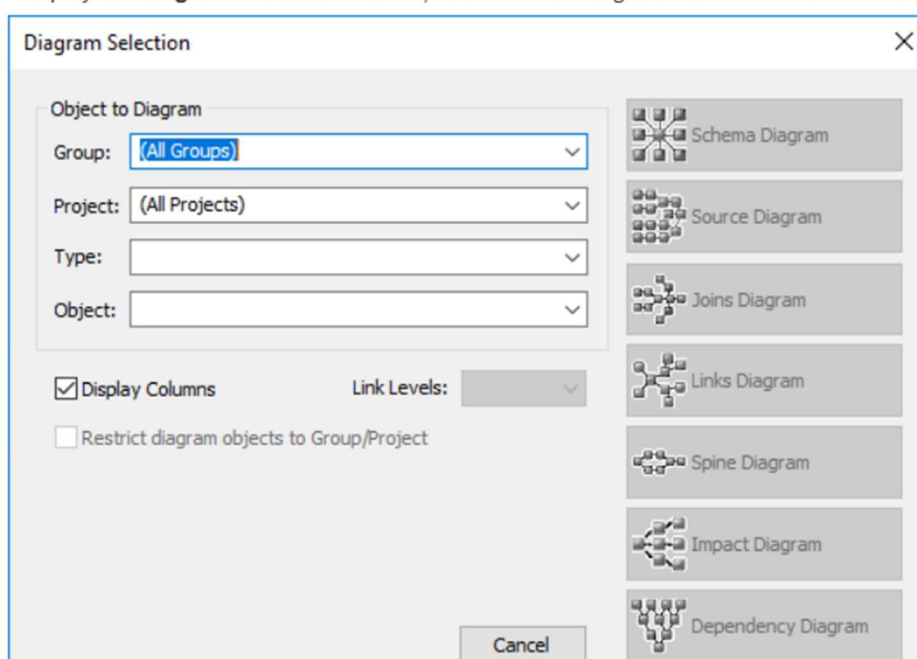


Types of Diagrams

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.



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

Table level track-back report

Report: Column Track Back

Source Table (s_customer_tracking)	Source Columns (All Columns)	Transform Code
s_customer_tracking	hk_h_customer	keys.hk_h_customer
h_customer(src_h_customer_492361e5)	hk_h_customer	
stage_customer_willibald_webshop	hk_h_customer	
h_customer(src_h_customer_1_8dd28857)	hk_h_customer	
stage_customer_willibald_roadshow	hk_h_customer	
s_customer_tracking	dss_tracking_flag	case when stage.hk_h_customer is null then 0 else 1 end
s_customer_tracking	dss_record_source	COALESCE(stage.dss_record_source, current_rows.dss_record_source)
stage_customer_willibald_webshop	dss_record_source	
ds_load_kunde_willibald_webshop_cur_v	dss_record_source	
ds_load_kunde_willibald_webshop	dss_record_source	
load_kunde_willibald_webshop	dss_record_source	'Willibald Webshop.dbo.Kunde'
s_customer_tracking	dss_load_date	COALESCE(stage.dss_load_date, CAST(CURRENT_TIMESTAMP AS TIMESTAMP))
stage_customer_willibald_webshop	dss_load_date	
ds_load_kunde_willibald_webshop_cur_v	dss_load_date	
ds_load_kunde_willibald_webshop	dss_load_date	
load_kunde_willibald_webshop	dss_load_date	getdate()
s_customer_tracking	dss_start_date	case when stage.hk_h_customer is null then CAST(CURRENT_TIMESTAMP AS TIMESTAMP) else ke
s_customer_tracking	dss_create_time	COALESCE(stage.dss_create_time, CAST(CURRENT_TIMESTAMP AS TIMESTAMP))

Column level track-back report

Report: Column Track Back

Source Table (s_customer_tracking)	Source Columns (dss_tracking_flag)	Transform Code
s_customer_tracking	dss_tracking_flag	case when stage.hk_h_customer is null then 0 else 1 end

Documentation

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

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SQL Server Development Data Warehouse Technical Documentation

User Documentation
The Data Warehouse is in Development mode.
The Data Warehouse is running on the sa_C2CVUG_SQL_Repo_dev database.
This Documentation was produced 04 Jun 2023 15:40:39

- Overview
- Hierarchies
- Aggregates

Procedures
The table fact_order_rashdow is accessed by the following Procedures.
• update_fact_order_rashdow

Host Scripts
The table fact_order_rashdow is accessed by the following Host Scripts.
No scripts found.

Dimensions
The table fact_order_rashdow is constrained by the following Dimensions.
• dim_associationpartner
• dim_customer
• dim_product
• dim_sales_data

Table relationships
Relationships have been defined between fact_order_rashdow and the following tables:
No table relationships defined for this object.

Columns
The table fact_order_rashdow contains the following columns.

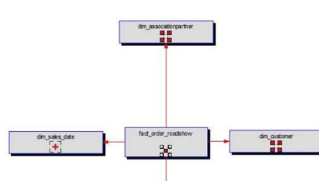
Column Name	Source Name	Data Type	Default Value	Source Table	Source Column	Business Key
dim_customer_key	dim_customer_key	integer		dim_customer	dim_customer_key	1
dim_associationpartner_key	dim_associationpartner_key	integer		dim_associationpartner	dim_associationpartner_key	0
dim_product_key	dim_product_key	integer		dim_product	dim_product_key	2
dim_sales_data_key	dim_sales_data_key	integer		dim_sales_data	dim_sales_data_key	3
bestellungnr	bestellungnr	varchar(50)		stage_fact_order_rashdow	bestellungnr	
bestelldatum	bestelldatum	date		stage_fact_order_rashdow	bestelldatum	4
vertriebspartner	vertriebspartner	varchar(50)		stage_fact_order_rashdow	vertriebspartner	
kundnr	kundnr	varchar(50)		stage_fact_order_rashdow	kundnr	
produktid	produktid	int		stage_fact_order_rashdow	produktid	
menge	menge	int		stage_fact_order_rashdow	menge	
preis	preis	numeric(10,2)		stage_fact_order_rashdow	preis	
rabatt	rabatt	numeric(10,2)		stage_fact_order_rashdow	rabatt	
reverse	reverse	numeric(10,2)		stage_fact_order_rashdow	reverse	
ds_create_time	ds_create_time	datetime		stage_fact_order_rashdow	ds_create_time	
ds_update_time	ds_update_time	datetime		stage_fact_order_rashdow	ds_update_time	

Column Documentation
No documentation found.

(U) Config Column Documentation
No documentation found.

Transformations
The table fact_order_rashdow uses the following transformations.
No transformations found for this object.

Star schema diagram
The fact_order_rashdow diagram



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Description
Type of Fact Table: update_fact_order_rashdow
Update Procedure: Custom Procedure
Purpose:
Concept:
Gran:
• Procedures
• Host Scripts
• Dimensions
• Columns
• Transformations
• Star schema diagram
• Source diagram
• Indexes
• Extended Properties
• Storage
• Hierarchies
• Aggregates

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dim_associationpartner_key	dim_associationpartner_key	integer		dim_associationpartner	dim_associationpartner_key	0
dim_product_key	dim_product_key	integer		dim_product	dim_product_key	2
dim_sales_data_key	dim_sales_data_key	integer		dim_sales_data	dim_sales_data_key	3
bestellungnr	bestellungnr	varchar(50)		stage_fact_order_rashdow	bestellungnr	4
bestelldatum	bestelldatum	date		stage_fact_order_rashdow	bestelldatum	
vertriebspartner	vertriebspartner	varchar(50)		stage_fact_order_rashdow	vertriebspartner	
kundnr	kundnr	varchar(50)		stage_fact_order_rashdow	kundnr	
produktid	produktid	int		stage_fact_order_rashdow	produktid	
menge	menge	int		stage_fact_order_rashdow	menge	
preis	preis	numeric(10,2)		stage_fact_order_rashdow	preis	
rabatt	rabatt	numeric(10,2)		stage_fact_order_rashdow	rabatt	
reverse	reverse	numeric(10,2)		stage_fact_order_rashdow	reverse	
ds_create_time	ds_create_time	datetime		stage_fact_order_rashdow	ds_create_time	
ds_update_time	ds_update_time	datetime		stage_fact_order_rashdow	ds_update_time	

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