U1M8.LW.Data Warehouse Architecture

Business Project

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https://github.com/VeraShkrabatouskaya/DataMola_Data-Camping-2022

2. Data Warehouse Architecture

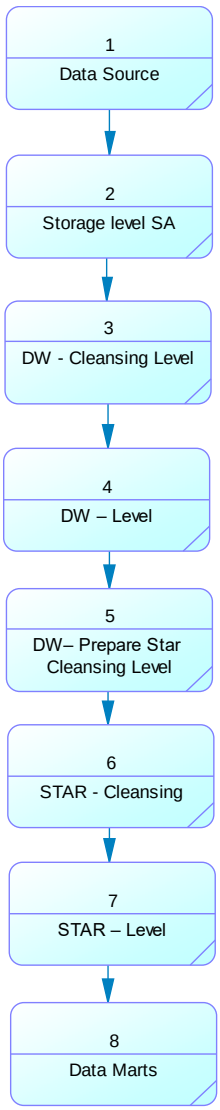
2.1. Task 01: CREATE Schema of simple Data Warehouse Architecture

Name Conversation table

Level Type	Object Name	Tablespace	Desctiption
Storage level SA_*	SA_CUSTOMERS	ts_sa_customers_data_01	Loading from structured files. Contains Customer information.
	SA_EMPLOYEES	ts_sa_employees_data_01	Loading from structured files. Contains Employee information.
	SA_PROMOTIONS	ts_sa_promotions_data_01	Loading from structured files. Contains Promotion information.
DW - Cleansing Level	DW_CL	ts_dw_cl	Loading from a scene-level system. Contains information about preparation for subsequent use (cleaning).
DW – Level	DW_DATA	ts_dw_data_01	Loading data from cleansing tables. Contains clean information tending to the 3rd normal form ready to prepare a star schema.
DW– Prepare Star Cleansing Level	SAL_DW_CL	ts_dw_str_cls	Loading data from DW system. Contains views merging objects from DW level.

STAR - Cleansing	SAL_CL	ts_sal_cl	Loading data from DW_CL system. Contains views from previous level but clean any redundancy.
STAR – Level	DM_FCT_KPI	ts_sa_fct_kpi_01	Store information about fact KPI of ad promotions.
	DM_FCT_BUDGET	ts_sa_fct_budget_01	Store information about fact budget.
	DM_FCT_SALARY	ts_sa_fct_salary_01	Store information about fact salary of employees.
	DM_FCT_QUANTITY	ts_sa_fct_quantity_01	Store information about fact quantity of agency customers, employees and promotions.

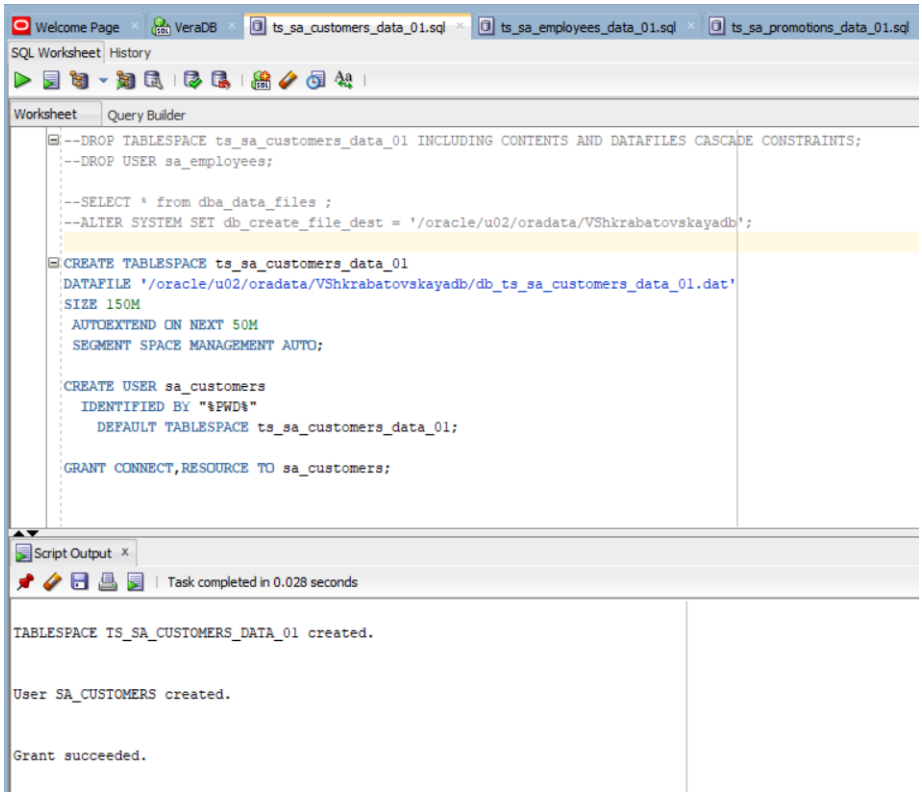
Data Warehouse Architecture diagram



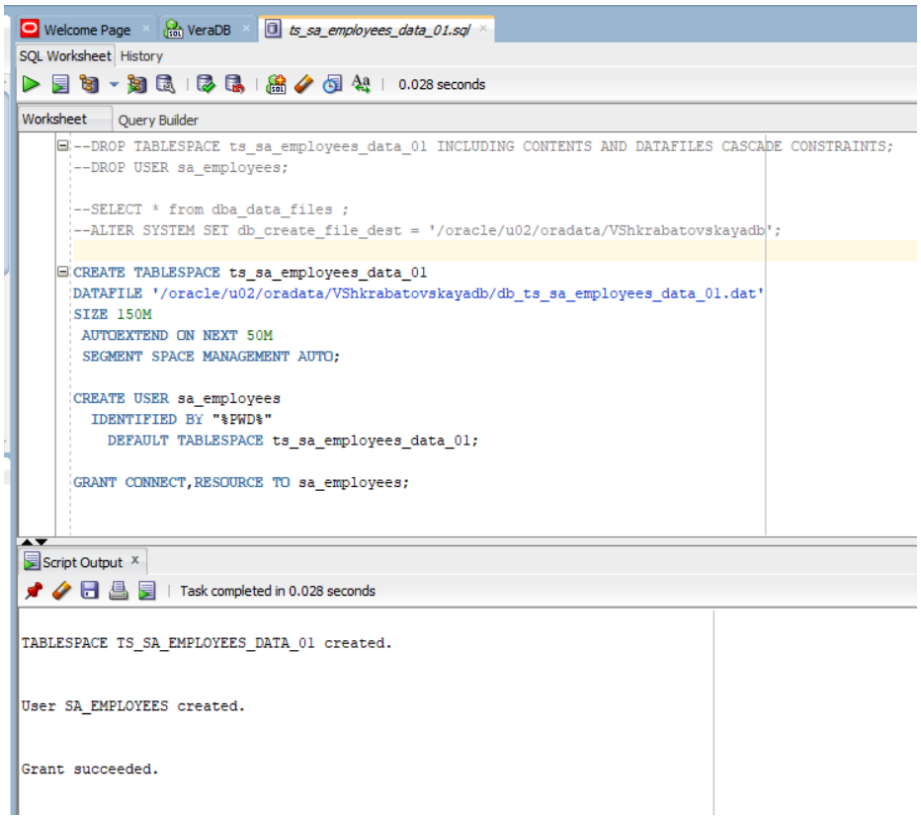
2.2. Task 02: CREATE Storage Level

Storage level Objects

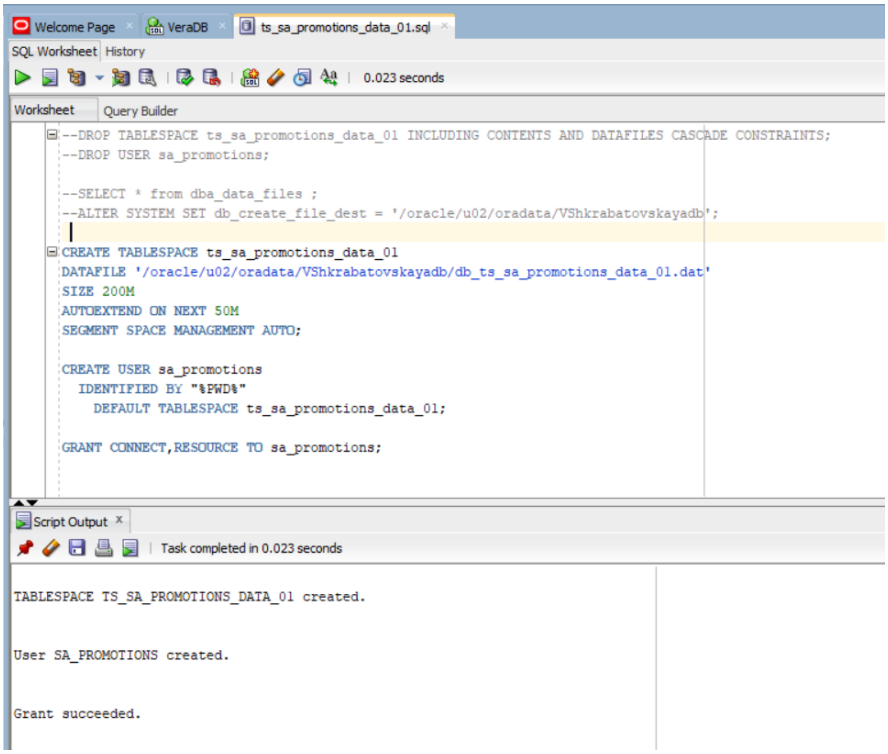
- ts_sa_customers_data_01



- ts_sa_employees_data_01

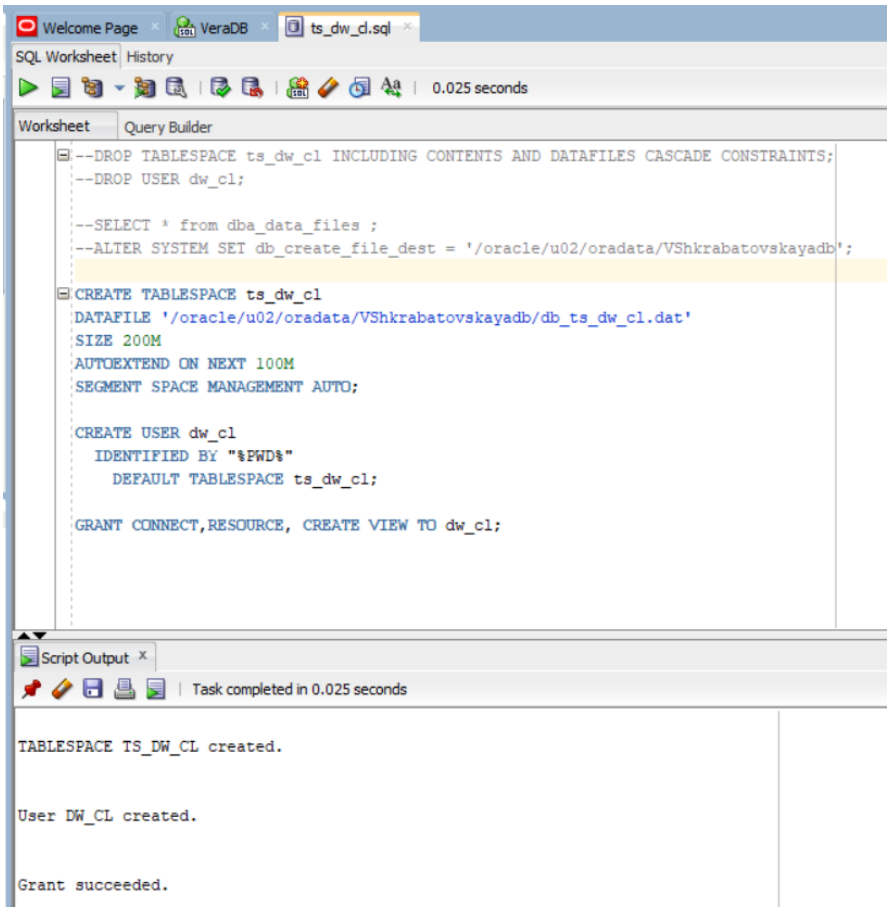


- ts_sa_promotions_data_01



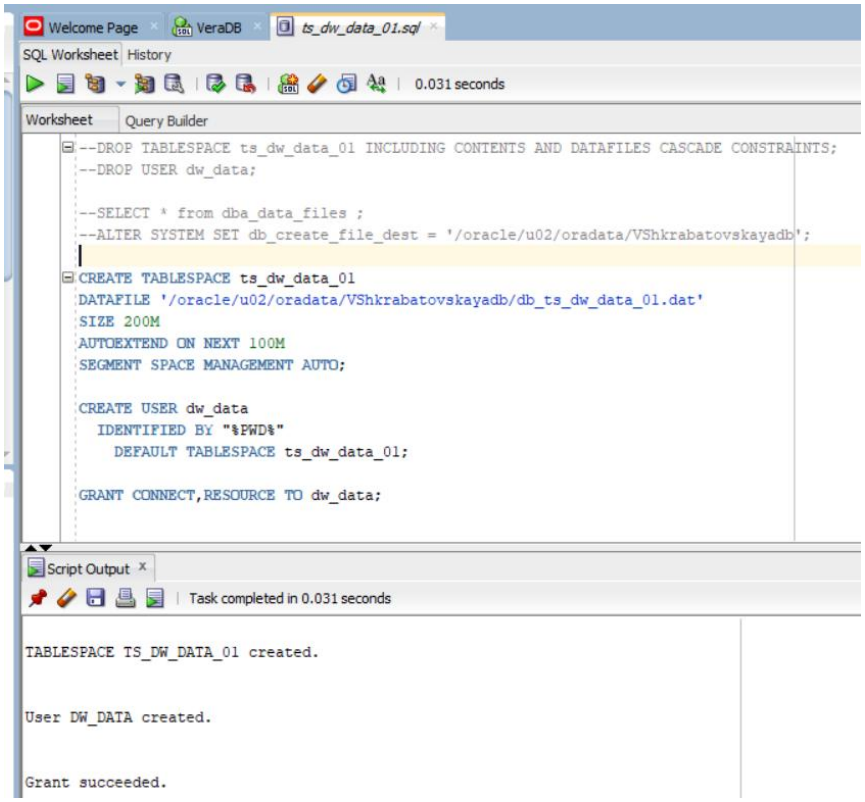
2.3. Task 03: CREATE Data warehouse Cleansing Level

Data warehouse cleansing level Objects



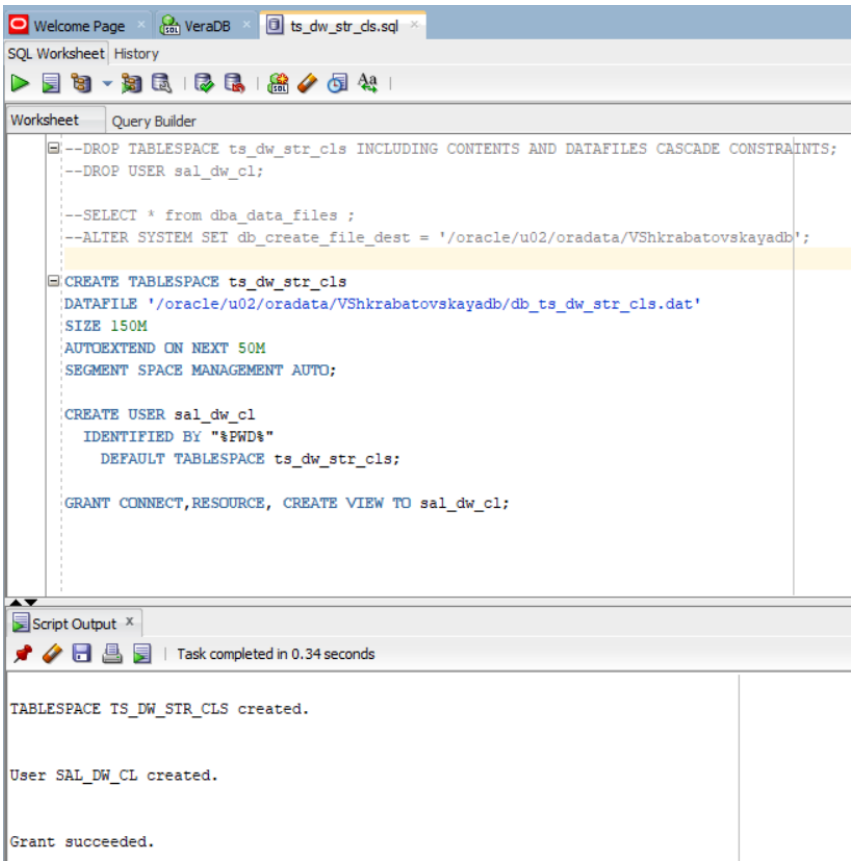
2.4. Task 04: CREATE Data warehouse Start Cleansing Level

Data warehouse Star Cleansing level Objects

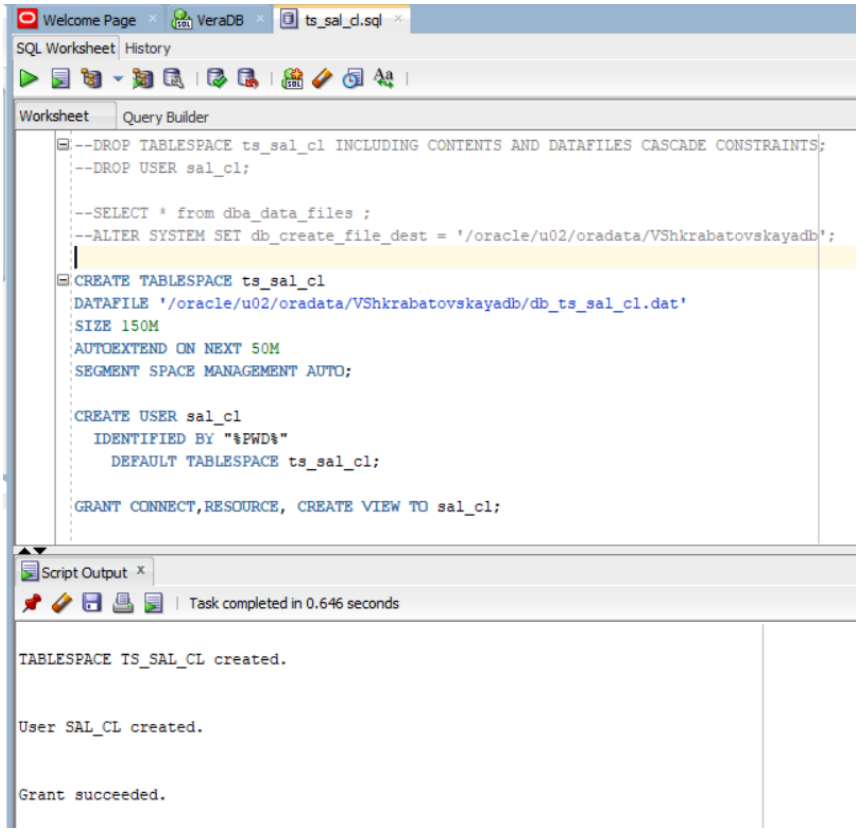


2.5. Task 05: CREATE Start Cleansing Level

Prepare Star Cleansing level Objects



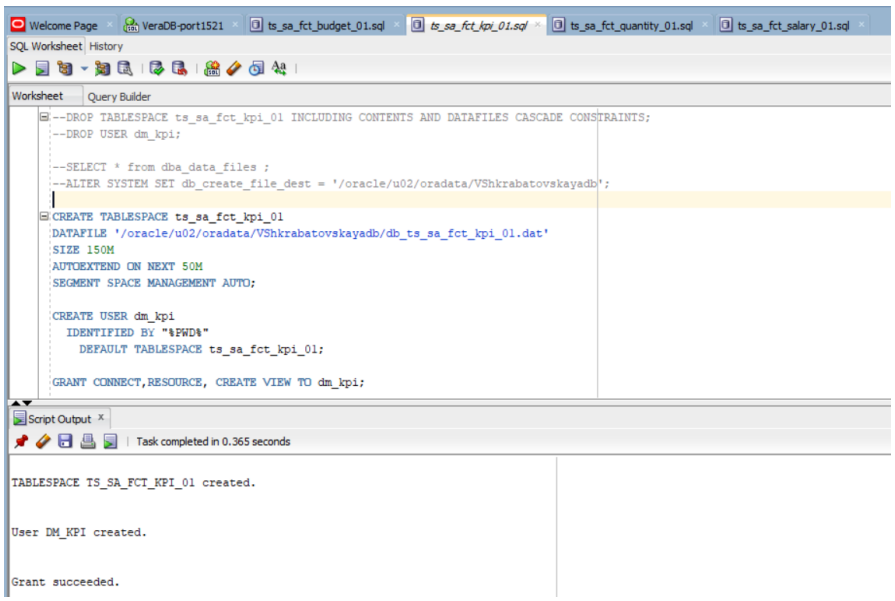
Star Cleansing level Objects



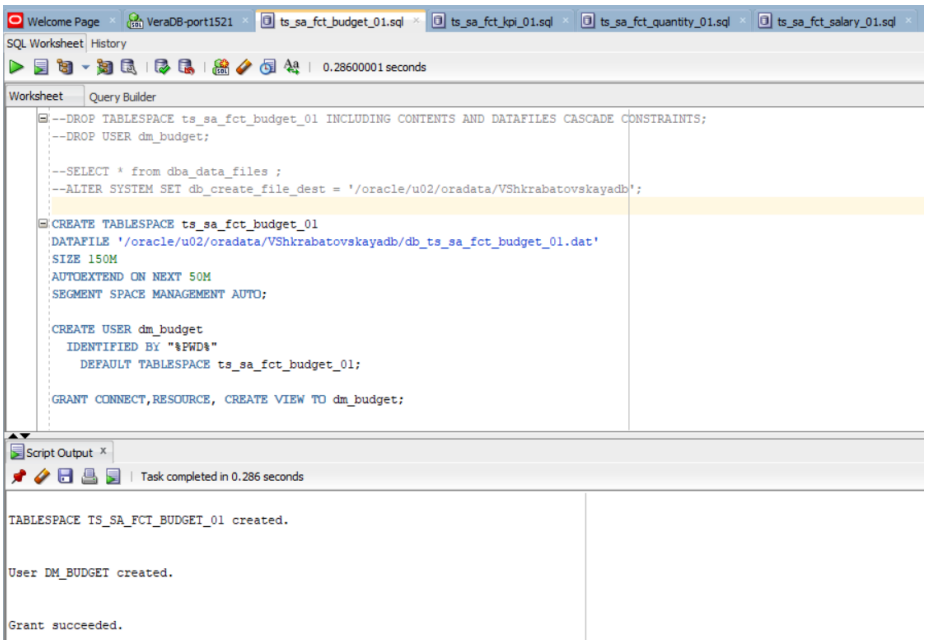
2.6. Task 06: CREATE Data warehouse Start Level and Data Marts

Data warehouse Star and Data Marts level Objects

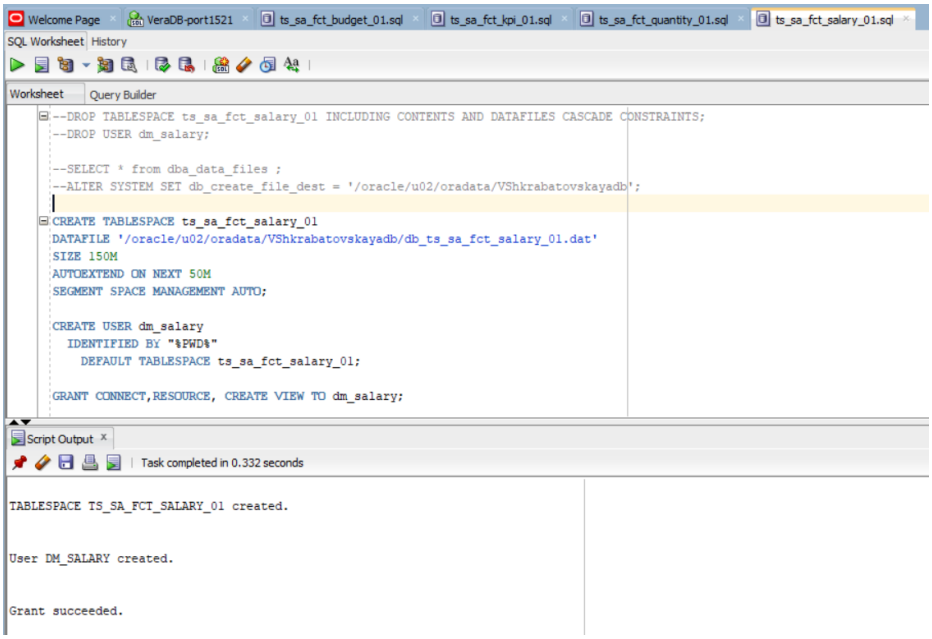
- s_sa_fct_kpi_01



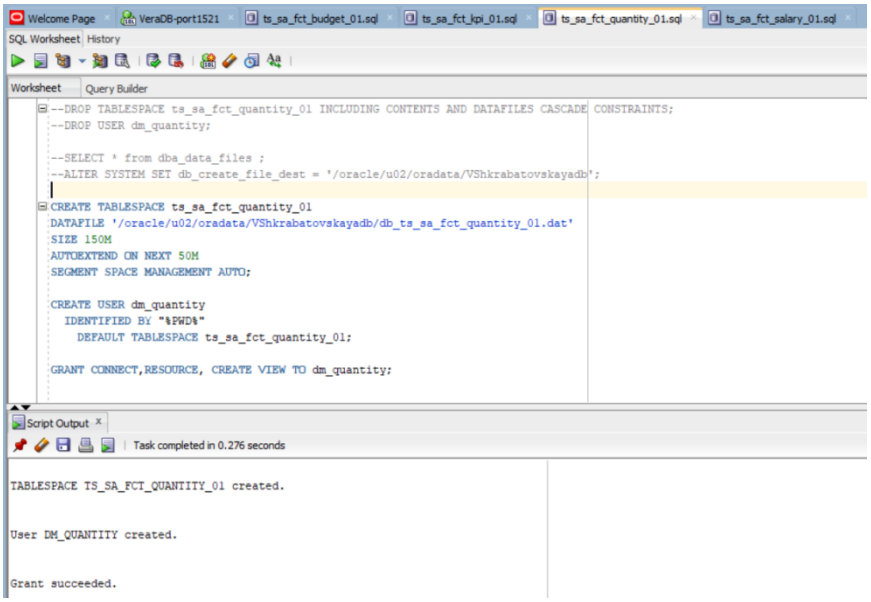
- s_sa_fct_budget_01



- s_sa_fct_salary_01



- s_sa_fct_quantity_01

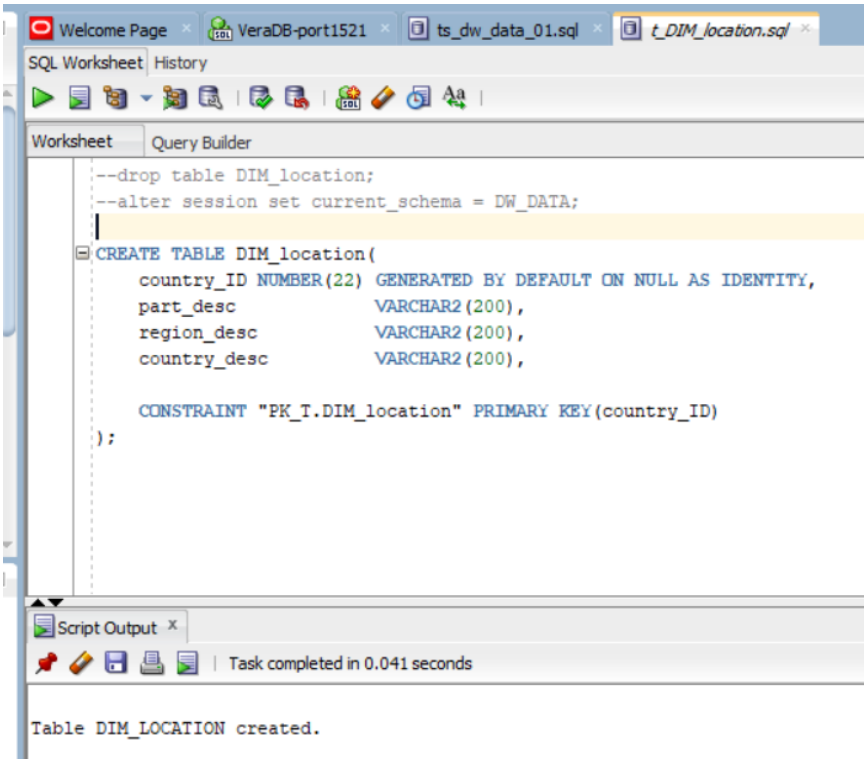


3. Star – Business analyses task

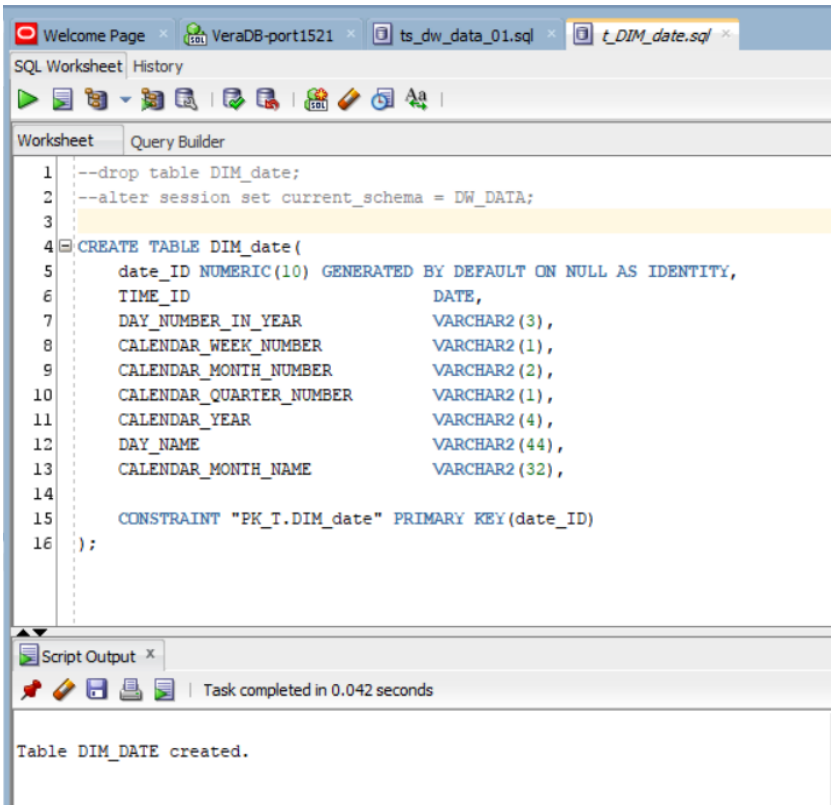
3.1. Task 07: CREATE Prepared Star Objects

Data warehouse Star and Data Marts level Objects

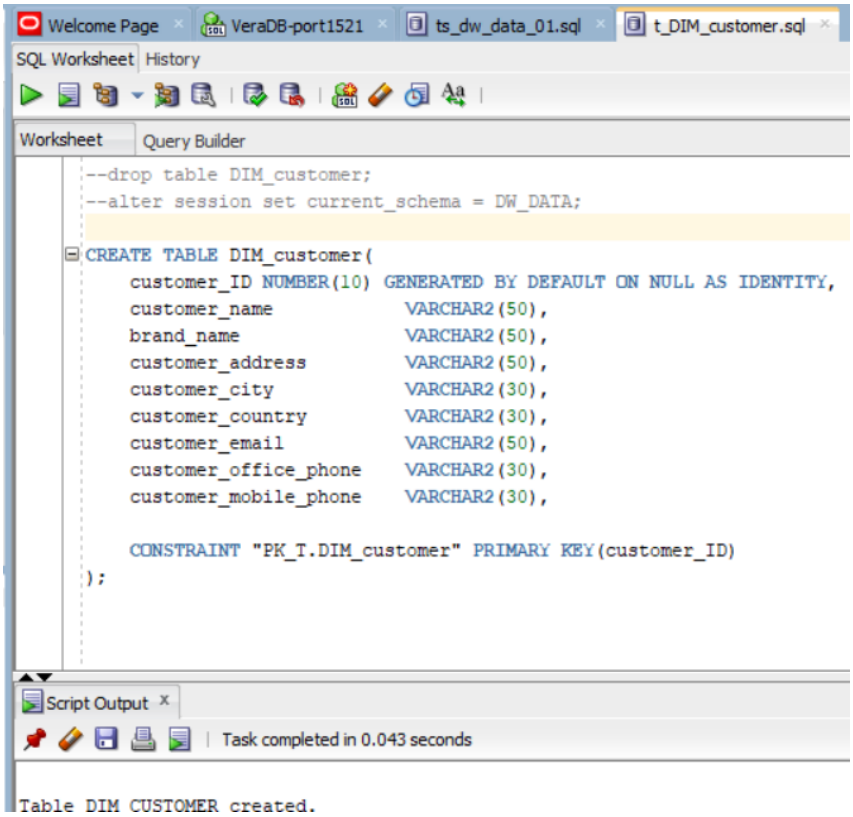
- t_DIM_location



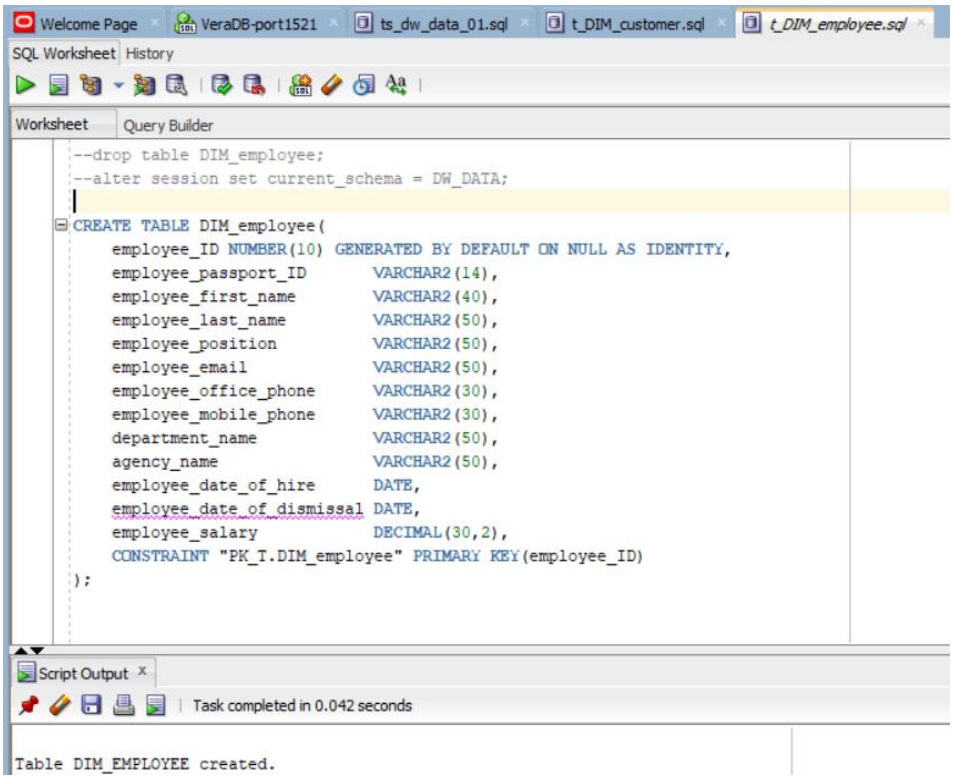
- t_DIM_date



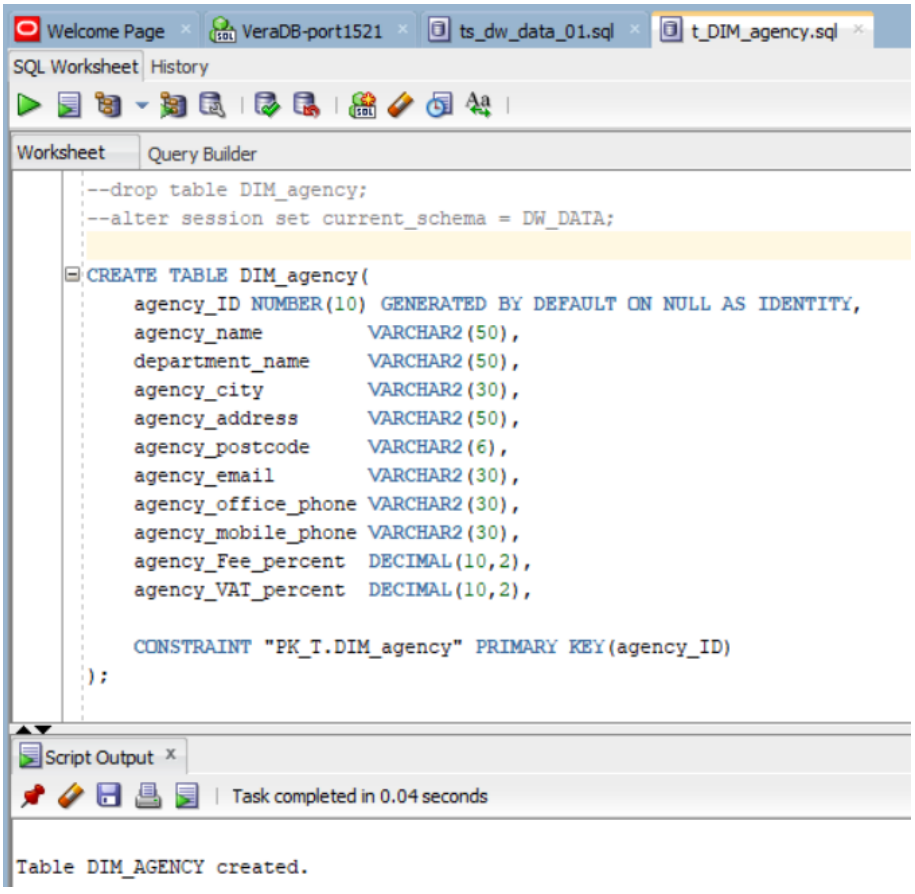
- t_DIM_customer



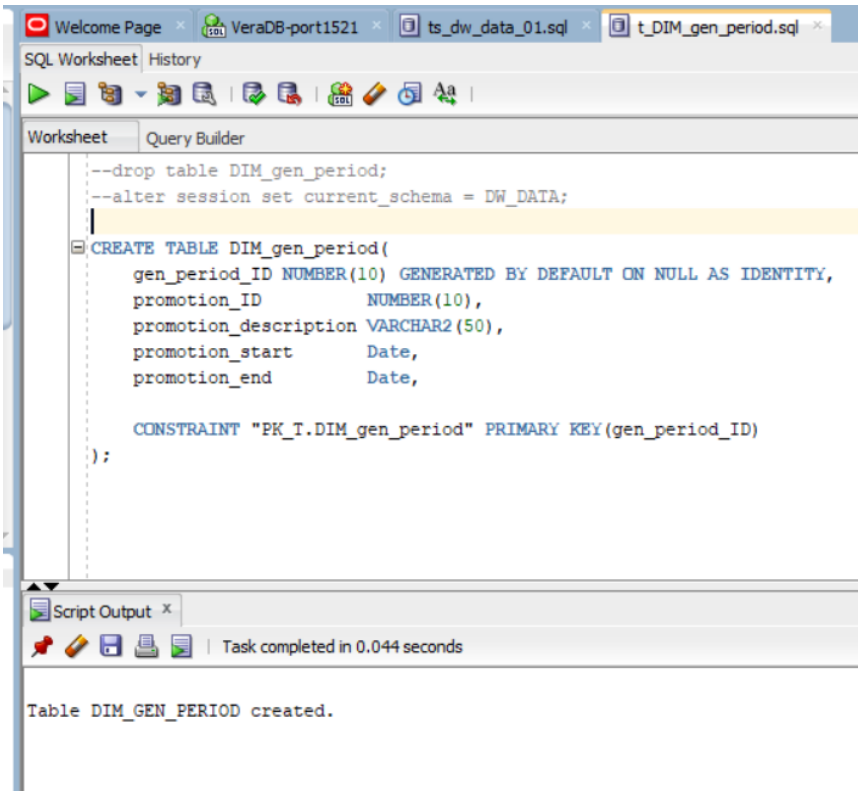
- t_DIM_employee



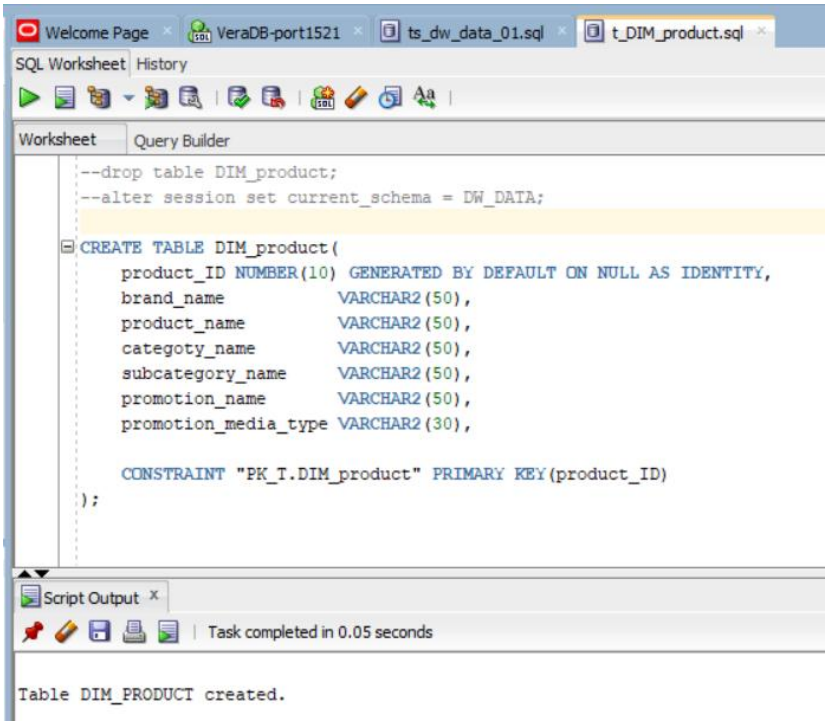
- t_DIM_agency



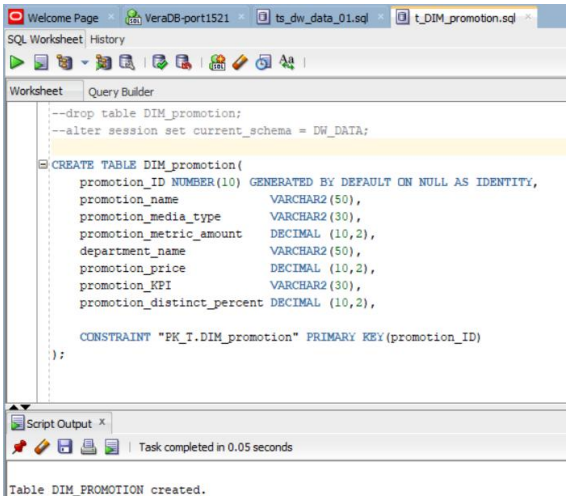
- t_DIM_gen_period



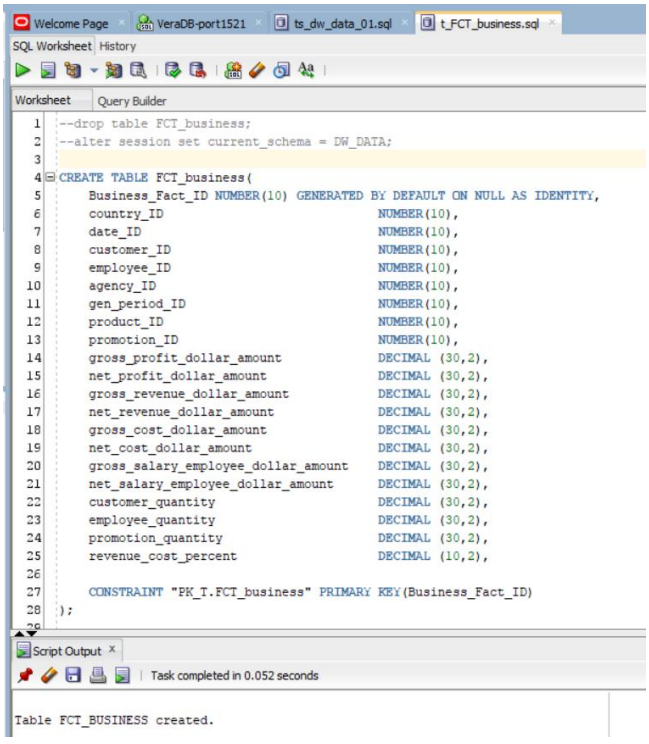
- t_DIM_product

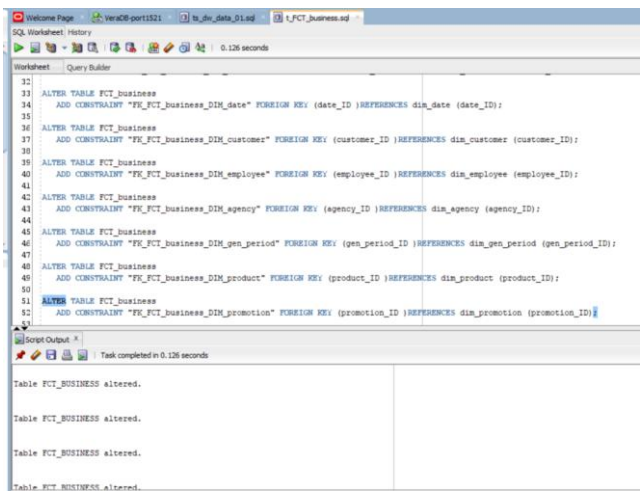


- t_DIM_promotion



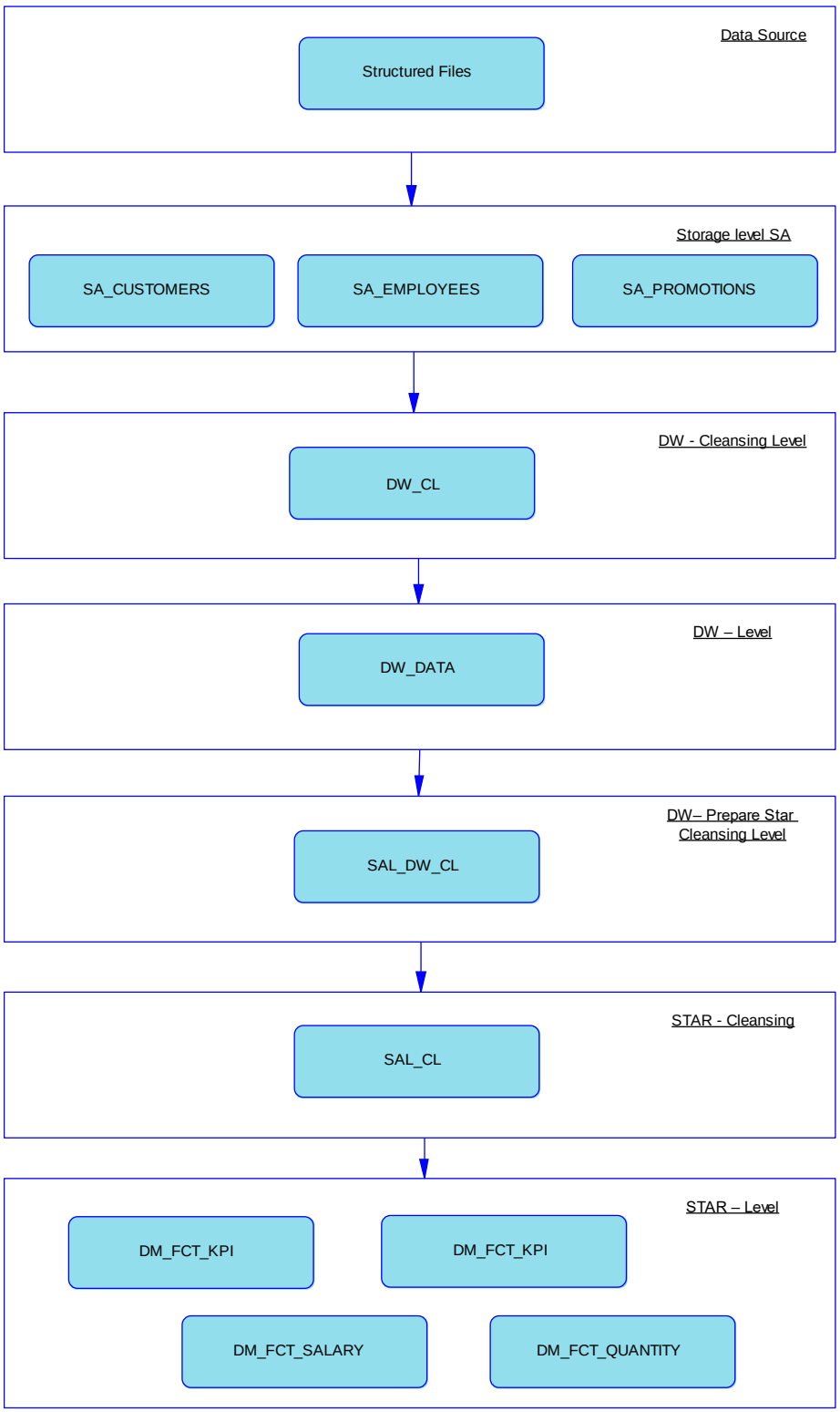
- t_FCL_business





3.2. Task 08: DataFlow Diagram

DataFlow Diagram to describe refresh process of Business STAR



3.3. Task 09: Grants Object Privileges

All privileges to DW_CL, SAL_CL_DW, SAL_CL layers were granted in steps 2.3. Task 03, 2.5. Task 05.