**Anton Slizh’s**

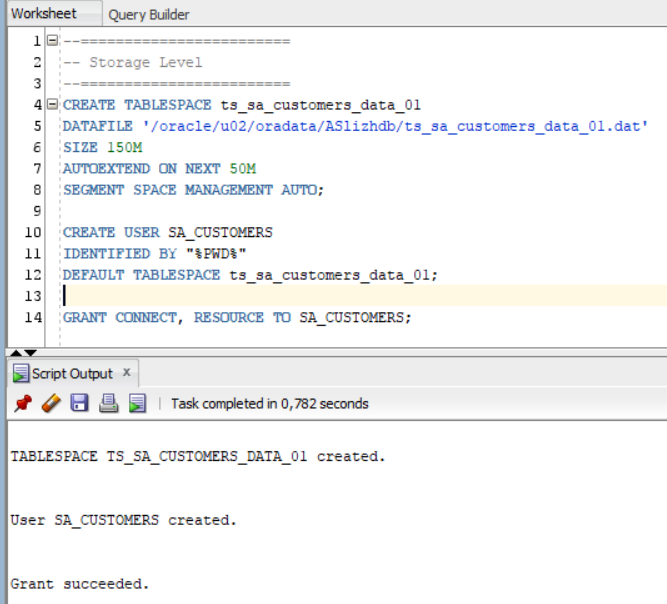
**U1M8.LW.Data Warehouse Architecture Report**

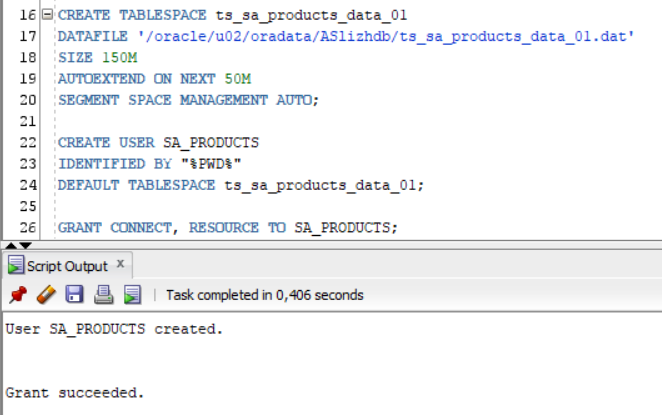
*GitHub: https://github.com/drapejny/DataCamp2022*

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

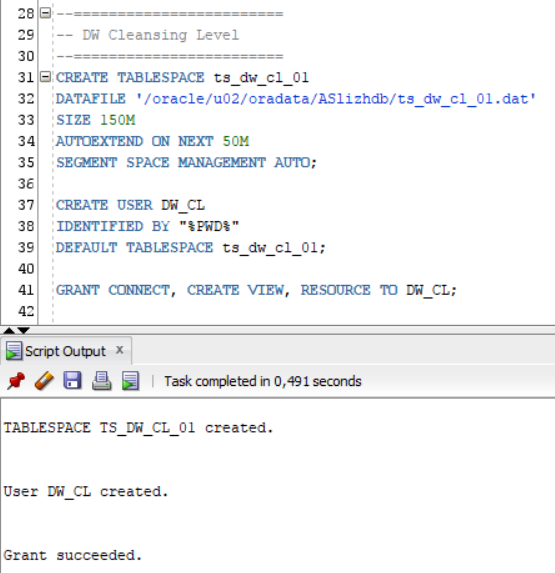
|  |  |  |  |
| --- | --- | --- | --- |
| Level Type | Object Name | Tablespace | Desctiption |
| Storage level  SA\_\* | SA\_CUSTOMERS | ts\_sa\_customers\_data\_01 | Loading from Flat and Structured files. Contains customers, geo location information. |
| SA\_PRODUCTS | ts\_sa\_products\_data\_01 | Loading from Flat and Structured files. Contains products, sales, stores, dates information |
| DW - Cleansing Level | DW\_CL | ts\_dw\_cl\_01 | Loading from stage level. Prepare data for cleansing. |
| DW – Level | DW\_DATA | ts\_dw\_data\_01 | Loading data after cleansing. |
| DW– Prepare Star Cleansing Level | SAL\_DW\_CL | ts\_dw\_cl\_01 | Loading from DW level. |
| STAR - Cleansing | SAL\_CL | ts\_sal\_cl\_01 | Loading from DW level. Clean any redundancy. |
| STAR – Level | DM\_SALES | ts\_sa\_fct\_sales\_01 | Store fact sales information. |
| DM\_CUSTOMERS | ts\_sa\_dim\_customers\_01 | Stores dim customers information |
| DM\_PRODUCTS | ts\_sa\_dim\_products\_01 | Store dim products information |
|  |  |  |

## 2.2. Task 02: CREATE Storage Level

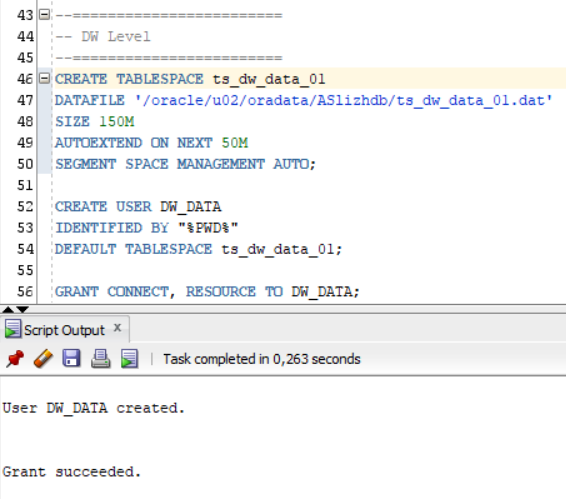




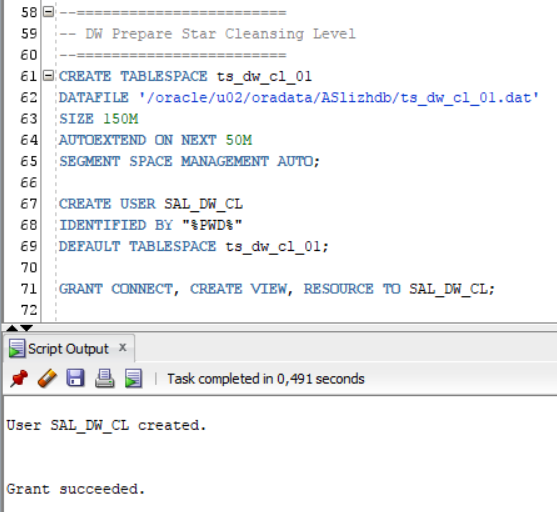
## 2.3. Task 03: CREATE Data warehouse Cleansing Level

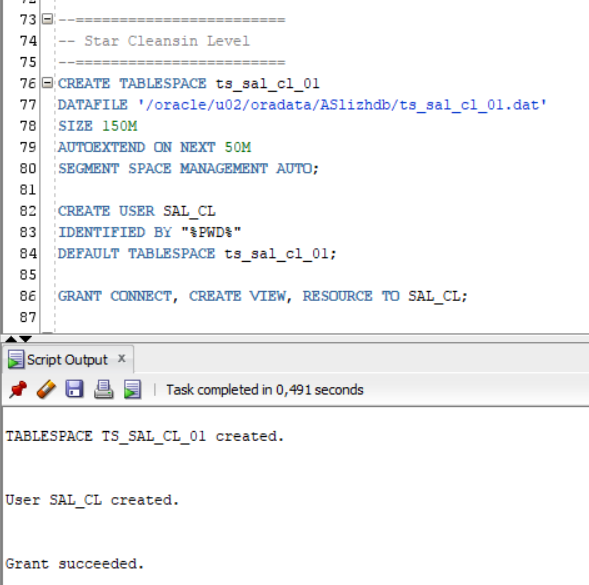


## 2.4. Task 04: CREATE Data warehouse Start Cleansing Level

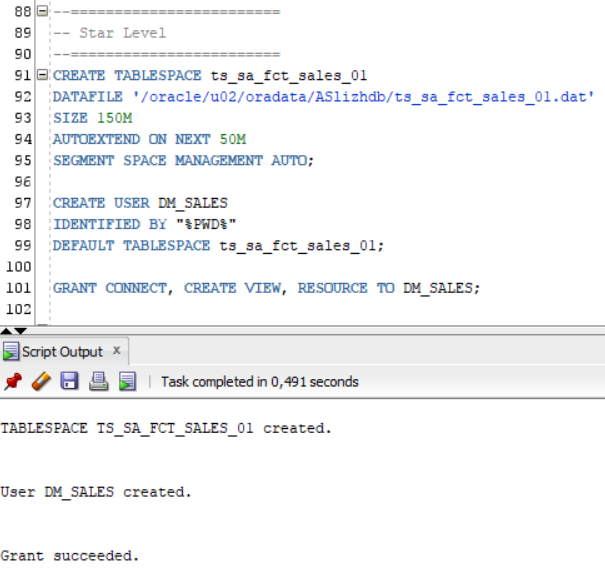


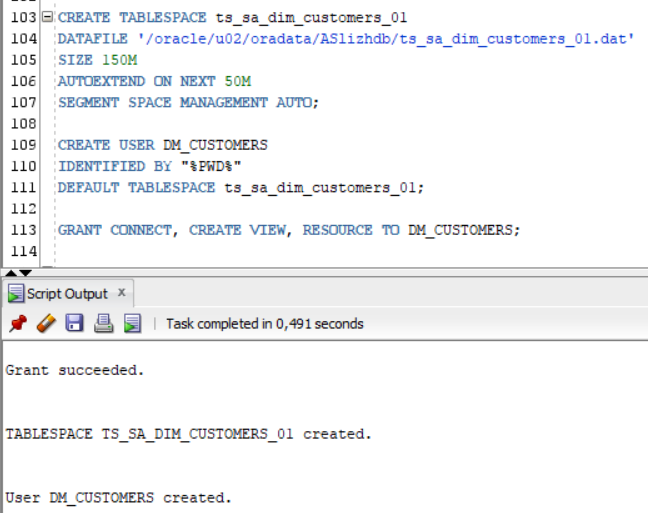
## 2.5. Task 05: CREATE Star Cleansing Level

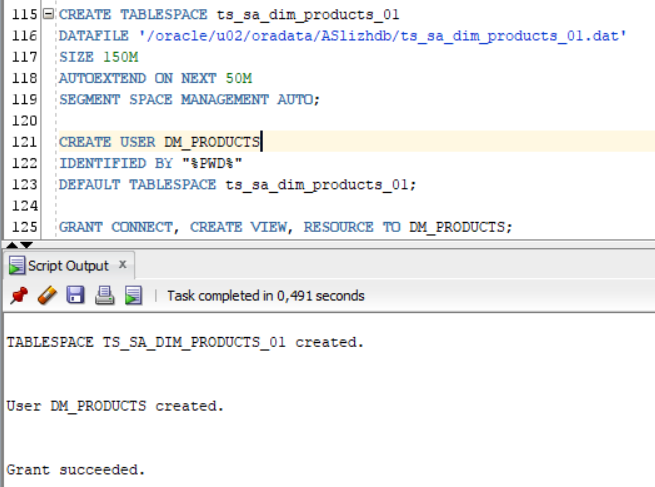




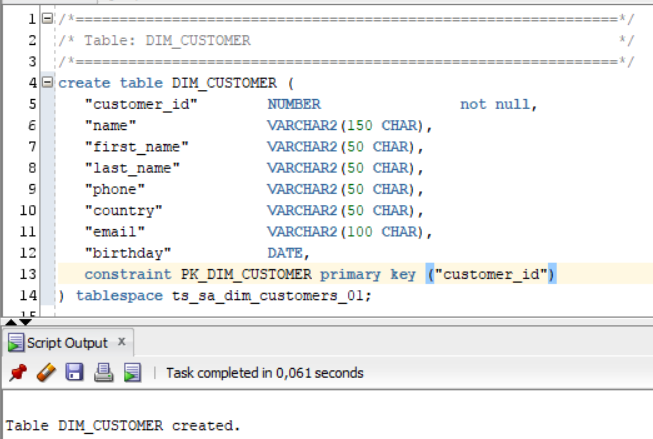
## 2.6. Task 06: CREATE Data warehouse Star Level and Data Marts

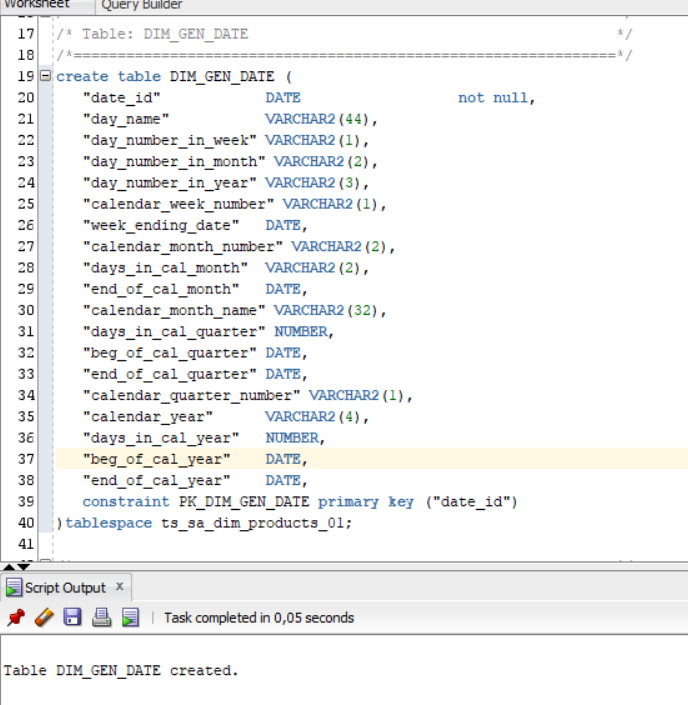


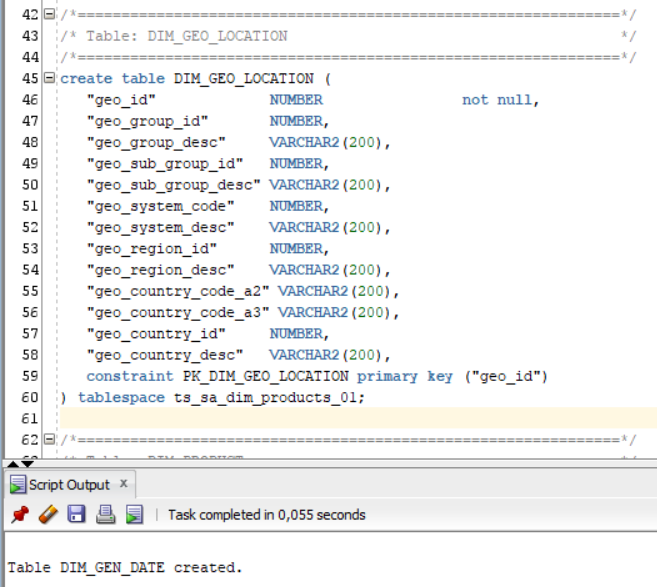


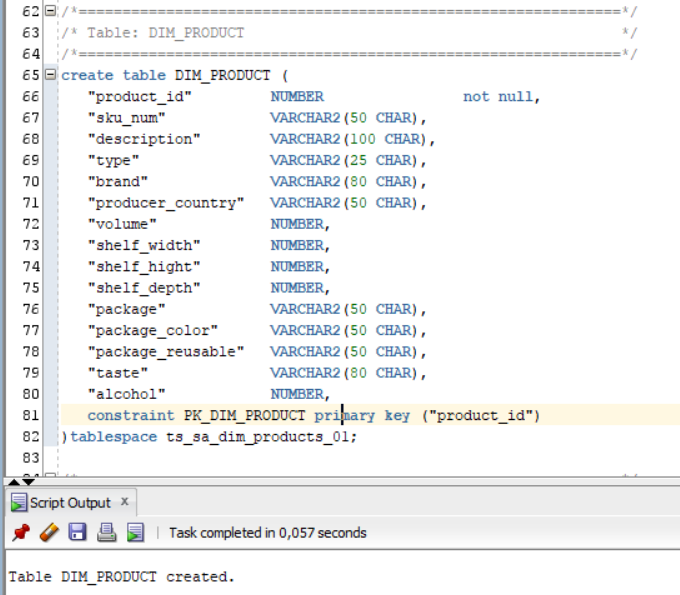


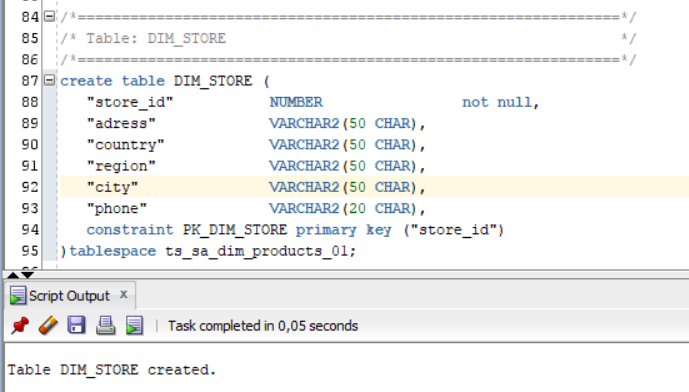
## 3.1. Task 07: CREATE Prepared Star Objects

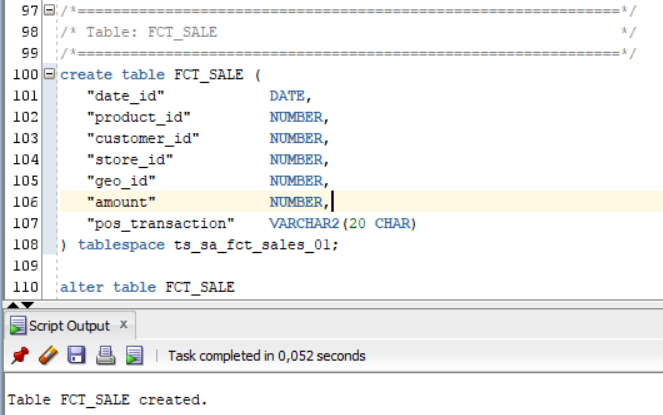


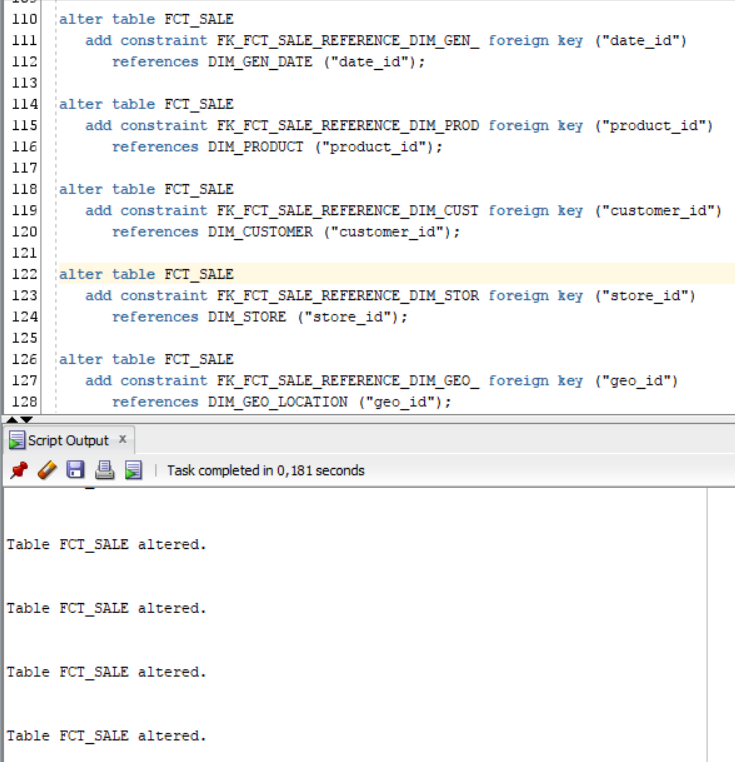






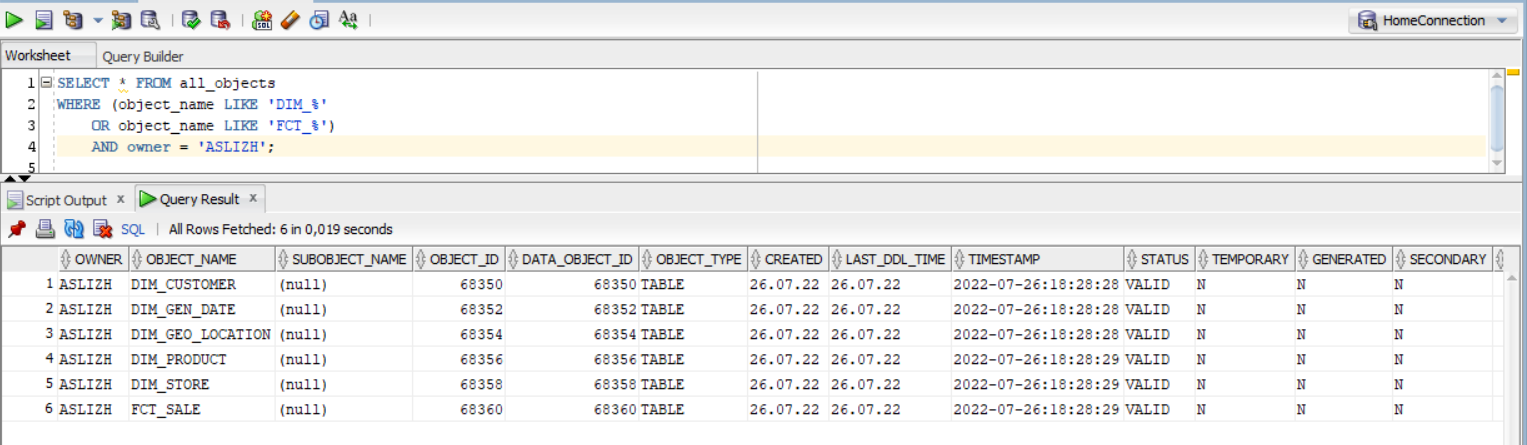




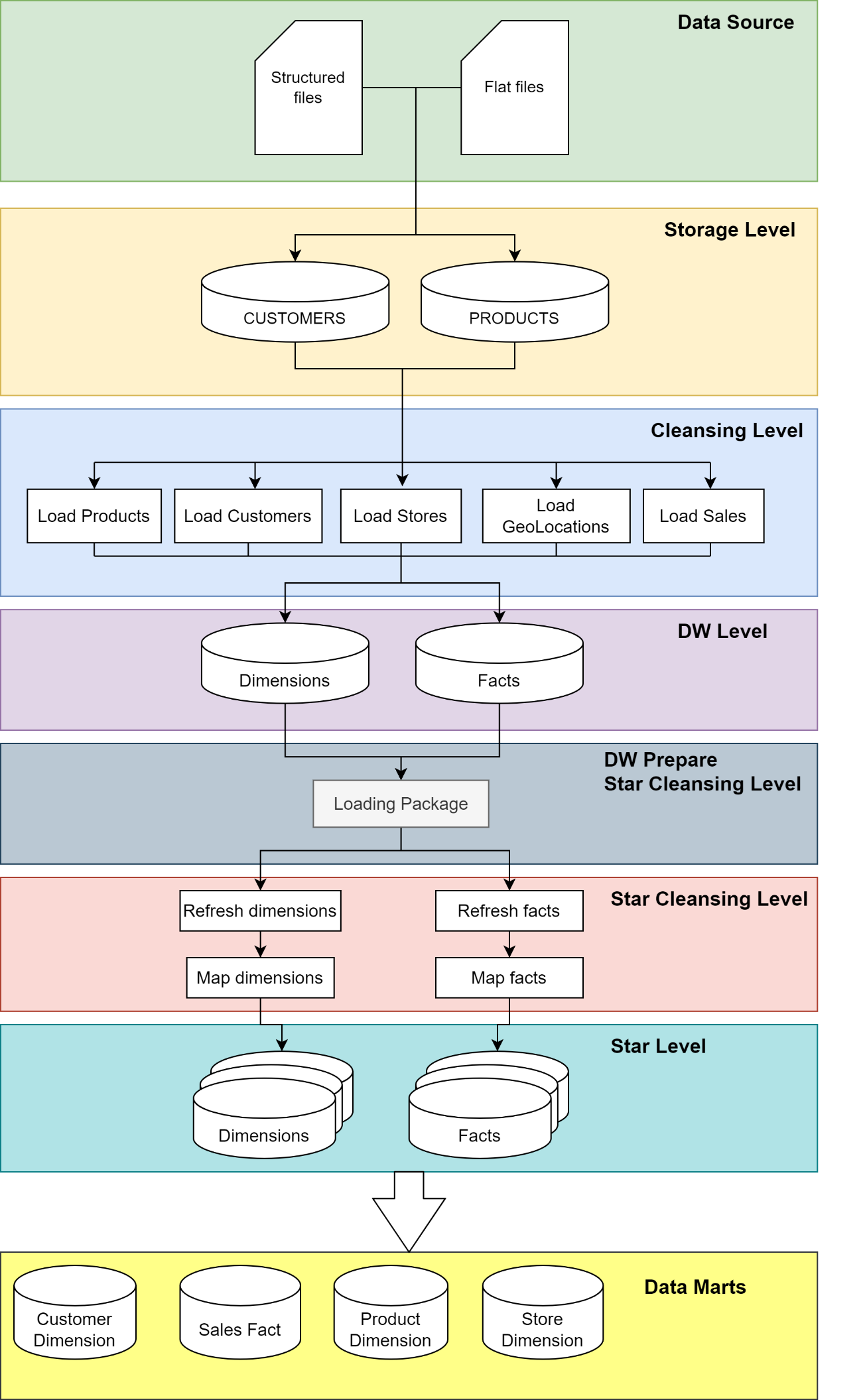


Creation script (*init\_tables.sql*) is located on GitHub;

Result:

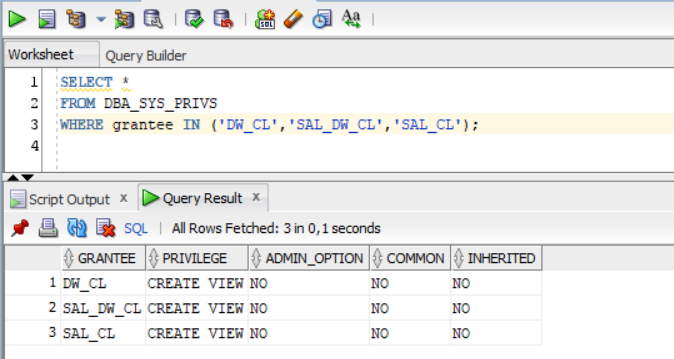
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## 3.2. Task 08: DataFlow Diagram

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## 3.3. Task 09: Grants Object Privileges

|  |  |
| --- | --- |
| Users | Privileges |
| SA\_CUSTOMERS | Connect, Resource |
| SA\_PRODUCTS | Connect, Resource |
| DW\_CL | Connect, Create View |
| DW\_DATA | Connect, Resource |
| SAL\_DW\_CL | Connect, Create View |
| SAL\_CL | Connect, Create View |
| DM\_SALES | Connect, Create View |
| DM\_CUSTOMERS | Connect, Create View |
| DM\_PRODUCTS | Connect, Create View |

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