# 2. Data Warehouse Architecture

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

| Level Type | Object Name | Tablespace | Description |
| --- | --- | --- | --- |
| Storage level  SA\_\* | SA\_SALES | ts\_sa\_sales\_data\_01 | Loading from Flatfile storage system. Contains Sales information |
| SA\_CUSTOMERS | ts\_sa\_customers\_data\_01 | Loading from Flatfile storage system. Contains Customers information |
| SA\_STORES | ts\_sa\_stores\_data\_01 | Loading from Flatfile storage system. Contains Stores information |
| SA\_EMPLOYEES | ts\_sa\_employees\_data\_01 | Loading from Flatfile storage system. Contains Employees information |
| SA\_PIZZAS | ts\_sa\_pizzas\_data\_01 | Loading from Flatfile storage system. Contains Pizzas information |
| SA\_PROMOTIONS | ts\_sa\_promotions\_data\_01 | Loading from Flatfile storage system. Contains Promotions information |
| SA\_PAYMENT\_METHODS | ts\_sa\_payment\_methods\_data\_01 | Loading from Flatfile storage system. Contains Payment methods information |
| SA\_GEO\_LOCATIONS | ts\_sa\_geo\_locations\_data\_01 | Loading from Flatfile storage system. Contains geo locations information |
| DW - Cleansing Level | DW\_CL | ts\_dw\_cl\_01 | Loading from stage level system. Contains all information, cleans, changes and prepares it for further usage. |
| DW – Level | DW\_SALES | ts\_dw\_data\_01 | Contains information about sales |
| DW\_CUSTOMERS | ts\_dw\_data\_01 | Contains information about customers |
| DW\_STORES | ts\_dw\_data\_01 | Contains information about stores |
| DW\_EMPLOYEES | ts\_dw\_data\_01 | Contains information about employees |
| DW\_PIZZAS | ts\_dw\_data\_01 | Contains information about pizzas |
| DW\_PROMOTIONS | ts\_dw\_data\_01 | Contains information about promotions |
| DW\_PAYMENT\_METHODS | ts\_dw\_data\_01 | Contains information about payment methods |
| DW\_GEO\_LOCATIONS | ts\_dw\_data\_01 | Contains information about geo locations |
| DW\_DATES | ts\_dw\_data\_01 | Contains information about dates |
| DW\_GEN\_PERIODS | ts\_dw\_data\_01 | Contains information about sales categories |
| DW– Prepare Star Cleansing Level | SAL\_DW\_CL | ts\_sal\_dw\_cl\_01 | extract the necessary subset of the data needed to be stored in a particular data mart |
| STAR - Cleansing | SAL\_CL | ts\_sal\_cl\_01 | LOADING data from DW\_CL system and cleaning any redundancy. |
| STAR – Level | FCT\_SALES | ts\_sa\_fct\_sales\_01 | Contains facts (SALES) needed to be in particular data mart |
| DIM\_CUSTOMERS | ts\_sa\_dim\_customers\_01 | Contains customers needed to be in particular data mart |
| DIM\_STORES | ts\_sa\_dim\_stores\_01 | Contains stores needed to be in particular data mart |
| DIM\_EMPLOYEES | ts\_sa\_dim\_employees\_01 | Contains employees needed to be in particular data mart |
| DIM\_PIZZAS\_SCD | ts\_sa\_dim\_pizzas\_scd\_01 | Contains pizzas needed to be in particular data mart |
| DIM\_PROMOTIONS | ts\_sa\_dim\_promotions\_01 | Contains promotions needed to be in particular data mart |
| DIM\_PAYMENT\_METHODS | ts\_sa\_dim\_payment\_methods\_01 | Contains payment methods needed to be in particular data mart |
| DIM\_GEO\_LOCATIONS | ts\_sa\_dim\_geo\_locations\_01 | Contains geo locations needed to be in particular data mart |
| DIM\_DATES | ts\_sa\_dim\_dates\_01 | Contains dates needed to be in particular data mart |
| DIM\_GEN\_PERIOD | ts\_sa\_dim\_gen\_period\_01 | Contains sales categories needed to be in particular data mart |

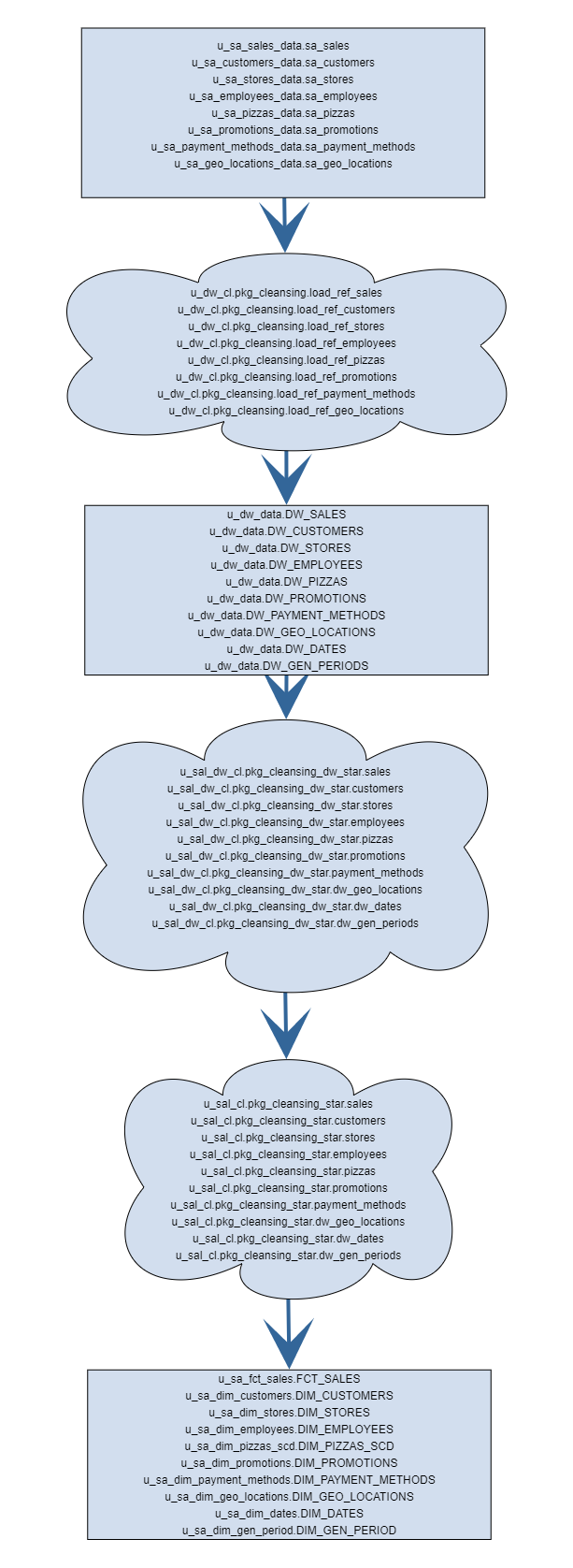
## 2.2. all scripts are located in the folder scripts

## 3. Star – Business analyses task

## 3.1. Task 07: CREATE Prepared Star Objects

## all scripts are located in the folder scripts

## 3.2. Task 08: DataFlow Diagram

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## 3.3. Task 09: Grants Object Privileges

| **USER** | **PRIVILEGES** |
| --- | --- |
| u\_sa\_sales\_data | grant CONNECT,RESOURCE to |
| u\_sa\_customers\_data | grant CONNECT,RESOURCE to u\_sa\_customers\_data; |
| u\_sa\_stores\_data | grant CONNECT,RESOURCE to u\_sa\_stores\_data; |
| u\_sa\_employees\_data | grant CONNECT,RESOURCE to u\_sa\_employees\_data; |
| u\_sa\_pizzas\_data | grant CONNECT,RESOURCE to u\_sa\_pizzas\_data; |
| u\_sa\_promotions\_data | grant CONNECT,RESOURCE to u\_sa\_promotions\_data; |
| u\_sa\_payment\_methods\_data | grant CONNECT,RESOURCE to u\_sa\_payment\_methods\_data; |
| u\_sa\_geo\_locations\_data | grant CONNECT,RESOURCE to u\_sa\_geo\_locations\_data; |
| u\_dw\_cl | grant CONNECT,CREATE VIEW,RESOURCE to u\_dw\_cl; |
| u\_dw\_data | grant CONNECT,RESOURCE to u\_dw\_data; |
| u\_sal\_dw\_cl | grant CONNECT,CREATE VIEW,RESOURCE to u\_sal\_dw\_cl; |
| u\_sal\_cl | grant CONNECT,CREATE VIEW,RESOURCE to u\_sal\_cl; |
| u\_sa\_fct\_sales | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_fct\_sales; |
| u\_sa\_dim\_customers | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_customers; |
| u\_sa\_dim\_stores | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_stores; |
| u\_sa\_dim\_employees | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_employees; |
| u\_sa\_dim\_pizzas\_scd | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_pizzas\_scd; |
| u\_sa\_dim\_promotions | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_promotions; |
| u\_sa\_dim\_payment\_methods | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_payment\_methods; |
| u\_sa\_dim\_geo\_locations | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_geo\_locations; |
| u\_sa\_dim\_dates | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_dates; |
| u\_sa\_dim\_gen\_period | grant CONNECT,CREATE VIEW,RESOURCE to u\_sa\_dim\_gen\_period; |