

Lab report #8
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Task 1 - CREATE Schema of simple Data Warehouse Architecture

Level Type	Object Name	Tablespace	Description
Storage Level SA_*	SA_CLIENTS	ts_sa_clients_data_01	Loading from structured files (exp. XML*). Contains information about client.
	SA_ORDERS	ts_sa_orders_data_01	Loading from float files. Contains information about order.
	SA_EMPLOYEES	ts_sa_employees_data_01	Loading from structured files (exp. XML*). Contains information about employee.
DW – Cleansing level	DW_CL	ts_dw_cl	Loading from stage level system. Contains all information prepare it for further usage (cleaning it).
DW – Level	DW_DATA	ts_dw_data_01	LOADING data from cleansing system. Contains clean information tending to the 3 rd normal form ready for preparing 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_CLIENT	ts_sa_dim_client_01	Store information about dim client.
	DM_ORDER	ts_sa_fct_order_01	Store information about fact order.
	DM_EMPLOYEE	ts_sa_dim_employee_01	Store information about dim employee.
	DM_RESTAURANT	ts_sa_dim_restaurant_01	Store information about dim restaurant.
	DM_DISH	ts_sa_dim_dish_01	Store information about dim dish.
	DM_PAYMENT_METHOD	ts_sa_dim_payment_method_01	Store information about dim payment method.

Task 2 – CREATE Storage Level

```
CREATE TABLESPACE ts_sa_clients_data_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_clients_data_01.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER sa_clients
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sa_clients_data_01;

GRANT CONNECT,RESOURCE TO sa_clients;
```

Script Output x

Task completed in 1,071 seconds

TABLESPACE TS_SA_CLIENTS_DATA_01 created.

User SA_CLIENTS created.

Grant succeeded.

```
CREATE TABLESPACE ts_sa_orders_data_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_orders_data_01.dat'
SIZE 200M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER sa_orders
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sa_orders_data_01;

GRANT CONNECT,RESOURCE TO sa_orders;
```

Script Output x

Task completed in 0,501 seconds

TABLESPACE TS_SA_ORDERS_DATA_01 created.

User SA_ORDERS created.

Grant succeeded.

```
CREATE TABLESPACE ts_sa_employees_data_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_employees_data_01.dat'
SIZE 100M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER sa_employees
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sa_employees_data_01;

GRANT CONNECT,RESOURCE TO sa_employees;
```

Script Output x

Task completed in 0,605 seconds

TABLESPACE TS_SA_EMPLOYEES_DATA_01 created.

User SA_EMPLOYEES created.

Grant succeeded.

Task 3 – CREATE Data warehouse Cleansing Level

```
CREATE TABLESPACE ts_dw_cl
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_dw_cl.dat'
SIZE 200M
AUTOEXTEND ON NEXT 100M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dw_cl
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_dw_cl;

GRANT CONNECT,RESOURCE, CREATE VIEW TO dw_cl;
```

Script Output x

Task completed in 0,465 seconds

TABLESPACE TS_DW_CL created.

User DW_CL created.

Grant succeeded.

Task 4 – CREATE Data warehouse Start Cleansing Level

```
CREATE TABLESPACE ts_dw_data_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_dw_data_01.dat'
SIZE 200M
AUTOEXTEND ON NEXT 100M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dw_data
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_dw_data_01;

GRANT CONNECT,RESOURCE TO dw_data;
```

Script Output x

Task completed in 0,442 seconds

TABLESPACE TS_DW_DATA_01 created.

User DW_DATA created.

Grant succeeded.

Task 5 – CREATE Start Cleansing Level

```
CREATE TABLESPACE ts_dw_str_cls
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_dw_str_cls.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER sal_dw_cl
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_dw_str_cls;

GRANT CONNECT,RESOURCE, CREATE VIEW TO sal_dw_cl;
```

Script Output x

Task completed in 0,42 seconds

TABLESPACE TS_DW_STR_CLS created.

User SAL_DW_CL created.

Grant succeeded.

```
CREATE TABLESPACE ts_sal_cl
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sal_cl.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER sal_cl
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sal_cl;

GRANT CONNECT,RESOURCE, CREATE VIEW TO sal_cl;
```

Script Output x

Task completed in 0,409 seconds

TABLESPACE TS_SAL_CL created.

User SAL_CL created.

Grant succeeded.

Task 6 – CREATE Data warehouse Start Level and Data Marts

```
CREATE TABLESPACE ts_sa_dim_client_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_dim_client_01.dat'
SIZE 150M reuse
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dm_client
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sa_dim_client_01;

GRANT CONNECT,RESOURCE, CREATE VIEW TO dm_client;
```

Script Output x

Task completed in 0,515 seconds

TABLESPACE TS_SA_DIM_CLIENT_01 created.

User DM_CLIENT created.

Grant succeeded.

```
CREATE TABLESPACE ts_sa_fct_order_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_fct_order_01.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dm_order
  IDENTIFIED BY "%PWD%"
  DEFAULT TABLESPACE ts_sa_fct_order_01;

GRANT CONNECT,RESOURCE, CREATE VIEW TO dm_order;
```

Script Output x

Task completed in 0,427 seconds

TABLESPACE TS_SA_FCT_ORDER_01 created.

User DM_ORDER created.

Grant succeeded.

```
CREATE TABLESPACE ts_sa_dim_employee_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_dim_employee_01.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dm_employee
  IDENTIFIED BY "%PWD%"
  DEFAULT TABLESPACE ts_sa_dim_employee_01;

GRANT CONNECT,RESOURCE, CREATE VIEW TO dm_employee;
```

Script Output x

Task completed in 0,388 seconds

TABLESPACE TS_SA_DIM_EMPLOYEE_01 created.

User DM_EMPLOYEE created.

Grant succeeded.


```
CREATE TABLESPACE ts_sa_dim_restaurant_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_dim_restaurant_01.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dm_restaurant
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sa_dim_restaurant_01;

GRANT CONNECT,RESOURCE, CREATE VIEW TO dm_restaurant;
```

Script Output x

Task completed in 0,448 seconds

TABLESPACE TS_SA_DIM_RESTAURANT_01 created.

User DM_RESTAURANT created.

Grant succeeded.

```
CREATE TABLESPACE ts_sa_dim_dish_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_dim_dish_01.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dm_dish
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sa_dim_dish_01;

GRANT CONNECT,RESOURCE, CREATE VIEW TO dm_dish;
```

Script Output x

Task completed in 0,389 seconds

TABLESPACE TS_SA_DIM_DISH_01 created.

User DM_DISH created.

Grant succeeded.

```

CREATE TABLESPACE ts_sa_dim_payment_method_01
DATAFILE '/oracle/u02/oradata/VSadovskaiadb/db_ts_sa_dim_payment_method_01.dat'
SIZE 150M
AUTOEXTEND ON NEXT 50M
SEGMENT SPACE MANAGEMENT AUTO;

CREATE USER dm_payment_method
IDENTIFIED BY "%PWD%"
DEFAULT TABLESPACE ts_sa_dim_payment_method_01;

GRANT CONNECT,RESOURCE, CREATE VIEW TO dm_payment_method;

```

Script Output x

Task completed in 0,559 seconds

TABLESPACE TS_SA_DIM_PAYMENT_METHOD_01 created.

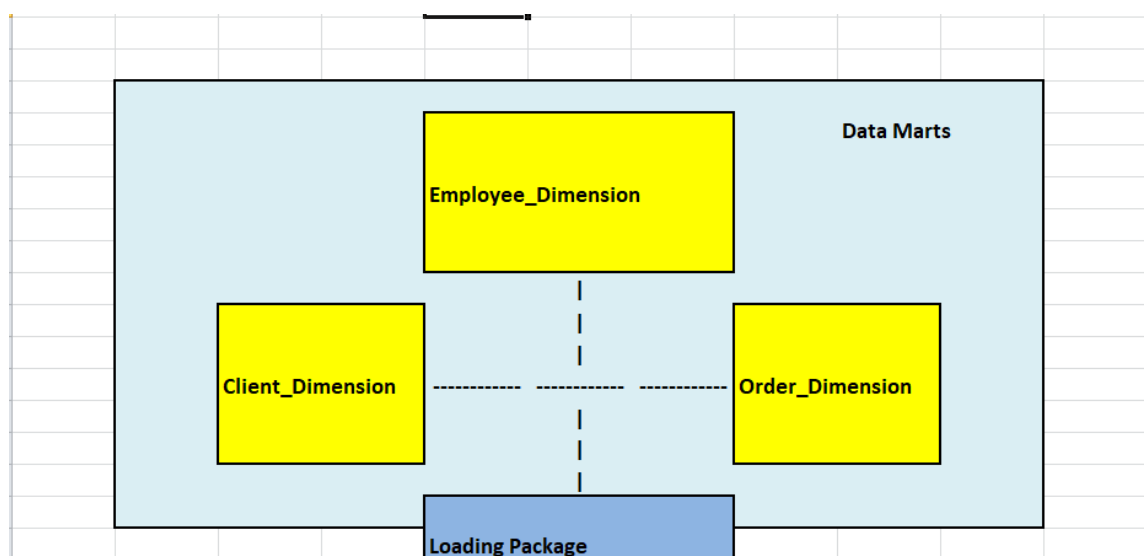
User DM_PAYMENT_METHOD created.

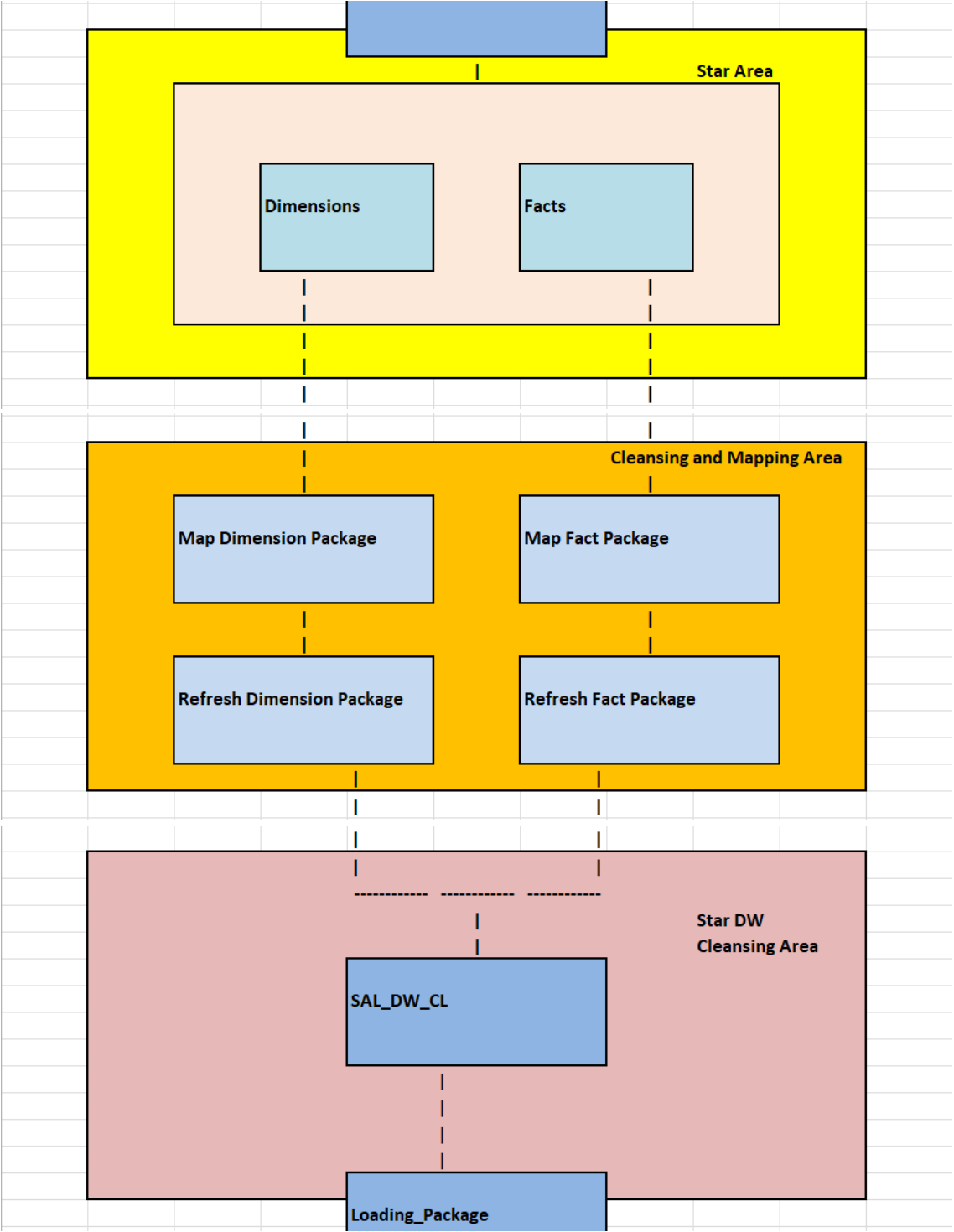
Grant succeeded.

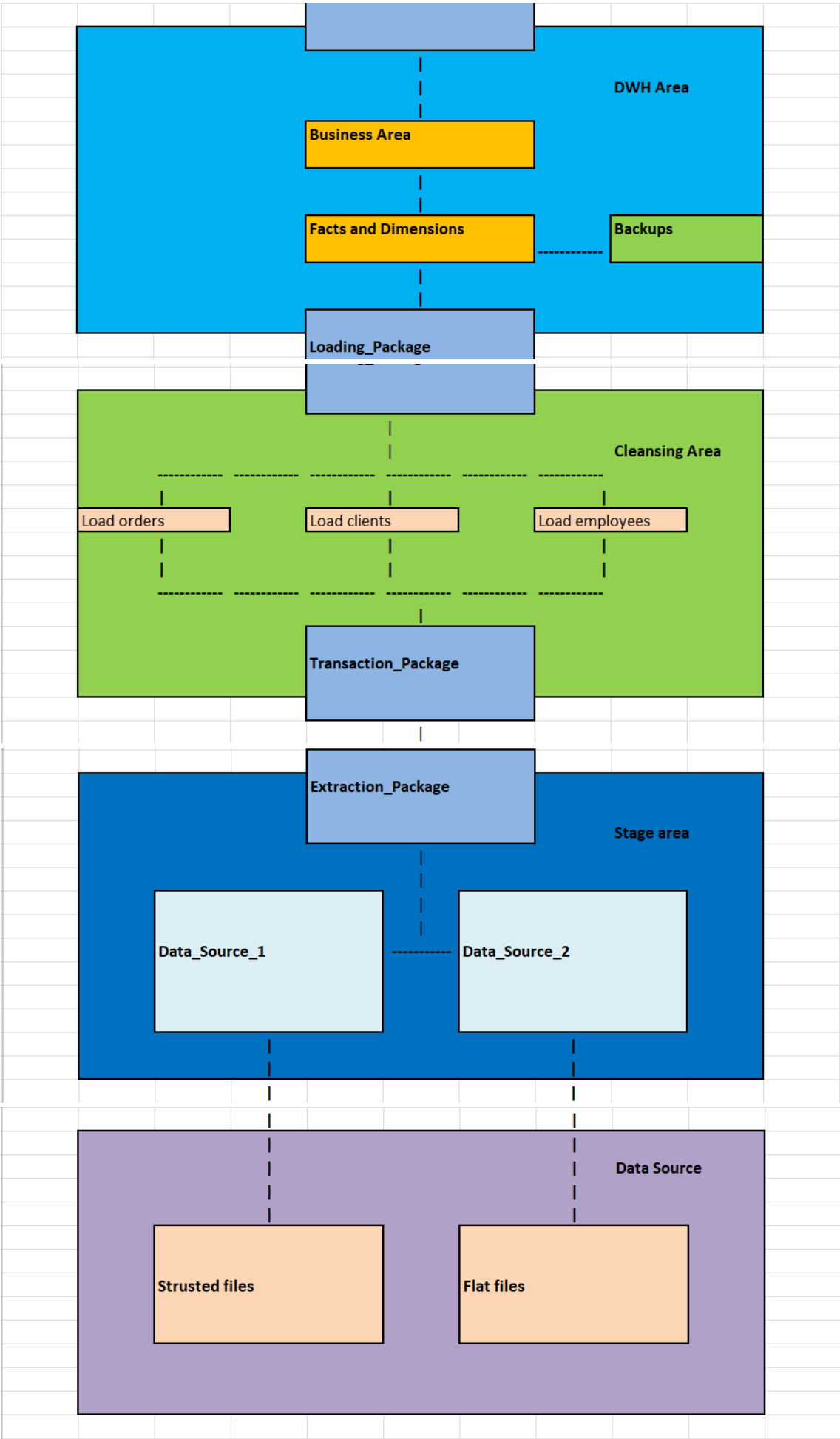
Task 7 – CREATE Prepared Star Objects

Git: <https://github.com/sdveronika/DataMola22>

Task 8 - DataFlow Diagram







Task 9 - Grants Object Privileges

All privileges are on the screenshots in tasks 1-6.