**Report “Lab 8-9”**

**Anton Tserakhau**

## ETL Transportation – Example of Loading FCT\_\*

## Task 02: Prepare Table of Facts to DW Layer

I have created required objects on DW layers and realize load process for Facts.

1. I have created tablespaces, user and granted all required privileges.

CREATE TABLESPACE "TS\_STAGE\_DATA\_01"

DATAFILE 'db\_qpt\_stage\_data\_01.dat'

SIZE 200M

AUTOEXTEND ON NEXT 100M

/

CREATE TABLESPACE "TS\_STAGE\_IDX\_01"

DATAFILE 'db\_qpt\_stage\_idx\_01.dat'

SIZE 50M

AUTOEXTEND ON NEXT 25M

/

CREATE TABLESPACE "TS\_STAGE\_TEMP\_01"

DATAFILE 'db\_qpt\_stage\_temp\_01.dat'

SIZE 50M

AUTOEXTEND ON NEXT 25M

/

CREATE USER "U\_DW\_STAGE"

identified by "%PWD%"

default tablespace ts\_stage\_data\_01

temporary tablespace ts\_stage\_temp\_01

QUOTA UNLIMITED ON ts\_stage\_data\_01

QUOTA UNLIMITED ON ts\_stage\_temp\_01

QUOTA UNLIMITED ON ts\_stage\_idx\_01

/

GRANT CONNECT,RESOURCE TO "U\_DW\_STAGE"

/

grant select on u\_dw\_ext\_references.CLS\_CNTR2GROUPING\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_CNTR\_GROUPING\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_GEO\_COUNTRIES2\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_GEO\_COUNTRIES\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_CNTR2STRUCTURE\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_CNTR\_GROUPING\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_GEO\_COUNTRIES2\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_GEO\_STRUCTURE\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_CNTR2STRUCTURE\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_GEO\_STRUCTURE\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_CNTR2GROUPING\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_GEO\_COUNTRIES\_ISO3166 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_LANGUAGES\_ISO693 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_LNG\_MACRO2IND\_ISO693 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_LANGUAGES\_ISO693 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_LNG\_MACRO2IND\_ISO693 to u\_dw\_stage;

grant select on u\_dw\_ext\_references.T\_EXT\_DISHES to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_DISHES to u\_dw\_stage;

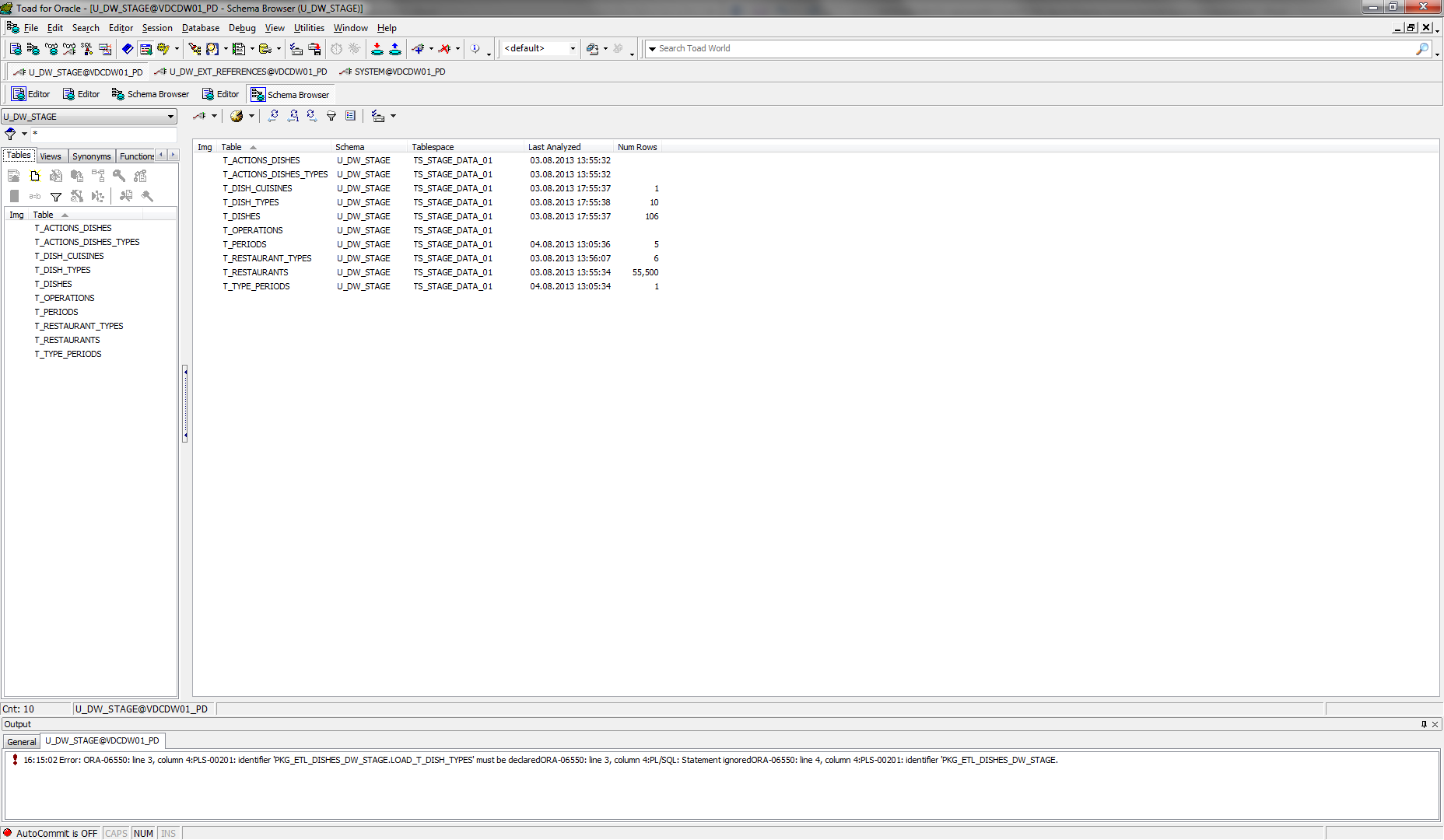
grant select on u\_dw\_ext\_references.TEMP\_CITY\_ADDR to u\_dw\_stage;

grant select on u\_dw\_ext\_references.CLS\_RESTAURANTS to u\_dw\_stage;

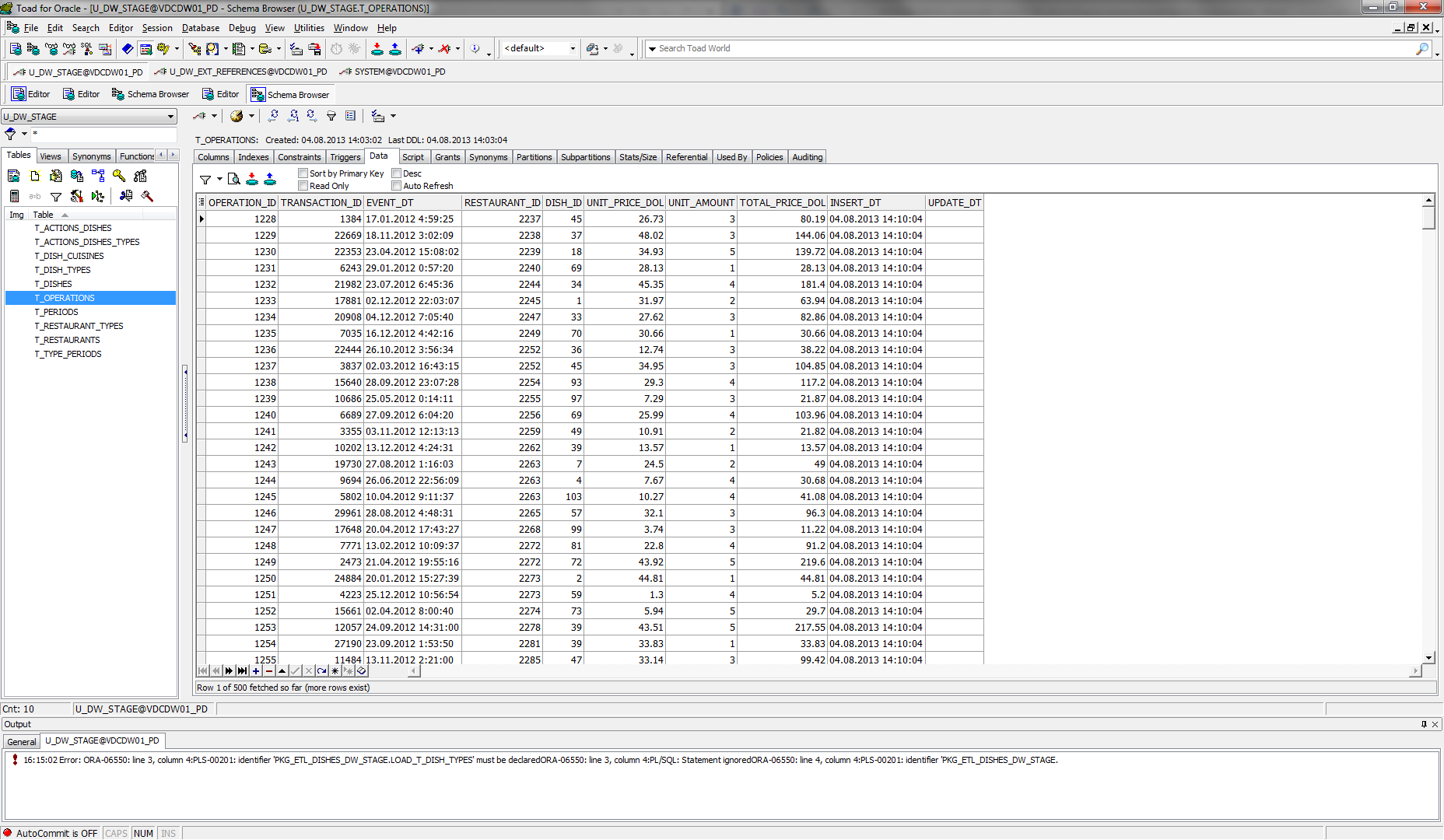
grant select on u\_dw\_ext\_references.CLS\_OPERATIONS to u\_dw\_stage;

grant select on U\_DW\_EXT\_REFERENCES.CLS\_PERIODS to U\_DW\_STAGE;

1. I have created all required objects on Stage Layer and sequences:



1. I have reload data to table T\_OPERATIONS with using Merge (package *pkg\_etl\_operations\_dw\_stage*):



1. I have tested data for consistent. Scripts are in folder *test\_data.*

( ( SELECT transaction\_id

, event\_dt

, restaurant\_id

, dish\_id

, unit\_price\_dol

, unit\_amount

, total\_price\_dol

FROM t\_operations )

MINUS

( SELECT transaction\_code

, event\_dt

, t\_restaurants.restaurant\_id

, t\_dishes.dish\_id

, unit\_price\_dol

, unit\_amount

, total\_price\_dol

FROM u\_dw\_ext\_references.cls\_operations t

LEFT JOIN t\_restaurants

ON t\_restaurants.restaurant\_code = t.restaurant\_code

LEFT JOIN t\_dishes

ON t\_dishes.dish\_code = t.dish\_code ) )

UNION ALL

( ( SELECT transaction\_code

, event\_dt

, t\_restaurants.restaurant\_id

, t\_dishes.dish\_id

, unit\_price\_dol

, unit\_amount

, total\_price\_dol

FROM u\_dw\_ext\_references.cls\_operations t

LEFT JOIN t\_restaurants

ON t\_restaurants.restaurant\_code = t.restaurant\_code

LEFT JOIN t\_dishes

ON t\_dishes.dish\_code = t.dish\_code )

MINUS

( SELECT transaction\_id

, event\_dt

, restaurant\_id

, dish\_id

, unit\_price\_dol

, unit\_amount

, total\_price\_dol

FROM t\_operations ) );

