**Report “Lab 10-11”**

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# ETL

## Task 01: Loading to DIM SCD 2

I have created table T\_ACTIONS that stores all history about changing links:

ALTER TABLE u\_dw\_references.t\_actions

DROP PRIMARY KEY CASCADE;

DROP TABLE u\_dw\_references.t\_actions CASCADE CONSTRAINTS;

CREATE TABLE u\_dw\_references.t\_actions

(

action\_id NUMBER ( 25 )

, child\_geo\_id NUMBER ( 22 )

, parent\_geo\_id\_old NUMBER ( 22 )

, parent\_geo\_id\_new NUMBER ( 22 )

, action\_dt DATE

)

TABLESPACE ts\_references\_data\_01;

CREATE UNIQUE INDEX u\_dw\_references.t\_actions\_pk

ON u\_dw\_references.t\_actions ( action\_id )

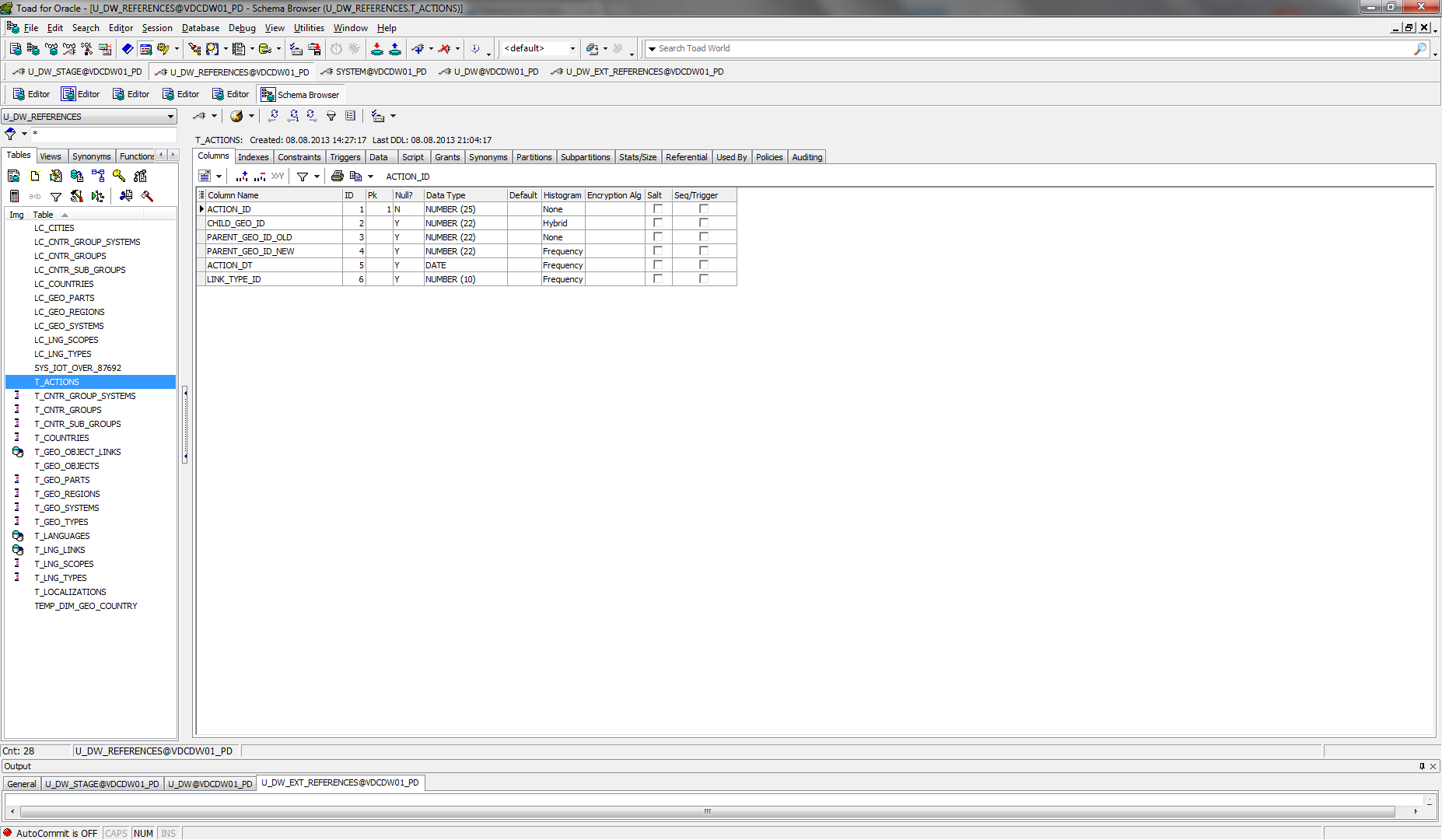
TABLESPACE ts\_references\_data\_01;

ALTER TABLE u\_dw\_references.t\_actions ADD (

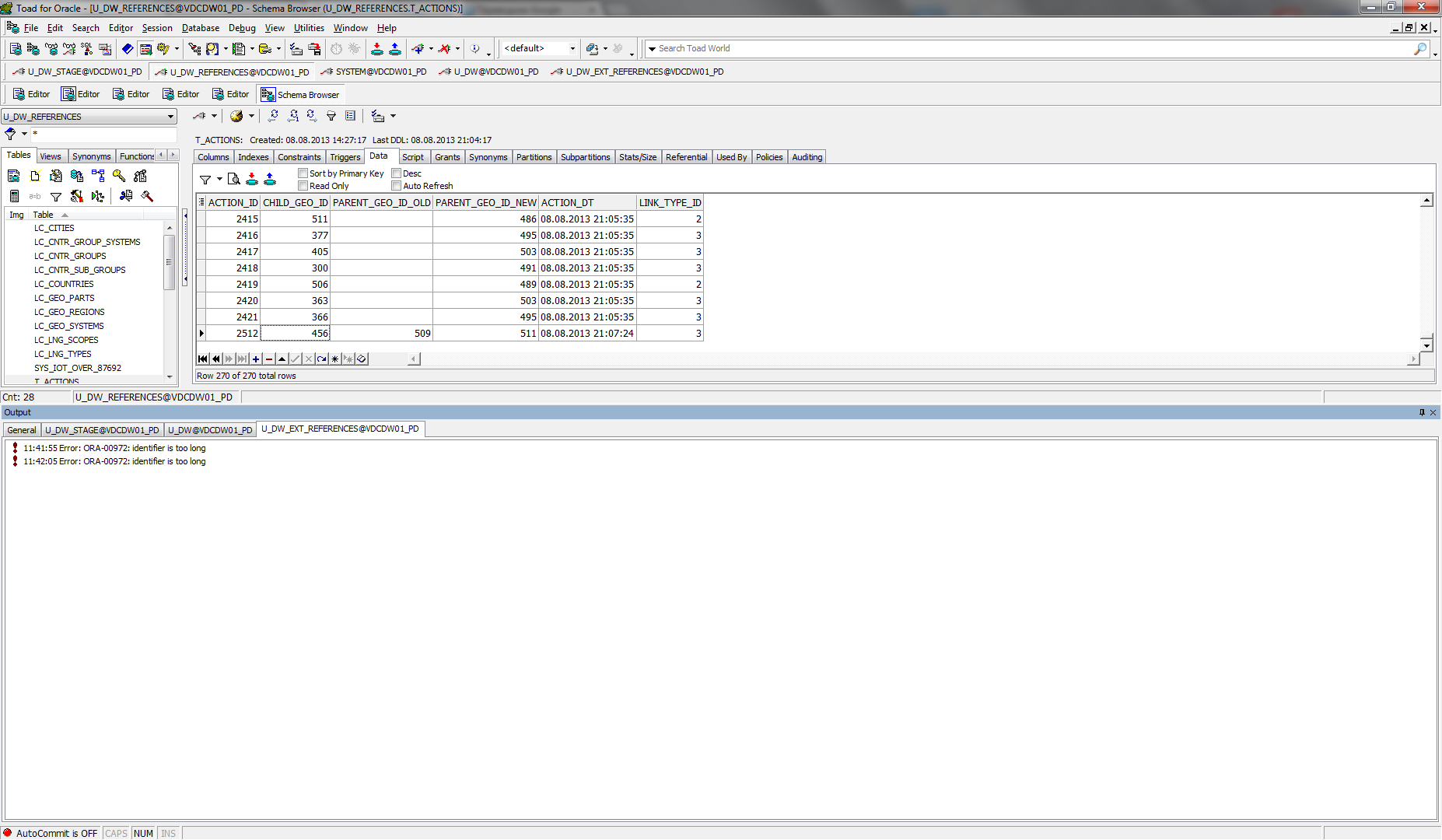
CONSTRAINT t\_actions\_pk

PRIMARY KEY

(action\_id));



I have created script, which loads into table T\_ACTIONS all changes (*pkg\_etl\_geo\_actions\_dw\_ext\_references*):



I have created dimension DIM\_GEO\_LOCATIONS\_SCD

DROP TABLE U\_DW.DIM\_GEO\_LOCATIONS\_SCD CASCADE CONSTRAINTS;

CREATE TABLE U\_DW.DIM\_GEO\_LOCATIONS\_SCD

(

SURR\_ID NUMBER(22),

COUNTRY\_GEO\_ID NUMBER(22),

COUNTRY\_ID NUMBER(22),

COUNTRY\_CODE\_A2 VARCHAR2(30 CHAR),

COUNTRY\_CODE\_A3 VARCHAR2(30 CHAR),

COUNTRY\_DESC VARCHAR2(200 CHAR),

REGION\_GEO\_ID NUMBER(22),

REGION\_ID NUMBER(22),

REGION\_CODE VARCHAR2(30 CHAR),

REGION\_DESC VARCHAR2(200 CHAR),

PART\_GEO\_ID NUMBER(22),

PART\_ID NUMBER(22),

PART\_CODE VARCHAR2(30 CHAR),

PART\_DESC VARCHAR2(200 CHAR),

GEO\_SYSTEM\_GEO\_ID NUMBER(22),

GEO\_SYSTEM\_ID NUMBER(22),

GEO\_SYSTEM\_CODE VARCHAR2(30 CHAR),

GEO\_SYSTEM\_DESC VARCHAR2(200 CHAR),

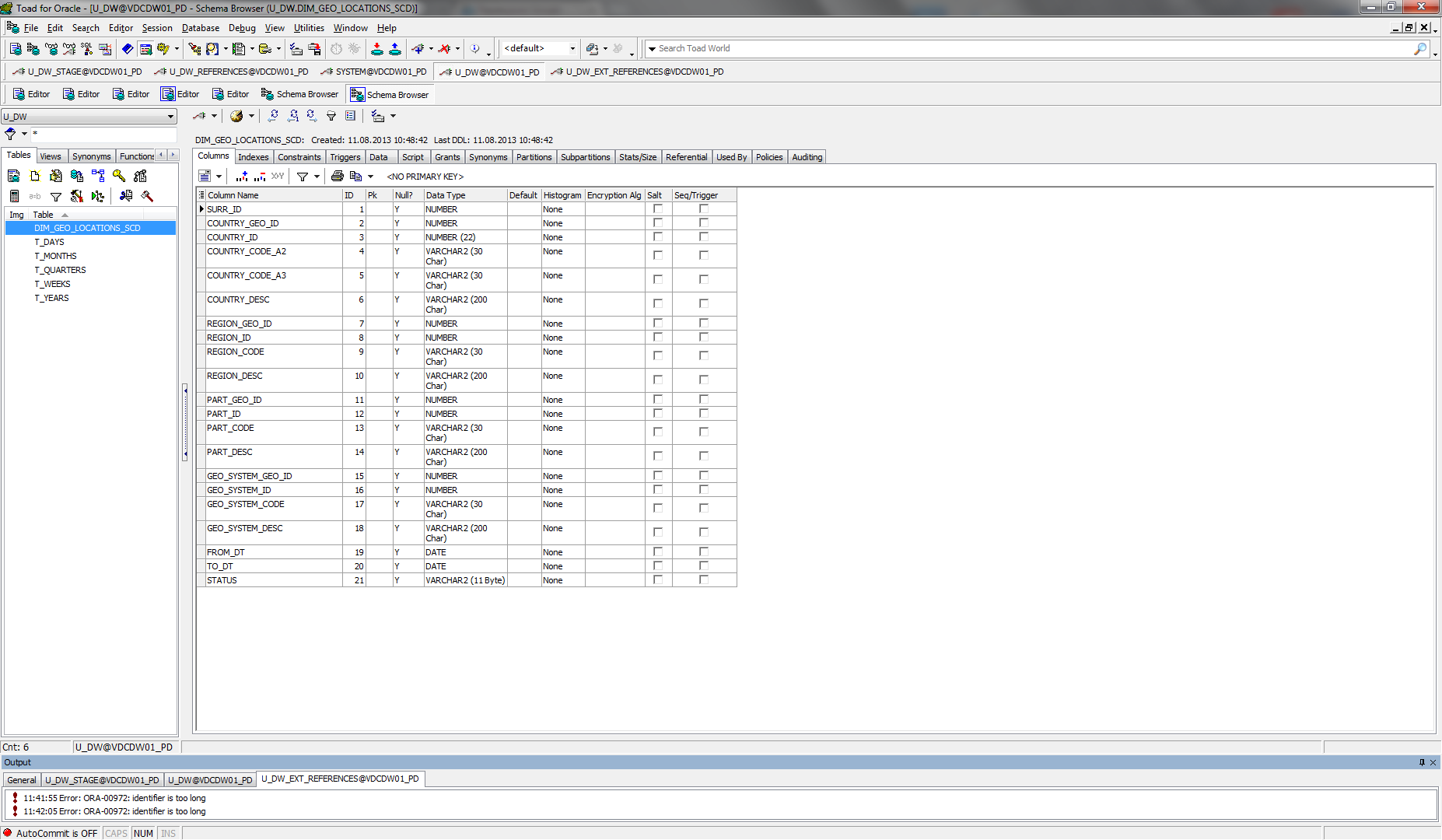
FROM\_DT DATE,

TO\_DT DATE,

STATUS VARCHAR2(15 BYTE)

)

TABLESPACE TS\_DW;



I have created script, which loads into table DIM\_GEO\_LOCATIONS\_SCD data (*pkg\_etl\_dim\_geo\_locations\_scd\_dw*):

