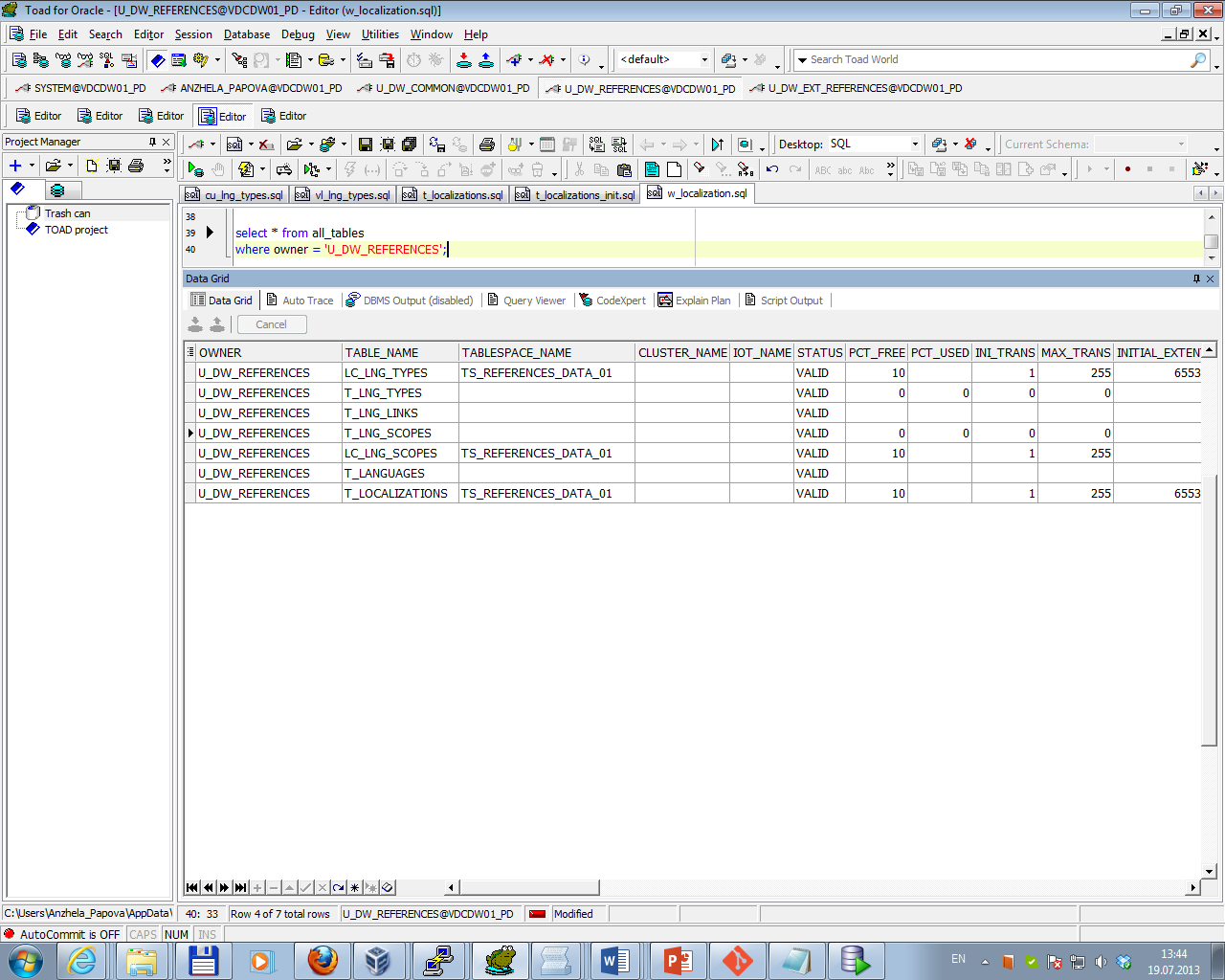
Here are the results of labwork 06:

**OLTP – Load External References – Normalization of Data**

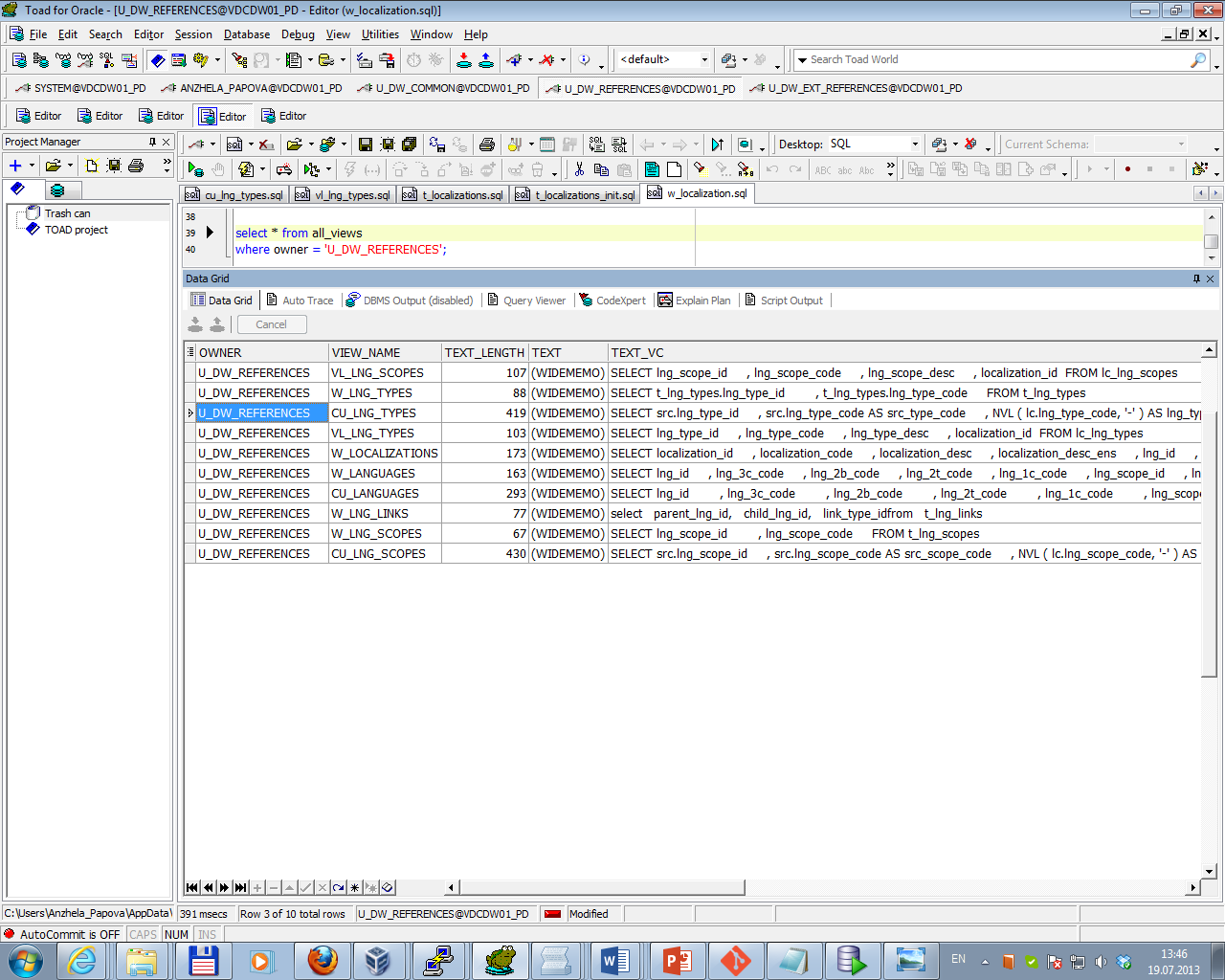
Task 01 Install and expand load of external references T\_Languages

After installing necessary scripts some objects (tables and views) were created; all necessary data was unloaded. List of All created tables and views (by their owners) are presented below.

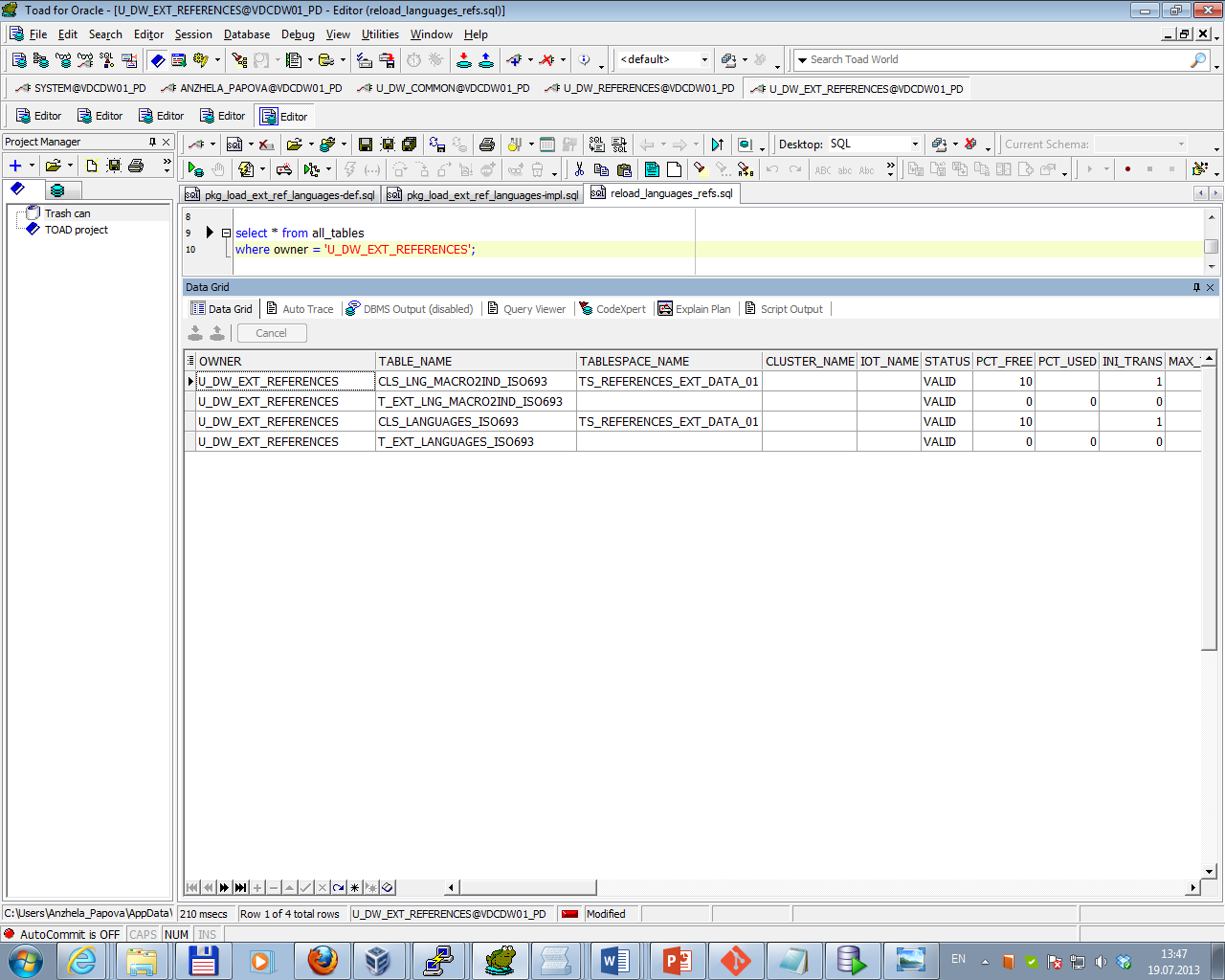
*Tables of user U\_DW\_REFERENCES:*



*Views of user U\_DW\_REFERENCES:*



*Tables of user U\_DW\_EXT\_REFERENCES:*



Sketch Diagram of loading external references is presented below.

Topic 06 - Star Schema Basics\External\_References\ iso-639-3-Macro.tab

Topic 06 - Star Schema Basics\External\_References\ iso-639-3.tab

Oracle Loader

External Table

t\_ext\_lng\_macro2ind\_

iso693

External Table

t\_ext\_languages\_iso693

PROCEDURE load\_cls\_links\_macro2

indiv

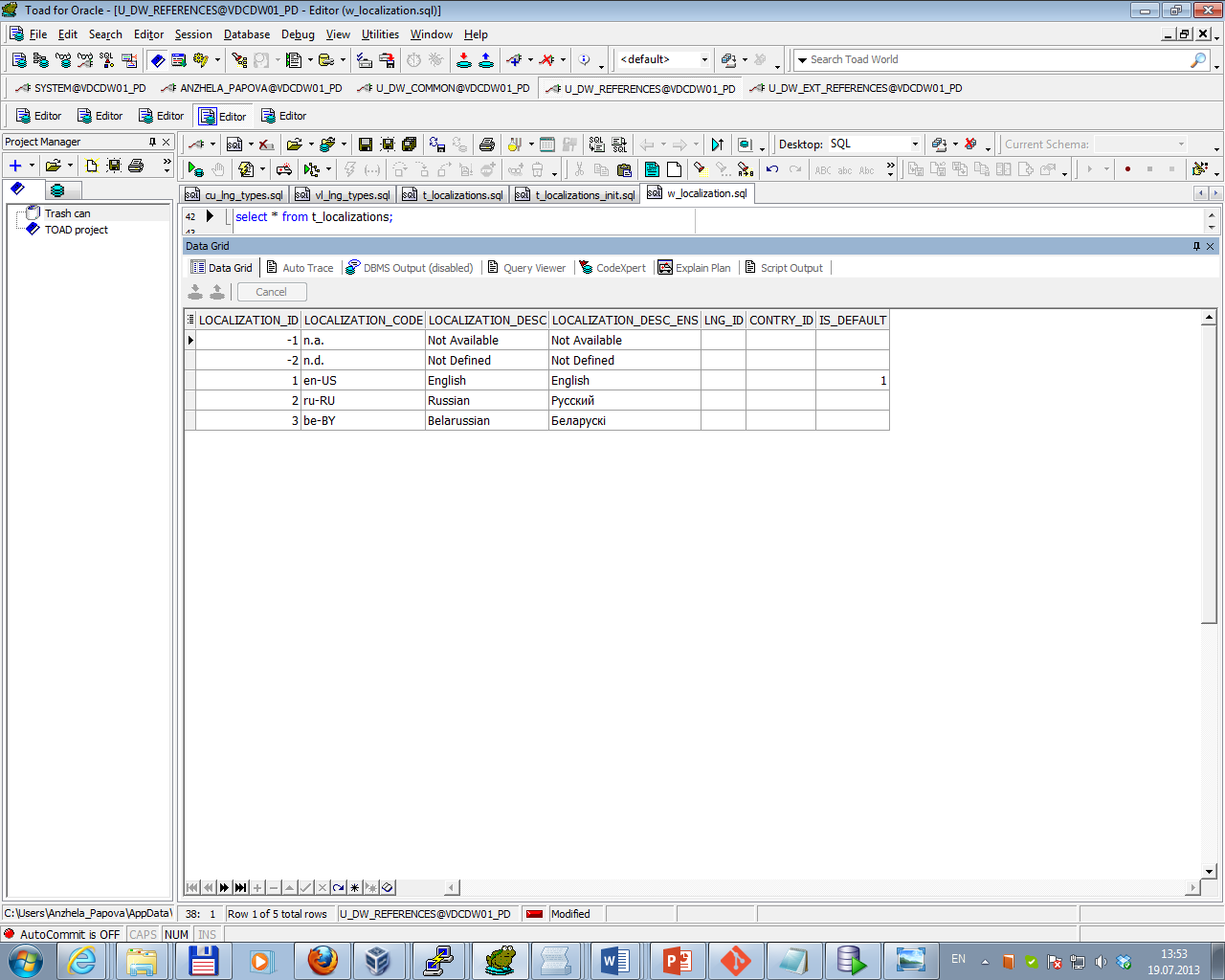
PROCEDURE load\_cls\_languages

cls\_languages\_iso693

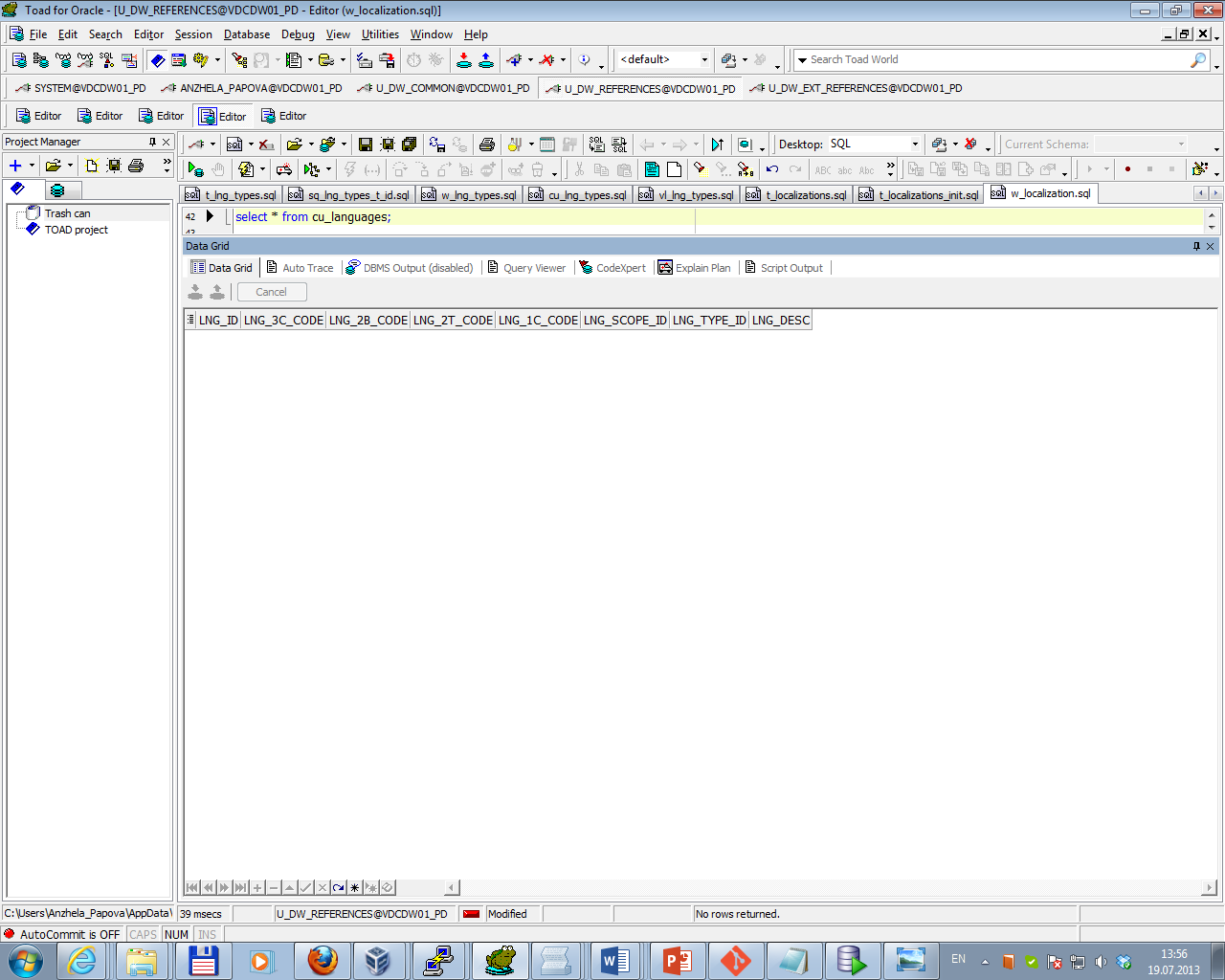
cls\_lng\_macro2ind\_iso693

The next screenshots illustrate result of data on objects.

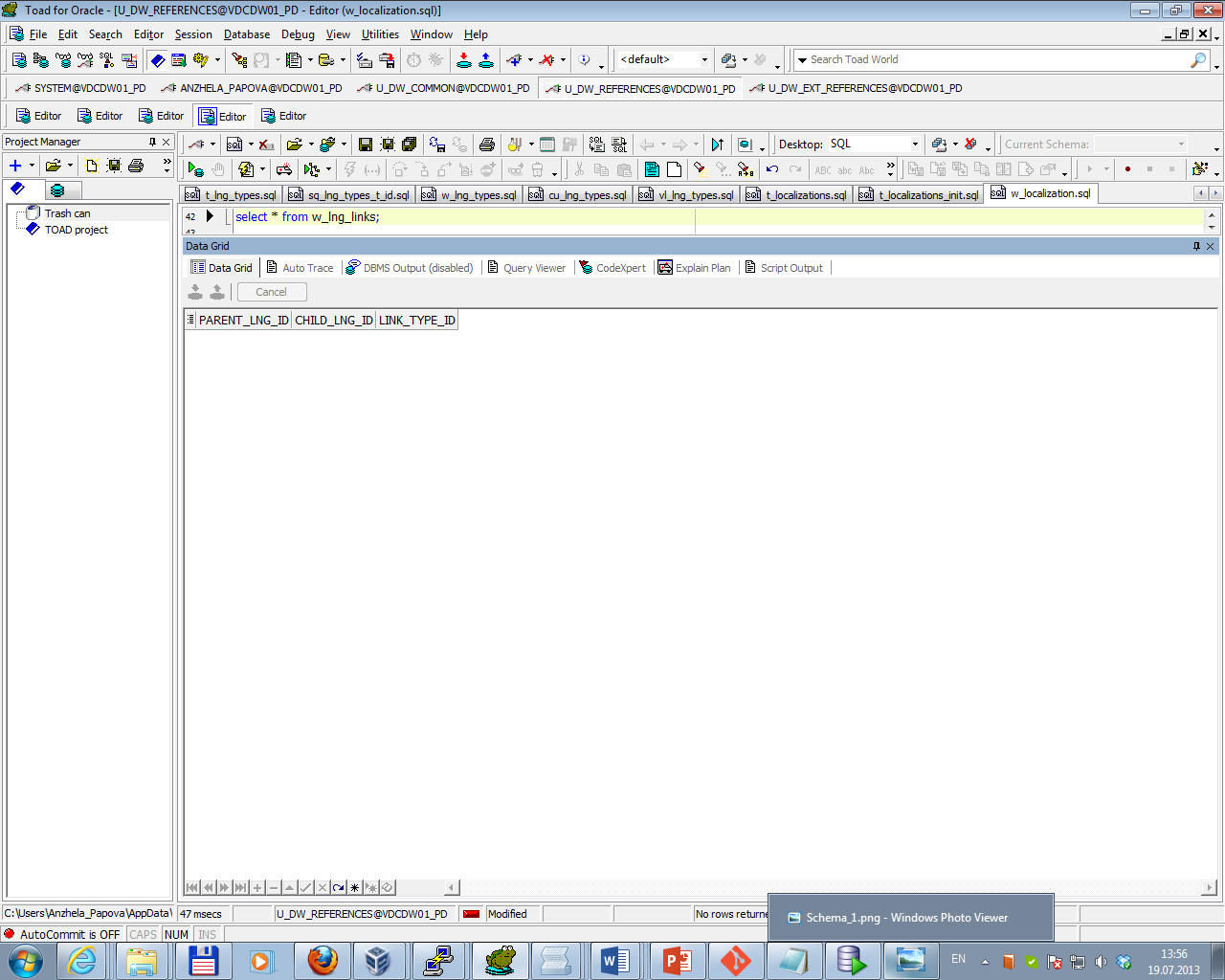
*Data on t\_localizations:*



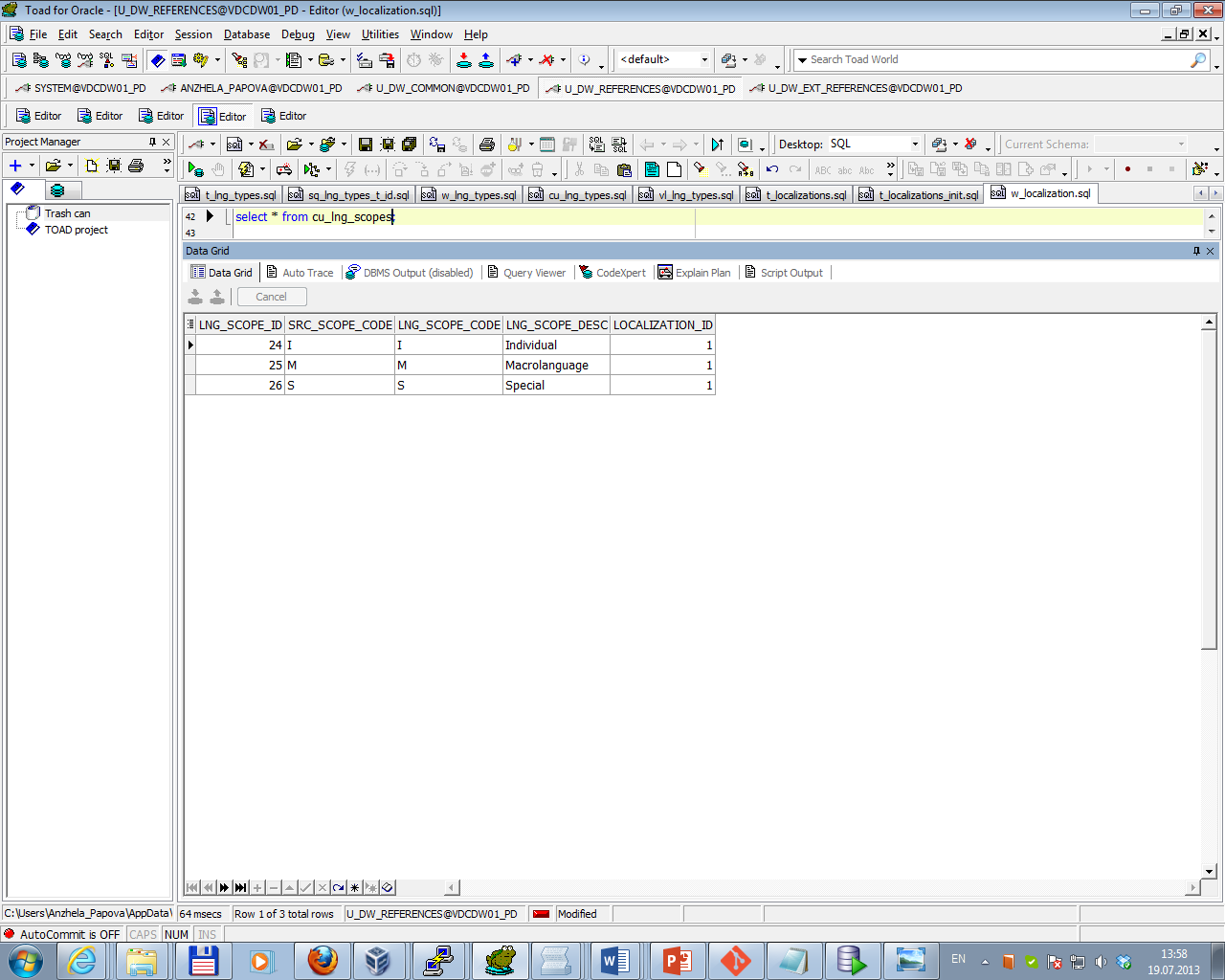
*Data on cu\_languages:*



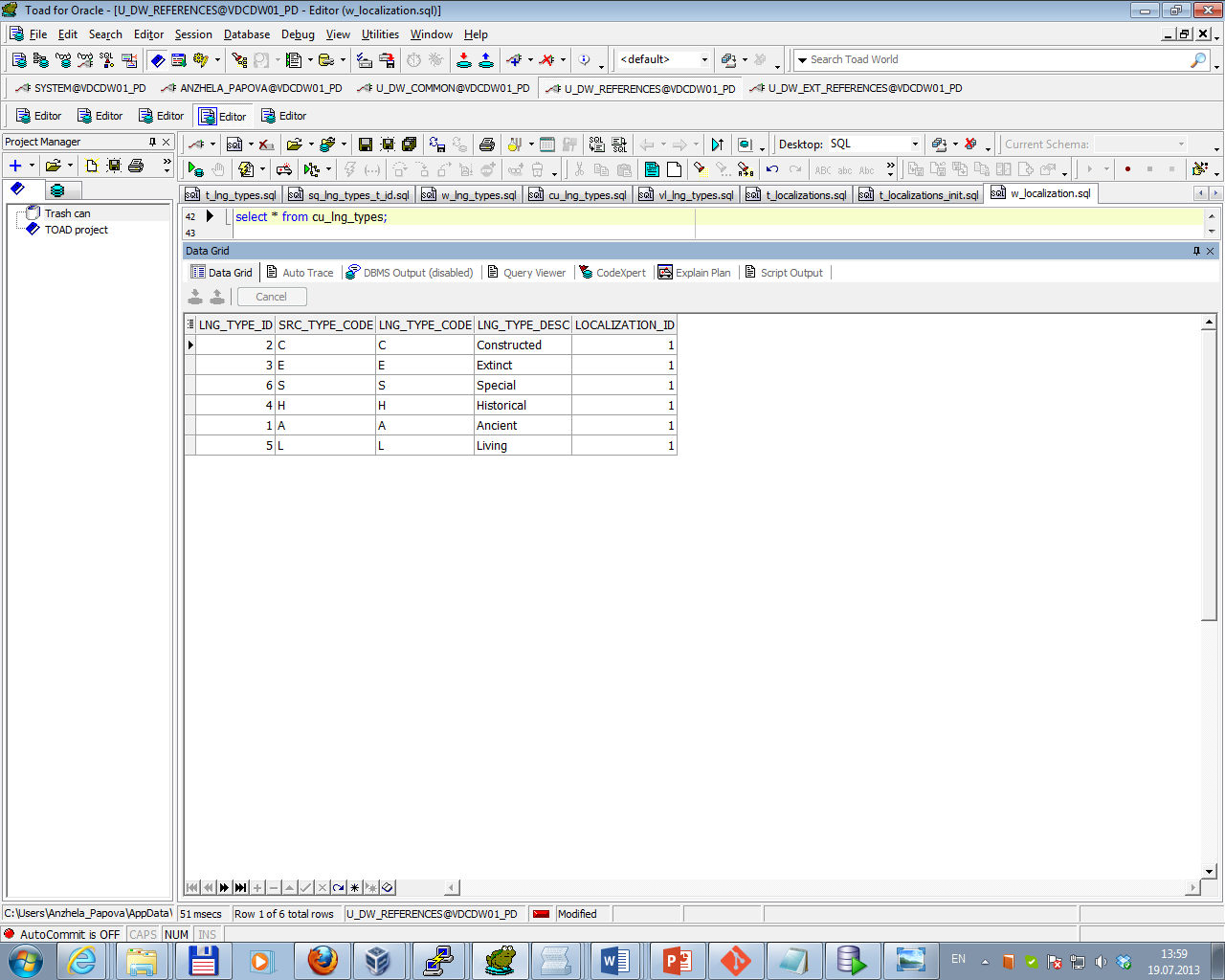
*Data on w\_lng\_links:*



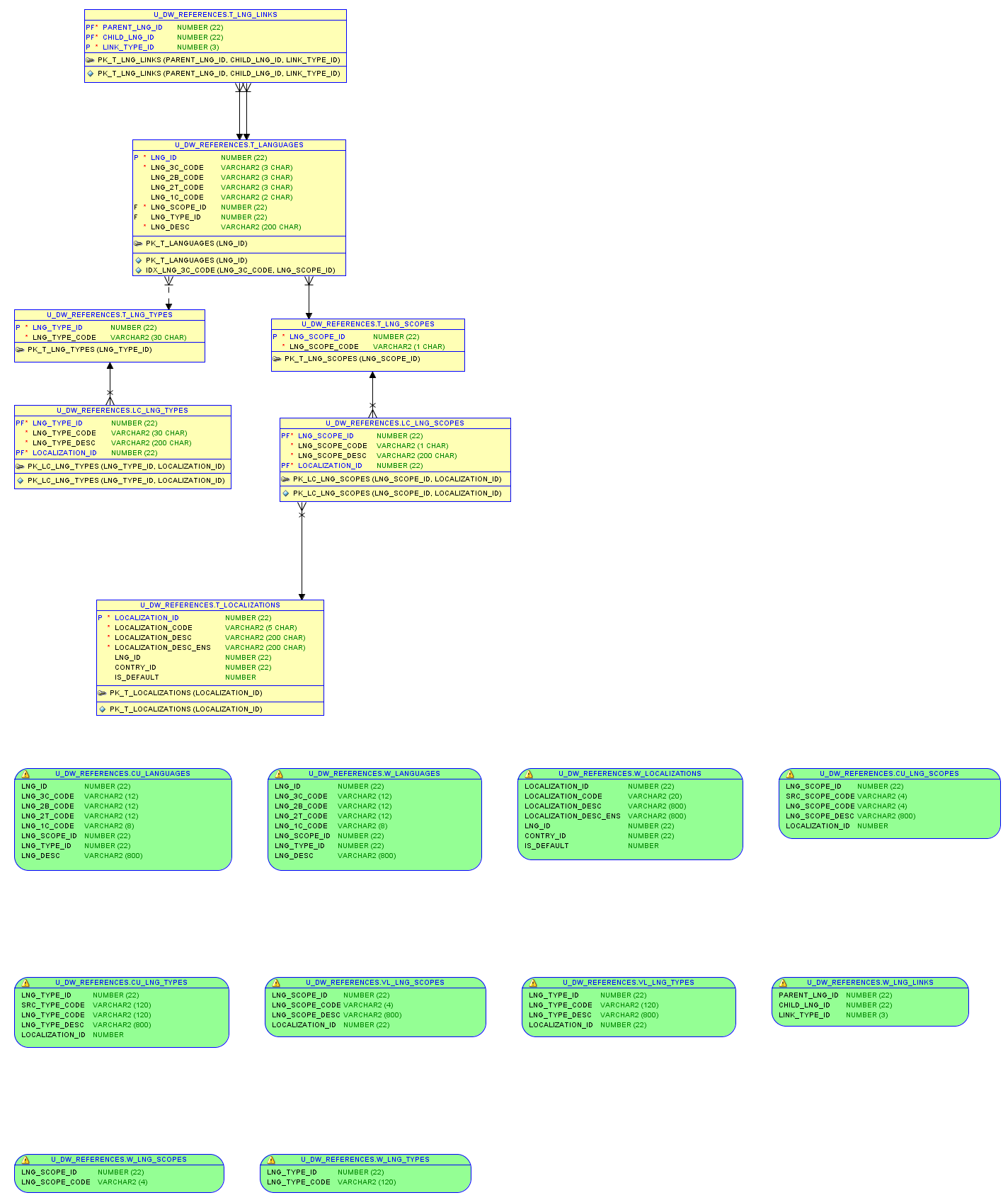
*Data on cu\_lng\_scopes:*



*Data on cu\_lng\_types:*



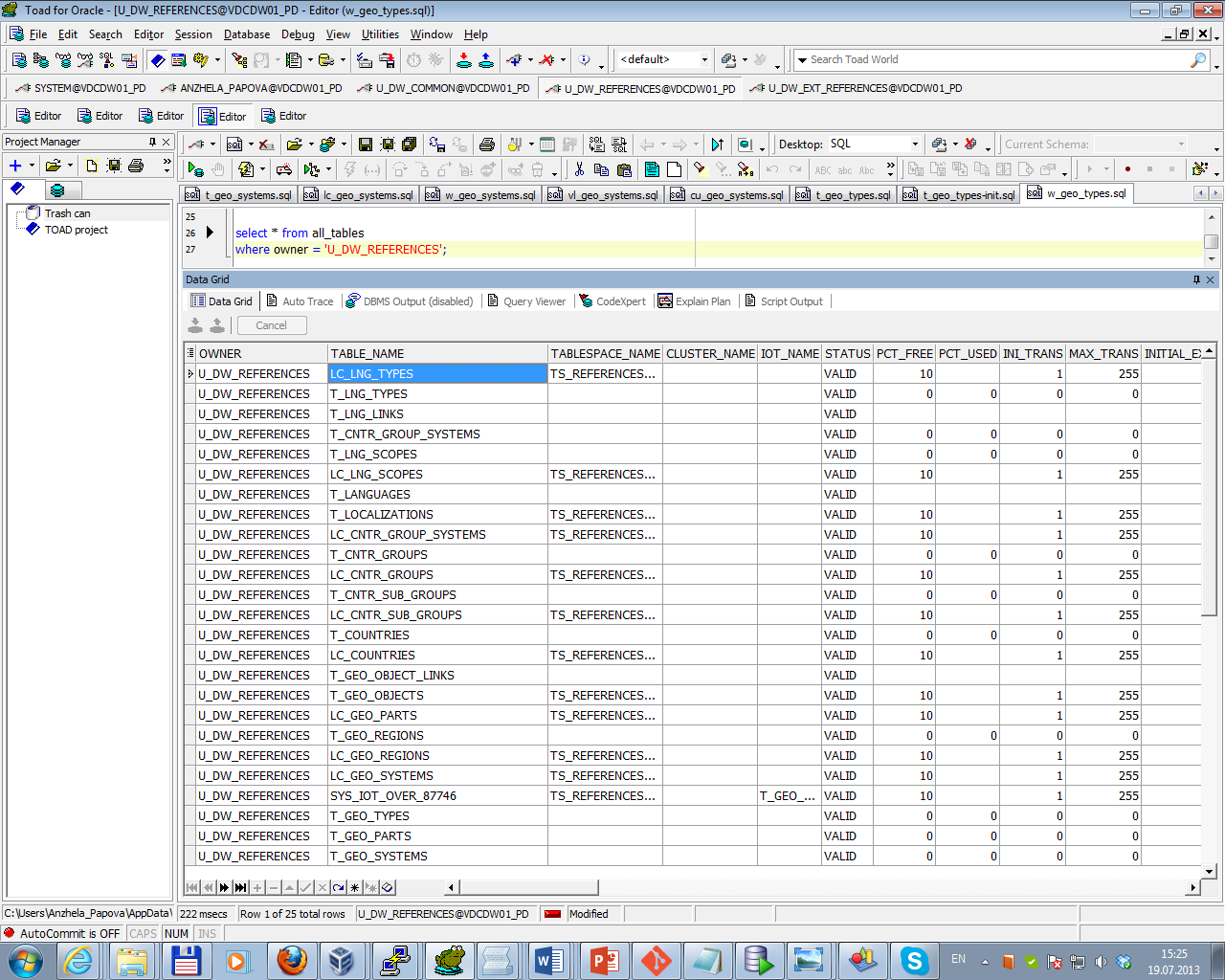
The Physical diagram of T\_Languages is presented below.



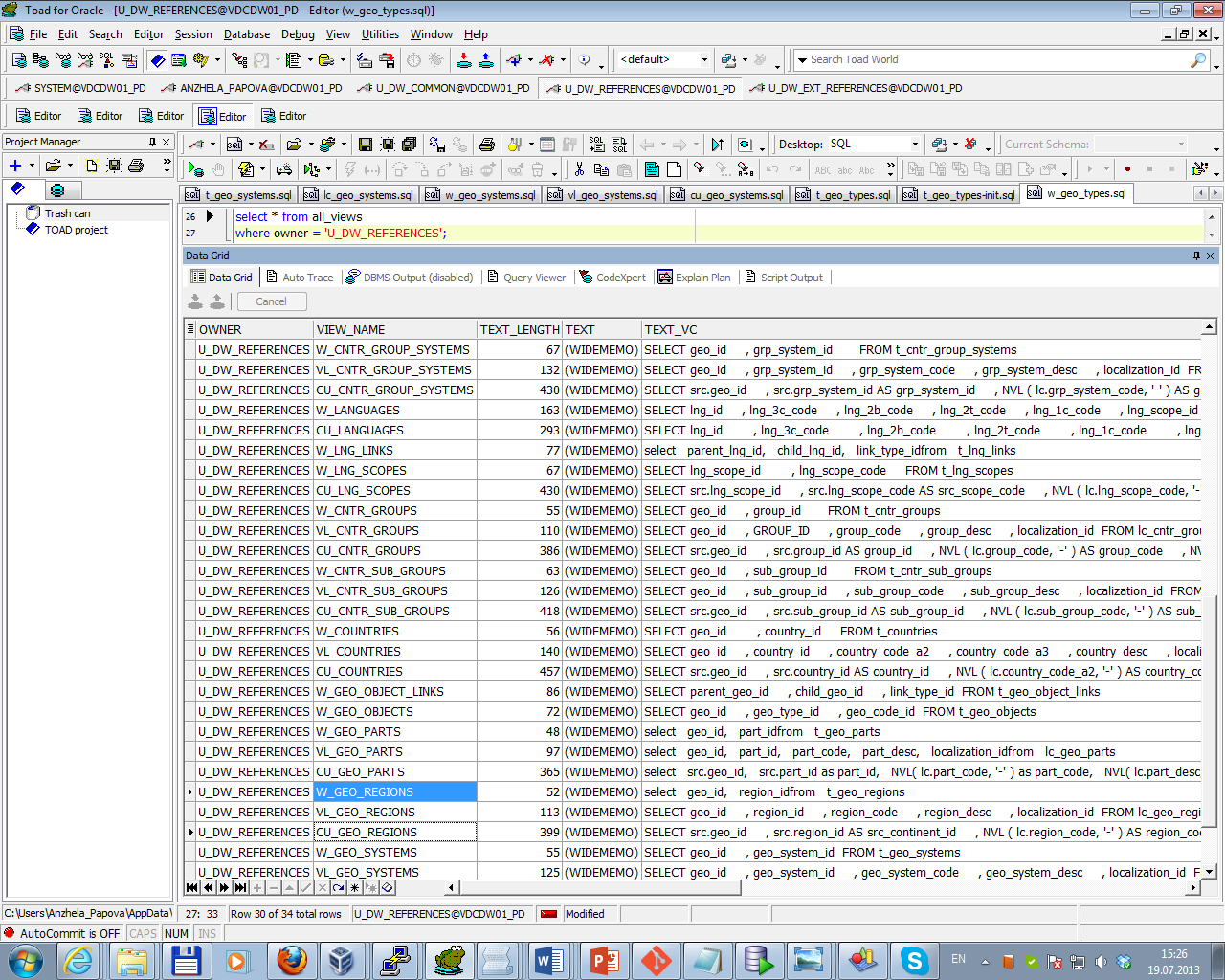
Task 02 Create load process for External references T\_Countries

After installing necessary scripts some objects (tables and views) were created; all necessary data was unloaded. List of All created tables and views (by their owners) are presented below.

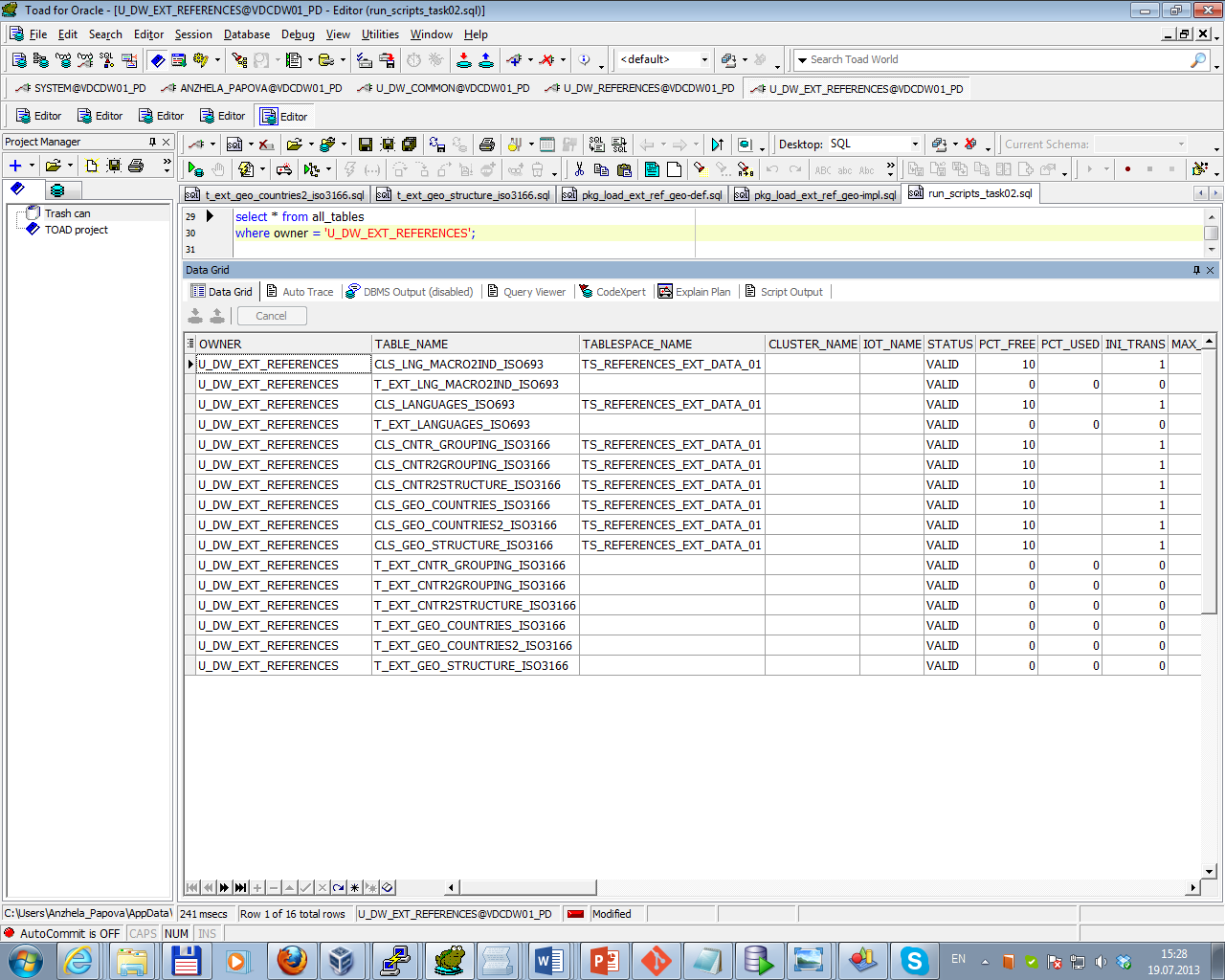
*Tables of user U\_DW\_REFERENCES:*



*Views of user U\_DW\_REFERENCES:*



*Tables of user U\_DW\_EXT\_REFERENCES:*



Sketch Diagram of loading external references is presented below.

Topic 06 - Star Schema Basics\ External\_References\ iso\_3166.tab

Topic 06 - Star Schema Basics\ External\_References\ iso\_3166\_2.tab

Topic 06 - Star Schema Basics\ External\_References\ iso\_3166\_geo\_un.tab

Topic 06 - Star Schema Basics\ External\_ References\ iso\_3166\_ geo\_un\_contries.tab

Topic 06 - Star Schema Basics\ External\_ References\ iso\_3166\_ groups\_un.tab

Topic 06 - Star Schema Basics\ External\_ References\ iso\_3166\_ groups\_un\_contries.tab

Oracle Loader

External Table

t\_ext\_cntr2 grouping\_iso3166

External Table

t\_ext\_cntr\_

grouping\_iso3166

External Table

t\_ext\_geo\_

structure\_iso3166

External Table

t\_ext\_geo\_

countries2\_iso3166

External Table

t\_ext\_cntr2

structure\_iso3166

External Table

t\_ext\_geo\_

countries\_iso3166

PROCEDURE load\_cls\_countries2

groups

PROCEDURE load\_cls\_countries\_

grouping

PROCEDURE load\_cls\_geo\_

structure

PROCEDURE load\_cls\_geo\_

structure2cntr

PROCEDURE load\_cls\_languages\_alpha2

PROCEDURE load\_cls\_languages\_alpha3

cls\_cntr\_ grouping\_ iso3166

cls\_cntr2 grouping\_ iso3166

cls\_geo\_

structure\_

iso3166

cls\_cntr2

structure\_

iso3166

cls\_geo\_

countries2\_iso3166

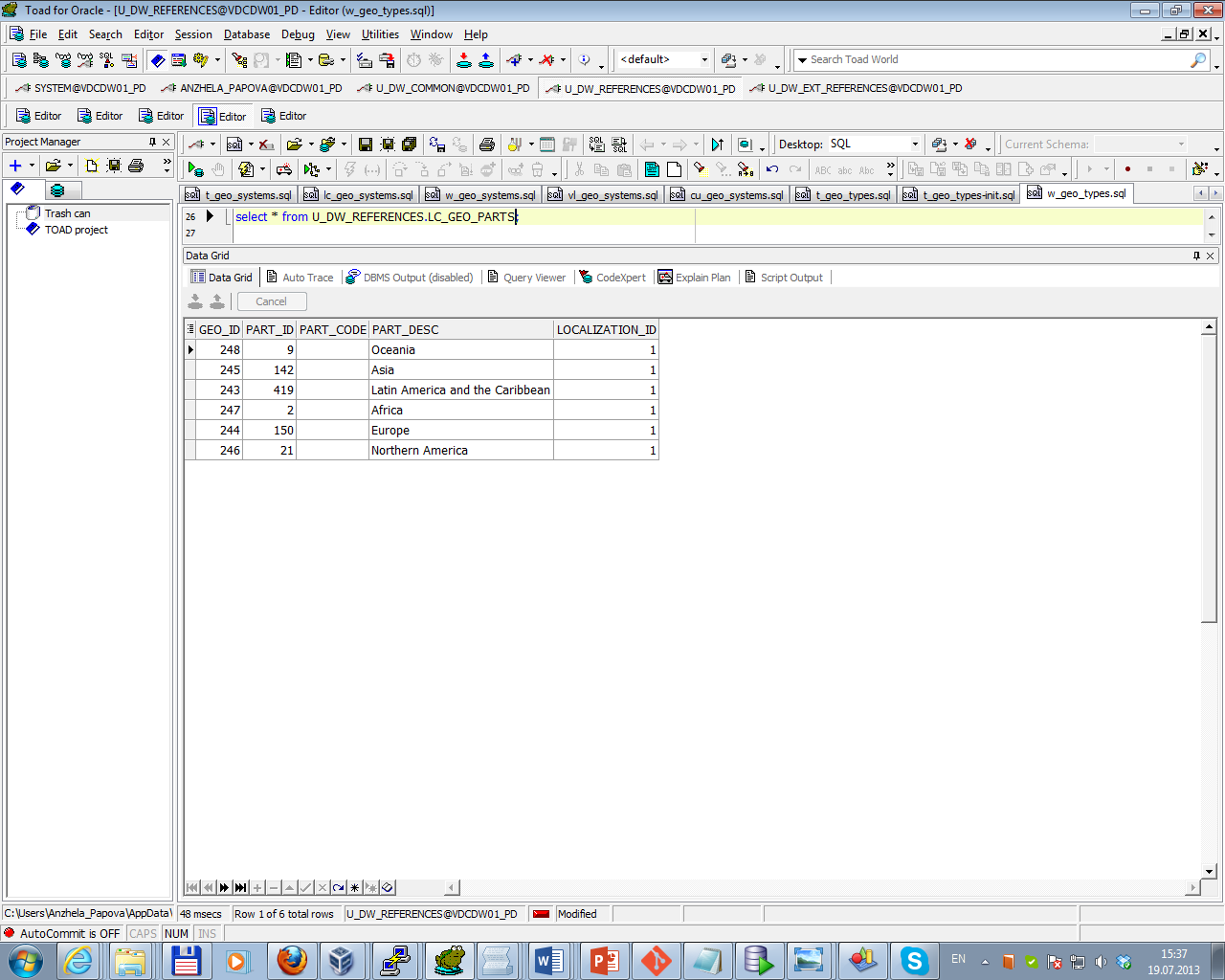
cls\_geo\_

countries\_

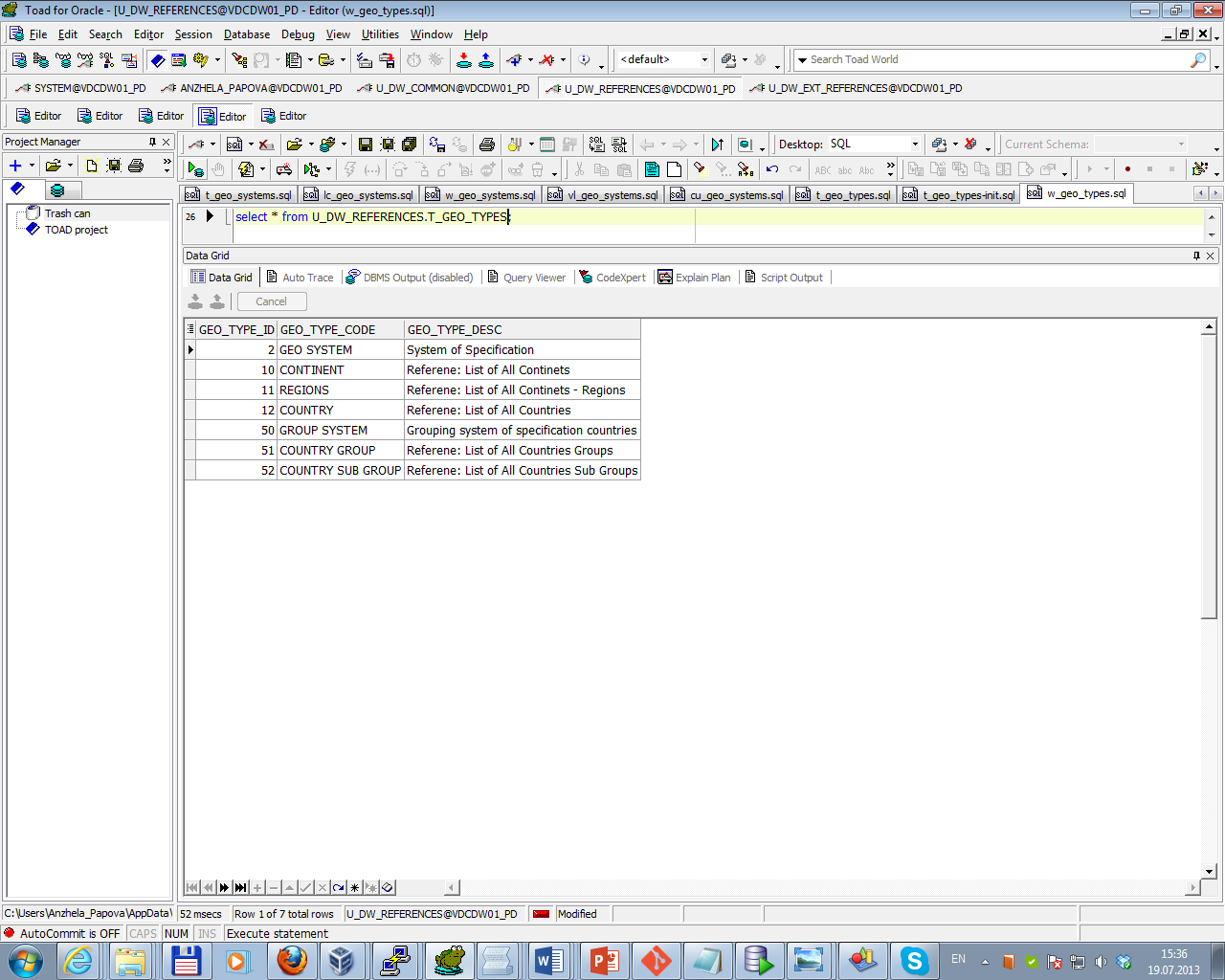
iso3166

The next screenshots illustrate result of data on objects.

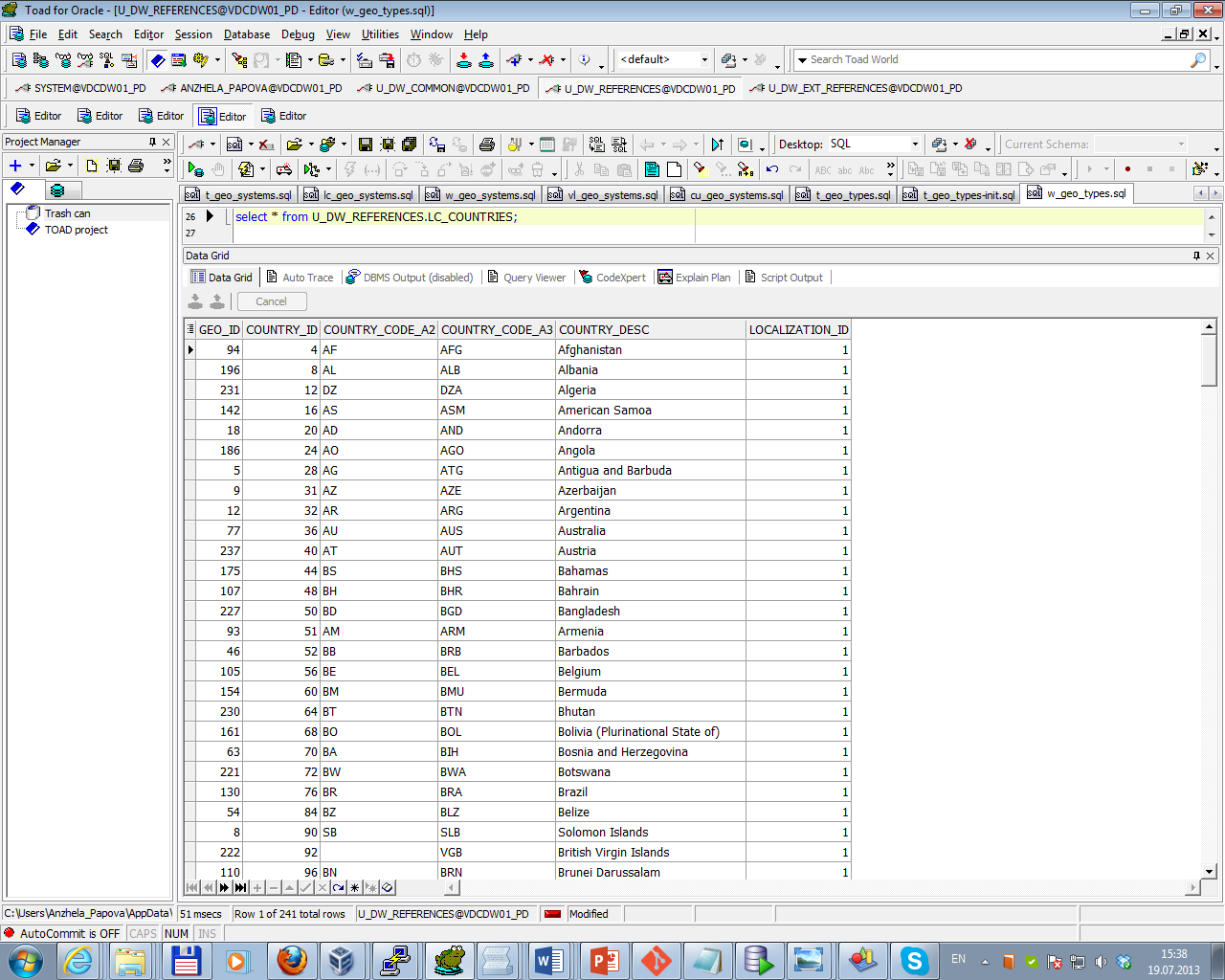
*Data on lc\_geo\_parts:*



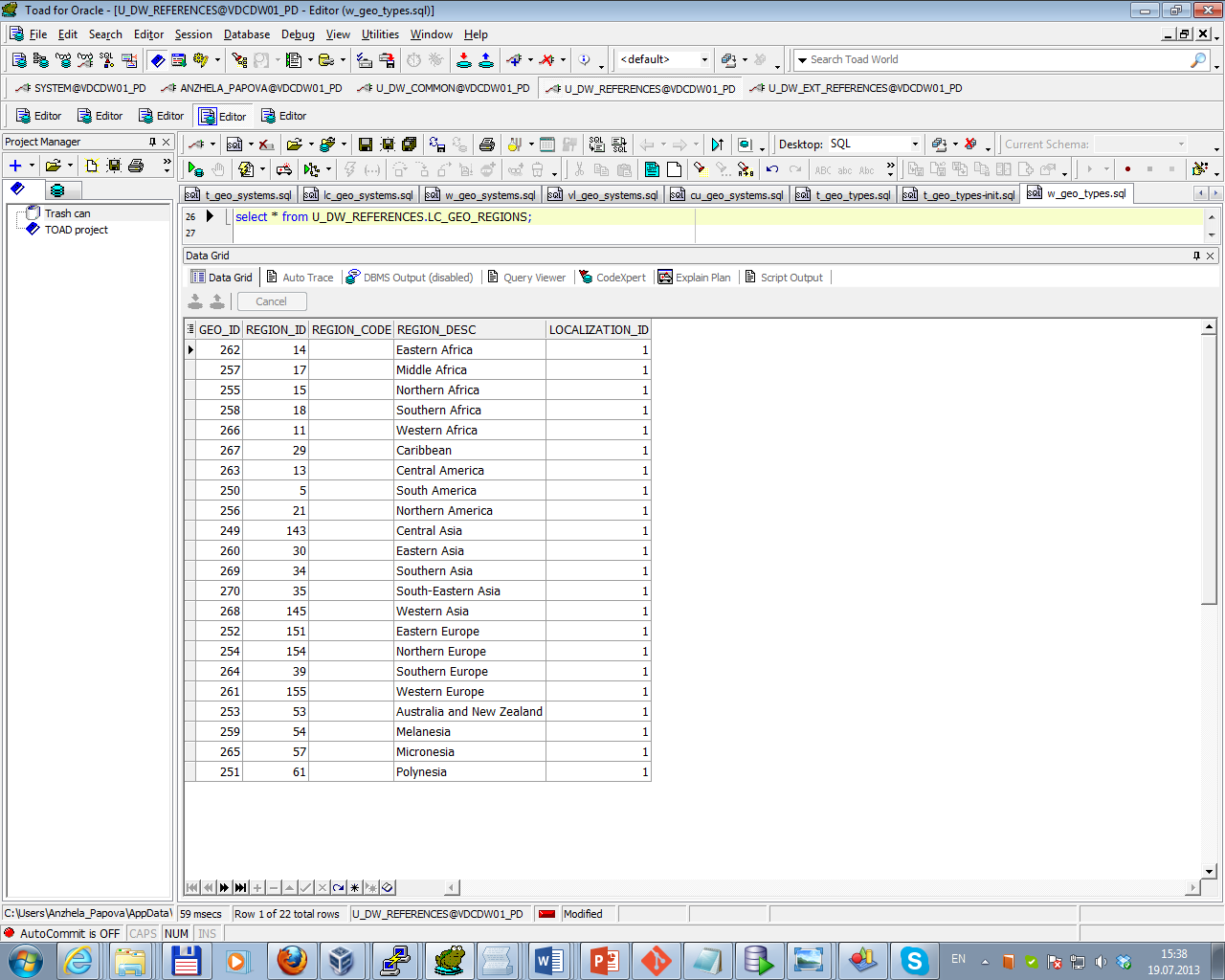
*Data on t\_geo\_types:*



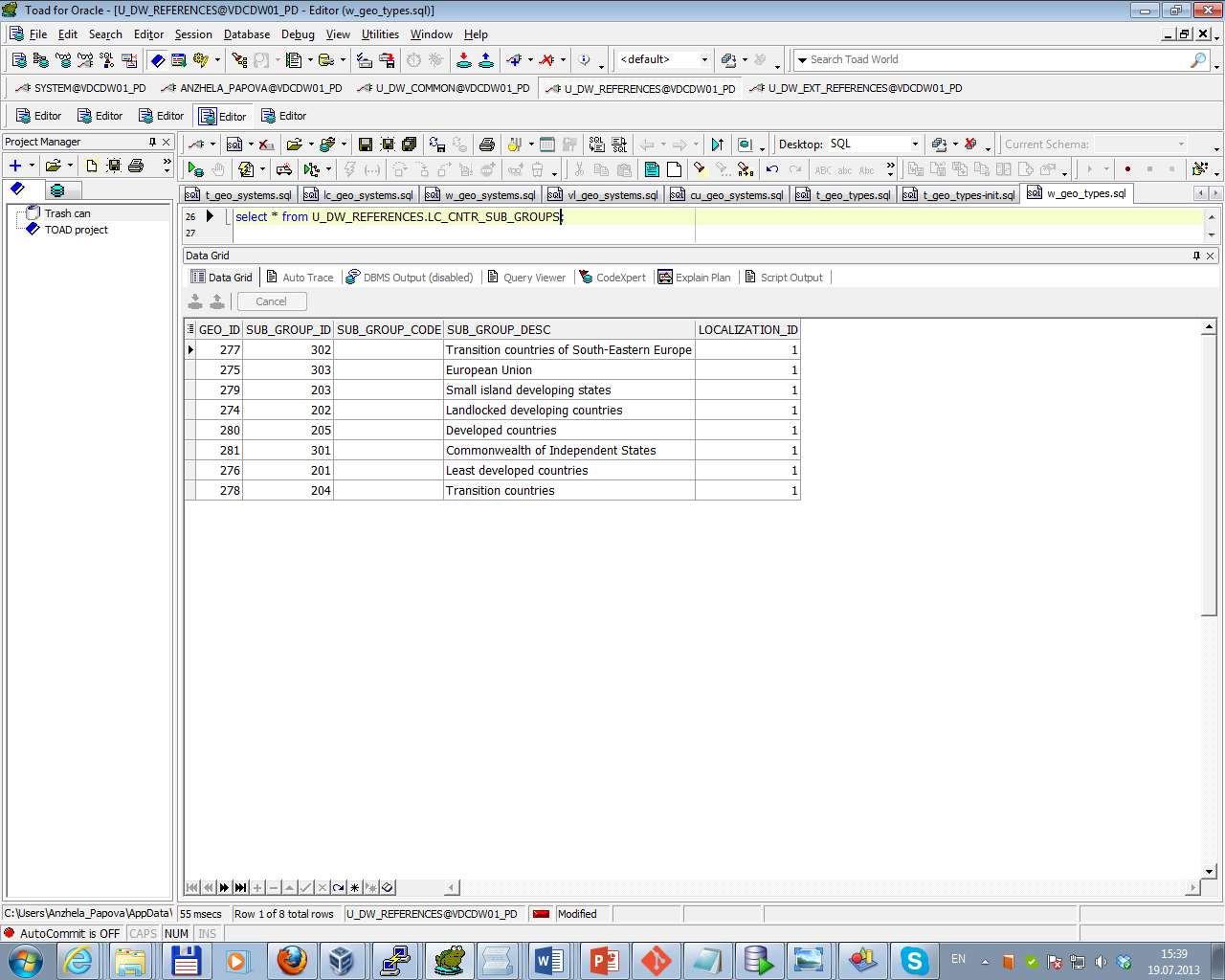
*Data on lc\_countries:*



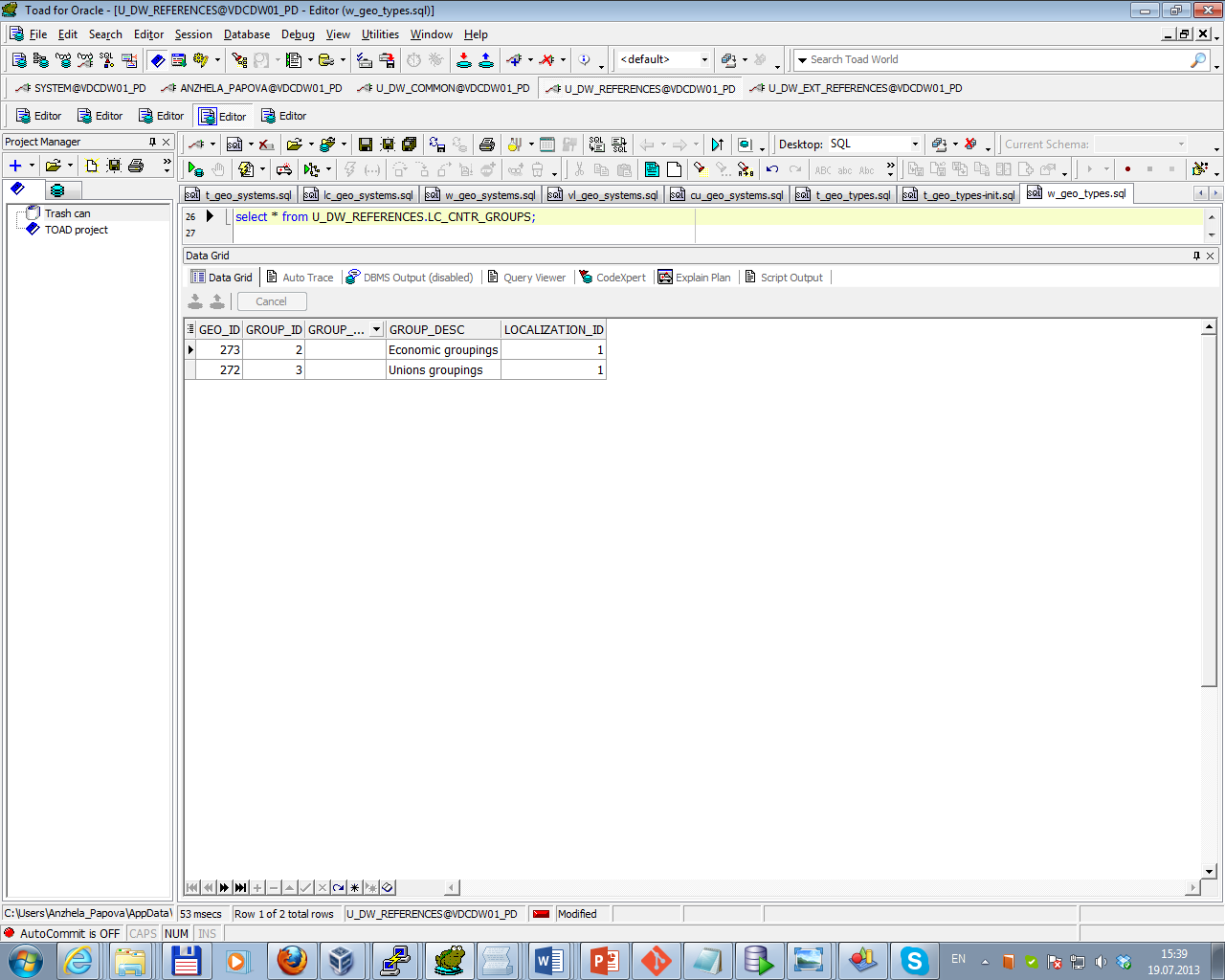
*Data on lc\_geo\_regions:*



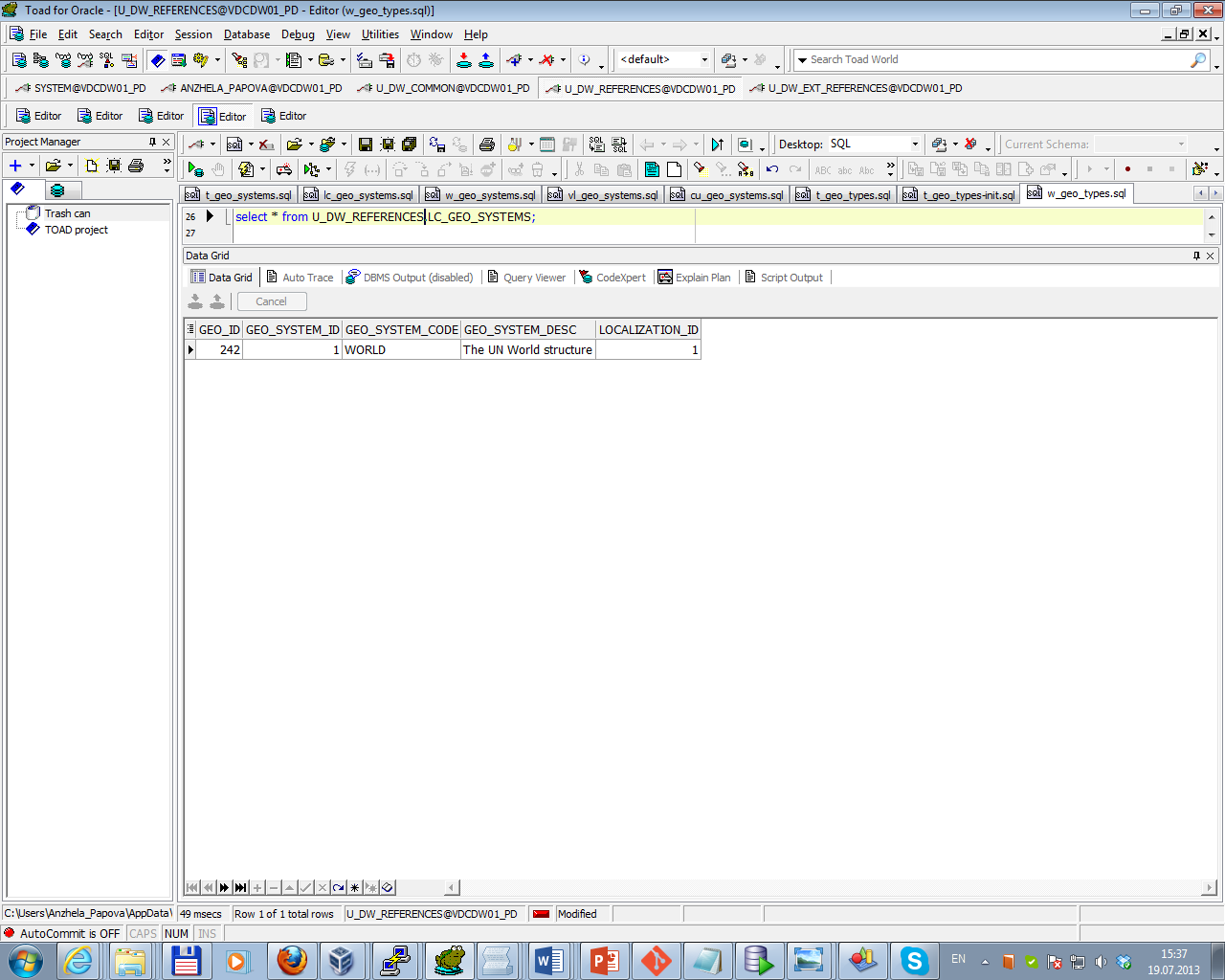
*Data on lc\_cntr\_sub\_groups:*



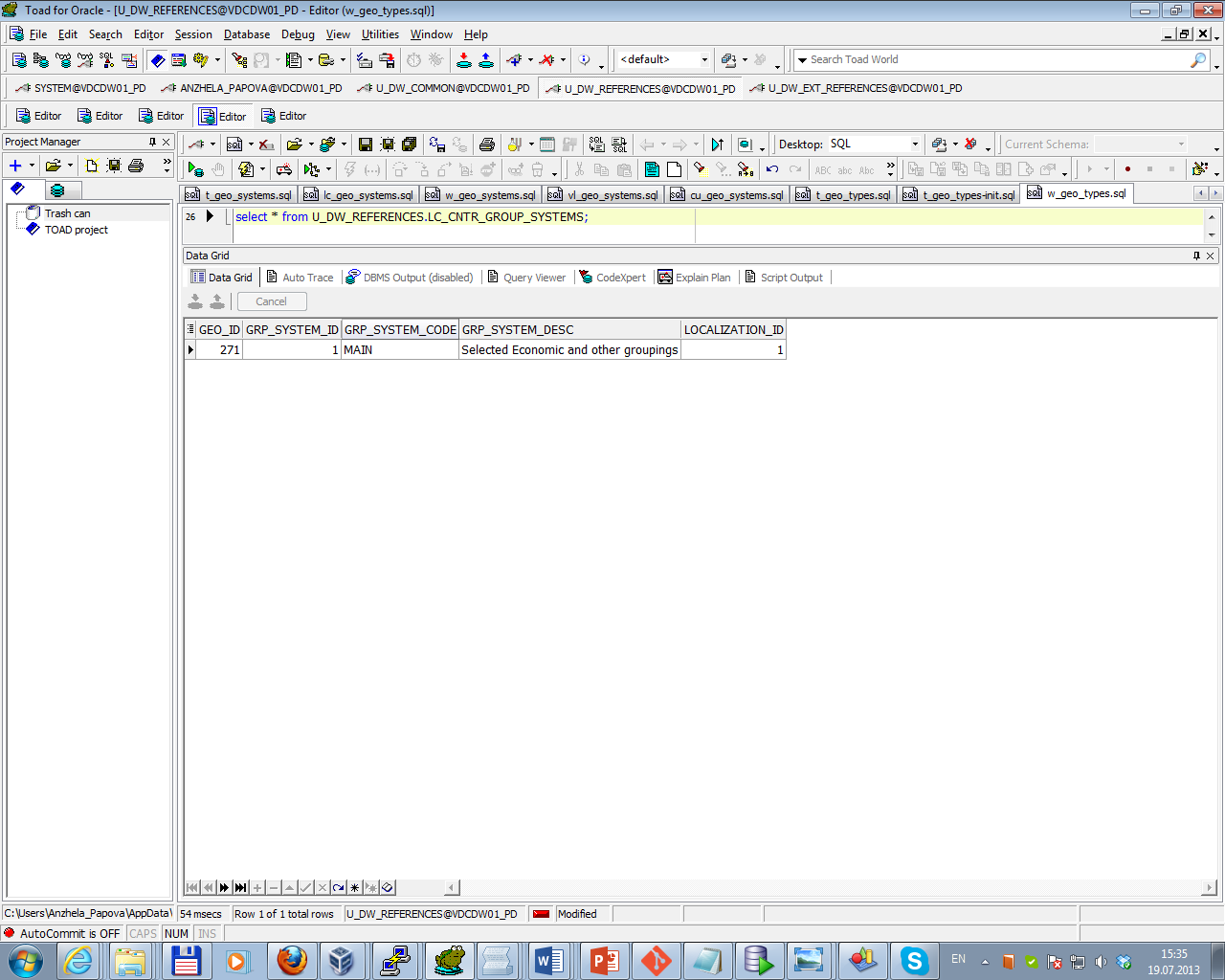
*Data on lc\_cntr\_groups:*



*Data on lc\_geo\_systems:*



*Data on lc\_geo\_systems:*



The Physical diagram of T\_Countries is presented below.

