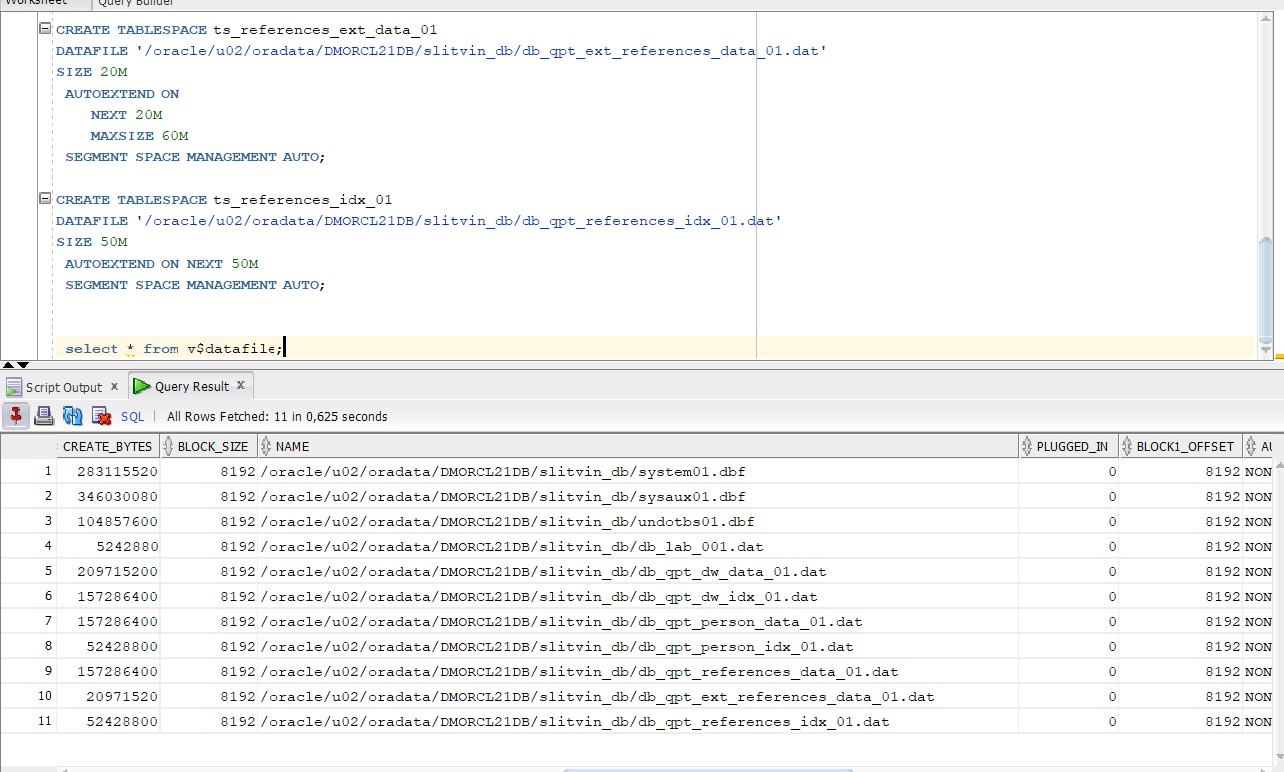
# 2. OLTP – Load External References – Normalization of Data

## 2.1. Task 01 – Install and expand load of external references T\_Languages

Step 1. First of all we’ve crating tablespaces

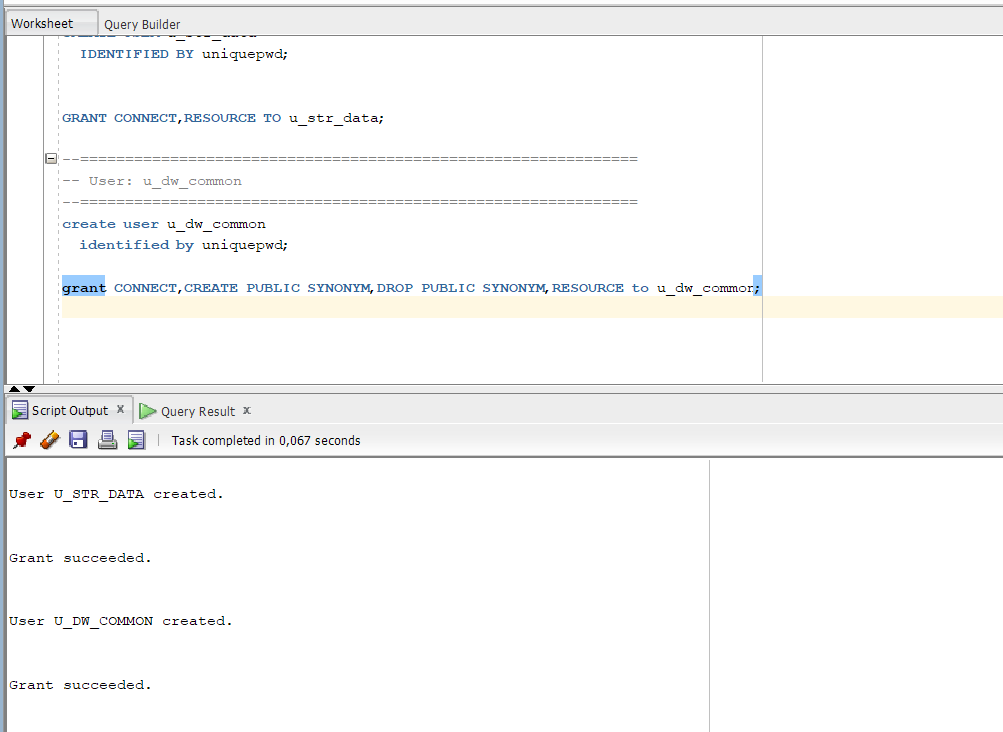


Tablespaces

As you can see all of tablespaces is located in my own directory to reject conflicts with other participants at DataCamp.

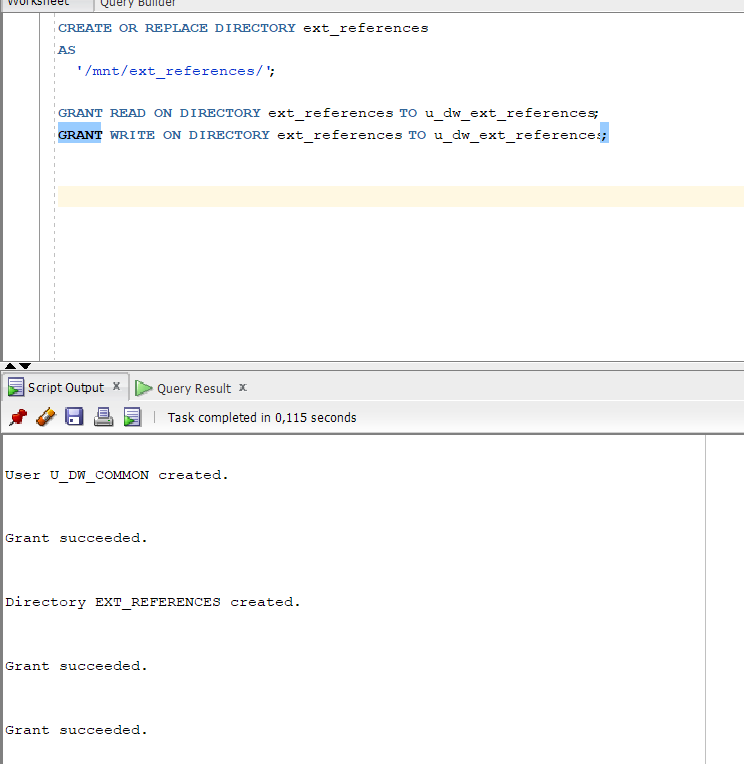
I choose manually adding path into datafile, cause ‘alter system’ is doesn’t work correctly.

Step 2. We’ve creating users and granted them access.



Users creating

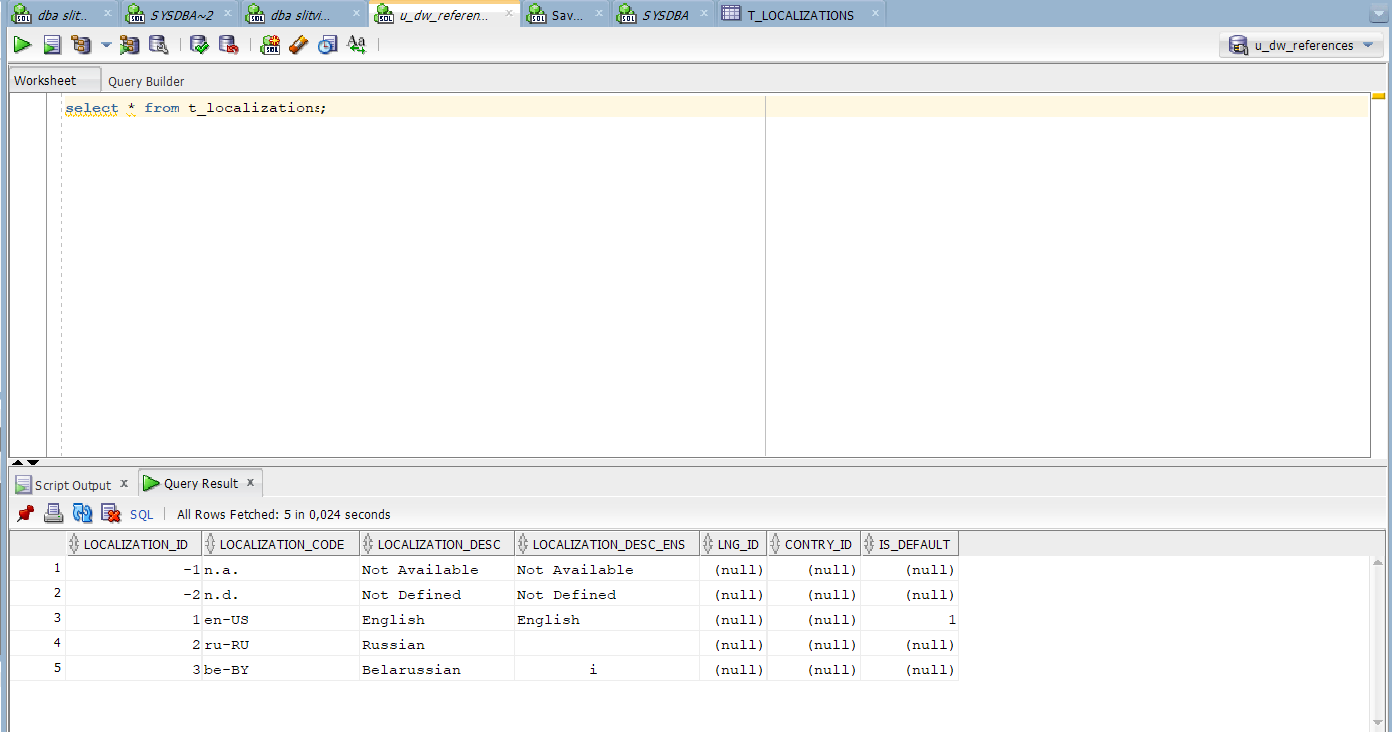
Step 3. Create Directory



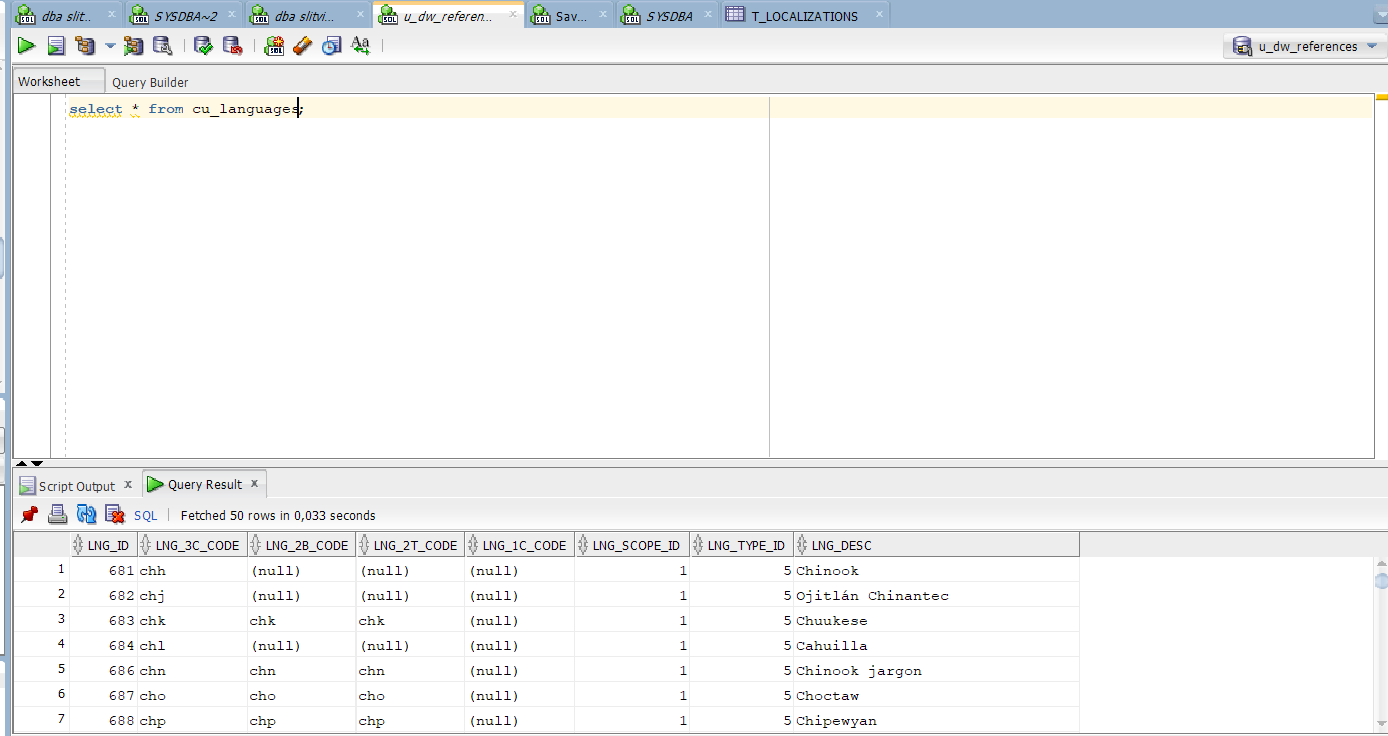
Directory creating

Step 4. Next step is to create ***reference*** folder with next order:

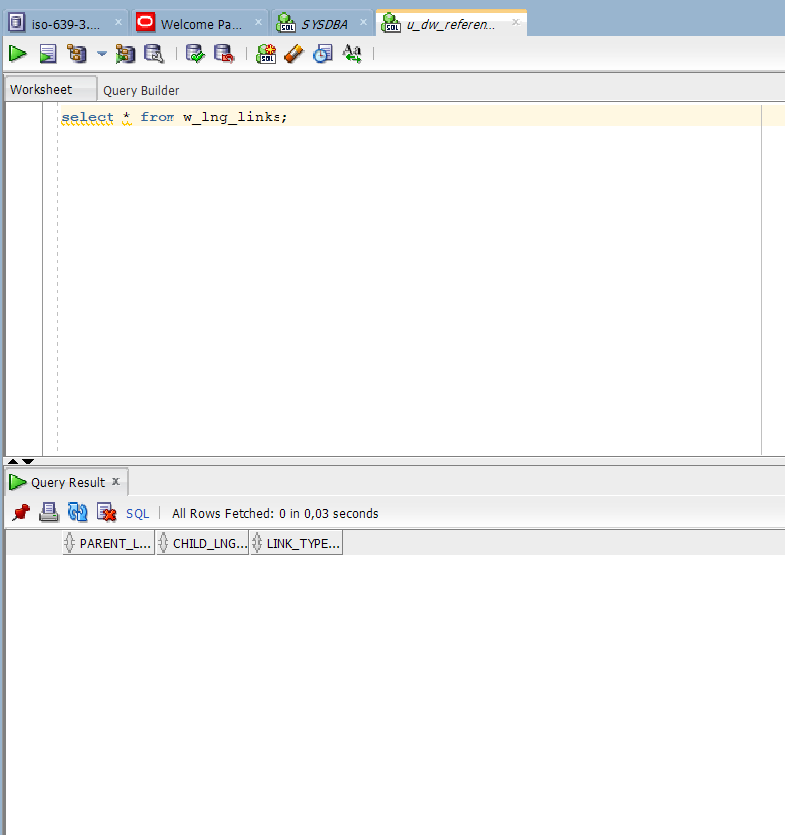
First of all create dimensions around t\_languages and after all create t\_languages



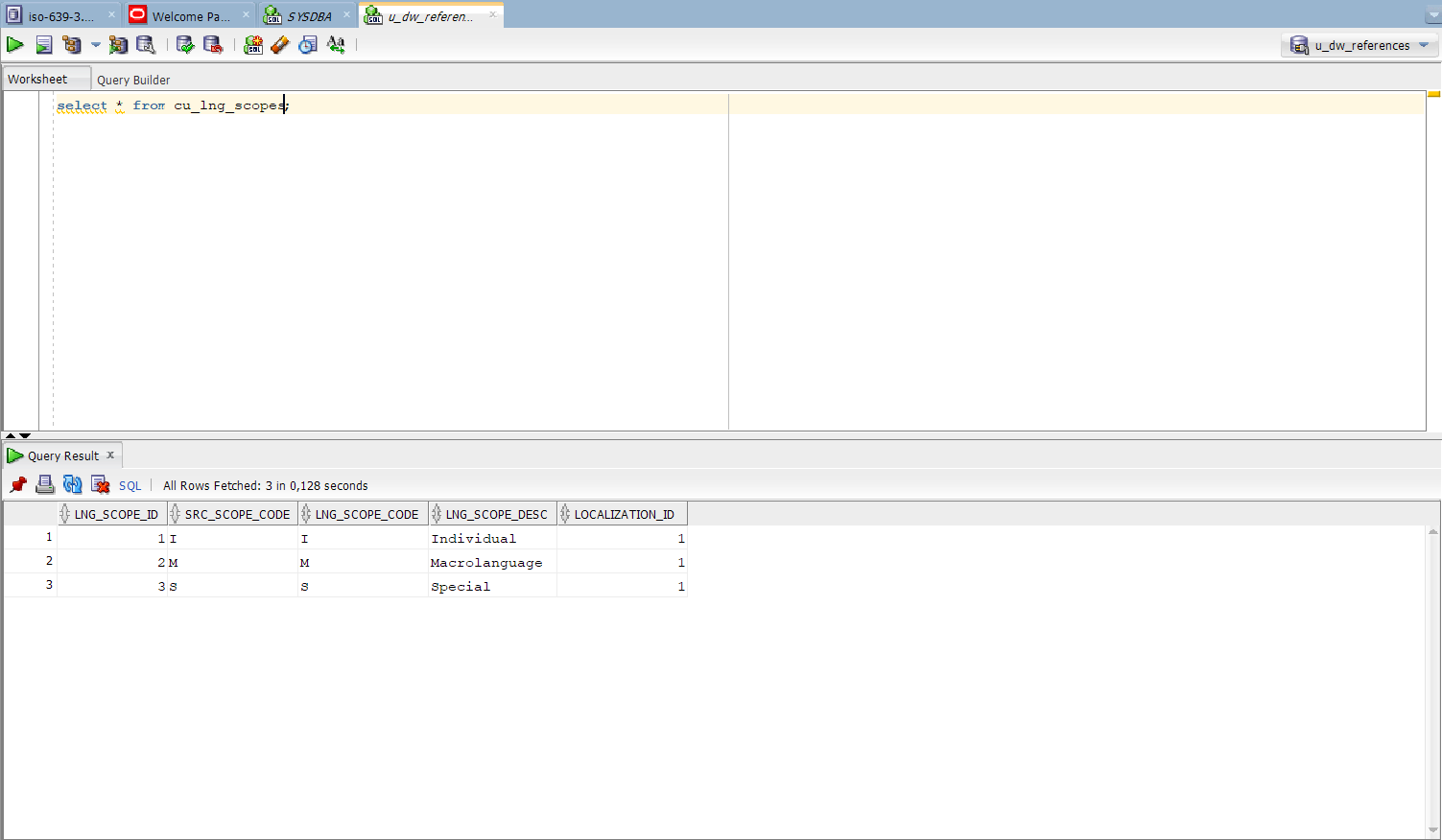
t\_localizations



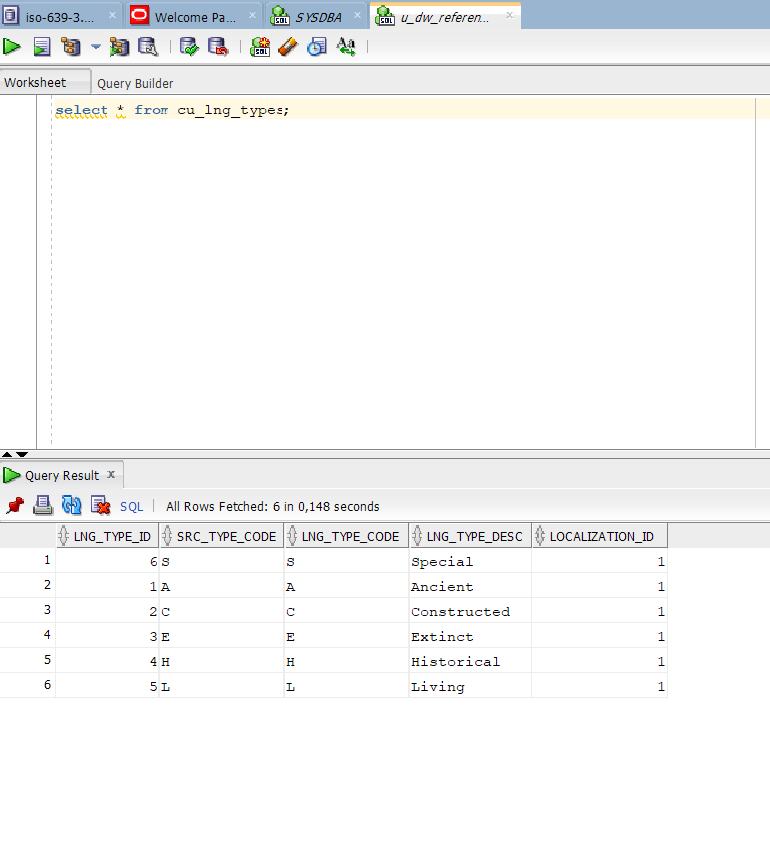
cu\_languages



w\_lng\_links

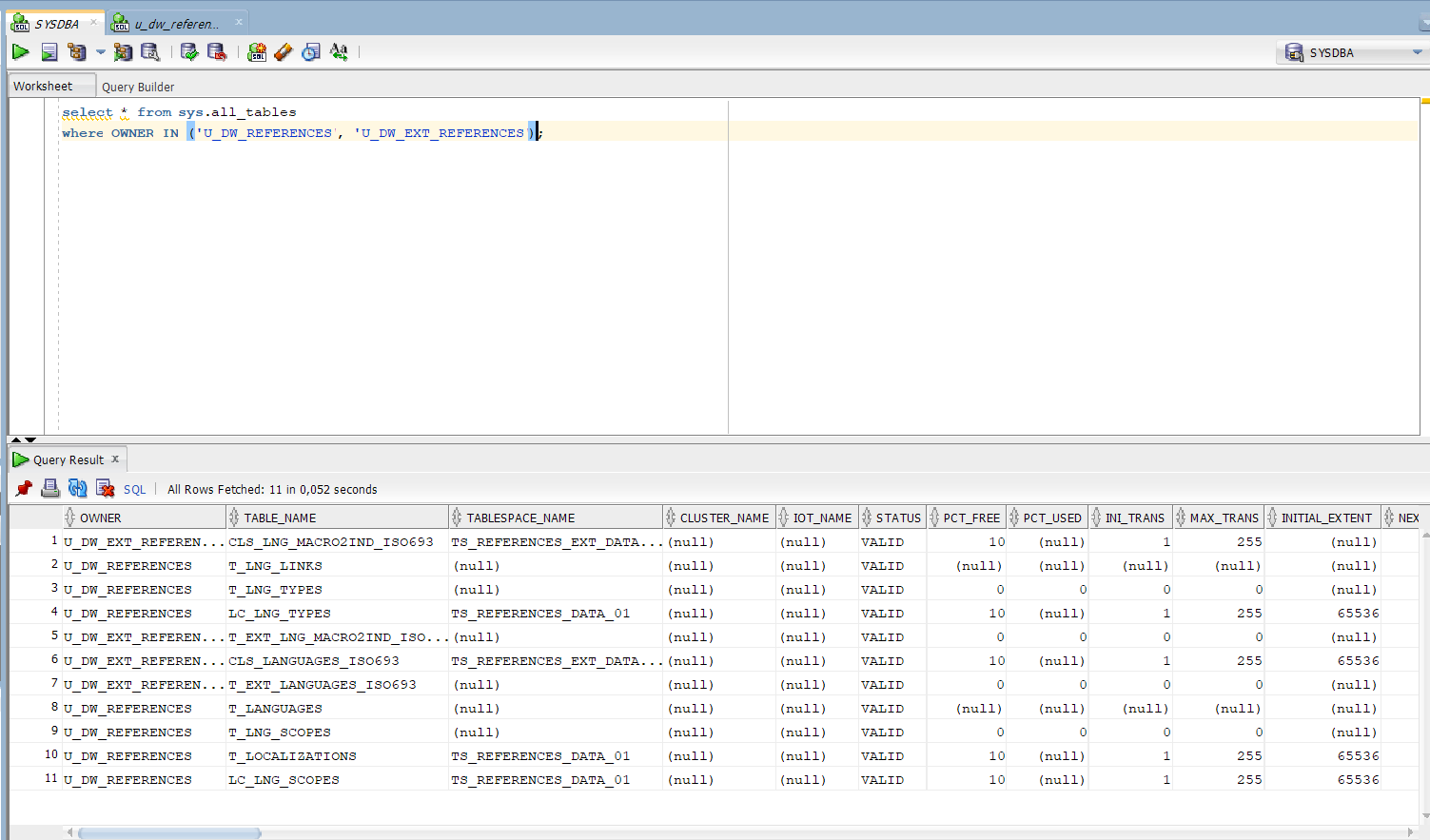


cu\_lng\_scopes

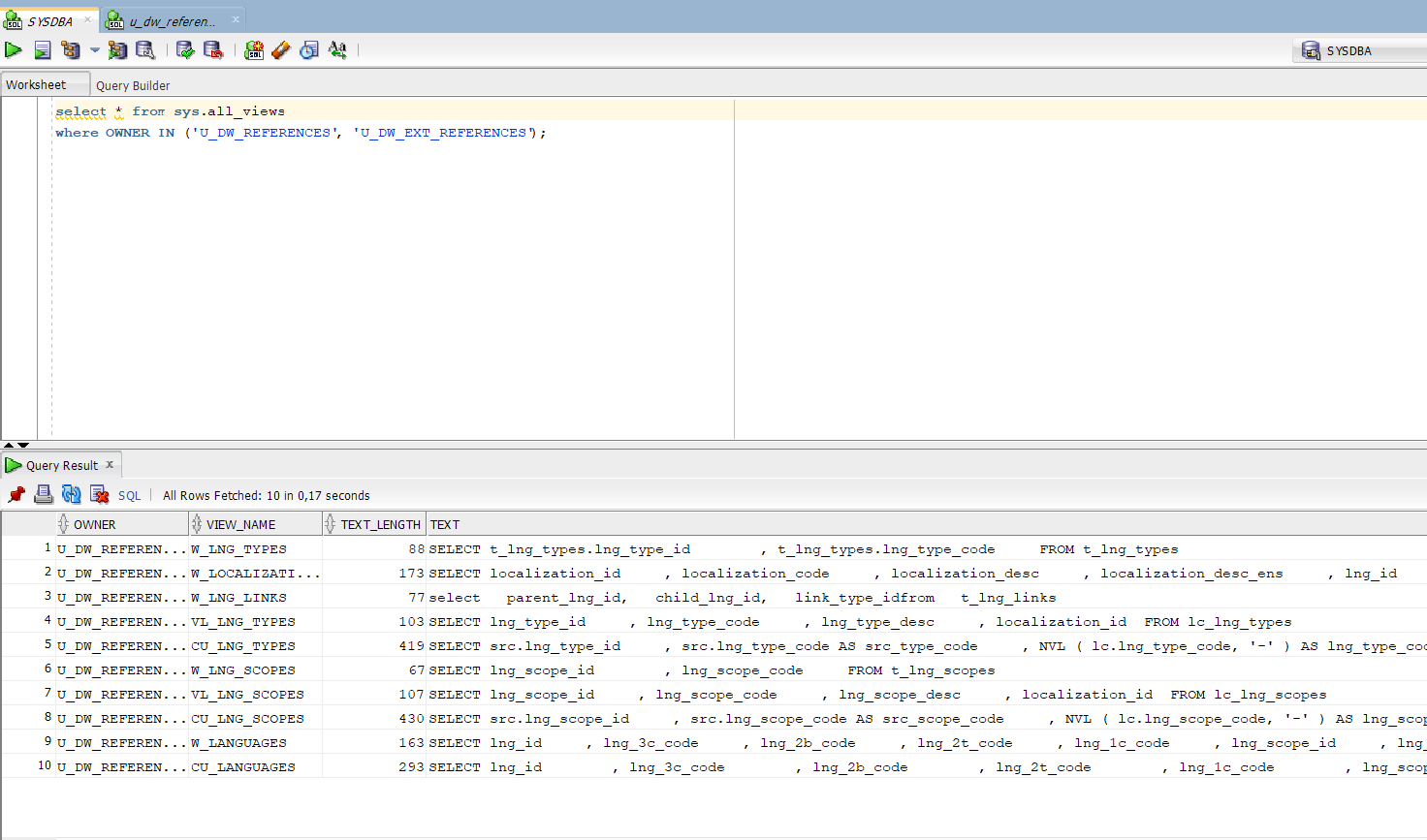


cu\_lng\_types

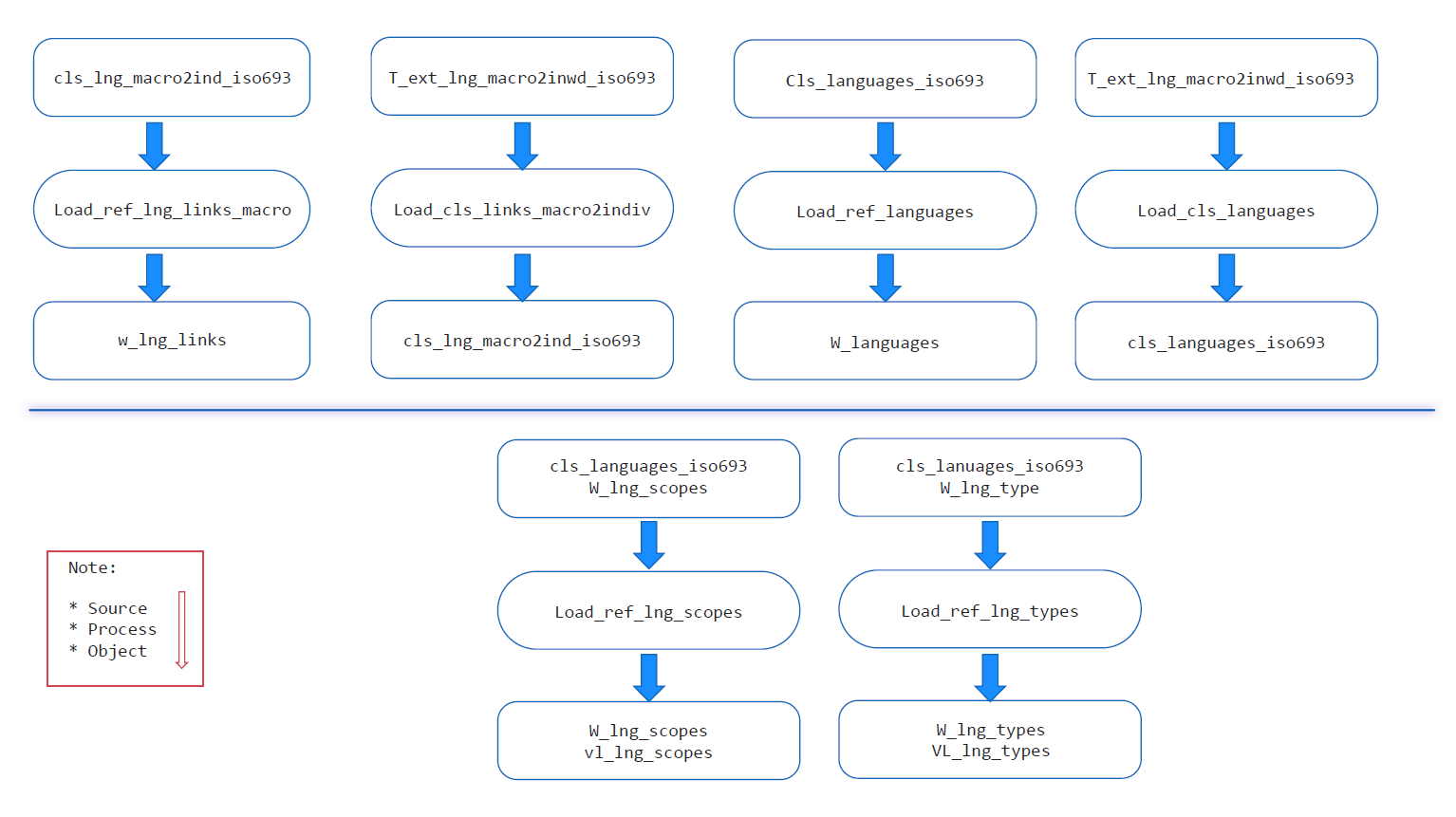
All created tables presented on the next screenshot



Created tables



Created views



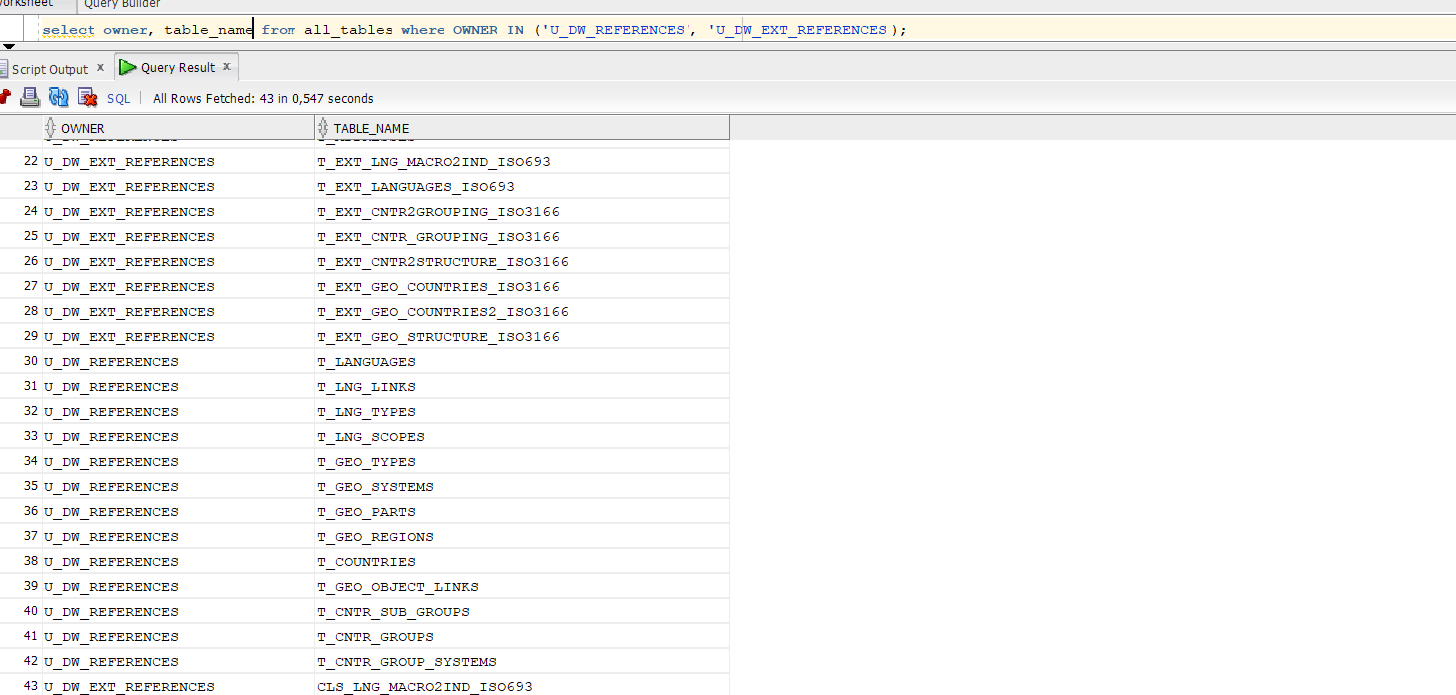
Data flow

## 2.2. Task 02 – Create load process for External references T\_Countries

* Create SQL scripts to show All created Tables and Views – Screenshot

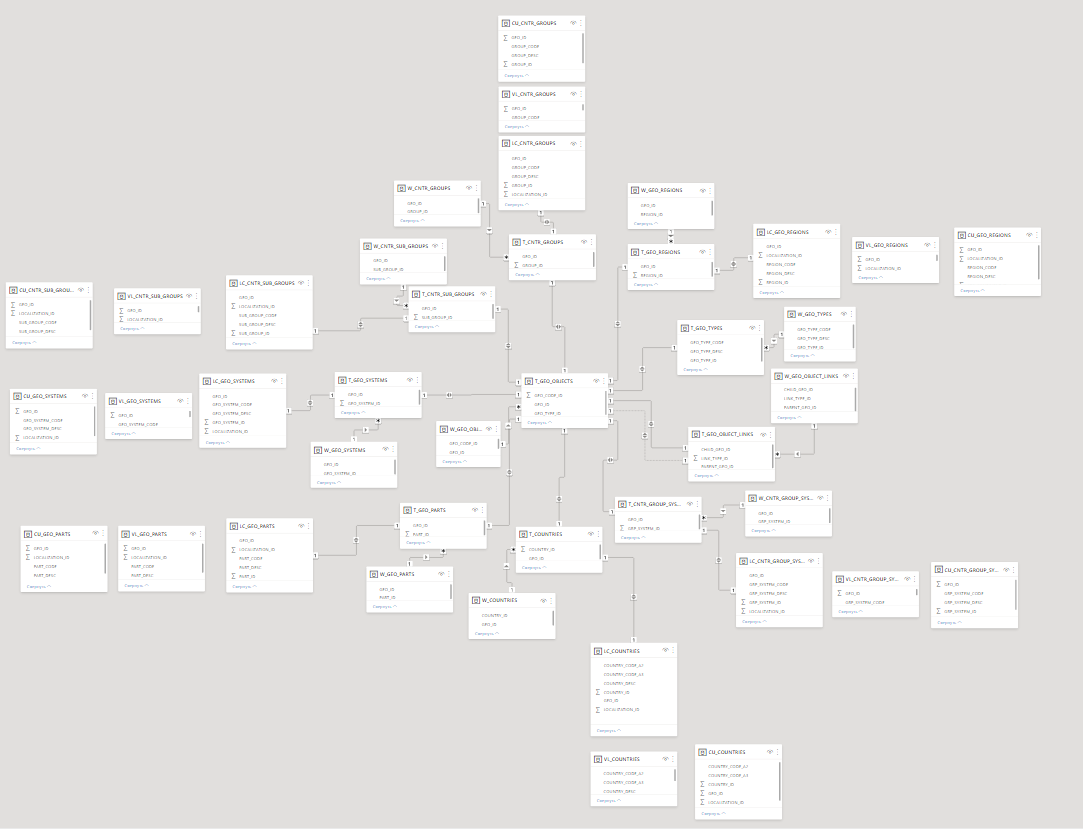


Created views

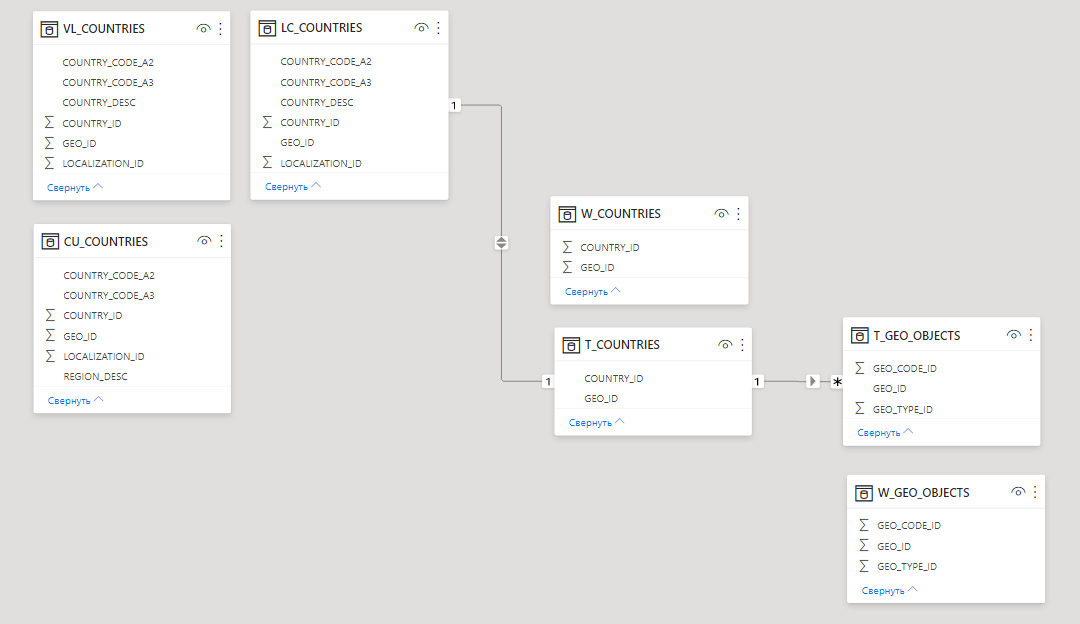


Created tables

* Prepare The Physical Diagram of T\_Countries



Global Physical Diagram



T\_Countries

* Create SQL: Showing result of data on main objects:

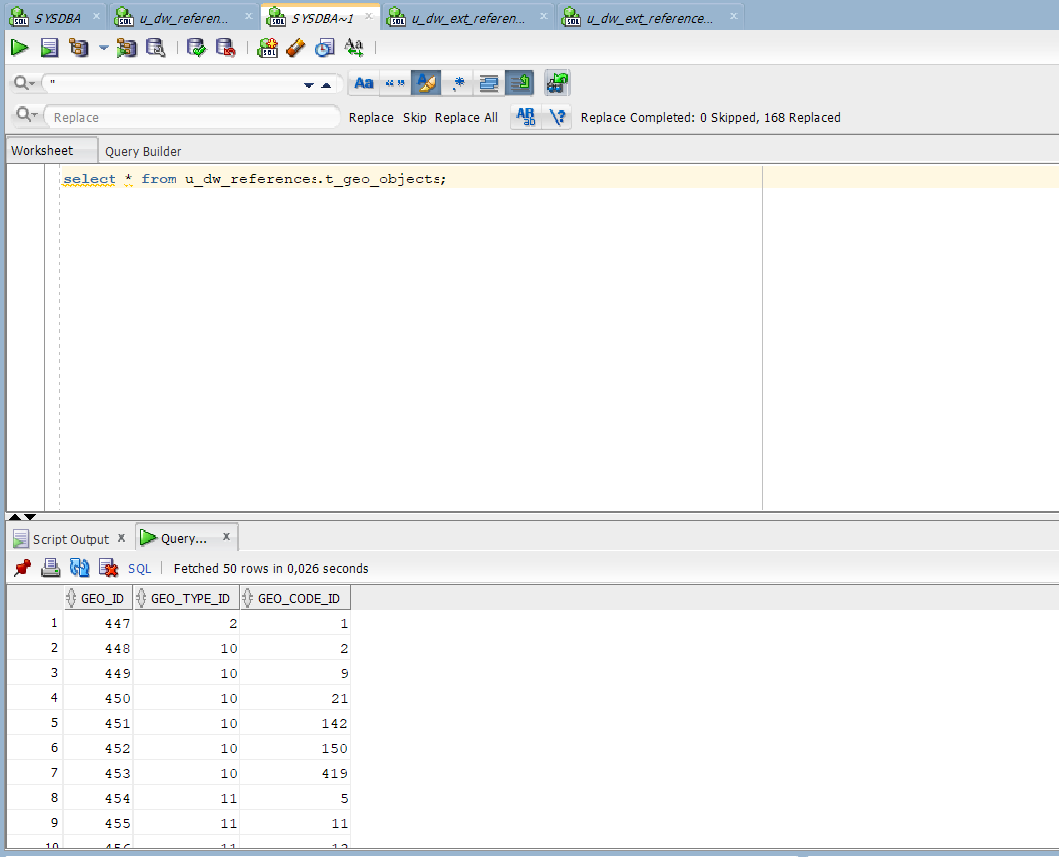


Table geo\_objects

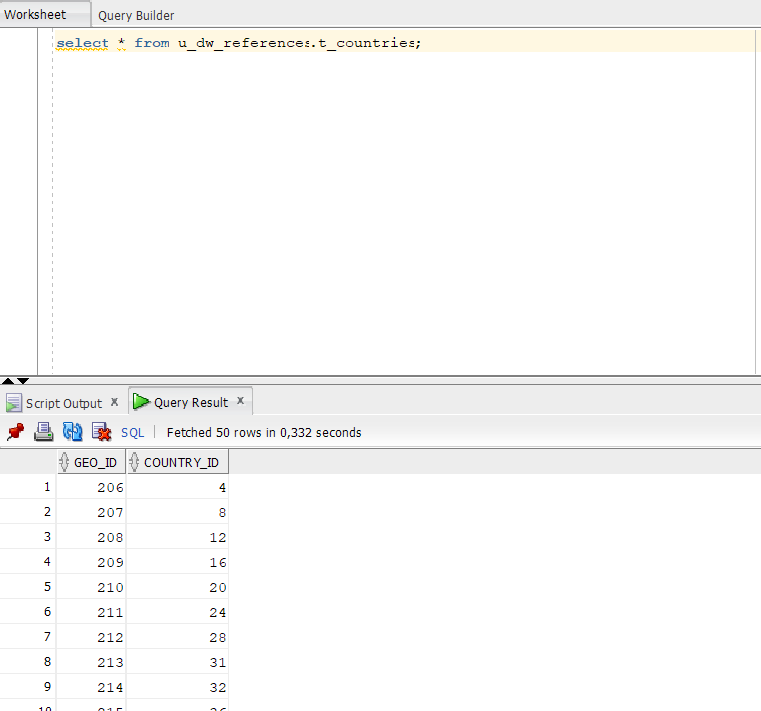


Table t\_countries

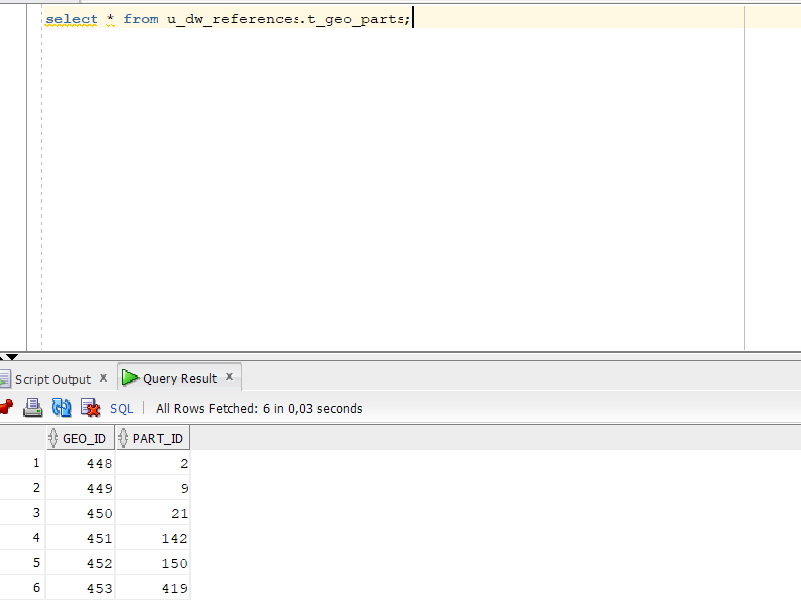


Table t\_geo\_parts

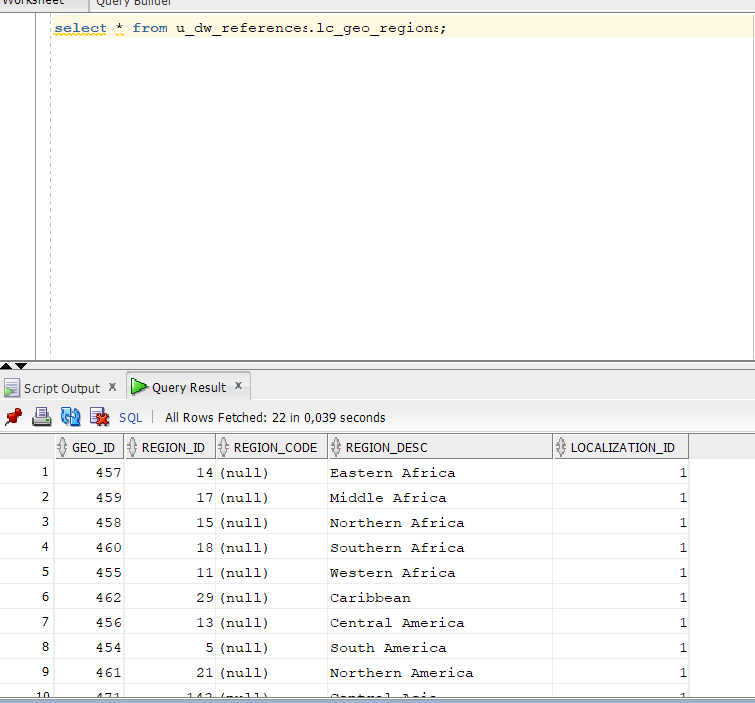
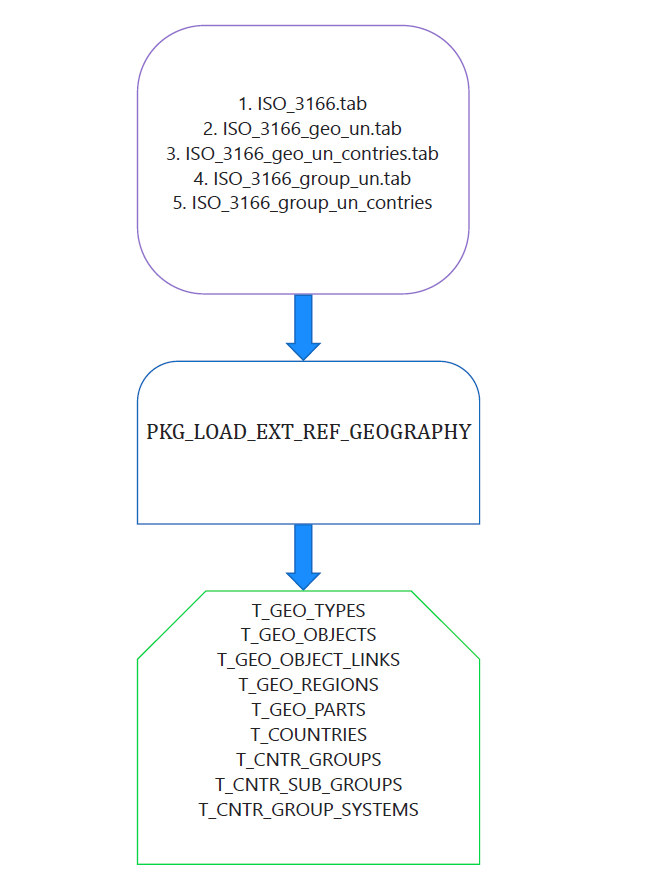


Table lc\_geo\_regions

As we can see, data was successful inserted.

* Create DataFlow: Sketch Diagram of loading external References (MS Visio, MS Paint, MS Word, etc.)



DataFlow Diagram

# 3. OLAP – Business analyses task