**Anton Slizh’s**

**U1M6.LW.Star Schema Basics**

*GitHub:* [*https://github.com/drapejny/DataCamp2022*](https://github.com/drapejny/DataCamp2022)

**Task 1**

Successfully executing all necessary scripts to create database objects.

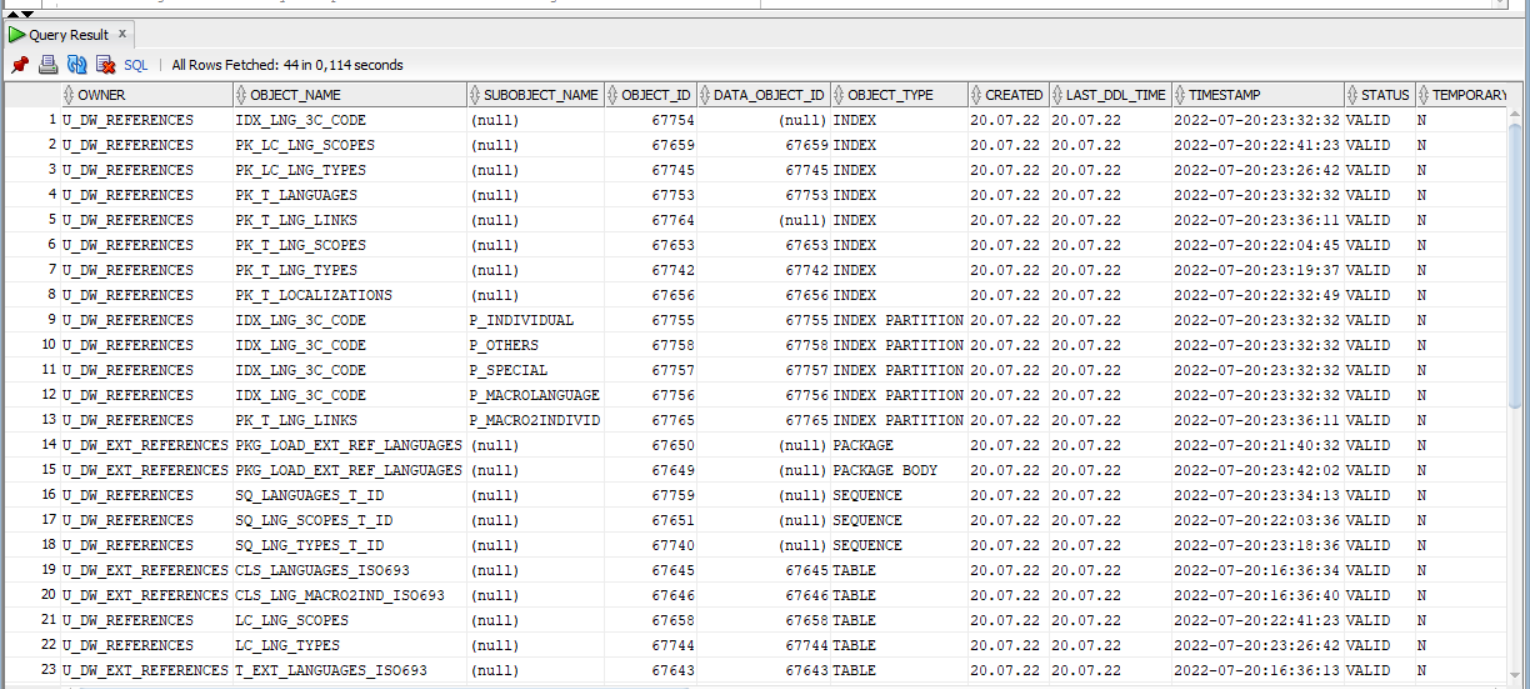
Showing all created objects:

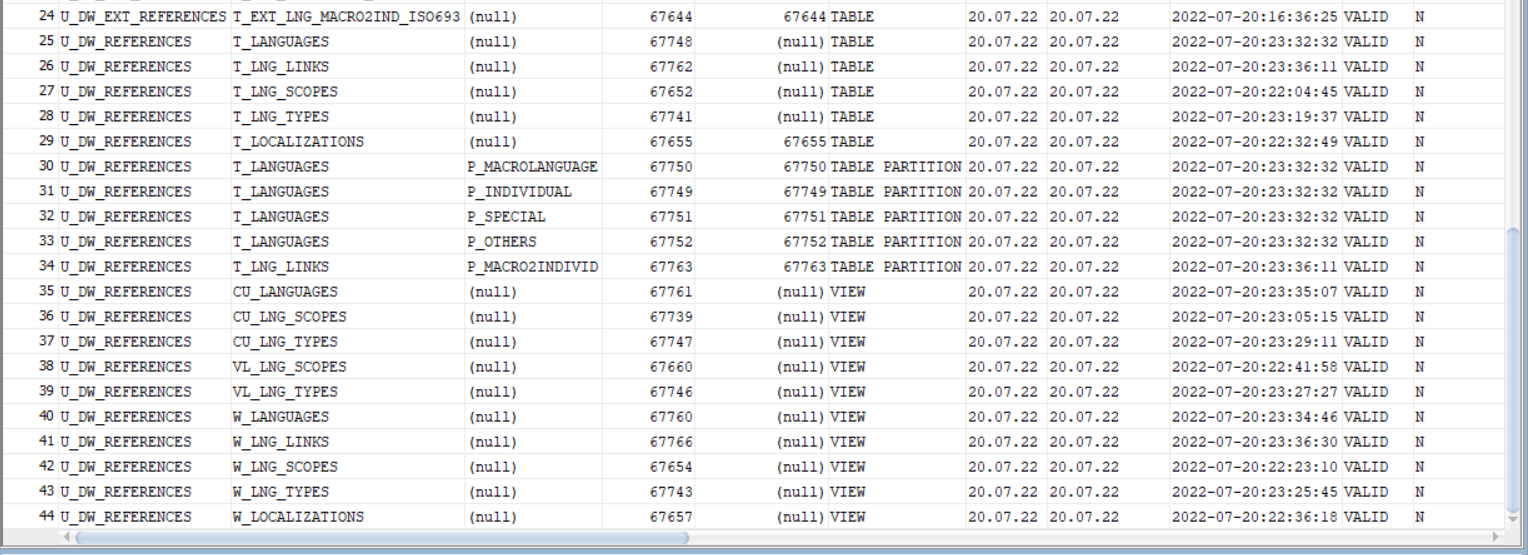
SELECT \* FROM all\_objects

WHERE owner IN ('U\_DW\_REFERENCES',

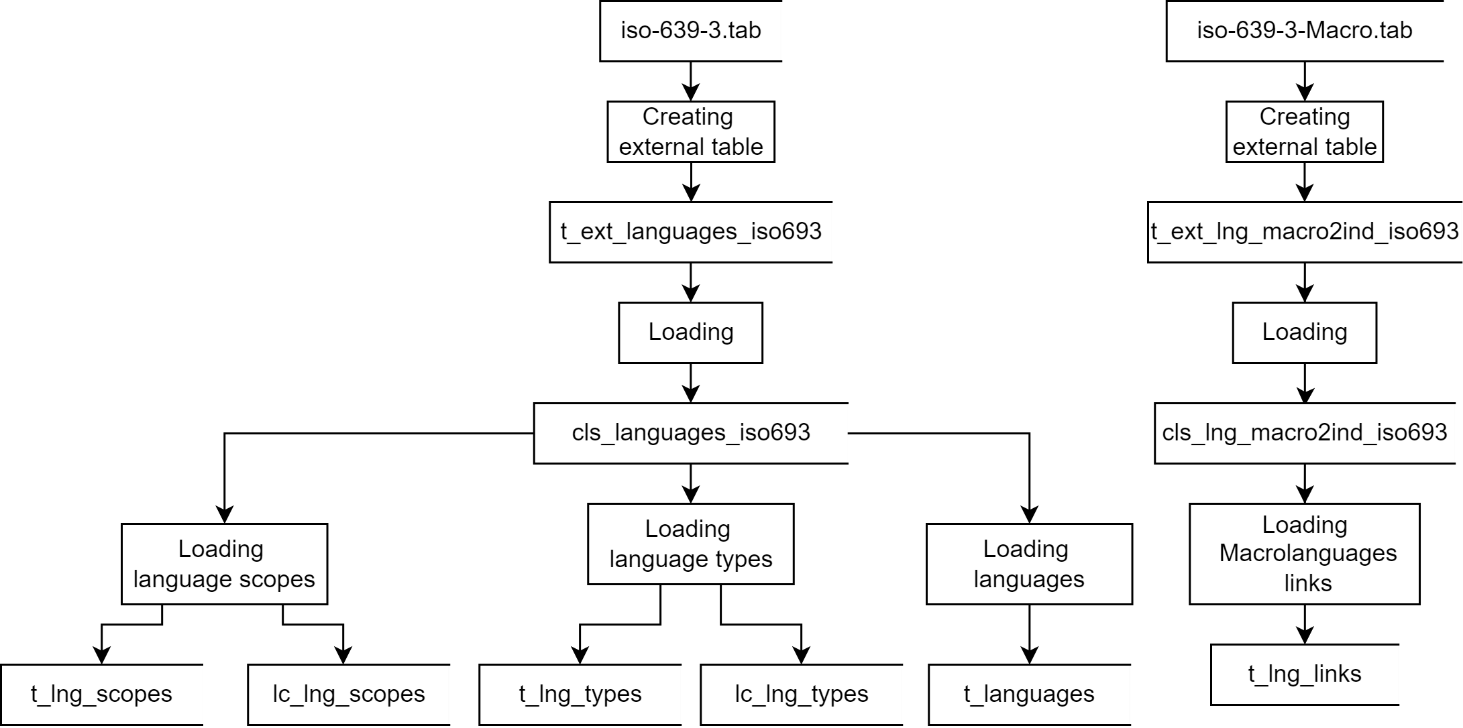
'U\_DW\_EXT\_REFERENCES')

ORDER BY object\_type, object\_name;

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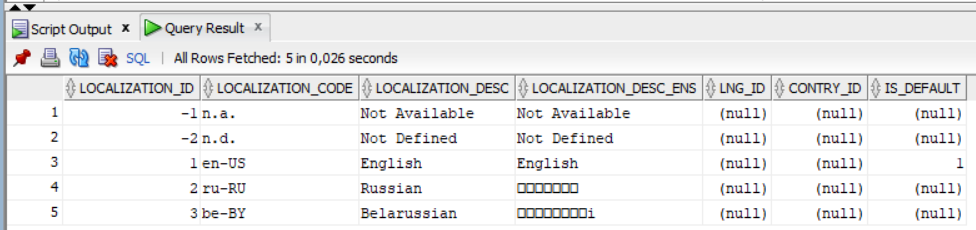
Creating DataFlow Diagram:



Selecting data from specified objects:

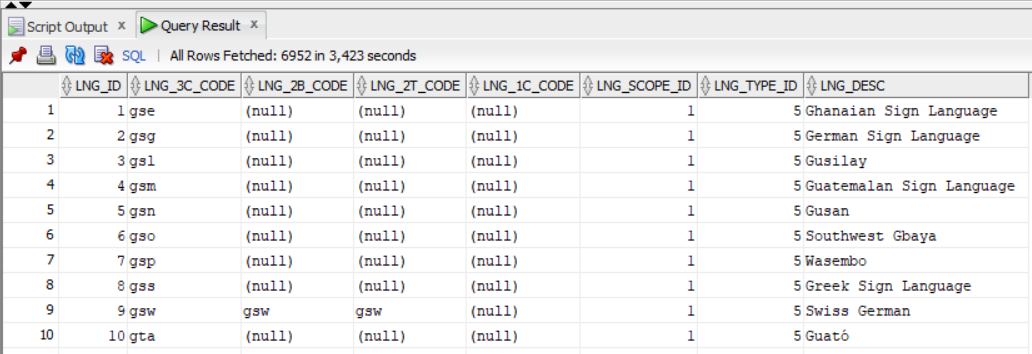
* *t\_localizations*

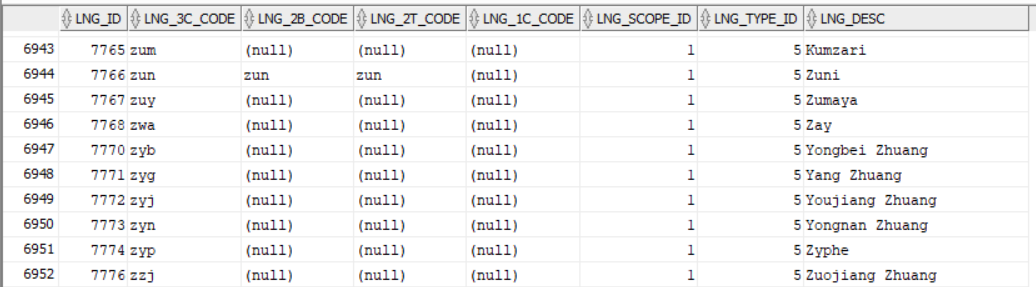
SELECT \* FROM u\_dw\_references.t\_localizations;



* *cu\_languages*

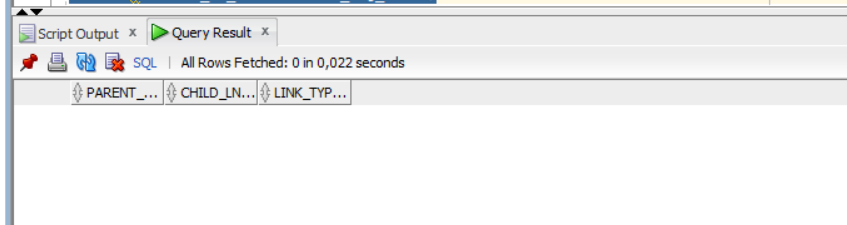
SELECT \* FROM u\_dw\_references.cu\_languages;





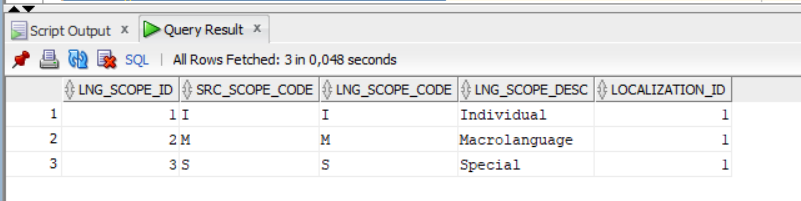
* *w\_lng\_links*

SELECT \* FROM u\_dw\_references.w\_lng\_links;



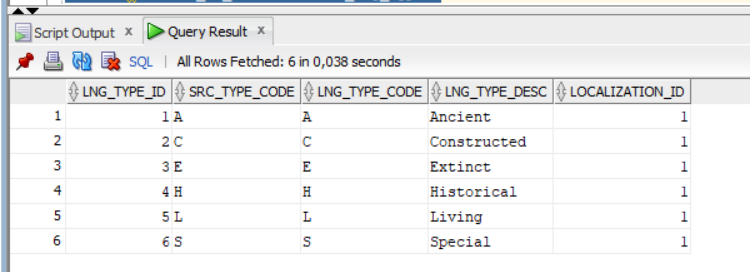
* *cu\_lng\_scopes*

SELECT \* FROM u\_dw\_references.cu\_lng\_scopes;

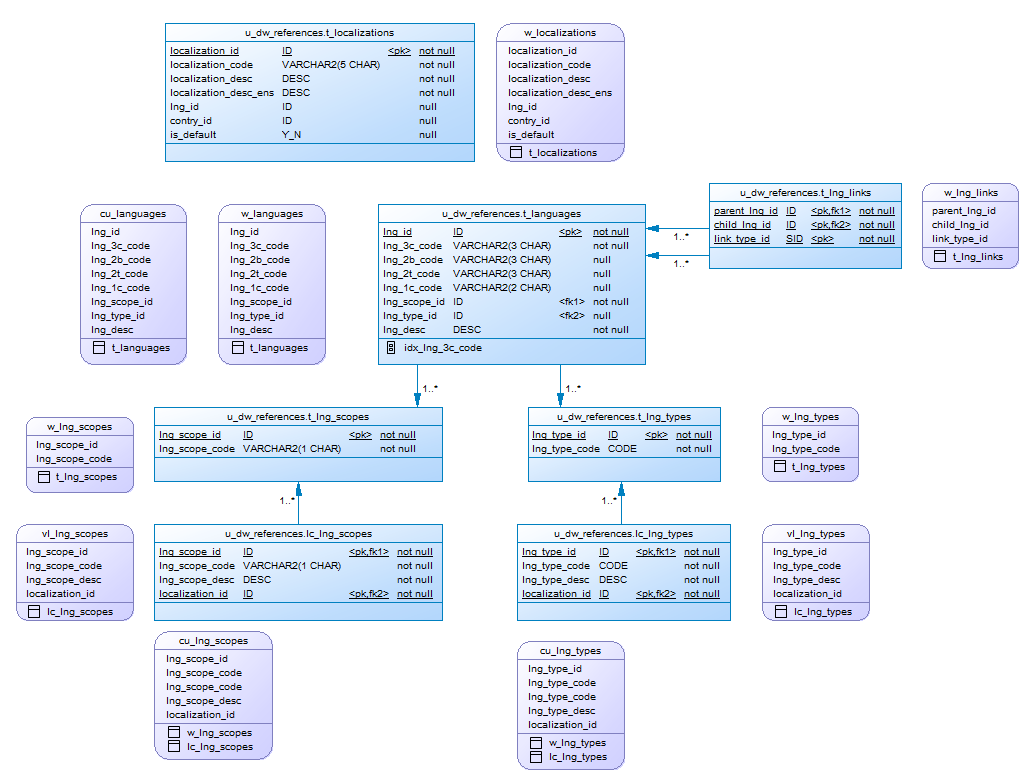


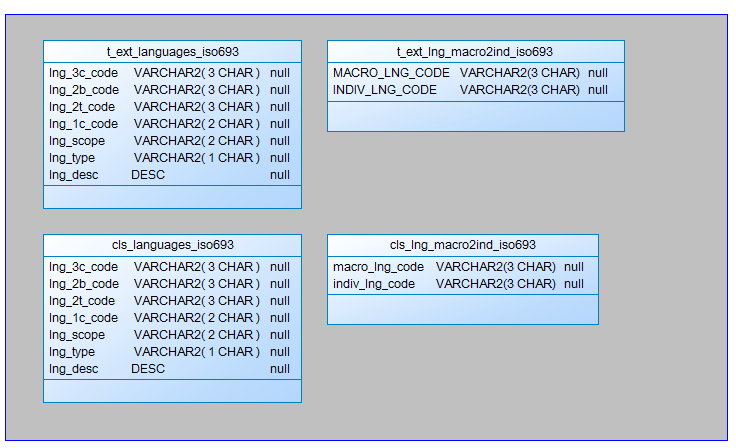
* *cu\_lng\_types*

SELECT \* FROM u\_dw\_references.cu\_lng\_types;



Physical diagram:





**Task 2**

Successfully executing all necessary scripts to create database objects.

Showing all created objects:

SELECT \* FROM all\_objects

WHERE owner IN ('U\_DW\_REFERENCES', 'U\_DW\_EXT\_REFERENCES')

AND (object\_name LIKE '%CNTR\_GROUP%'

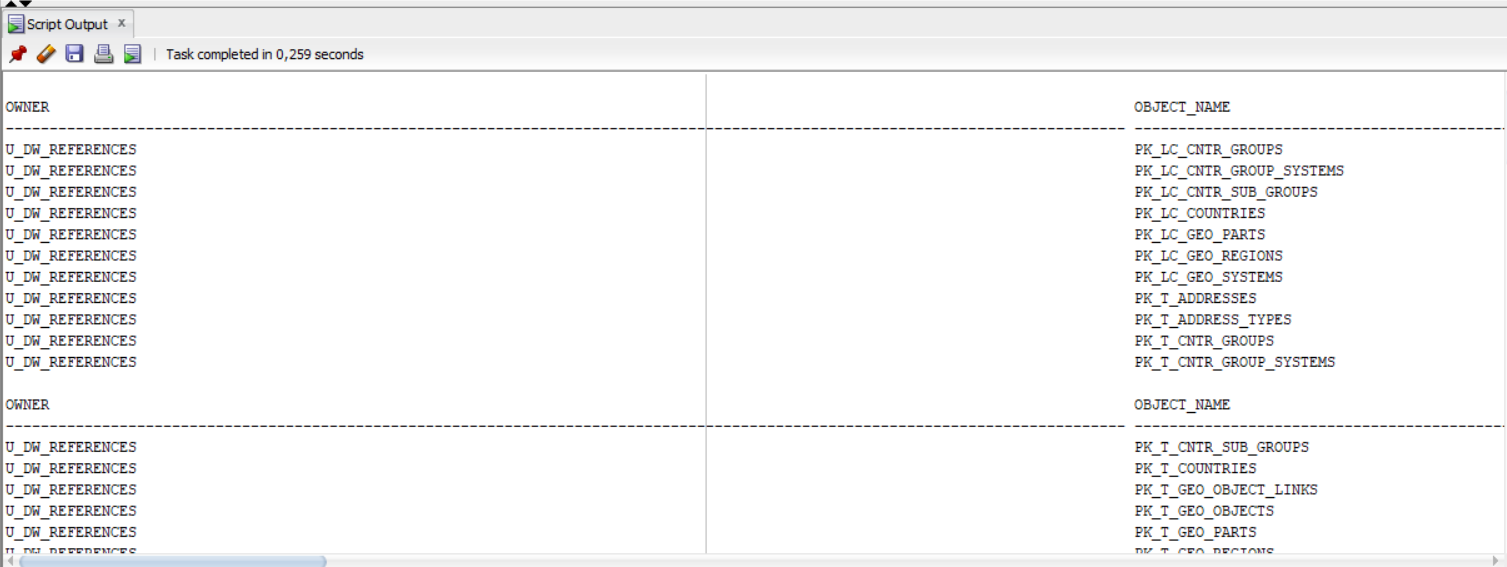
OR object\_name LIKE '%CNTR\_SUB\_GROUP%'

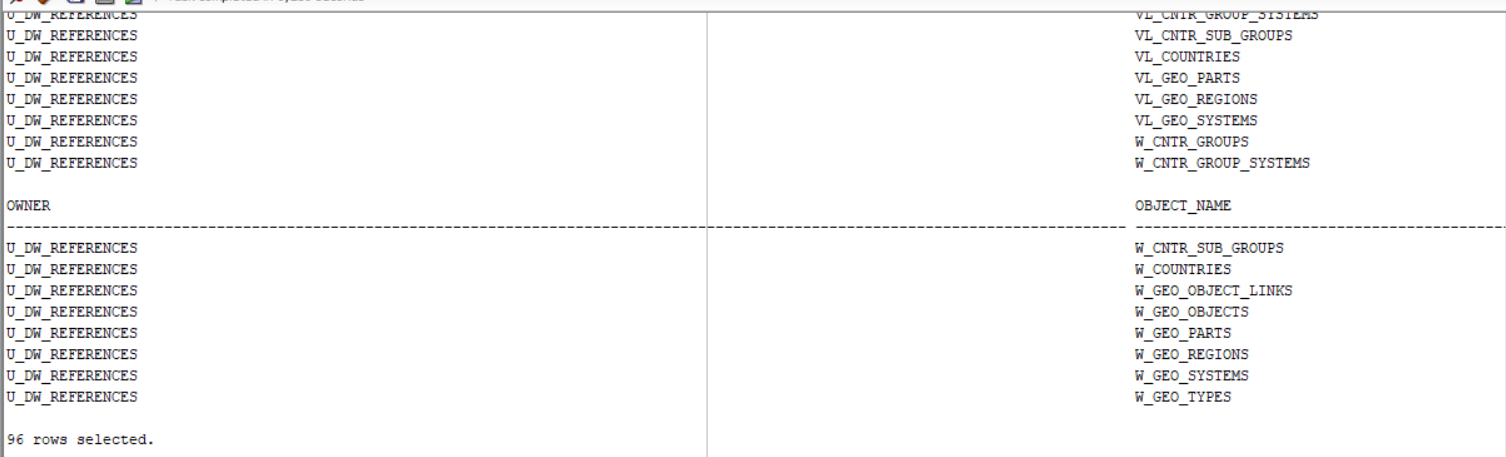
OR object\_name LIKE '%GEO%'

OR object\_name LIKE '%COUNTRIES%'

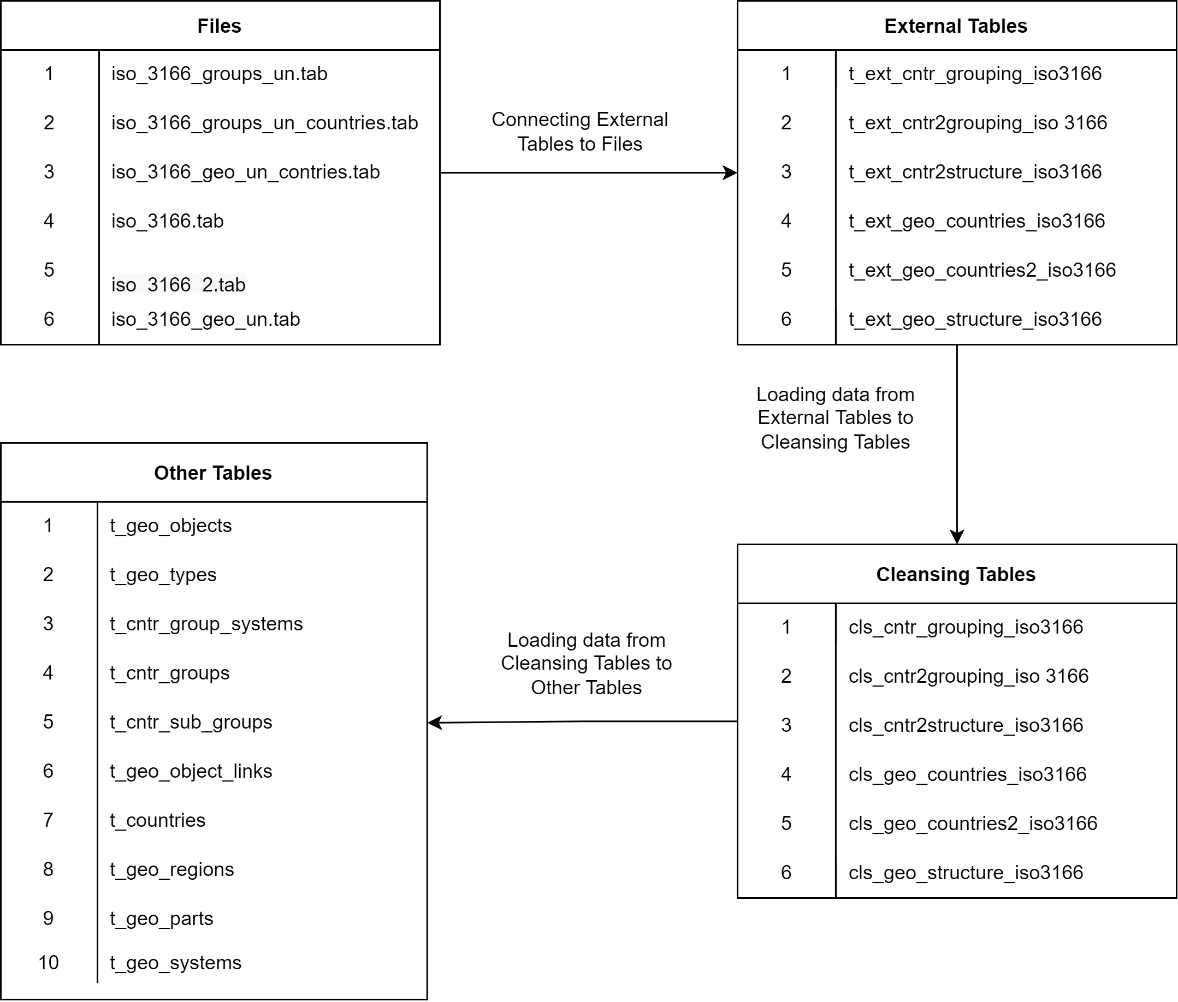
OR object\_name LIKE '%ADDRESS%')

ORDER BY object\_type, object\_name;



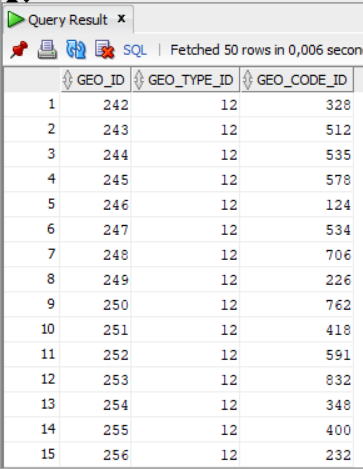


Creating DataFlow Diagram:

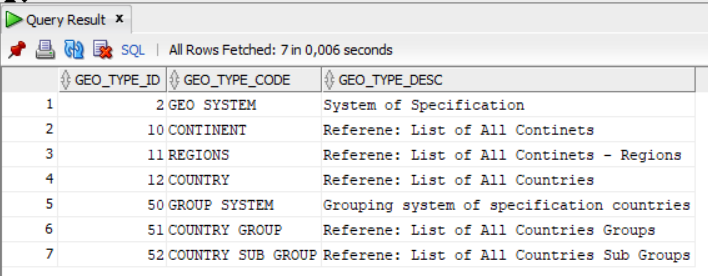


Selecting data from main tables

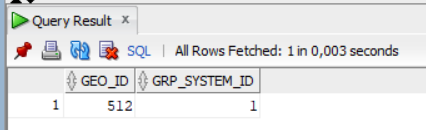
SELECT \* FROM u\_dw\_references.t\_geo\_objects;



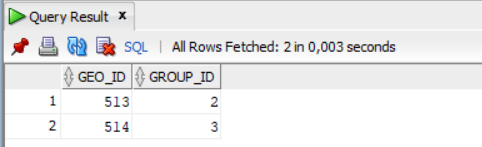
SELECT \* FROM u\_dw\_references.t\_geo\_types;



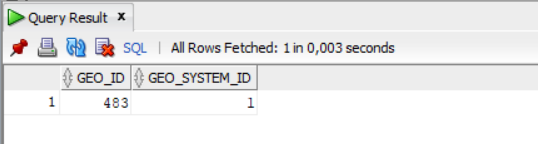
SELECT \* FROM u\_dw\_references.t\_cntr\_group\_systems;



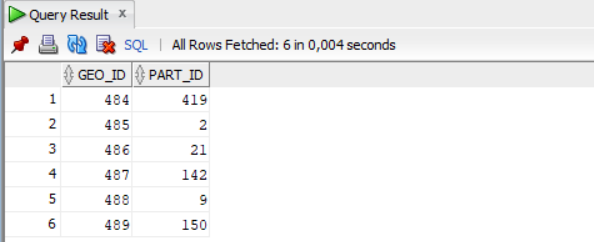
SELECT \* FROM u\_dw\_references.t\_cntr\_groups;



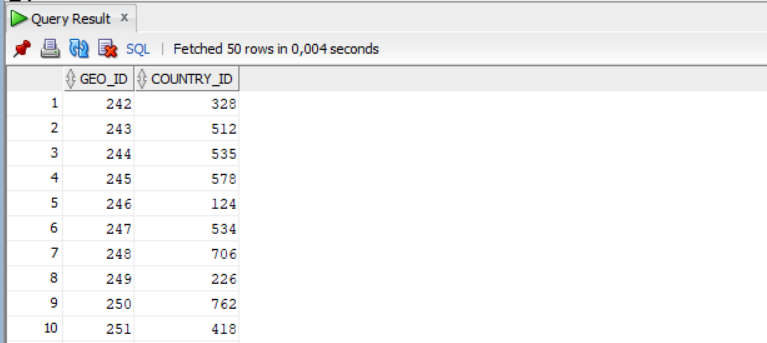
SELECT \* FROM u\_dw\_references.t\_geo\_systems;



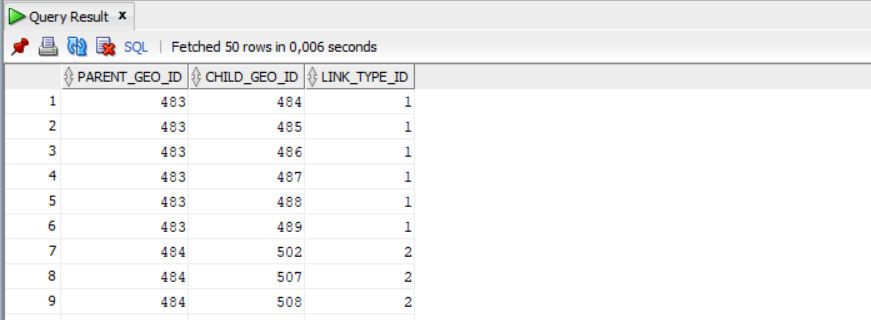
SELECT \* FROM u\_dw\_references.t\_geo\_parts;



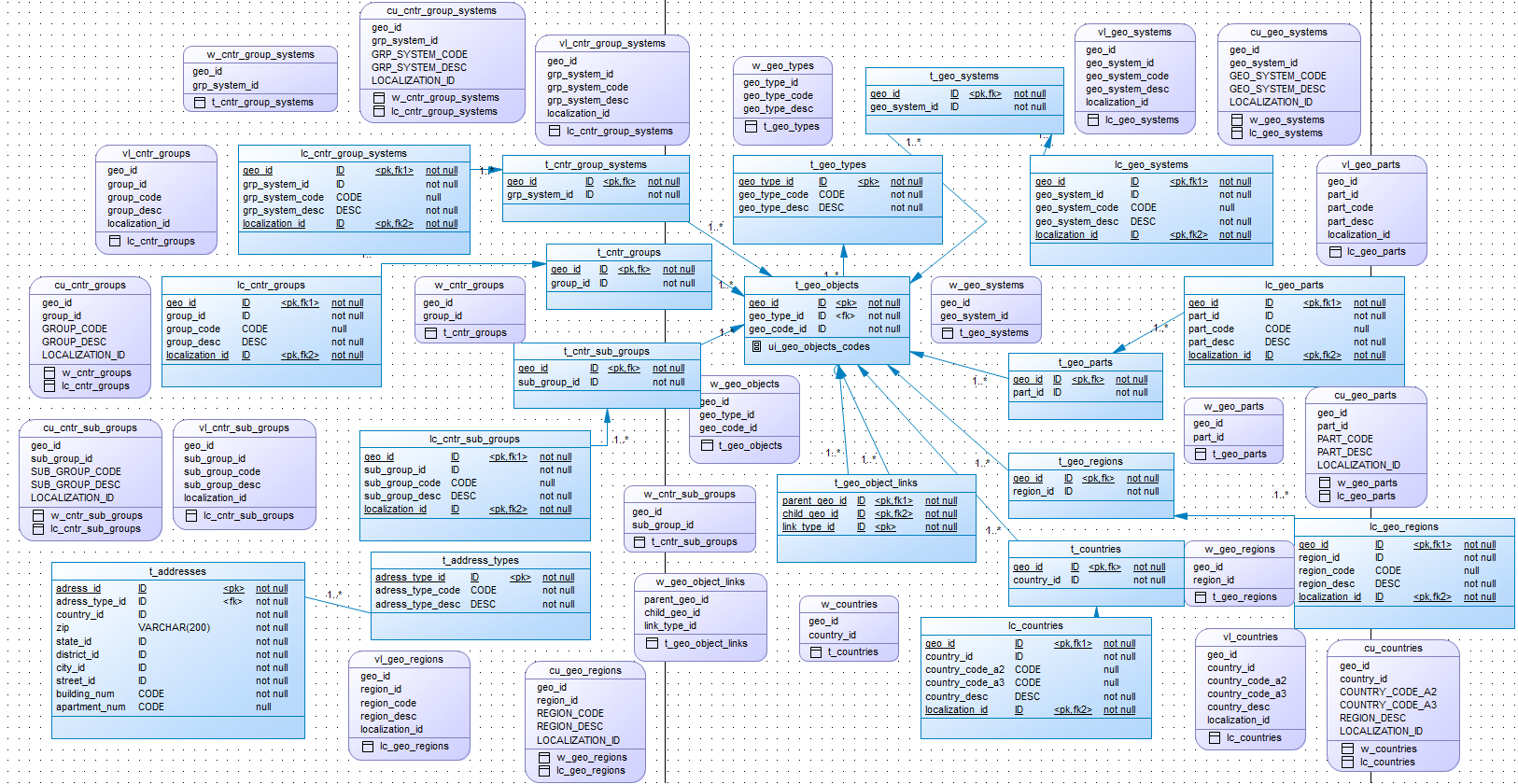
SELECT \* FROM u\_dw\_references.t\_countries;

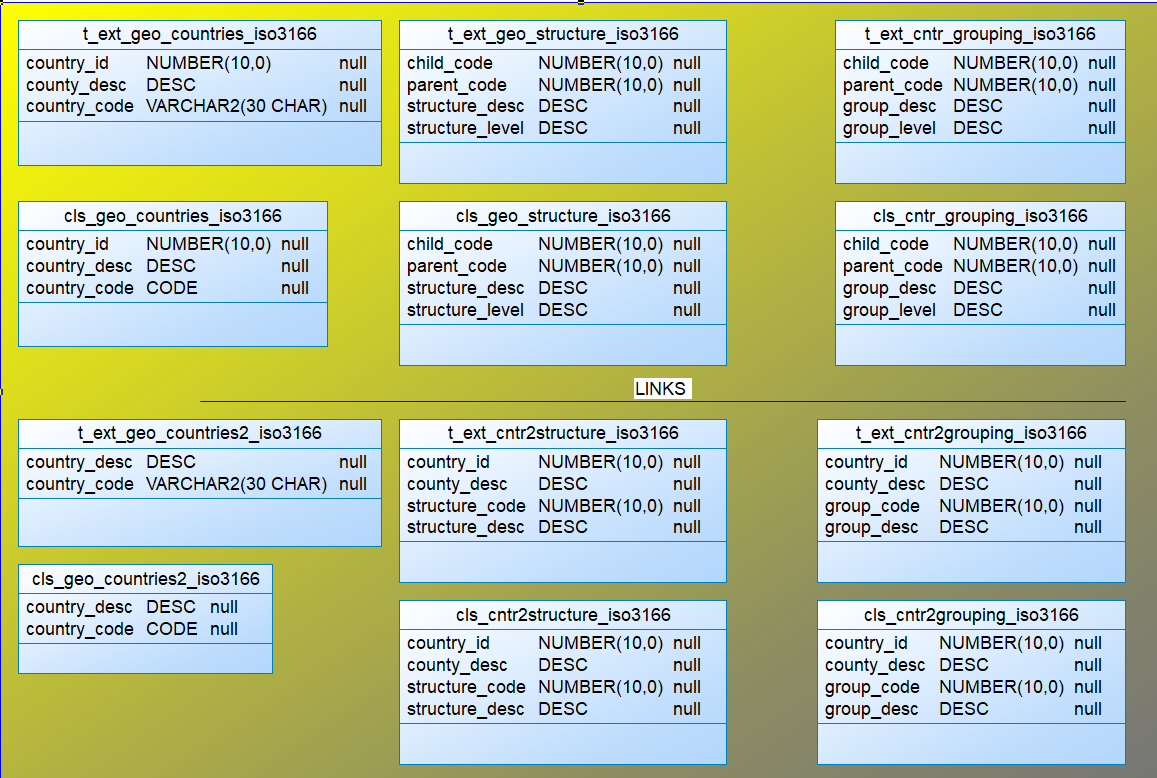


SELECT \* FROM u\_dw\_references.t\_geo\_object\_links;



Physical diagram of T\_Countries:





**Task 3**

Overview:

My business is the distributor company of kvass drinks. We have several departments in different countries. We provide many types of kvass drinks from different producers from all world.

Requirements:

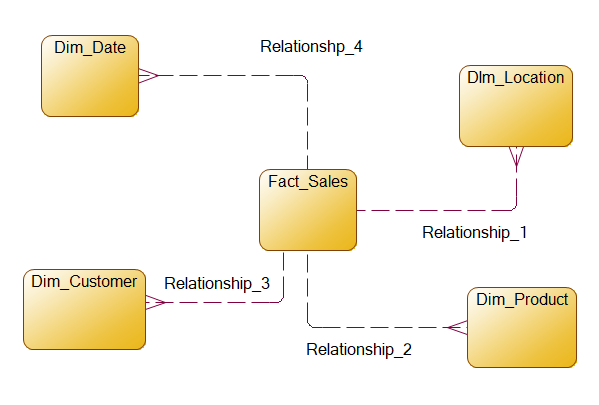
Last year the company’s growth has slowed down. We want to find out the solution how to accelerate the company’s growth. Also, we want to stimulate our regular customers as well as find new sales markets.

Solution:

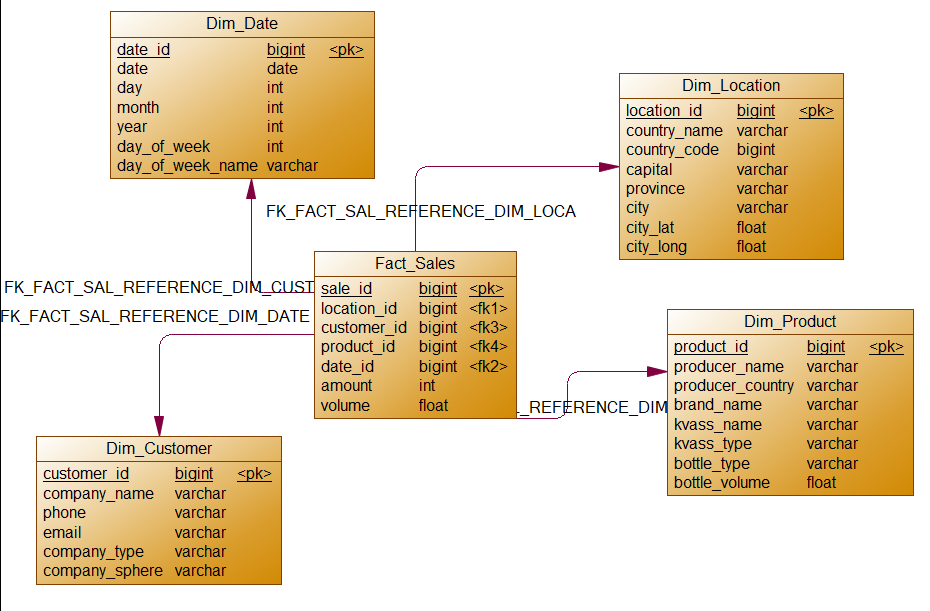
The primitive solution is to analyze your company sales. First of all, we need to get access to all data about your sales (dates, countries, cities, customers) from your source data storages. According to this data, we will create powerful analytical system. You can use provided system to create clear data solutions, which can help you to recognize weaknesses of your sales policies and improve them.

**Task 4**

Star-Scheme Logical Diagram:

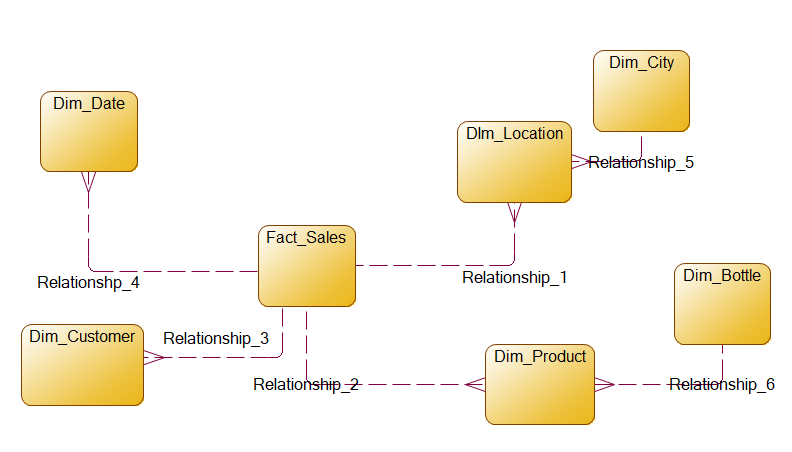


Star-Scheme Physical Diagram:



**Task 5**

SnowFlake-Scheme Logical Diagram:



SnowFlake-Scheme Physical Diagram:

