|  |
| --- |
|  |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1.0 | Initial status | Olga\_Hilko | 19-NOV-2017 |  |  |

Contents

[1. CREATE Storage Objects 3](#_Toc498891906)

[2. Generate Test Data in Storage Layers 3](#_Toc498891907)

[2.1. Base scenario 3](#_Toc498891908)

[2.2. Results 4](#_Toc498891909)

[2.3. Db Scheme 7](#_Toc498891910)

[2.4. Recall of the main ETL 8](#_Toc498891911)

[2.5. Results of the recall 8](#_Toc498891912)

[2.6. Recall data errors 9](#_Toc498891913)

[2.7. Data correction 10](#_Toc498891914)

[3. SQL\*Plus 11](#_Toc498891915)

[3.1. Linux connection 11](#_Toc498891916)

[3.2. Windows connection 12](#_Toc498891917)

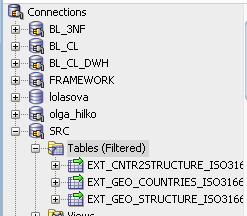
[3.3. Execution plan 13](#_Toc498891918)

[3.4. Save to file 13](#_Toc498891919)

[3.5. Script 15](#_Toc498891920)

# CREATE Storage Objects

Uses were created and granted. External tables where created



Scripts for creating users, their grants and tables (are finished with \*DDL.sql) are in git.

# Generate Test Data in Storage Layers

## Base scenario

Here is the code, which orchestras the ETL.

**connect FRAMEWORK/123456;**

show user;

@FRAMEWORK\_pkg.sql

@FRAMEWORK\_grant.sql

**connect SRC/123456;**

show user;

@SRC\_DDL.sql

@SRC\_grant.sql

commit;

**connect BL\_CL/123456;**

show user;

@BL\_CL\_DDL.sql

**connect BL\_3NF/123456;**

show user;

@BL\_3NF\_DDL.sql

@BL\_3NF\_grant.sql

**connect BL\_CL/123456;**

show user;

--SRC to WRK pkg

@BL\_CL\_PKG1.sql

--WRK to CL pkg

@BL\_CL\_PKG2.sql

-- CL to 3NF pkg

@BL\_CL\_PKG3.sql

**-- the main ETL**

connect BL\_CL/123456;

show user;

@BL\_CL\_call\_pkg.sql

## Results

Connected

**USER is "FRAMEWORK"**

Package PKG\_UTL\_DROP compiled

Package body PKG\_UTL\_DROP compiled

Package PKG\_UTL\_GRANTS\_MGMT compiled

Package body PKG\_UTL\_GRANTS\_MGMT compiled

Grant succeeded.

Grant succeeded.

Connected

**USER is "SRC"**

**Directory EXT\_TABLES created.**

PL/SQL procedure successfully completed.

**Table EXT\_GEO\_COUNTRIES\_ISO3166 created.**

PL/SQL procedure successfully completed.

**Table EXT\_GEO\_STRUCTURE\_ISO3166 created.**

PL/SQL procedure successfully completed.

**Table EXT\_CNTR2STRUCTURE\_ISO3166 created.**

PL/SQL procedure successfully completed.

Grant succeeded.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

Commit complete.

Connected

**USER is "BL\_CL"**

PL/SQL procedure successfully completed.

**Table WRK\_GEO\_COUNTRIES\_ISO3166 created.**

PL/SQL procedure successfully completed.

**Table WRK\_GEO\_STRUCTURE\_ISO3166 created.**

PL/SQL procedure successfully completed.

**Table WRK\_CNTR2STRUCTURE\_ISO3166 created.**

PL/SQL procedure successfully completed.

**Table CL\_CONTINENTS created.**

PL/SQL procedure successfully completed.

**Table CL\_REGIONS created.**

PL/SQL procedure successfully completed.

**Table CL\_COUNTRIES created.**

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

Connected

**USER is "BL\_3NF"**

PL/SQL procedure successfully completed.

**Table CONTINENTS created.**

PL/SQL procedure successfully completed.

**Table REGIONS created.**

PL/SQL procedure successfully completed.

**Table COUNTRIES created.**

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

Connected

**USER is "BL\_CL"**

Package PKG\_SRC\_TO\_WRK compiled

Package body PKG\_SRC\_TO\_WRK compiled

Package PKG\_WKR\_TO\_CL compiled

Package body PKG\_WKR\_TO\_CL compiled

Package PKG\_CL\_TO\_3NF compiled

Package body PKG\_CL\_TO\_3NF compiled

Connected

**USER is "BL\_CL"**

PL/SQL procedure successfully completed.

Commit complete.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

Commit complete.

PL/SQL procedure successfully completed.

**Lola: Loading into BL\_3NF.Continents is successful**

PL/SQL procedure successfully completed.

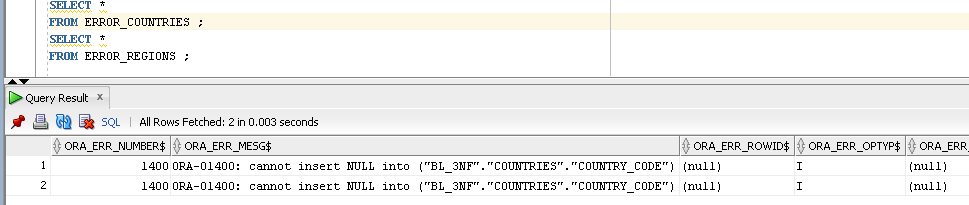
**Lola: Loading into BL\_3NF.Regions is successful**

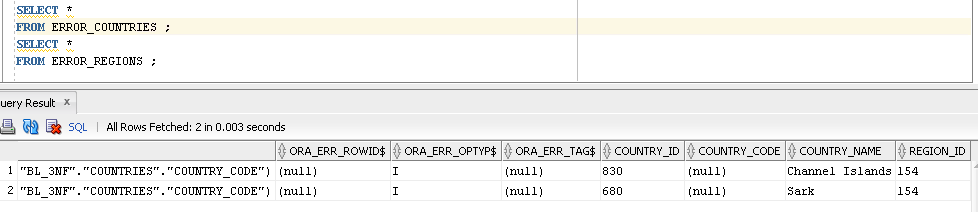
PL/SQL procedure successfully completed.

**Lola: Unpasted rows in BL\_3NF.Countries table:2 row(s)**

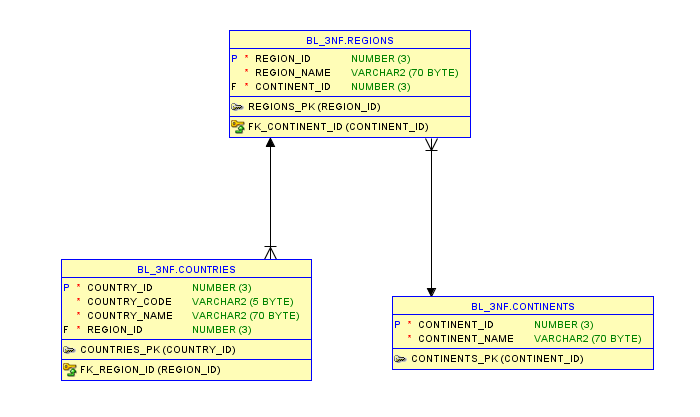
>>Query Run In:Query Result 1

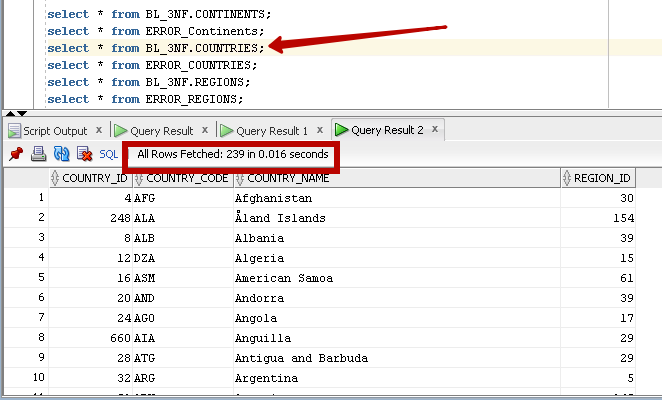
Connection created by CONNECT script command disconnected

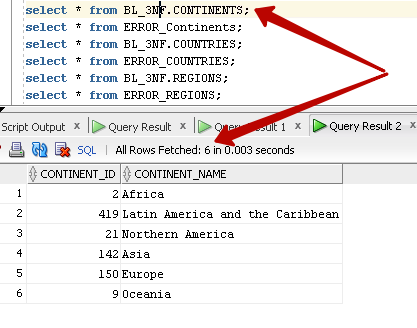


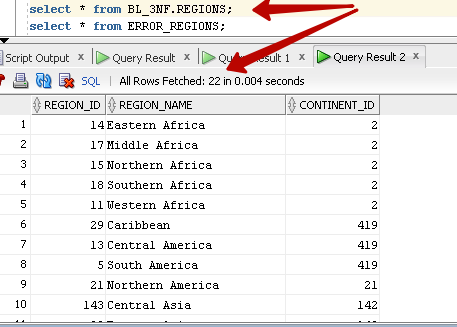


## Db Scheme









## Recall of the main ETL

connect BL\_CL/123456;

show user;

@BL\_CL\_call\_pkg.sql

## Results of the recall

Connected

USER is "BL\_CL"

PL/SQL procedure successfully completed.

Commit complete.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

Commit complete.

PL/SQL procedure successfully completed.

**Lola: Unpasted rows in BL\_3NF.Continents table:6 row(s)**

PL/SQL procedure successfully completed.

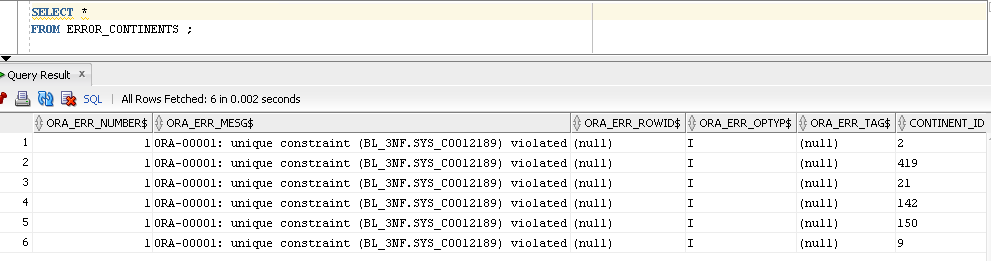
**Lola: Unpasted rows in BL\_3NF.Regions table:22 row(s)**

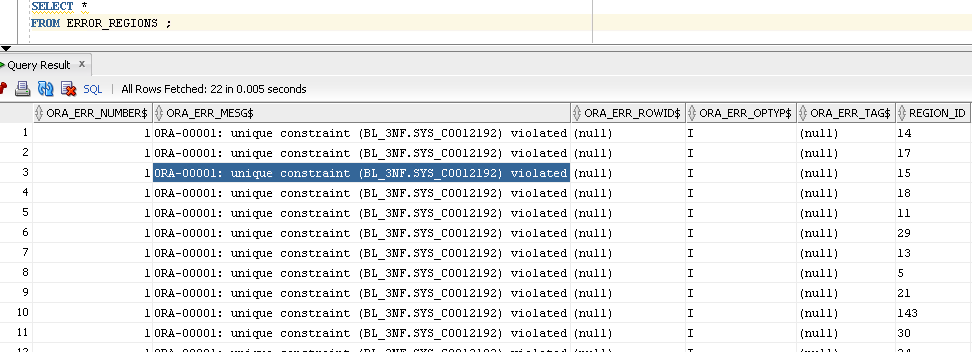
PL/SQL procedure successfully completed.

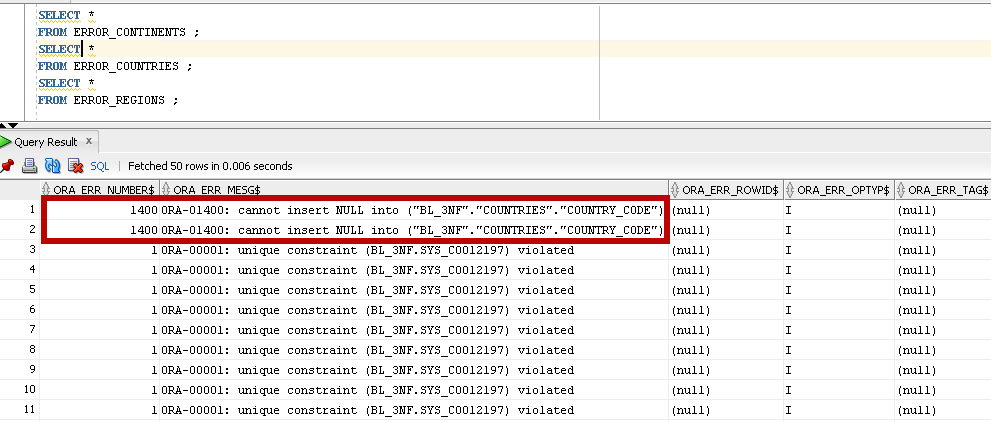
**Lola: Unpasted rows in BL\_3NF.Countries table:241 row(s)**

Connection created by CONNECT script command disconnected

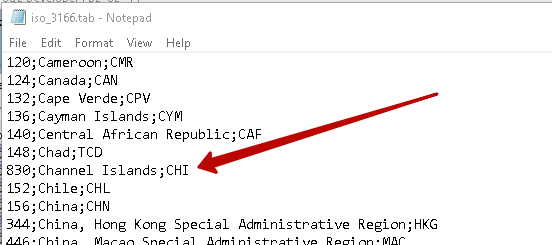
## Recall data errors

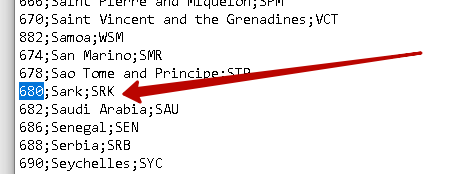






## Data correction





**Recalled code**

connect BL\_CL/123456;

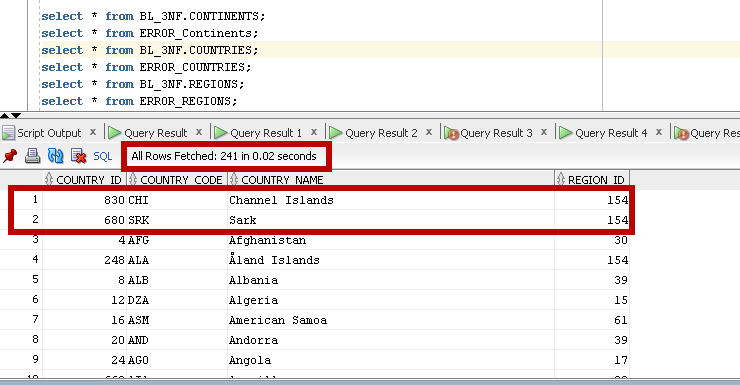
@BL\_CL\_PKG1.sql

@BL\_CL\_PKG2.sql

@BL\_CL\_PKG3.sql

@BL\_CL\_call\_pkg.sql

**Now we have full data, only 2 rows were pasted.**

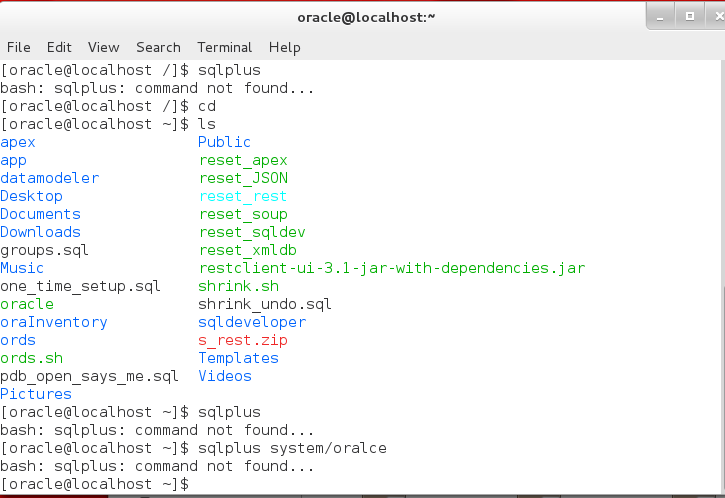


# SQL\*Plus

## Linux connection

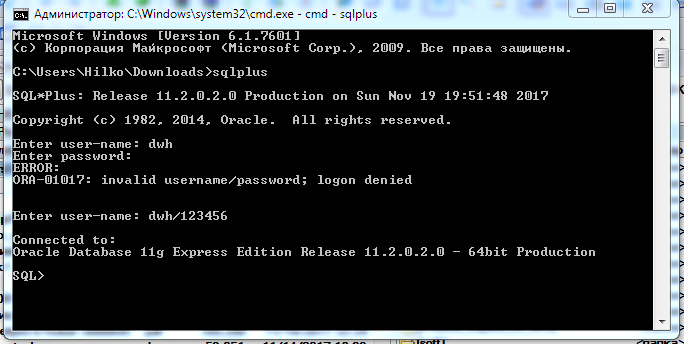
Connect to a database via SQL\*Plus client:

We have probles in linux

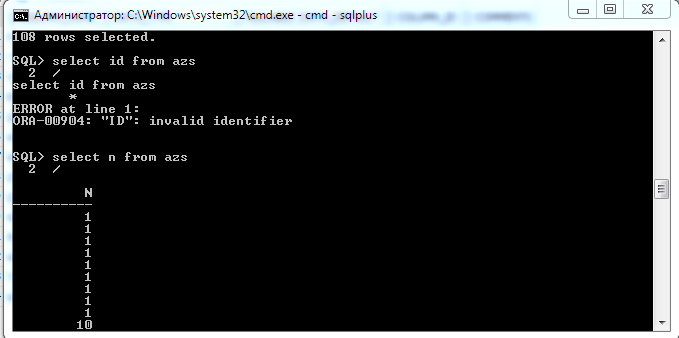


## Windows connection

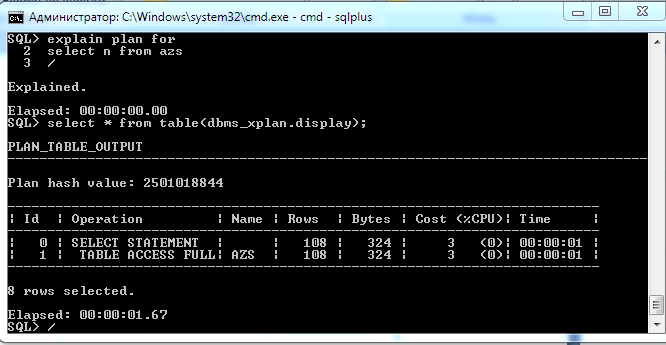
Connect to sqlplus from Windows command line (connection is to the 11g xe version)



first select

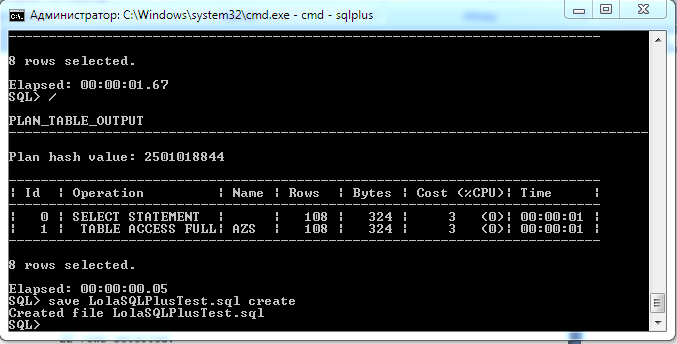


## Execution plan

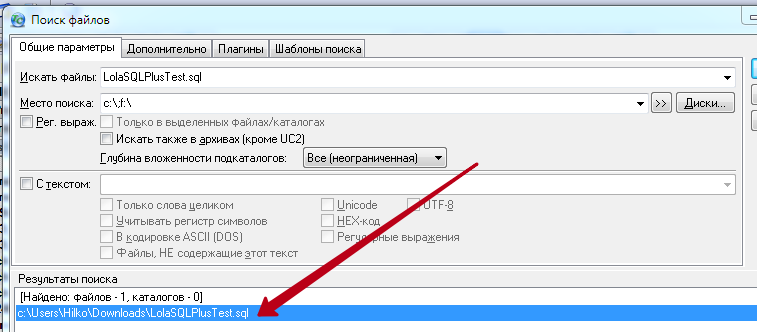


## Save to file

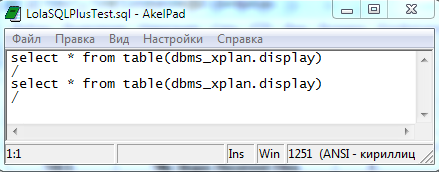
create file



find the file

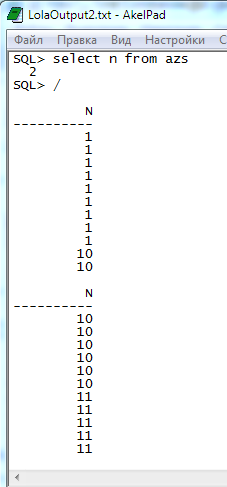


view the file



save sql results to file





## Script

run script file

