**1. Business analyses tasks – Dimensions**

Task 01. Create Packages for Reload Dimension from SA\_\*

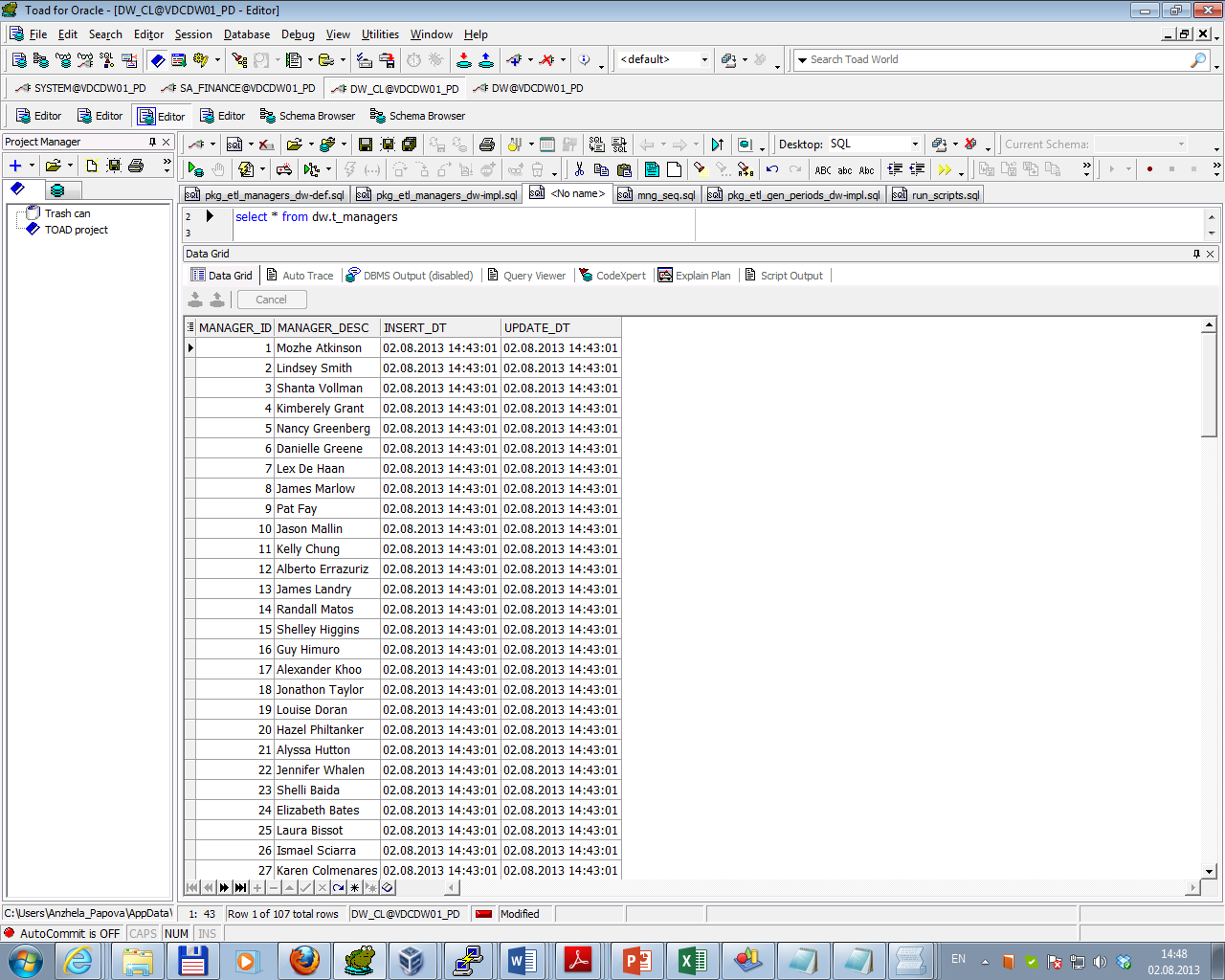
User DW\_CL was granted with necessary privileges which were added in attached file init\_users.sql.

Tables on DW Layer were created by running scripts from directory \dw\tables\.

Necessary sequences were created on DW\_CL Layer by running scripts from directory \dw\_cl\sequences\.

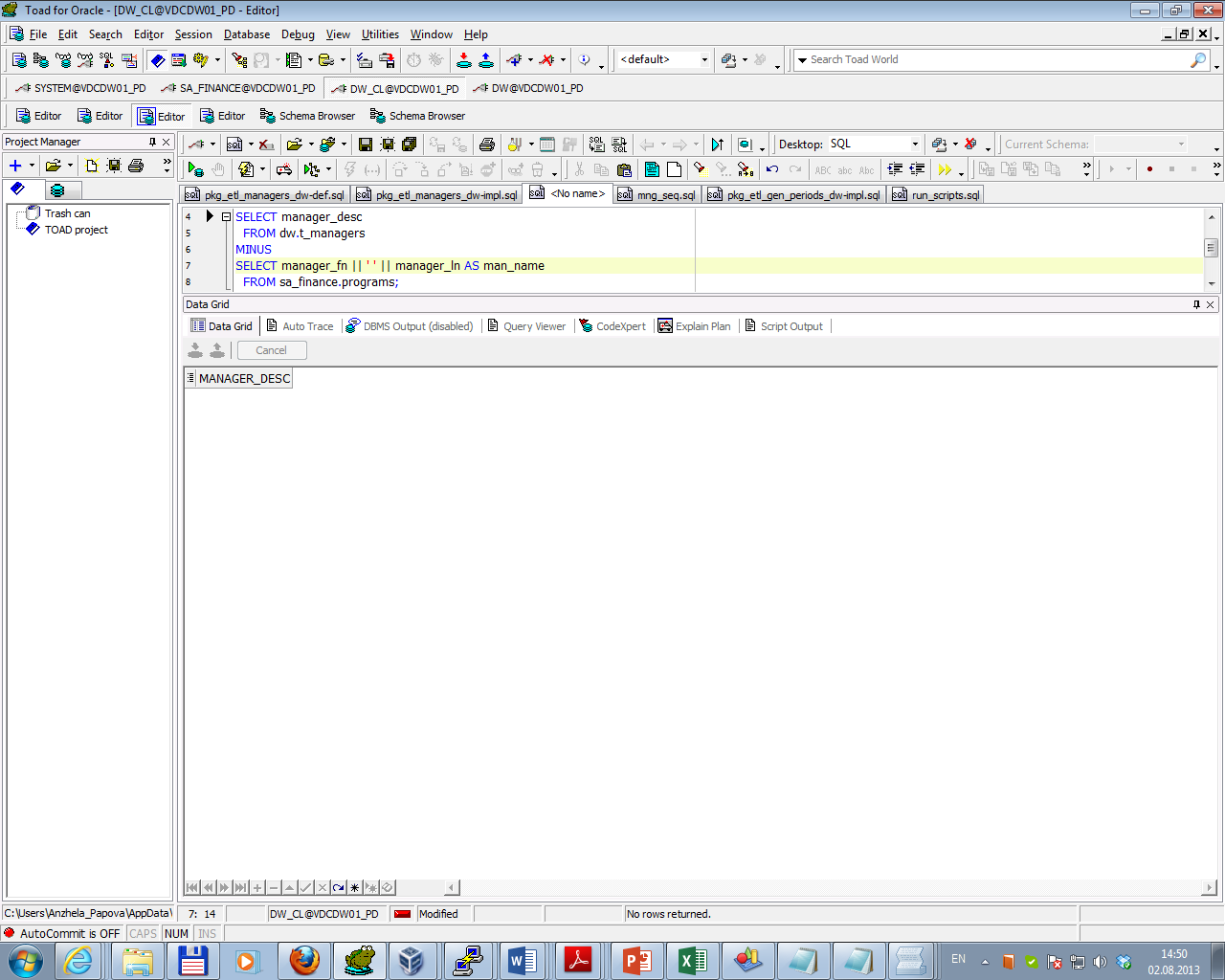
Package pkg\_etl\_dim\_programs\_dw was created to reload data about programs and theirs managers (in different tables at DW Layer) from source table Programs. Package pkg\_etl\_dim\_programs\_dw (presented in directory \dw\_cl\packages\) consists of the next procedures:

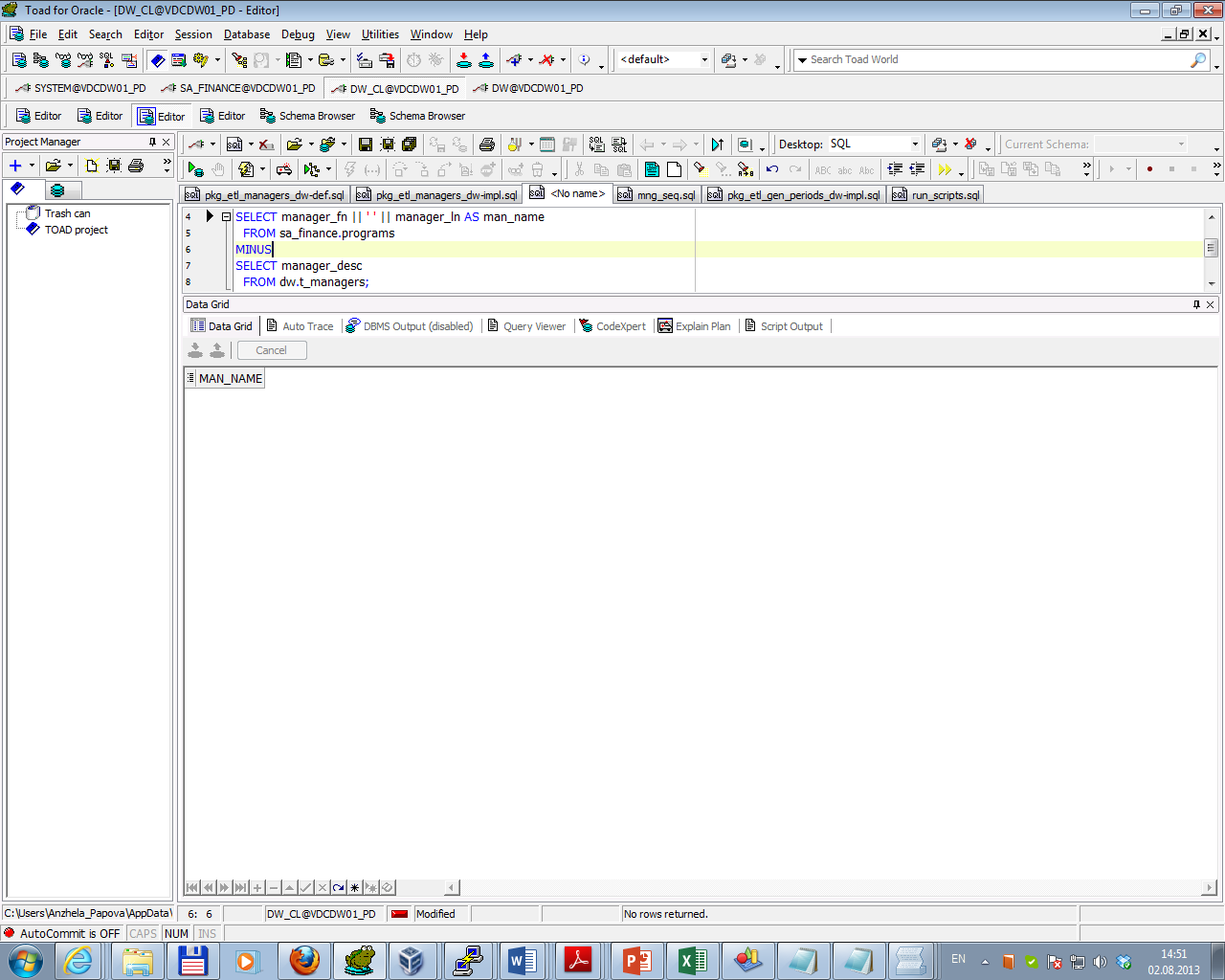
1**. Load\_managers**- to load data about managers using Execute Immediate with Bind Parameters in table dw.t\_managers. Result of procedure execution is presented below.



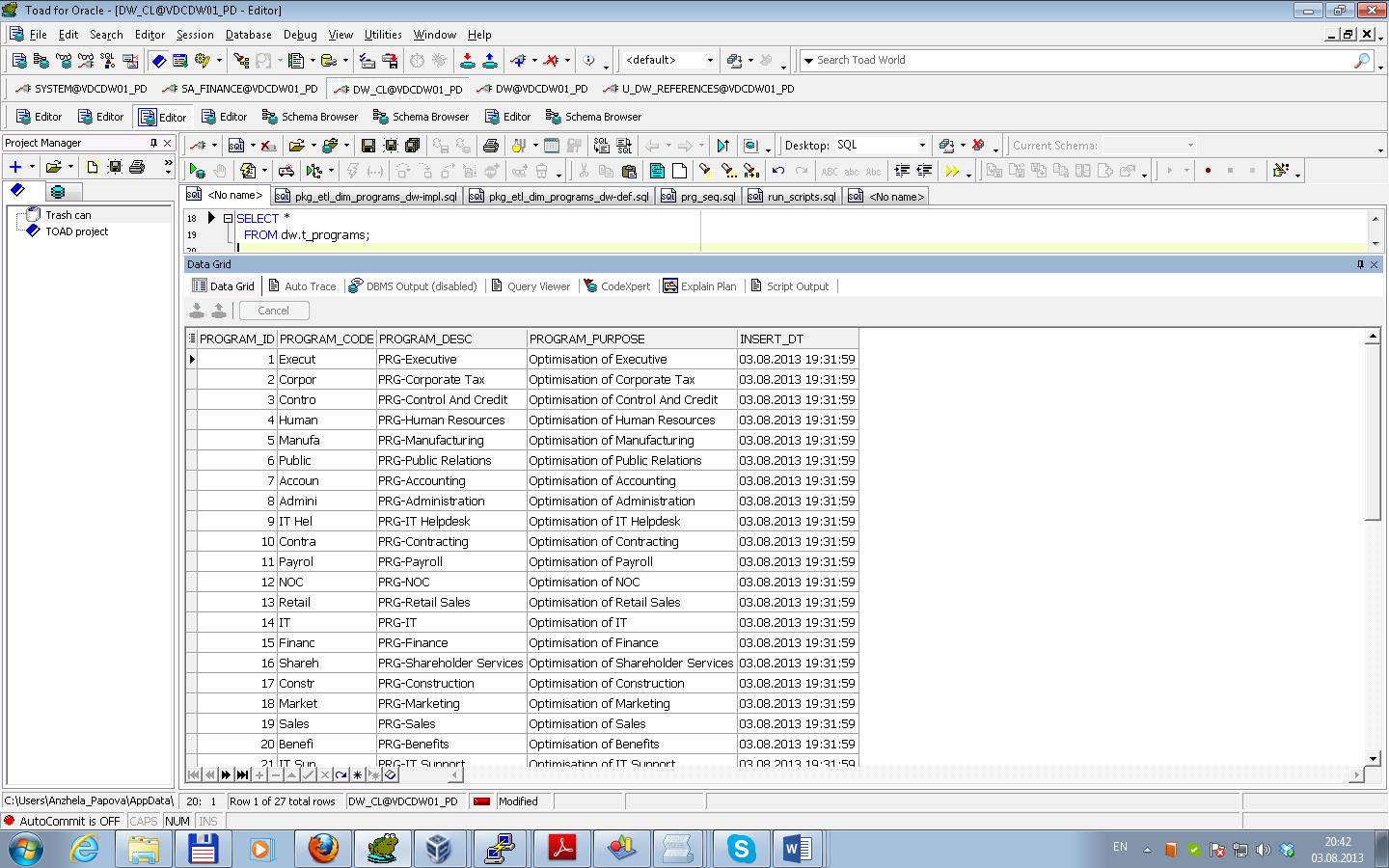
After multi execution result is the same.

To test data for consistency was used result of expression (direct and inverse) as select from procedure execution minus select data from source table. Test results are presented below.



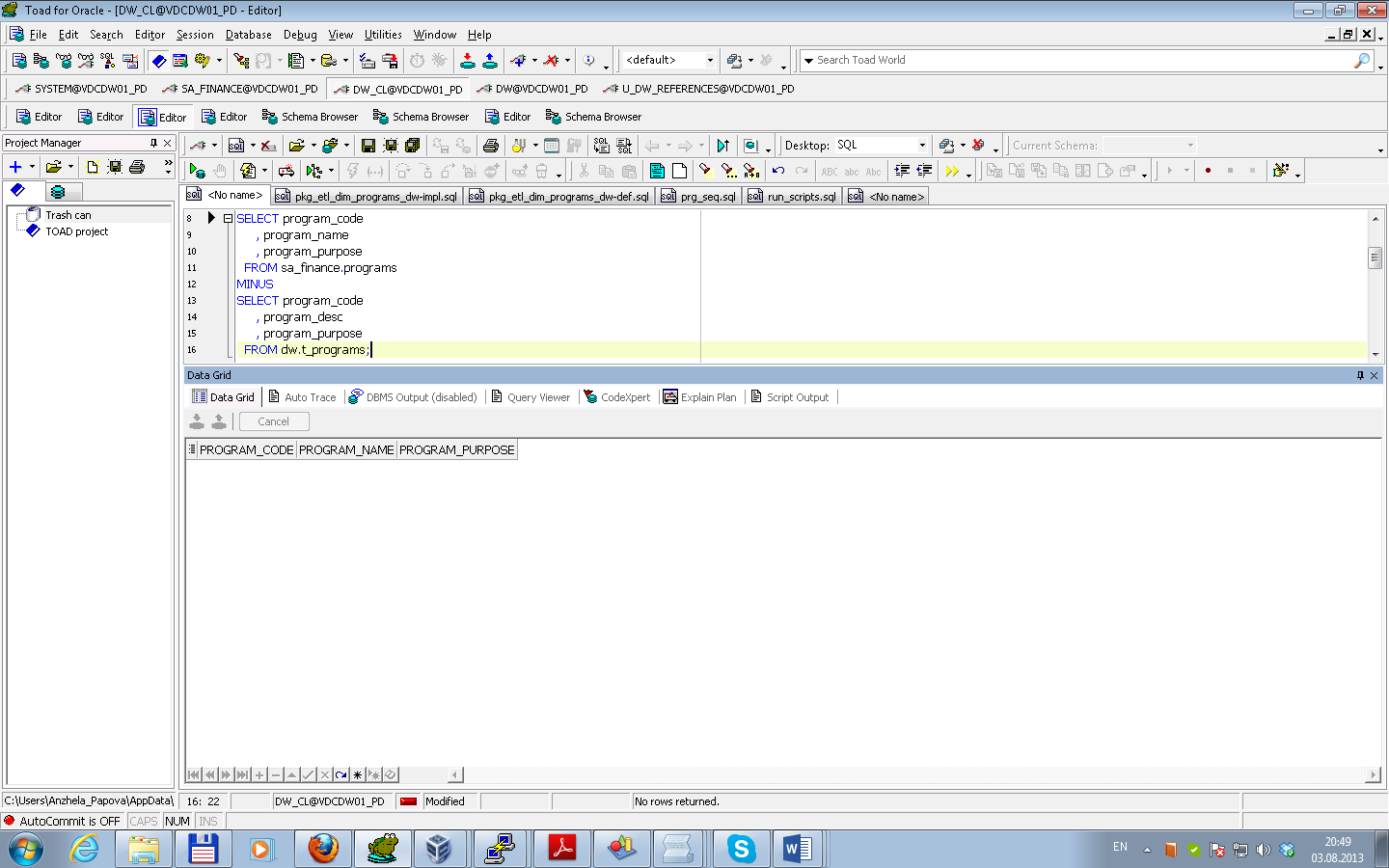


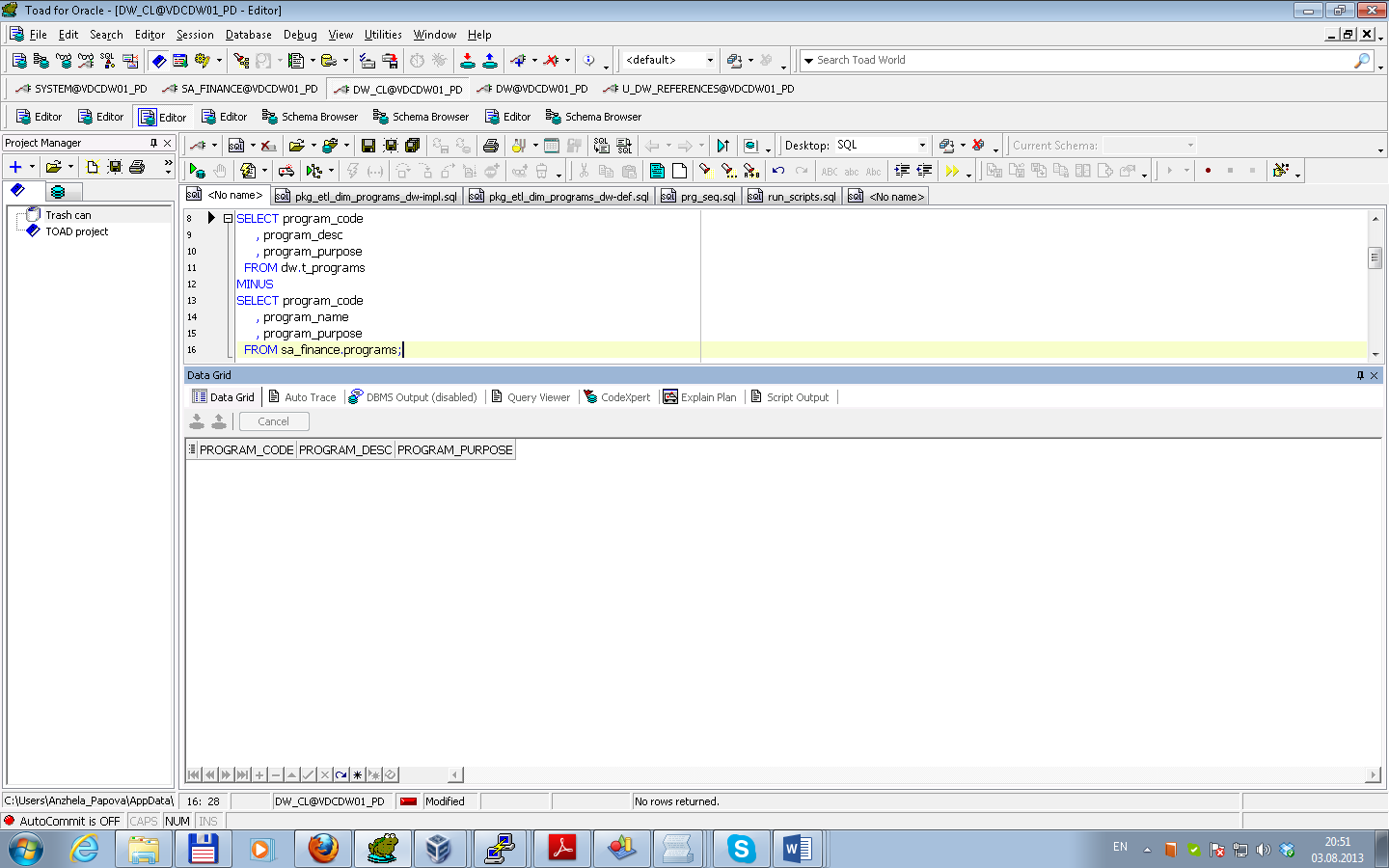
2**. Load\_programs** - to load data about programs using DBMS\_SQL.TO\_REFCURSOR Function in table dw.t\_programs. Result of procedure execution is presented below.



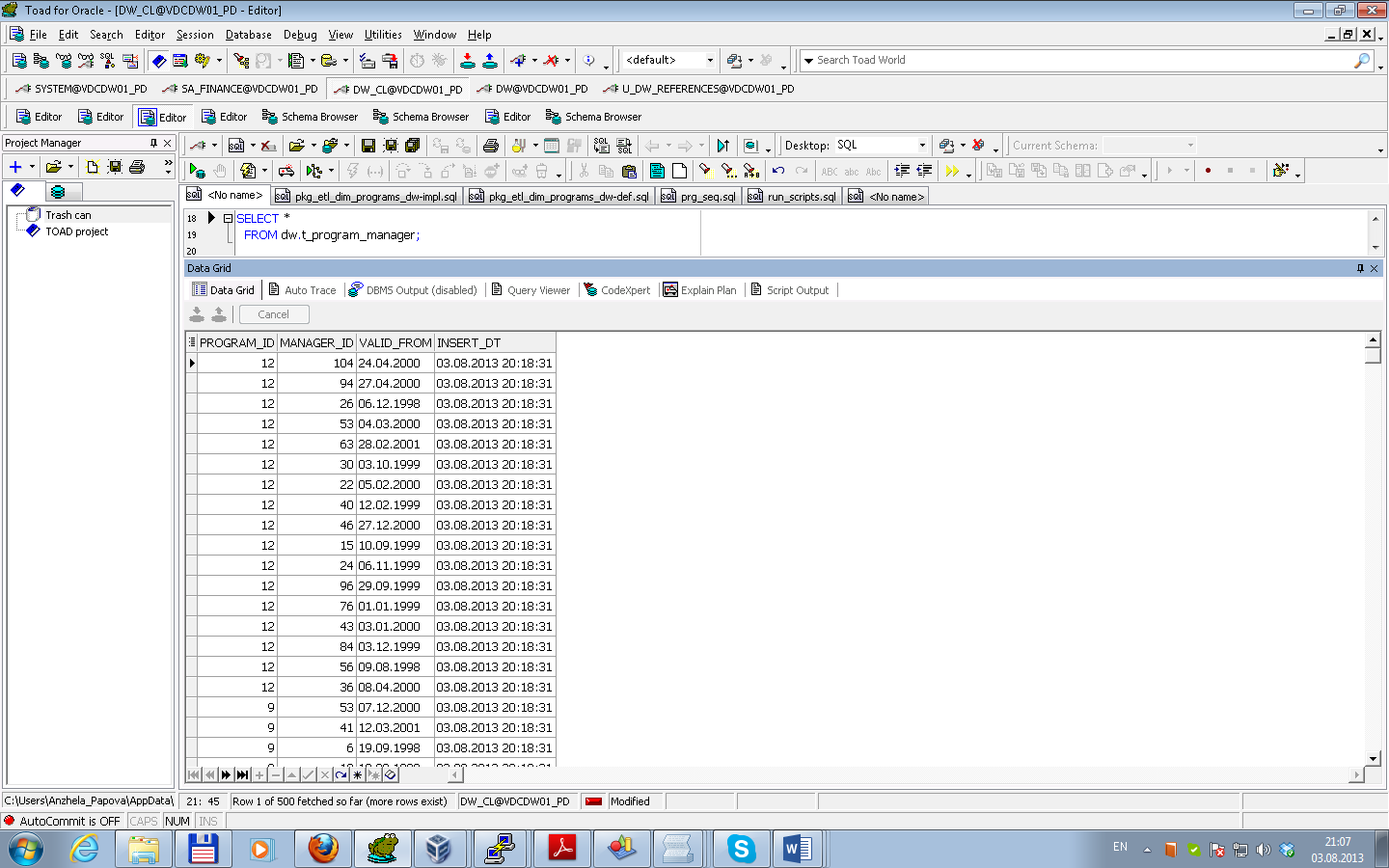
After multi execution result is the same.

To test data for consistency was used result of expression (direct and inverse) as select from procedure execution minus select data from source table. Test results are presented below.



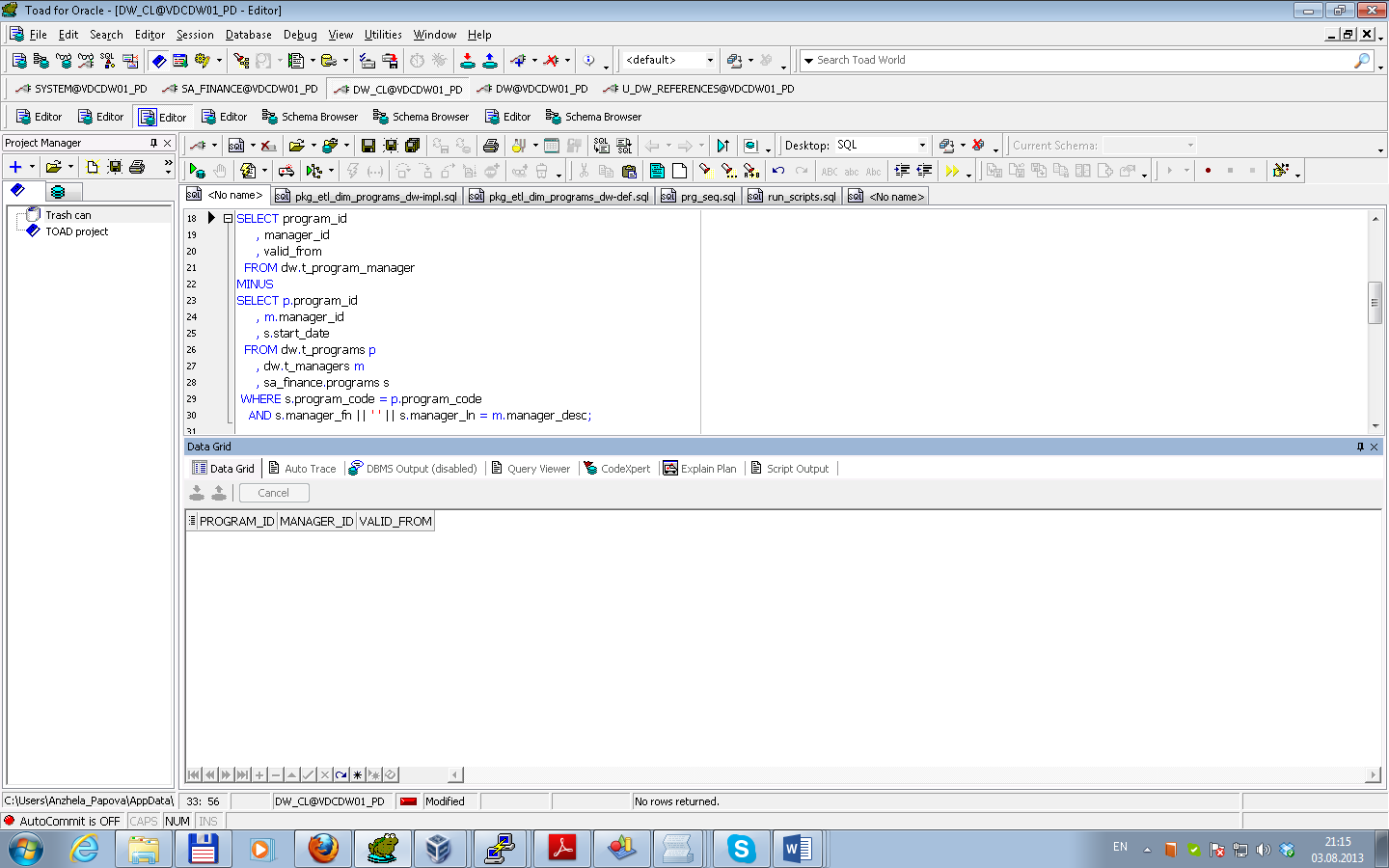


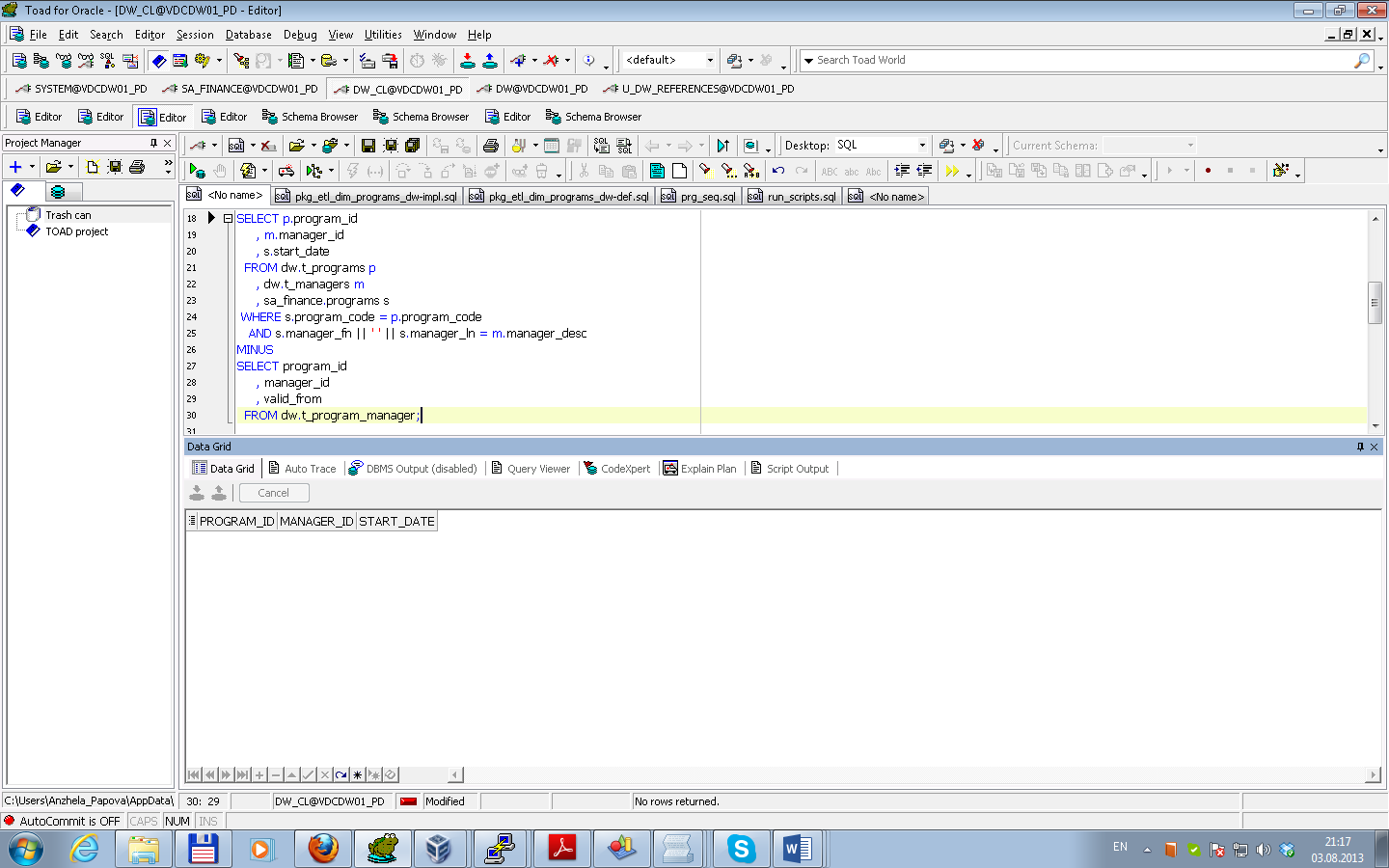
3**. Load program\_manager** - to load data about programs’ managers using DBMS\_SQL.TO\_CURSOR\_NUMBER Function in table dw.t\_program\_manager. Result of procedure execution is presented below.



After multi execution result is the same.

To test data for consistency was used result of expression (direct and inverse) as select from procedure execution minus select data from source table. Test results are presented below.



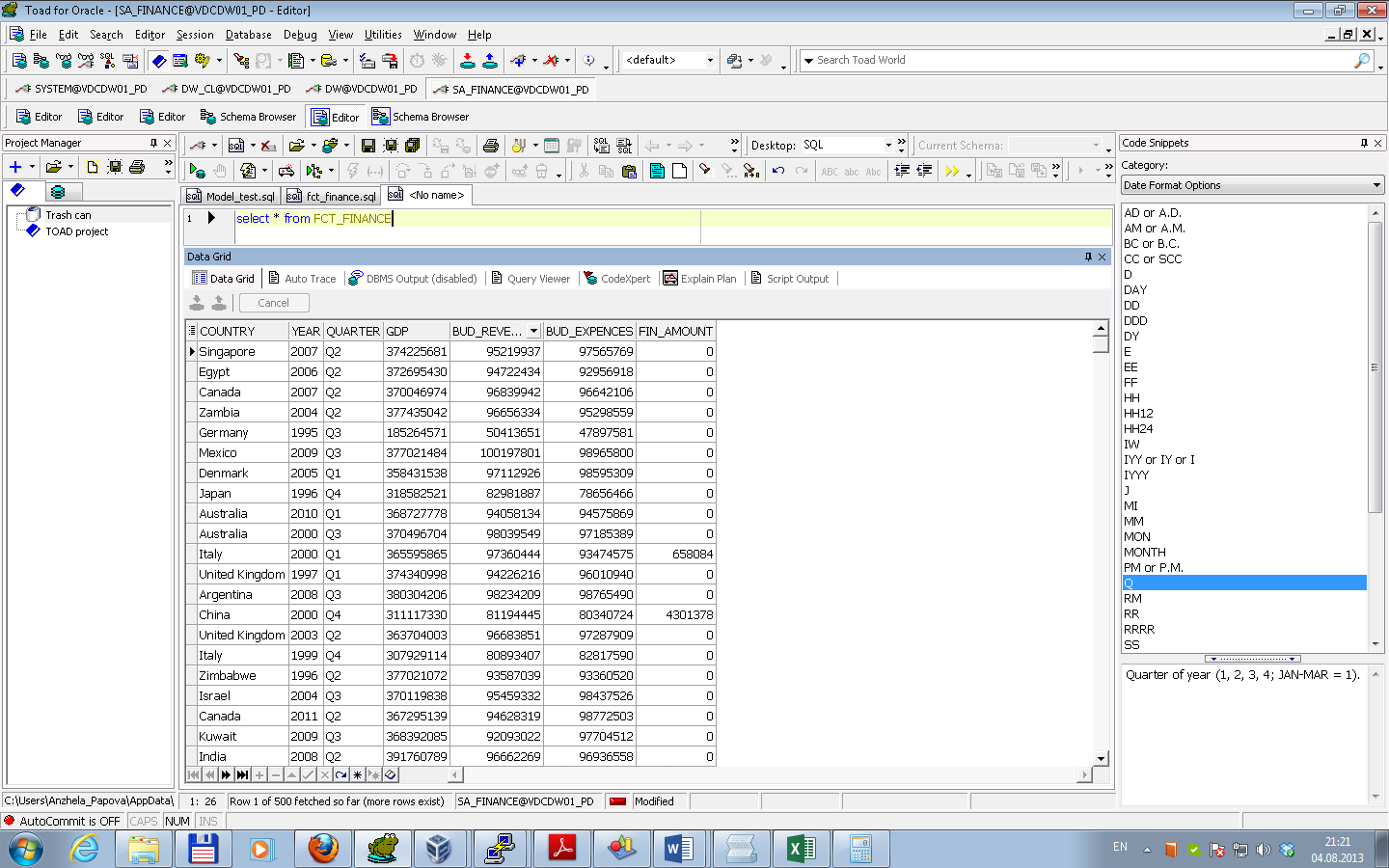


**2. Business analyses tasks – Reports**

Task 02. CREATE Monthly Reports Layouts

Report layout Quarterly analysis of the World Bank funding was created according Business Solution Proposal (presented in attached file WB\_funding\_quarterly(model).xlsx).

To use Model Clause fact table fct\_finance was created (script is in attached file fct\_finance.sql). Result of script running is presented below.



Model Clause was used to create report according the layout (script is in attached file Model\_test.sql). Result of script running is presented below.

