T-202-GAG1: Assignment 7

Readings

Ramakrishnan & Gehrke: Chapter 16.

Preparation

If you have already started working on Project 3, no preparation is needed (aside from reading the text and listening to the lectures).

The Assignment

Transactions can be very useful for testing database operations. Once you have started (begin) a transaction, you can insert, delete or update data, run any number of functions, and run any number of queries to check for your changes. Once you have done this, you can simply abort (rollback) the transaction, and all the changes disappear, leaving the database as it was before your transaction started.

For this assignment, write a test script for Project 3. When necessary, use transactions to make changes and then remove them.

You should use either comments or query output to briefly explain the testing code. To explain what I mean by "query output", the following simple code could be used to check the output of the view in Task 2 of Project 3:

```
select '2. View DebtorStatus' as now_checking;

select 'Should return 28 debtors' as result;

select count(*)
from DebtorStatus;
```

Note that no transaction is needed for the code above, since there are no changes to data for this particular test. You could, however, insert data to test even a view, in which case a transaction could be useful.

Note also that the function from Task 4 of Assignment 6 could be very handy for testing the Trigger in Task 5 of Project 3.

Deliverables

For this assignment, you can work in groups of two or three, and I recommend working with your group for Project 3.

Submit one text file (*.txt) containing the SQL code that you wrote for testing your Project 3 code.

Additional Exercises

Work on Project 3. If you have not completed Task 4 of Assignment 6, that would also be useful.