**Lab 2 - Introduction to Transact-SQL**

**Content:**

* Learning MS SQL Server 2014
* Practising T-SQL

**References**

[1] Lab 2 – Database system (Instruction)

[2] Book: Beginning SQL Server 2012 for Developers

[3] Tutorial: <http://www.tutorialspoint.com/sql>

[4] <https://sites.google.com/site/nttsteaching/home/database>

**Task 1:** Learning Transact-SQL and Query Editor in MS SQL Server 2014

<Follow Part 1 and Part 2 in the instruction of Lab 2 – Database system>

**Task 2:** Practising T-SQL

<Follow Part 3 and Part 4 in the instruction of Lab 2 – Database system>

Using/restoring the ApressFinancial database created in Lab 1,

* Create Transactions, TransactionTypes, CustomerProducts, FinancialProducts, SharePrices, and Shares tables. You need to declare integrity constraints, e.g. primary keys or foreign keys, for these tables.
* Insert data into the tables.
* Add a CK\_CustProds\_AmtCheck constraint on the AmountToCollect column in the CustomerProducts table: AmountToCollect > 0.
* Add a DEFAULT(0) value constraint on the Renewable column in the CustomerProducts table.
* Insert data into the CustomerProducts table.
* Select data from all tables.

Note: If there are some problems with DBMS in your computer, you can:

- Download a miniserver (MySQL 5.0.67 Portable) from [4]. Just run the mysql\_start.bat

file, type ‘mysql --user=root --password=root’ from the prompt, then you can start

a mysql prompt. To stop MSQL, run mysql\_stop.bat.

- Or use <https://www.tutorialspoint.com/execute_sql_online.php>