Assignment 1 - SQL

Choose an application domain and, using a relational DBMS, build a database. This can be done in two ways:

- create the schema and the dataset from scratch, i.e.:
    1. define the relational schema (i.e., write SQL statements to create tables defining attributes, domains, and possibly integrity constaints);
    2. insert tuples into tables (through SQL statements)
    3. formulate a set of SQL queries (about 10) over the relational schema
    4. execute such queries over the database and analyze the results
- use an interesting existing dataset, i.e.:
    1. get interesting data from the Web or other sources (e.g., use the Web to look for a whole database, or data that can be easily imported into a relational DBMS) and build a relational database using such data
    2. formulate a set of SQL queries (about 8-10) over the relational schema
    3. execute such queries over the database and analyze the results

The work can be done by a single student or by a group of two students.

Students can use publicly available DBMSs like MySQL or PostgreSQL (see below), or other, commercial DBMSs.

The complexity of the relational schema and of the queries produced should be comparable to the specification appearing in the following exercise on SQL.

The presentation of the work done wlll consist of a short (10-15 minutes) session in which the student(s) will show the work done by directly interacting with the relational DBMS on her/his own laptop.

Such presentations will be held during the lecture of **March 23, 2016**.

Useful links:

- Link to download the MySQL community server
- Link to download the PostgreSQL DBMS