# 1DV013 – Database Theory

## Practical Assignment 3 (40 p)

Deadline: October 26, 2014

Write a management tool for your movie database. You are free to choose the programming language / framework, as long as it is supported by Unix-like operating systems and does not require a tricky deployment process. Your tool should be able to perform the following tasks:

- Management (inserting/deleting data) of
    - Movies,
    - Genres,
    - People,
    - and relations among those

- Browsing through and searching for movies and people (search should support at least SQL patterns)

- Present a movie or a person:
    - For a movie: length, year, who acted in it, ...
    - For a person: name, what movies did he/she participate in, ...
    - For a genre: what movies of this genre were made in some particular year, ...

The tool should make use of the capabilities of the database system, e.g., it should **not** just load all the data into memory and work locally on the data.

A GUI application is preferred (and will result in a higher grade), but a console-based application is valid as well – it must provide the user with either an interactive text interface, or a command-line options interface for selecting tasks, specifying search terms, etc. A program that runs a series of hard-coded queries is **not sufficient!**

You are allowed to develop a Web application as well, but in this case you must host it and provide access to it; it must also be possible to change the DB host, username and password from the Web interface.

Feel free to add more functionality, the **new ideas** are highly appreciated and more than welcomed.

You are expected to work with the DB described in your PA1 and PA2. If you have decided to make any changes to your design, explain them. You should provide a complete SQL dump of your DB, so that your application can be tested.

**Your submission must include a PDF report, an SQL dump file, source code and executable files. Assignment must be submitted as a single ZIP archive via the Moodle submission system. Email submission attempts will be ignored.**