1DV 013 - Database Theory

Assignment 4 - Management System (DBMS)

The fourth and the last assignment contains only practical part. Deadline is *October 28*. Please note that you may have to correct issues regarding this assignment before the oral exams in week 45-46. **Therefore, you do not have additional 3 days to hand it in.**

For presentation of the practical part, please schedule a meeting with Antonina Khairova in between *October 25* and *October 30*. Please do this until *October 28*, otherwise you will be assigned a time. If possible, you should bring your own laptop for the demonstration. If this is not possible, please notify Antonina about it.

1   Practical Part

Write a management tool for your movie database. Valid programming languages are *Java* and *C#*. Your tool should perform the following tasks:

- Management (inserting/deleting data) of
    - Movies,
    - Genres,
    - People,
    - and relations among those
- Browsing through and searching for movies and people
- 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 (as it is easier to use), but a console based application is valid as well.

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