

## CSE 111 – DATABASE SYSTEMS

### Project – Final Presentation & Demo

The final phase of the project requires the design and implementation of an application layer that retrieves data from the database and displays it to the user. The application has to be interactive. It has to allow the user to select an operation from a menu and provide input arguments whenever required. The database operations have to be parametrized based on the user input. In its simplest form, the menu can be a command-line list with number selections. More complex GUIs in stand-alone or web-based applications are welcome. Nonetheless, the main goal is to “hide” all the database operations behind an interactive interface. The focus is not on the appearance of the interface, but rather on the complexity of the interactions. In a nutshell, you have to implement an interactive version of Lab 7 that is tailored for your project.

The project final presentation and demo will take place during the last lab session of the semester (**Week 15 December 3**). Each team will have 10 minutes to give a short presentation of the project and to show a working demo with the most important features. You should allow some time for questions.

The presentation should contain the following:

- System description (what application did you build)
- Use-case description (what are the most important interactions between the user and the application)
- E/R diagram
- Relational schema
- Implementation details (what database did you use; how did you build the user interface; etc.)

For the demo, try to come up with a usage scenario that shows the most important features of the application. Have sufficient data on which the queries can run and produce interesting results, while the modification operations should be meaningful. Try to organize your presentation in such a way that it fits in the allocated time slot and make it interesting. As a suggestion, the presentation should take 3 minutes, the demo 5 minutes, while the rest is dedicated to questions. Part of the evaluation will be based on the conciseness and time-effectiveness of your presentation.

The following equally-divided criteria will be used to score the final project:

- Complexity of the database
- Usability of the application
- Organization of the presentation
- Relevance of the demo