

## Database Laboratory Homework 3

Nov. 14, 2022

O You **MUST** use the tables used in HW2. If you need to change your tables, you should submit the **revised schema diagram** of your tables.

1. Select **four queries** from the SQL queries in HW2. Any two queries can't belong to the same category(I - VI). All the queries should include one or more **host variables**.

1) show the four queries from HW2 you selected, including the host variables.

2) **write a C (or Python etc) program** which can process the four SQL queries.

You should include as many comments as possible to make it easier to be read.

3) show that your program works.

2. Implement the following.

1) define a **procedure** which contains an aggregate function.

2) define a **function** which returns a value.

3) **write a C (or Python etc) program** which calls/uses both of the procedures/functions defined in 1)-2).

4) show that your program works.

3. **The boundary of the Question 3 is flexible**, and you can do as much work as you like to do. The grade will depend on **the amount and quality of your work**. Among the tasks you intended to do in HW 1, implement **some of (if not all of, or more than) them**.

**For each task** you will implement, provide the following information in the report.

1) describe what you are going to do with the use of web pages. Show the current web pages or you can draw ones yourself.

2) implement a program using host language plus Mysql.

3) show that your program is working correctly. In case you don't use GUI(graphic user interface), make sure you provide a proof that your program is working correctly. For example, suppose the task is about showing a summary report for a given input. Then you should clearly demonstrate that your program correctly displays all necessary information when a certain input is given. There will be extra points for GUI development, though.

O You should upload the following files at e-class by due date: (1) database dump file, (2) program file, (3) report file, (4) output file, etc (every file necessary to test your program)

O Reminder: Your homework grade depends on **your contribution** to the project. **No contribution, no grade.**

Due : Nov 28 (Mon)