Term Project Report 3
(15% of total grade)

O You **MUST** use the tables used in Report 2. If you need to change your tables, you should submit the **revised schema diagram** of your tables.

0. Show the schema diagram of your database tables.

1. (15pts) Select **five queries** from the SQL queries in Question 3 in Report 2. Any two queries can't belong to the same category I-V. All the queries should include one or more **host variables**.
   1) show the five queries from Report 2 you selected, including the host variables.
   2) **write a Python (or other language)** program which can process above five SQL queries. In your python program, include as many comments as possible to make it easier to read.
   3) show that your program works.

2. Implement the following.
   1) (3pts) define a **procedure** that contains an aggregate function.
   2) (3pts) define a **function** that returns a value.
   3) (4pts) **write a Python (or other program)** that calls/uses both of the procedures/functions defined in 1)-2). Show that your program works.

3. (30 pts) It's time to implement the tasks you described in Question 2-3) in Report 1. **The boundary of Question 3 is flexible**, and you can do as much work as you like. The grade will depend on **the amount and quality of your work**. Among the tasks you described in Report 1, implement **some of, if not all of, them (at least 3 tasks).**
(10pts/task * 3=30pts)
(Extra points: for additional tasks, each task collects 5 points (maximum 10 pts))

For each task you will implement, provide the following information in the report:
   1) describe what you are going to do in detail. If possible, show the current web pages or you can draw ones yourself.
   2) implement program(s) using Python (or other language) plus Mysql.
   3) show that your program is working correctly. For example, suppose the task is to show 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.

4. (extra, up to 10pts) There will be extra points for Graphic UI development.
(based on quality of GUI and functionality gives 0-10 pts)

O You should upload all files at Canvas by due date: (1) database **dump** file, (2) program file, (3) report file, (4) output file, etc (every file is needed to test your program)

O Reminder: Your homework grade depends on **your contribution** to the project.