## Lab-02 Weekend Paper

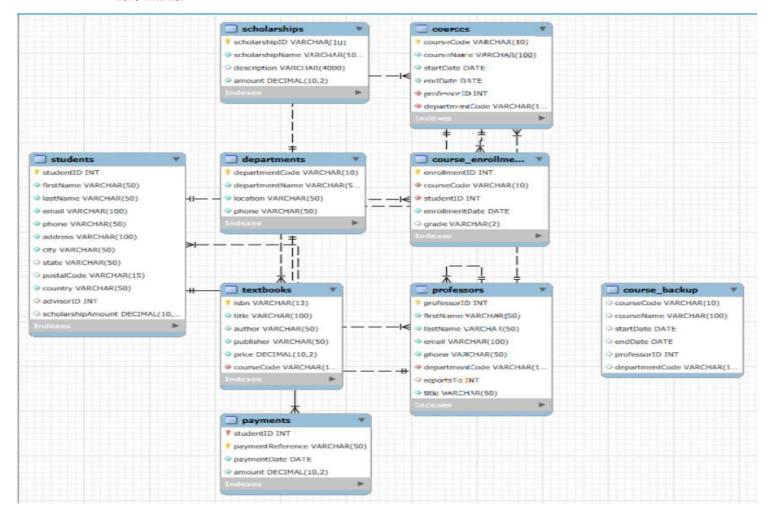
EEI4366 / EEX4366 – Data Modelling and Database Systems Bachelor of Software Engineering Honours / Bachelor of Technology Department of Electrical and Computer Engineering The Open University of Sri Lanka

Academic Year - 2023/24

**Duration: 2 hours – On 6th Oct 9.00 – 11.00 AM** 

**Instructions:** 

- 1. Add the question number along with your registration number and student number as comments at the beginning of each SQL query. **Example:** #Q1 22440559 s00001>
- 2. You need to add screenshots of all the SQL queries to a word file along with the result set (where necessary), convert the word file to a pdf and **upload the pdf** and your **sql script** file to the dropbox.
- 3. Both SQL script file and the pdf file need to be renamed giving your registration number as the file names.
- 4. You need to prepare the word file during the test and additional time for file preparation will not be given. Extra 5 minutes will be provided after the lab test **only to upload your answers.**
- Any cases where plagiarism / copying is identified you will be getting Zero marks. Therefore, DO NOT share your code with anyone. Both the copies of a copied assignment will be given zero marks.



## Use "MySQL Workbench" to perform the following operations.

- You will be provided with a sql script file with the database "University DB".
- Run the SQL statements provided (create database, tables and insert data) to get the database with tables and data stored.
- Open a new SQL tab to execute queries by first running the USE statement.

## Execute the following queries on the given database.

- 1. Create a view named CS\_Professors to display details of all the professors who work in the 'Computer Science' department.
- 2. Create a view named Student\_Info to display the full name (first name and last name combined), email, phone, and the city of all students.
- 3. From the view Student Info, obtain details of all students living in 'New York'.
- 4. Create a view named Course\_Enrollments\_Details that displays the student name, course name, and grade for each enrollment.
- 5. From the view Course\_Enrollments\_Details, obtain the details of students who are enrolled in 'Introduction to Programming'.
- 6. Obtain the number of students enrolled in 'Introduction to Programming'.
- 7. Create a table named Course\_Backup and a trigger insert\_course\_backup to copy course details whenever a new record is added to the courses table. (show create backup & create trigger separately)
- 8. Insert new values into the courses table and observe automatic insertion into Course Backup.
- 9. Create a trigger delete\_course\_backup to delete corresponding rows from Course\_Backup when a course is deleted from the courses table.
- 10. Delete values from the courses table and observe the values getting deleted automatically from Course Backup. (show two queries separately)

<sup>\*</sup>For following the given instructions, clarity of the code and giving comments as instructed will be given 10 marks.