Lab Six

DDL and DML

Learning Outcomes

At the conclusion of the lab, students should be able to

- Create tables in MySQL, including primary key, foreign key and check constraints
- Insert data into the tables.

Exercise

- Use your personal database for this: `use <username>;`
- Create Students and Enrollments tables as per the Lab Notes document
- Create a Courses table
    - Primary key is CourseId an integer which is to be generated
    - Other attributes include: course Number (e.g. CS1103), courseName, courseDescription, and creditHours
    - make sure that credit hours is within the range of 0 to 6 and has a default value of 3
- Use Insert (or Delete) statements to test your constraints.
- Add an approvedDate attribute to the Course table
- Use Insert (or Update) statements to add (or update) data to the table with the extra attribute
- Write and run an SQL statement that for each student lists the information for courses they've taken and their letter grade.

> Note: While CHECK constraints are implemented in MySQL in the current version (8.0), it isn't in our version (5.5). Live in hope and do the tests anyways.

Submission

Before the due date for this this lab, students should submit online to the lms

- The word-processor report as a pdf file, containing
    1. the SQL/DDL necessary to create the 3 tables as well as
    2. a transcript of the exercise activities and evidence of testing results.