CSIS 3280 Lab 06-001: MySQL

- Download the template lab file and extract it
- Create an SQL script satisfying the requirement stated below
- Make sure to follow the naming convention, e.g., Lab06_ABcXXXXX.sql
- Make sure to zip the sql script and submit it through the blackboard.

Requirement

1. Your solution will include the Lab06_ABcXXXXX.sql file that will be run via the command line MySQL utility.
2. You must drop your database if it exists. Your database name should include the naming convention for example $databaseName_ABcXXXXX where $databaseName is your database name.
3. You must create the appropriate SQL file that specifies 3 tables for a web application (that you will make up) your tables must have your naming convention at the end of the table – please see the example in the template (example: Student_ABcXXXXX, Course_ABcXXXXX, Enrollment_ABcXXXXX). YOU CANNOT USE ANY PART OF THE TEMPLATE as your solution.
4. You must use InnoDB as your storage engine in creating the table
5. Your tables must enforce proper referential integrity between each other (they must be related and have the primary and foreign key constraints – What this means is that two of your tables must have at least one foreign key reference).
6. Your script in addition to creating the database and tables must INSERT 5 records into each table
7. You must then demonstrate CRUD operations on your database (see the template file)
    a. CREATE – this will be covered by inserting at least 5 rows per table
    b. An UPDATE Query that updates one of the values in your table in your strong entity.
    c. Read – A SELECT query that references all of your tables and joins by primary and foreign key. This query should verify that your UPDATE query worked
    d. Delete – A DELETE query that that removes one of the records in your strong entity
    e. Strong entities are entities the ones whose existence do not depend on the existence of any other entities. It always have primary key.
8. You may assume that the root user will execute the mysql command with no password and that the mysql command is set in the PATH on the machine executing the code
9. You must also provide a documentation of the proper command to run the mysql file with some figure attached showing that you have tested the sql script by entering each part of the script from creating the database until the last UPDATE and SELECT by entering the command into the MySQL console.

LAB/ASSIGNMENT PRE-SUBMISSION CHECKLIST

- Did you follow the naming convention for your files?!
- Did you follow the naming convention for your folder?!
- Does your submission work on a lab computer?!
- Double check **before** submitting