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CSC – 3300 Databases

Project 3 – Step 2

Documentation

Code/Program Documentation

1. User manual –
   1. So as discussed over Piazza I choose to use my own database connection and then prompt the user for a username/password.
      1. Username Options:
         * g – For grey (Student)
           1. Password: grey123
         * b – For brown (Staff)
           1. Password: brown123
   2. Thus, if you are running this on your computer you will need to go into the java code and modify the connection to MySql.
      1. Line: 56 & Line: 539
         * The code: Connection conn = DriverManager.getConnection( "jdbc:mysql://127.0.0.1/university?user=jpiercefield&password=classwork");
         * I used jpiercefield and my username and classwork as my password, just replace that with your own credentials for MySQL.
   3. If you choose the user Grey, you will be prompted to enter a student ID! Enter whatever student ID you want, but you can only choose 1 per program session.
   4. They rest if pretty self-explanatory.
2. Implemented and not implemented functionality –
   1. I’m almost certain I did more checking than just about anyone on this Project. There were multiple times when I called extra queries from the database to fact check what the user was entering in. This really helps with mitigating malicious attacks and user confusion.
      1. For example, when asking the student to enter a student ID, I queried the list of DISTINCT student ID’s and put them into an arrayList. I compare the user’s entries to that of the arrayList. Therefore, we can stop there and let the user know they entered in the wrong thing before they go on to the next step.
      2. This was just one of the many examples of this throughout my program. I did the same with course\_ID’s, sections, I checked for pre\_req’s.. you name it!
3. Information displayed to the user
   1. All of the Command Line Interface is very intuitive, simple instructions.
4. How to build and run…
   1. I created this program using BlueJ, I’ve even included the package within the zip file if you happen to have it. Just double click on the “package.bluej”. Right click the file “MySQLTest”, click “New MySQLTEST()”, then right click the bottom red box..and hit ‘run main()’. Be sure to see the first step above about changing the connection to your personal MySQL connection.