Database 4 - JDBC Assignment

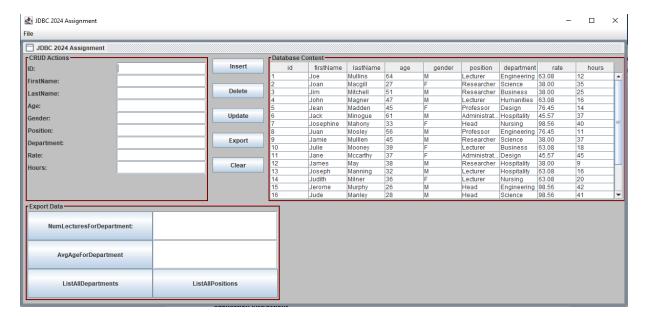
You are required to create a database for a topic/product of your choice and connect to this database from a Java GUI using JDBC.

You should base your work on the **template** given. Your assignment should:

- 1. Create a relational database, you will need to submit the setup script (sql) for your database and tables. You must have a minimum of 2 tables
- 2. Implement: Create, Read, Update and Delete (CRUD) operations through JDBC.
- 3. Using the functionality of the "Export Data" panel on the template GUI provided as a guideline, implement exports that query relevant data and export it in CSV format.
- 4. Use appropriate Stored Programs where necessary and showcase all you have learned in SQL this Semester
- 5. Visualization create charts to present results for relevant queries
 - This can be an exported csv showing charts/visuals created in Excel.
- 6. Write a word document (max 5 pages) with the following:
 - The key concept of your project what can it be used for?
 - What information does it give the user?
 - Snapshot(s) of your java GUI
 - The highlights of your project e.g. a stored program you created etc
 - Conclusion what are the main benefits to an end user of the JDBC application you have created? What did you learn etc?

Notes:

- MainClass.java creates an instance of JDBCMainWindow
- JDBCMainWindowContent.java will contains your code
- JDBCMainWindowContent.java, Line 171 contains the initiate_db_conn()



Submission Instructions

You must submit a zip file via Moodle containing your

- 1. Completed A1 plagiarism form
- 2. Word document, as described in Task 6.
- 3. Java project files
- 4. Database setup script
- 5. Data Visualization
 - e.g. Charts/ Excel files showing your exported data and any charts you have created from that data
- 6. An mp4 video file/screencast of you presenting/demonstrating/explaining your project.
 - At the start of this video, you should show the tables in the database.
 - Then you must show all buttons on your project working/attempted.
 - Show all output to files.
- 7. You must show all extra features you may have added, e.g. stored procedure etc.

You can use e.g. screencastOmatic to create your video.

https://screencast-o-matic.com/screen-recorder.

This video should be a max of 8 minutes