CSCI 265 - Database
Database Final Project
Fall 2022

This final project will be the final exam for the course. You are to find data that is in an area of interest to you, create a relational data base storing this data, and write queries to provide interesting information from the data. Your project must be approved by me (final project deliverable 1). Progress on your project will be checked before Thanksgiving break. You will be sent a git-keeper repository which will be used to submit all deliverables. You should pick your project and send a description to me (deliverable 1) as soon as possible. Deliverable 1 is to be uploaded to this submission link as a pdf file.

There is no grading rubric for this project. Your grade will be determined by the instructor after inspection of your deliverables. You are to provide a write-up in a pdf file containing:

- the purpose of your database
- ER diagram of your database
- schema of your database, including all information as to how the database was normalized (show functional dependencies)
- a list of information questions that the queries you wrote provide answers for
- a discussion of what grade you deserve for the project and why (if you worked with a team then make sure to identify the contributions of each team member)

The instructor's grade will be determined in part by the complexity of the database: how in depth the data is, use of multiple tables, many-to-many relationships, the relevance and complexity of the queries (should be some joins), the interesting nature of your database and the information you derive from it.

Other optional considerations include writing Java or Python code to interact with your database to add data and execute queries as directed by the user. Additional positive grade consideration will include your usage of the Amazon Relational Database System (RDS).

In general, the instructor will consider how much you may have learned from the project, how much you demonstrated what has been covered in class about relational databases, and demonstration of theories and skills not covered in class. In short, how much you demonstrate mastery of course material and how valuable of a learning experience the project was for you.

The main deliverables will be the .sql file containing the dump of your database and a file named solutions.txt containing all mySQL statements you used to create tables, insert data into the tables, issue queries and any other statements you demonstrate such as update and deletion. If your solutions.txt file does not run from the terminal command line (has errors and does not work), your grade will likely be 0 (zero) for the project. All submitted program code must run

without error. It will be better to submit a small amount of working code, rather than a large amount of code that does not work! I will accept some deviation for some deliverables if you are using AWS RDS. In that event you will need to demonstrate portions of your project to me.

I will download and grade all submissions after the scheduled final exam period. If you are assigned a grade lower than what you believe you deserve, you will have time to meet with me to discuss your project.

I will publish a git repository for you to use to submit all deliverables. Do not upload any files to this Canvas page.