

## Submission Instructions

The final version of the project is to be turned in as a single zip file on the course Moodle page.

### Due dates:

1. Final Project 1 Submission: **November 8, 2022 (9:00 AM)**
2. Demo time slots (**Find available time slots for demo TBA**).

### What to turn in: \*use the specified file names and types listed

1. Final ER model (**ER.pdf**)
2. Two SQL files:
  - a) Database creation (such as tables, constraints, procedures, etc.) (**set\_up.sql**)
  - b) Queries for populating the tables with the sample data (**populating.sql**)
3. Discussion (**discussion.pdf**)
  - a) A 1-2 page discussion of your application design, with particular emphasis on how constraints are captured/implemented and whether your design is 3NF, BCNF. You should highlight which constraints you were not able to capture in the ER model and how you eventually captured them in your SQL design using SQL features like CHECK constraints or whichever features.
  - b) You can use a table format to show a mapping between constraint and implementation feature. For example, you can say, constraint1, constraint2, ... FD1, ... were implemented as CHECK constraints; constraint4, constraint5 FD2 were implemented as foreign key, ... etc (this is just a suggested way to present the information).
  - c) Your discussion should also note which advanced SQL features like Procedures, Triggers etc., you used (if any). Also note if there were constraints that needed to be implemented outside the dbms i.e. in the application code (excluding user interface functionality).
4. Executable file with source Java Code (**execution.JAR**)
5. **README.txt** file that contains the names, unity IDs (NOT STUDENT ID NUMBER) of the team members and explains with any additional instructions on how to compile and execute your code.
6. Everything should be in a single zip file called **project1.zip** so that when we unzip it, we can read the README file, follow the directions, and run your project.
7. Peer review of each member of your team that should include your own evaluation of all members (score out of 100). **A separate link for submission will be provided on Moodle.**

**Overall Grading:**

Prelim Report <b>20</b>	Final Report <b>40</b>	DEMO <b>40</b>	Peer Review Weight Factor Per Total Score Range
Partial ER <b>(8)</b>  Constraints: <ul style="list-style-type: none"><li>- Table and</li><li>- SQL <b>(10)</b></li><li>- FDs <b>(2)</b></li></ul>	Discussion <b>(10)*</b>  Extended E-R Model <b>(8)</b>  Extended FD list <b>(4)</b>  Final Constraint Model - SQL <b>(18)</b>	Application Flow  Role Validation  Demo SQL Queries	70 - 84% $\Rightarrow$ .9 of score  > 84% $\Rightarrow$ 1 of score  < 70% $\Rightarrow$ .7 of score

**\*Footnotes**

- Discussion - explanation of extensions to preliminary report submission (what new entities, relationships constraints captured). Justification of design (BCNF or 3NF).