CSC 455 Group Project Initial Information

Project Proposal due 9/16:

Submit a summary of your project group's business or organization or need. Include a written description, data requirements, operations, and business rules. What does the database need to do for its users?

- If you start thinking of the **conceptual** model for the project, the next step, you should have at least 4 distinct entities.
- This will become the basis for the Project Summary requirement in the final submission.
- One group member may submit for the entire group, but be sure all group member names are given. This will count as a homework grade.

Conceptual ERD due 9/25

- Conceptual E-R diagram (not hand-drawn), correctly showing all attributes, relationships, cardinalities and participation constraints.
- One group member may submit for the entire group, but be sure all group member names are given. This will count as a homework grade.

Logical ERD/Schema due 10/5

- Logical E-R diagram/schema showing primary keys, foreign keys mapped to their sources, all stored attributes, and any constraints that might be added to the diagram or noted otherwise.
- One group member may submit for the entire group, but be sure all group member names are given. This will count as a homework grade.

The final project requirements are below. A grading rubric will be provided later.

1. Written overview or summary of the project: its purpose, its functionality, any sort of user documentation, description of known problems, etc. This should be "deliverable" to a client (i.e. professional tone and writing.)
2. Final Conceptual E-R diagram (modified if necessary), correctly showing all attributes, cardinalities and participation constraints.
3. Logical E-R diagram, Table design, Relationships, & Data:
   a. The schema is correctly mapped from the Final Conceptual E-R diagram
   b. Primary and foreign keys are appropriately identified and assigned
   c. Attributes are an appropriate type and size
   d. The initial DDL includes the correct SQL syntax to create tables, and the initial insertion of data for each table is a separate transaction.
4. Supporting Queries and Functionality:
   a. At least 10 SQL queries are demonstrated that **implement the functionality** described in #1. These must include:
      i. SELECT queries demonstrating: two-table join, three-table join, self-join, an aggregate function, an aggregate function using GROUP BY and HAVING, a text-based-search query using LIKE with wildcard(s), a subquery.
      ii. One stored function, one stored procedure, and one trigger: implemented and demonstrated through an appropriate query.
      iii. Make sure that these queries also demonstrate the intended functionality of the project

5. A simple, web-based front-end providing links to the appropriate queries. (An example will be provided in class.)
6. Group evaluation: completed confidentially and individually at the final exam.

The project will be scored as follows:

DELIVERABLE	WEIGHT	DUE
1. Project Summary	5%	9/16
2. Conceptual E-R diagram	15%	9/25
3. Logical E-R diagram/Schema,	35%	10/5
Table design, Relationships, & Data		12/2
4. Supporting Queries and Front-end Functionality	35%	12/2
5. Group evaluation	10%	12/2