

SAMPLE Gen Ed *Signature Assignment*

Data Base Design Project.

This project is to be done in teams. The project will be submitted in several phases over the duration of the semester. Each member of the team should contribute to the project in every phase. The final phase of the project is a project presentation.

As a team you should

- analyze the input business rule;
- develop an Entity-Relationship diagram (ERD) that models these rules on a conceptual level;
- develop a set of relations that corresponds to the created ERD;
- create and populate tables corresponding to your relations;
- run SQL queries on your tables.

Project presentation:

- Duration 3 – 4 minutes presentation.
- What should be covered:
 1. Whenever you had to make a decision regarding the business rules, what decisions you made and why? (e.g., regarding cardinalities, regarding the use of entity subtype / supertype, regarding the use of weak entities, etc.)
 2. What aspects of the business rules you could not describe in the conceptual level data base mode (ERD)? Could you describe these aspects on the logical level model?
 3. 2 – 3 sample SQL queries that show how your database works.

Grading: the final presentation is 20% of the project grade.

GenEd rubrics:

Knowledge:

- Engage in an in-depth, focused, and sustained program of study;
- Pursue disciplined, Inquiry-based learning in the major.

Skills:

- Communicate in diverse settings and groups;
- Employ scientific reasoning and logical thinking;
- Use creativity to solve problems.

Integration:

- Understand and navigate systems;
- Resolve difficult issues creatively by employing multiple systems and tools.

Values, Ethics, and Relationships:

- Demonstrate Intellectual honesty and personal responsibility;
- Work with teams, including those of diverse composition. Build consensus.