

CS 2005: DATABASE SYSTEMS

Project Requirement Description

To be submitted on google classroom

ER on _____

Full Project on _____

Total weightage: 10

1) DESIGN PHASE :

❖ **Proposal:**

- Introduction and brief description.
- What functions should the system perform? That is, inventory control, billing, ordering, etc.
- Front-End and Back-End Technologies

❖ **Normalization**

- Apply the Normalization Process on the identified entity types.
- Show all the functional dependencies and perform normalization up to BCNF
- Show every step performed.

❖ **Entity Relationship Design:**

- Describe your entities. You must have enough entities to ensure your project is not a "toy" system.
 - GENERAL RULE: you should have about 5 entities and 7 or 8 tables.
- Draw the E-R Diagram for your database.

2) IMPLEMENTATION PHASE:

- ❖ Implement your tables in technology mentioned in the proposal. You must have tables and views properly defined. You must implement at least one query for each user. Your set of queries must also include queries that represent
 - Joins
 - Usage of advanced SQL features (i.e., All concepts we covered in Lab)
 - Built-in functions
 - Input from the user
- ❖ You must also have
 - Insert option
 - update option
 - delete option
 - Transaction Handling
- ❖ You must have at least one program/subprogram for each user you define.

3) SUBMISSION PHASE:

- ❖ Submit the compressed file that contains the following content:
 - Your project
 - completed report (word file)
 - And the documents containing screenshots of your ER diagram (prepared on software)

- ❖ Submit your work till the deadline that will be communicated later. Late submissions will result in 1 mark deduction per day late.
- ❖ Plagiarized content will be marked zero.
- ❖ ONLY group leader will submit the project. Do clearly mention the names & IDs of all the members.