

GHULAM ISHAQ KHAN INSTITUTE OF ENGINEERING SCIENCES AND TECHNOLOGY CS232 – Database Management Systems (Spring 2024)

Weightage: 10%

Semester Project Submission Date: 26th-April-2024

Submission:

Submit your project code and report on MS Teams. While bring your project report during your viva time-slot.

Designing and Implementing a Database Management System

Overview:

Database Management Systems provides students with hands-on experience in designing and implementing a database management system tailored to address a specific business need or scenario. The goal is to apply theoretical knowledge to practical scenarios, enhancing skills in database design, development, and management.

Project Milestones:

Project Milestones are listed below:

Business Scenario Analysis: Identify a business need or scenario where a database management system can provide significant value.

Entity Relationship Diagram (ERD) Design: Design an ERD that accurately represents the entities, relationships, and attributes relevant to the business scenario.

Relational Database Schema: Convert the ERD into logical relational database schemas in 3NF or higher by going through the normalization process.

Data Population: Populate the database with sample data representative of the business scenario.

Querying and Reporting: Implement a set of queries and reports relevant to the business scenario.



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User Interface: If developing a user interface, present a prototype demonstrating basic functionality for data input, retrieval, and manipulation.

Documentation and Final Submission: Compile comprehensive documentation covering the database design, normalization process, queries, and any additional information. Submit the final project deliverables.

Should you have any questions or require clarification regarding the project assignment, please contact the instructor.