

Database Management Systems (22CS510) Events Guidelines

Select a Real World Scenario, Design and Implement the Database (Event 1 :Phase 1Demo)

- Oracle/MySQL/MangoDb on Windows/LINUX
- 6 Tables minimum (with PK, FK)
- Minimum 5 attributes in each table
- Simple queries - 5
- Nested queries - 5
- SET operation - each 1(2)
- Group by - 2
- Having -2
- Like, between (pattern matching) (3)

Implement the Following Advanced Features into Data base Scenario (Event 1: Phase 2 Demo)

- Correlated queries - 1
- Views 2
- Exists, not exist - each 1(2)
- Aggregate function (4)
- Trigger -2
- Stored procedure – 2
- Suitable **front end** for querying and displaying the results with minimum 5 forms (Main, Data entry, retrieval, update)
- 2 Report generation

Event 1: Phase 1 Document Submission

Submit one hard copy of the **report** containing the following sections:

Outer title sheet (Blue)

Certificate

Contents

1. Introduction

1.1 Objective of the project

1.2 Features of the project

2. System design

2.1 ER Diagram-high level data modeling

2.2 Schema Diagram -conceptual data modeling

2.3 State Diagram

3. System Implementation

4.1 Introduction to SQL/MySQL/MangoDb/DBMS

4.2 Relational algebraic queries

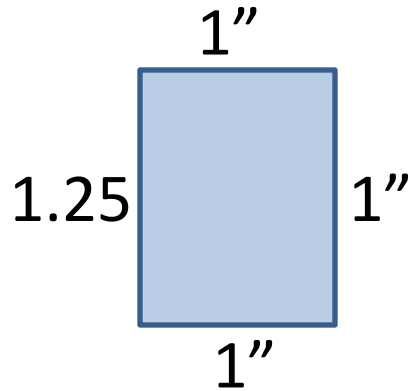
4.3 Queries designed using SQL commands

4. System testing and results

5. Conclusion

6. References

Report Formatting Guidelines



Font style: Times new roman

Left and right justification

1.5 line spacing

Font size: Main headings-16

Sub headings-14

Text-12

Use Latex

Plan of Execution

Team Formation & Submission of Topic	Google Form (Sl.No, USN, Student Name, Title): 19th Nov 2024
Feasibility Study	30th Nov 2024
Event 1: Phase 1 demo	After CIE I (2nd Week of December 2024)
Event 1: Phase 2 demo	After CIE II (1st Week of Jan 2025)