Database Management Systems (20CS510) Events Guidelines

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

- **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)

Event 1 Document Submission

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

Outer title sheet

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

Implement the Following Advanced Features into Data base Scenario (Event 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

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

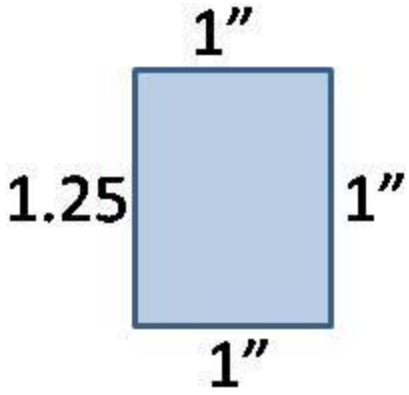
Outer title sheet (Blue)
Certificate
Contents
1. Correlated Queries
- 1.1 Introduction
- 1.2 Implementation and Results

2. Views
- 2.1 Introduction
- 2.2 Implementation and Results

-
-
-
-

8. Conclusion
9. 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): 30th Sept 2023**
Feasibility Study	**30th Sept 2023**
Event 1:	**After CIE I (2nd Week of October 2023)**
Event 2:	**After CIE II (2nd Week of November 2023)**