

Database Systems (CS510) 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 Schema Diagram -conceptual data modeling

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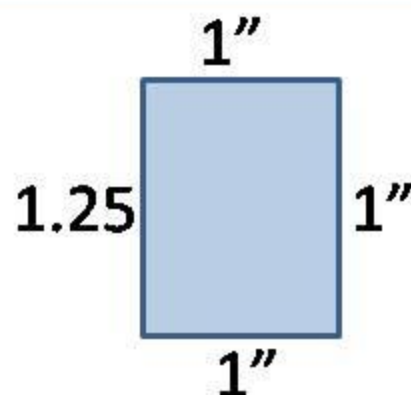
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8. Conclusion

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): 10th Nov 2022
Feasibility Study	20th Nov 2022
Event 1:	After CIE I (1st Week of December 2022)
Event 2:	After CIE II (1st Week of December 2022)