**Department of Computer Science and Engineering**

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| **Course Code:CSE370** | **Credits: 1.5** |
| **Course Name: Database Systems** | **Semester: Spring’19** |

**Lab 12  
Final Project Demonstration**

1. **Topic Overview:**

In this final lab, Students will demonstrate their group database projects. They will also have to submit a project report which is discussed in details below.

1. **Lesson Fit:**

Students should have an understanding of the following:

1. Project Presentation
2. Report Writing
3. **Learning Outcome:**

After this lecture, the students will be able to:

* 1. Design a complete database system
  2. Apply their design to implement a database application
  3. Work in Teams

1. **Acceptance and Evaluation**

Students will showcase their project to the lab instructors. The lab instructors will ask questions to individual students based on their self-reported contribution. The instructor will grade the whole group out of 15, and individual member out of 5 depending on Q/A. The marks distribution is given below:

|  |  |
| --- | --- |
| **Project Evaluation Scheme:** | **Marks** |
| ER/EER Diagram | 2 |
| Database Schema | 2 |
| SQL Features | 8 |
| User Interface & Project-related Features | 3 |
| Individual Contribution | 5 |

1. **Activity Detail:** Students will demonstrate their completed projects one group at a time.

**Lab 12 Activity List**

**Task 1**

Prepare project report. The report should contain the following:

1. Cover page.
   1. Project Title
   2. Group Number
   3. Name and ID of all members
   4. Lab section
   5. Name of both Lab Instructors
2. ER/EER Diagram. The diagram should be completed using a diagram software such as workbench, draw.io etc.
3. Relational Database Schema. This should match the ER/EER diagram and the database created for the project. Also, should be completed using a drawing software.
4. Contribution Summary: A summary of individual members’ contribution in the project. The Q/A will depend on the self-reported contribution summary.

**Task 2**

Students will demonstrate their completed project. The project is a database application, where a user can manipulate and store data using a user-friendly interface. There are 8 marks for implementing the following SQL features:

|  |  |
| --- | --- |
| **SQL/Database Features Breakdown:** | **Marks** |
| Connection Establishment | 1 |
| Insert | 1 |
| Delete | 1 |
| Update | 1 |
| Use (primary key, foreign key) Relationships with Joins/Subqueries | 2 |
| Select statements (Search/retrieve data) | 2 |

Apart from these SQL features, the group must ensure that they have implemented the basic feature requirements for their application or website. Consider a simple example, if the project is an attendance management system, Students should be able to enroll and teachers should be able to give attendance to students on each day. Also, teachers should be able to view a summary/report of student attendance for each class.

The total Project Marking Scheme is provided in the “Acceptance and Evaluation” Section.