

LAB REPORT

CSE312: Database Management System Lab

Submitted To

Teacher Name (Initial)

Designation

Department of CSE, Daffodil International University

Submitted By

Student ID: 221-15-XXXX

Section: 61 N

Student Name: XYZ

**Table: CSE312 Course Outcomes (COs) with Mappings**

| **COs** | **CO Statements** | **POs** | **Learning**  **Domains** | **Knowledge**  **Profile** | **Complex**  **Engineering**  **Problem** | **Complex Engineering**  **Activities** |
| --- | --- | --- | --- | --- | --- | --- |
| CO1 | Demonstrate a comprehensive understanding of fundamental database management concepts, including the relational data model, normalization techniques, and SQL basics. | PO1 | C2  A2  P2 | K2  K3  K4  K8 | EP1  EP4 |  |
| CO2 | Design, implement and optimize relational databases, incorporating advanced SQL queries, indexing techniques and query optimization strategies. | PO3 | C3  A3  P3 | K2  K3  K4  K6  K8 | EP1  EP2  EP7 | EA3 |
| CO3 | Understand and Analyze security measures, distributed database architectures and emerging trends in database management, demonstrating an understanding of the broader context and challenges in the field. | PO5 | C4  A4  P3 | K6 | EP4 |  |

**Table: Lab Wise Activity List**

| **Lab Class No.** | **Proposed Activity** | **CO** |
| --- | --- | --- |
| Lab 1,2 | Lab Setup and DDL (Create, Alter, Drop, Truncate) | CO1 |
| Lab 3,4,5 | DML (Select, Insert, Update, Delete Operation) and Keys | CO2 |
| Lab 6,7 | Sub Query, Aggregate Function, Joining. Wildcards e.t.c | CO2 |
| Lab 8,9 | Union, Trigger, View, Stored Procedure e.t.c | CO2 |
| Lab 10 | DCL (Grant, Revoke) and TCL (Commit, Savepoint and Rollback) | CO2 |
| Lab 11 | Complete Database Design and Analysis with few important Complex Query. | CO3 |

LAB REPORT

| 01 [Report Number] |
| --- |

Topic: DDL (Create, Alter, Drop)

**CO Mapping:**

Date of Assignment Distribution : 31 January 2049

Date of Assignment Submission: 13rd February 2049

| Experiment No: 01 | | Experiment Name: |
| --- | --- | --- |

Experiment Details:

Obtained Output:

|  | Desired Output? |
| --- | --- |
| YES/NO |

Alternative Steps/Solution (If any):

Observation/ Comments:

| Experiment No: 02 | | Experiment Name |
| --- | --- | --- |

Experiment Details::

Obtained Output:

|  | Desired Output? |
| --- | --- |
| YES/NO |

Alternative Steps/Solution (If any):

Observation/ Comments:

**After all report**

**Appendix**

**Appendix A**: Course Outcomes, Complex Engineering Problems (EP) and Complex Engineering Activities (EA) Addressing.

**Table 1: Addressing CO with Justification**

| **SN** | **COs** | **Attainment** | **Justification** |
| --- | --- | --- | --- |
| 01 | CO1 | Yes | These lab activities attain CO1 by practicing database creation and a couple of tables having at least 4-7 parameters and an interconnectedness between tables using primary key and foreign keys. [Adjust this section as necessary] |
| 02 | CO2 | Yes | These lab activities involve working with CO2 by experimenting with various SQL operators such as create, alter, drop, insert, and select across at least 2-4 tables. Multiple alternative queries are practiced to explore optimization techniques, with a focus on execution time as displayed by the MySQL DBMS. [Adjust this section as necessary] |
| 03 | CO3 | Yes | [Adjust this section ] |

**Table: Addressing CO (1 to 3), Knowledge Profile (K), Attainment of Complex Engineering**

**Problems (EP):**

**[Must attain EP1 and (from EP2-EP7 at lease another one)]**

| **SN** | **Engineering Problem (EP) Definition** | **Attain**  **Ment** | **CO** | **Justification**  **(with Knowledge Profile)** | **References**  **(Page Number)** |
| --- | --- | --- | --- | --- | --- |
| 01 | EP1: Depth  of  Knowledge  required | Yes | CO1, CO2 |  |  |
| 02 | EP2: Range  of  Conflicting  Requirement  s | Yes/No | CO2 |  |  |
| 03 | EP4:  Familiarity  of Issues | Yes/No | CO1, CO3 |  |  |
| 04 | EP7:  Interdependence | Yes/No | CO2 |  |  |