List of Experiments

T.E. (Comp.) Sem V

Subject: Database & Information System Lab (FOR DBMS subject)
Subject Incharge : Dr. Arti Deshpande   Date : 7/8/2020

Lab Code: CSL503

Title of Experiments

1.   Identify the case study and detail statement of problem.

Design an Entity-Relationship (ER) / Extended Entity-Relationship (EER) Model.

Tip : Use Online tool : https://www.diagrameditor.com/

2.   Mapping ER/EER to Relational schema model.

Tip : Draw Database Diagram (any tool or handwritten) using mapping rules

3.   Create database using Data Definition Language (DDL) and appropriate Integrity Constraints for your the specified System.

(Create and Desc table commands, Modify table if needed)

Tip : use https://livesql.oracle.com/apex/f?p=590:1000

refer this youtube link to understand how to use
https://www.youtube.com/watch?v=4oxsxJQQC-s

4.   Populate database using DML Commands for the specified system.

(Insert commands)

5.   Perform Simple queries, string manipulation operations.

6.   Nested queries and Complex queries

7.   Perform Join operations

(All types of joins)

8   Views and Triggers

9   Functions, cursor and procedure.

10   Transaction Control Language (TCL)

      (Commit, Rollback and Savepoints)

11   Mini project- Creating a Two-tier client-server database applications using JDBC

Written Assignments:

Assignment 1:

1) Explain conflict serializability and view serializability in detail with examples.
2) Explain lock-based and timestamp based concurrency protocols in detail.

Assignment 2:

1) Explain 1NF, 2NF, 3NF, BCNF and 4NF with appropriate examples.

Subject-Incharge

Dr. Arti Deshpande