THADOMAL SHAHANI ENGINEERING COLLEGE

List of Experiments
S.E. (Computer) Sem IV

Subject: Database Management System Lab

Subject Incharge : Shilpa Ingoley **Date : 12/01/2023**

Lab Code: CSL402

Title of Experiments

Expt No.	Experiment	
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/	LO1
2	Mapping ER/EER to Relational schema model. Tip : Draw Database Diagram (any tool or handwritten) using mapping rules	LO1
3	Create database using Data Definition Language (DDL) and apply appropriateIntegrity Constraints for your specified System. (Create and Desc table commands, Modify table if needed)	LO2
4	Populate database using DML Commands for the specified system.	LO2
5	Perform Simple queries, string manipulation operations and aggregatefunctions	LO3
6	Nested queries and Complex queries	LO3
7	Perform Join operations (All types of joins)	LO3
8	Implementation of Views and Triggers	LO4
9	Implementation of Procedure and Functions	LO4
10	Perform DCL and TCL Commands (DCL- Grant, Revoke Commands TCL- Commit, Rollback and Savepoints commands)	LO2
11	Demonstrate Database connectivity	LO5
	Written Assignments	
1	**Assignment 1:** 1) Explain advantages of DBMS over file systems. 2) Explain database architecture in detail with appropriate diagram. 3) Explain role of a Database Administrator	LO5
2	**Assignment 2:** 1) Explain conflict serializability and view serializability in detail with examples.	LO2

	2) Explain lock-based and timestamp based concurrency protocols in detail **3)** Explain 1NF, 2NF, 3NF, BCNF, 4NF and 5NF with appropriate examples	

Subject-Incharge

Shilpa Ingoley