Lab Code	Lab Name	Credit
CSL402	Database Management system Lab	1

Prerequisite: Discrete Structures		
Lab Objectives:		
1	To explore design and develop of relational model	
2	To present SQL and procedural interfaces to SQL comprehensively	
3	To introduce the concepts of transactions and transaction processing	
Lab Outcomes: At the end of the course, the students will be able to		
-	Design ER /EER diagram and convert to relational model for the realworld application.	
-	Apply DDL, DML, DCL and TCL commands	
3	Write simple and complex queries	
4	UsePL / SQL Constructs.	
5	Demonstrate the concept of concurrent transactions execution and frontend-backend connectivity	

Sugge	Suggested List of Experiments			
Sr. No.	Title of Experiment			
1	Identify the case study and detail statement of problem. Design an Entity-Relationship (ER) / Extended Entity-Relationship (EER) Model.			
2	Mapping ER/EER to Relational schema model.			
3	Create a database using Data Definition Language (DDL) and apply integrity constraints for the specified System			
4	Apply DML Commands for the specified system			
5	Perform Simple queries, string manipulation operations and aggregate functions.			
6	Implement various Join operations.			
7	Perform Nested and Complex queries			
8	Perform DCL and TCL commands			
9	Implement procedure and functions			
10	Implementation of Views and Triggers.			
11	Demonstrate Database connectivity			
12	Implementation and demonstration of Transaction and Concurrency control techniques using locks.			

Term Work:				
1	Term work should consist of 10 experiments.			
2	Journal must include at least 2 assignments on content of theory and practical of "Database			
	Management System"			
3	The final certification and acceptance of term work ensures that satisfactory performance of			
	laboratory work and minimum passing marks in term work.			
4	Total 25 Marks (Experiments: 15-marks, Attendance Theory& Practical: 05-marks,			
	Assignments: 05-marks)			
0	Oral & Practical exam			