

PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY (Autonomous)
KANURU, VIJAYAWADA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DATABASE MANAGEMENT SYSTEMS LAB

(Minor in CSE)

Course Code	23CS5551	Year	III	Semester	I
Course Category	Minor in CSE	Branch	CSE	Course Type	Practical
Credits	1.5	L – T – P	0-0-3	Prerequisites	Basic Mathematics and Programming skills
Continuous Evaluation:	30	Semester End Evaluation:	70	Total Marks:	100

Course Outcomes		
Upon successful completion of the course, the student will be able to:		
CO1	Apply database management techniques to solve problems	L3
CO2	Conduct experiments by using modern tools like MYSQL, Oracle	L3
CO3	Develop an effective report based on various constructs implemented	L3
CO4	Apply technical knowledge for a given problem and express with an effective oral communication	L3
CO5	Analyze outputs of queries for a given problem	L4

SYLLABUS		
EXP No.	Contents	Mapped CO
1.	Introduction to MySQL Workbench. How to use MySQL Workbench to run SQL Statements.	CO1,CO2,CO3,CO4,CO5
2.	Examples on i) DDL Commands: CREATE , ALTER, DROP and TRUNCATE a Table ii) DML Commands. INSERT, UPDATE and DELETE	CO1,CO2,CO3,CO4,CO5
3.	Examples on i) DCL Commands: COMMIT , ROLLBACK and SAVEPOINT ii) Implementation of Constraints PRIMARY KEY, FOREIGN KEY, CHECK, NOT NULL, UNIQUE.	CO1,CO2,CO3,CO4,CO5
4.	Examples on retrieving data from a single table using i) SELECT statement ii) SELECT statement with where clause(Comparison Operators, AND, OR, NOT, IN, BETWEEN, LIKE) iii) ORDER BY clause(sort by column name) iv) LIMIT clause	CO1,CO2,CO3,CO4,CO5
5.	Examples on Query the sample database using built-in single row functions	CO1,CO2,CO3,CO4,CO5
6.	Examples on Summary Queries: Queries using Aggregate functions, GROUP By and Having Clauses	CO1,CO2,CO3,CO4,CO5
7.	Examples on Inner join, outer join using USING, NATURAL Keywords	CO1,CO2,CO3,CO4,CO5
8.	Examples on SUB/SUMMARY Queries Using IN, ANY, SOME, ALL , EXISTS and NOT EXISTS functions	CO1,CO2,CO3,CO4,CO5
9.	Examples on CREATE, INSERT, DELETE and DROP on VIEWS	CO1,CO2,CO3,CO4,CO5
10.	Case Study Using Real world Database Applications	CO1,CO2,CO3,CO4,CO5

Learning Resources
Text Books
1. Murach's MySQL by JOEL MURACH, Shroff Publishers & Distributors Pvt.Ltd, June 2012.
Reference Books
1. The Complete Reference MySQL, Vikram Vaswani, 2017, McGrawHill Education. 2. Fundamentals of Database Systems, Ramez Elmasri, Shamkant B. Navathe, Seventh edition, Pearson