

Database Management Systems Lab

Course Code	20CS3551	Year	III	Semester	I
Course Category	PCC	Branch	CSE	Course Type	Practical
Credits	1.5	L-T-P	0-0-3	Prerequisites	Problem Solving and Programming Lab
Continuous Internal Evaluation :	15	Semester End Evaluation:	35	Total Marks:	50

Course Outcomes

Upon successful completion of the course, the student will be able to

CO1	Apply database management techniques to solve problems	L3
CO2	Implement 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 it with effective oral communication.	L3
CO5	Analyze outputs of queries for a given problem	L4

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1													√	
CO2					√				√					
CO3										√				
CO4	√									√				
CO5			√											

Syllabus		
Expt. 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) Implementation of Constraints PRIMARY KEY, FOREIGN KEY,CHECK,NOT NULL,UNIQUE.	CO1,CO2,CO3,CO4,CO5
3	Examples on i) DML Commands. INSERT, UPDATE and DELETE ii) DCL Commands: COMMIT , ROLLBACK and SAVEPOINT.	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 of Functions in MySQL: String, Numeric, Date, Time and Other Functions.	CO1,CO2,CO3,CO4,CO5
6	Examples on Summary Queries: Queries using Aggregate functions, GROUP By and Having Clauses, ROLLUP Operator.	CO1,CO2,CO3,CO4,CO5
7	Examples on Inner join, outer join using USING and 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 i) Creating INDEXES and VIEWS ii) INSERT,DELETE and DROP on VIEWS	CO1,CO2,CO3,CO4,CO5
10	Examples on i) Create and Call STORED PROCEDURE (IN, OUT, INOUT Parameters), Drop a STORED PROCEDURE. ii) Create, call and Drop a FUNCTION. iii) Create and Drop a TRIGGER	CO1,CO2,CO3,CO4,CO5
11	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.

References

1. The Complete Reference MYSQL, Vikram Vaswani, 2017, McGrawHill Education.
2. Fundamentals of Database Systems, Ramez Elmasri, Shamkant B. Navathe, Seventh edition, Pearson.