

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA

**(AUTONOMOUS)
INFORMATION TECHNOLOGY**

DATABASE MANAGEMENT STSYEMS LAB

Course Code	20IT3451	Year	II	Semester	II
Course Category	PC Lab	Branch	IT	Course Type	Lab
Credits	1.5	L-T-P	0-0-3	Prerequisites	-
Continuous Internal Evaluation	15	Semester End Evaluation	35	Total Marks	50

Course Outcomes		
Upon Successful completion of course, the student will be able to		
CO1	Apply various SQL constructs for data definition, data manipulation and querying	L3
CO2	Implement experiments by using modern tools like MYSQL, Oracle	L2
CO3	Develop an effective report based on various constructs implemented.	L2
CO4	Apply technical knowledge for a given problem and express with an effective oral communication.	L3
CO5	Analyze solutions using database concepts for various applications	L4

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (H:High, M: Medium, L:Low)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2											2		
CO2					3				3				3	
CO3										3				
CO4	1									1			1	
CO5		3											3	3

Exercise No	Course Content	Mapped CO
1	Introduction to MySQL Workbench. How to use MySQL Workbench to run SQL Statements.	CO1-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-CO5
3	Examples on i) DML Commands. INSERT, UPDATE and DELETE ii) DCL Commands: COMMIT , ROLLBACK and SAVEPOINT.	CO1-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-CO5
5	Examples on Functions in MySQL: String, Numeric, Date, Time and Other Functions.	CO1-CO5
6	Examples on Summary Queries: Queries using Aggregate functions, GROUP By and Having Clauses, ROLLUP Operator.	CO1-CO5
7	Examples on Inner join, outer join using USING, NATURAL Keywords	CO1-CO5
8	Examples on SUB/SUMMARY Queries Using IN, ANY, SOME, ALL , EXISTS and NOT EXISTS functions	CO1-CO5
9	Examples on i) Creating INDEXES and VIEWS ii) INSERT, DELETE and DROP on VIEWS	CO1-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-CO5
11	Case Study using real world database applications	CO1-CO5

Learning Resources
Text Books
Murac's <i>MySQL</i> by Joel Murach, Shroff Publishers & Distributors Pvt.Ltd, June 2012.