



<b>Exercise No</b>	<b>Course Content</b>	<b>Mapped CO</b>
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 *MySQL* by Joel Murach, Shroff Publishers & Distributors Pvt.Ltd, June 2012.