

**DATABASE MANAGEMENT SYSTEM (25CY305)****UNIT-II**

| S. No                                  | Questions                                                                                                          | BT | CO  | PO  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|----|-----|-----|
| <b>Part –A(Short Answer Questions)</b> |                                                                                                                    |    |     |     |
| 1                                      | List and explain the different types of SQL commands with examples.?                                               | L1 | CO2 | PO1 |
| 2                                      | Write the general form of a basic SQL query and explain its clauses.?                                              | L2 | CO2 | PO1 |
| 3                                      | Differentiate between comparison operators and logical operators in SQL.?                                          | L3 | CO2 | PO1 |
| 4                                      | What are aggregate functions in SQL? Name any four aggregate functions?                                            | L1 | CO2 | PO1 |
| 5                                      | Define Null Values.                                                                                                | L1 | CO2 | PO5 |
| 6                                      | Explain the purpose of set operators in SQL. Name any three set operators?                                         | L2 | CO2 | PO2 |
| 7                                      | What is a nested query? Give an example?                                                                           | L2 | CO2 | PO1 |
| 8                                      | Define primary key and foreign key with suitable examples?                                                         | L1 | CO2 | PO1 |
| 9                                      | What is the difference between primary key and unique key?                                                         | L1 | CO2 | PO4 |
| 10                                     | Explain super key                                                                                                  | L2 | CO2 | PO2 |
| <b>Part– B(Long Answer Questions)</b>  |                                                                                                                    |    |     |     |
| 11                                     | a) Explain the various types of SQL commands (DDL, DML, DCL, TCL, and DQL) with suitable examples?                 | L2 | CO2 | PO5 |
|                                        | b) Construct SQL queries using different SQL operators and aggregate functions for a student database.?            | L3 | CO2 | PO3 |
| 12                                     | a) Explain nested queries in SQL and demonstrate different types of subqueries with examples?                      | L2 | CO2 | PO1 |
|                                        | b) Discuss various integrity constraints in relational databases and explain how they ensure data consistency.?    | L2 | CO2 | PO3 |
| 13                                     | a) Explain the concept of views in SQL. Create and demonstrate the use of views with suitable examples?            | L3 | CO2 | PO2 |
|                                        | b) What is the usage of 'group by' and 'having' clauses in SQL?                                                    | L1 | CO2 | PO1 |
| 14                                     | a) Design and implement database triggers for maintaining data integrity and explain the role of active databases? | L6 | CO2 | PO2 |
|                                        | b) Explain about domain relational calculus with example?                                                          | L4 | CO2 | PO5 |
| 15                                     | a) Describe the structure of a PL/SQL block and develop a PL/SQL program using cursors?                            | L3 | CO2 | PO2 |
|                                        | b) With a suitable Example Explain Intersection, Join, Division and Assignment operations in relational algebra?   | L3 | CO2 | PO1 |