

## Database Management System Question Bank

### UNIT - I

1. Explain Database, DBMS, and Metadata.
2. Explain different types of Databases.
3. What are the advantages of DBMS?
4. Explain DB System environment.
5. List the limitations/disadvantages of DBMS.
6. What are the problems with File system data management?
7. List and explain the functions and capabilities of DBMS.
8. Explain in detail the components of DB system environment.

### UNIT - II

1. Describe about Data Models and explain E-R model.
2. Define Instance and Domain?
3. What is an Entity? Explain different type of Entities.
4. What is an Attribute? Explain different types of Attributes.
5. Explain Recursive Relationship with example.
6. Explain Degree of Relationship and its types
7. What are the basic constructs of ER model?
8. Distinguish between simple and composite attributes.

## UNIT - III

1. List out Codd's Relational Database rules.
2. Explain 1NF, 2NF.

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3. Explain 3NF and BCNF
4. What is Primary Key? Explain some desirable Primary Key characteristics.
5. Explain the usage of Composite Primary key with an example.
6. What is Normalization? Explain it.
7. What is Denormalization?
8. Define Functional Dependency.
9. Define the term Data Dictionary.
10. Define data redundancy

## UNIT - IV (SQL)

1. Explain Select Query in SQL.
2. Explain how to create table with syntax in SQL.
3. Explain various Data types used in SQL and PL/SQL.
4. Explain column constraints in SQL.
5. List and explain various DML, DDL commands in SQL.
6. List and explain SQL Logical Operators.
7. Explain Special Operators.
8. What is the use of foreign key constraint with an example?
9. Describe DROP command with options.
10. Explain DCL commands.

## UNIT - V

1. Explain Order by, Group by and Having Clauses with example.
2. What are Views in SQL? Give an example
3. Explain Aggregate functions with examples.
4. Explain in brief about Subqueries and Correlated queries.
5. What is a Join? Discuss about various joins used in SQL.
6. List and explain SQL Relational Set Operators.
7. What is the use of DISTINCT keyword in SQL?