UNIT-1 8Mark Questions

1. What are the characteristics and benefits of a database?
2. What is the difference between filesystem and database system?
3. What is the structure of a database management system?
4. What is the architecture and its types in DBMS?
5. What is an attribute and Explain its types with examples?
6. What are the functions and applications of DBMS?
7. What are the advantages and disadvantages of DBMS?
8. What are the classifications of DBMS?
9. What are the 3 main components of entity relationship modelling?
10. What is the difference between logical and physical database design?

UNIT-2 8Mark Questions

1. What are keys in DBMS? and Explain 7 Types of Keys in DBMS.
2. Explain about join operations in relational algebra
3. What is E-R model? Draw an E-R Diagram for any Banking enterprise system.
4. Compare between super key, Candidate key, Primary Key for a relation with examples
5. What are the types of the SQL commands explain each with example of commands?
6. What is meant by instances of the database and schema?
7. Explain about domain relational calculus with example.
8. What is the difference between tuple relation calculus and domain relation calculus?
9. What is embedded SQL and dynamic SQL?
10. What is JDBC and Explain its components with 4 drivers of JDBC

Some Questions and their answer links

8Mark Questions

1. What are the characteristics and benefits of a database?

<https://www.tutorialspoint.com/explain-the-characteristics-of-dbms>

1. What is the difference between filesystem and database system?

<https://www.geeksforgeeks.org/difference-between-file-system-and-dbms/>

1. What is the structure of a database management system?

<https://www.geeksforgeeks.org/structure-of-database-management-system/#:~:text=The%20database%20system%20is%20divided,Storage%20Manager%2C%20and%20Disk%20Storage>.

1. What are keys in DBMS? and Explain 7 Types of Keys in DBMS.

<https://www.upgrad.com/blog/types-of-keys-in-dbms/>

1. Explain about join operations in relational algebra

<https://www.javatpoint.com/dbms-join-operation>

1. What is the architecture and its types in DBMS?

<https://www.javatpoint.com/dbms-architecture#:~:text=Types%20of%20DBMS%20Architecture,architecture%20and%203-tier%20architecture>.

1. What is an attribute and Explain its types with examples?

<https://wisdomplexus.com/blogs/different-database-attributes-types-with-examples/>

1. What is E-R model? Draw an E-R Diagram for any Banking enterprise system.

<https://www.geeksforgeeks.org/er-diagram-of-bank-management-system/#:~:text=ER%20diagram%20is%20known%20as,provides%20a%20means%20of%20communication>.

1. Compare between super key, Candidate key, Primary Key for a relation with examples

<https://www.guru99.com/dbms-keys.html>

1. What are the types of the SQL commands explain each with example of commands?

<https://www.geeksforgeeks.org/sql-ddl-dql-dml-dcl-tcl-commands/>

1Mark Questions

1. What are the main differences between Primary key and Unique Key?
2. What is a CLAUSE in terms of SQL?
3. What are different types of joins in SQL?
4. What is meant by trigger?
5. What are the different types of relationships in the DBMS?
6. Give the levels of data abstraction in DBMS?
7. What is meant by a Database?
8. Why is the use of DBMS recommended? Explain by listing some of its major advantages.
9. What are the different types of languages that are available in the DBMS?
10. What is the purpose of SQL?
11. Explain the concepts of a Primary key and Foreign Key.
12. What is E-R model in the DBMS?