

5. Write syntax of SEQUENCE.
6. What is the importance of dual and tab system table?
7. Briefly explain any two E-R diagram symbols.
8. Explain any two numeric functions with an example.
9. Explain any one DML statement.

Q-3 A List types of data model. Explain any two in detail.. [6]

B Explain users associated with database systems and their roles [6]

OR

B Explain data sharing and data protection in detail. [6]

Q-4 A Give an example of each one. [6]

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|----------------------------|------------------------|----------------------------|
| 1. Simple attribute | 2. Composite attribute | 3. Single-valued attribute |
| 4. Multi-valued attributes | 5. Strong entity | 6. Weak entity |

B Explain Dr. Edgar F. Codd's Rules. [6]

OR

B Draw an ER diagram & show cardinality for following information. [6]

A library management system. Information about books such as book id, title, edition, and price are stored. Each book has single or multiple authors. Member including, name, address, member type, member Id. Publisher including publisher Id, name and address.

Q-5 A 1. Give list of DCL commands. [6]

2. Differentiate between truncate and delete command
3. List down any two rules for writing SQL.
4. What is the importance of view in database?
5. Major difference between primary key and unique key.
6. Explain any one string function with an example.

B Discuss various types of constraints giving an example. [6]

OR

B Write a short note on Commit, Rollback & Savepoint. [6]

Q-6 A Discuss various Arithmetic operators, logical operators & pattern matching operator in SQL. [6]

B Explain different types of joins such as self join, natural join, and outer join with an example. [6]

OR

B List down various aggregate functions and explain each with an example. [6]

