

Question Bank (I scheme)

Name of Subject: Database Management (DMA)

Unit Test: I

Subject Code: 22416

Course: IF4I

Semester: IV

Chapter 1-Creating Relational Database (24 marks)

2 Marks

1. Define Relational Database
2. List any four RDBMS software.
3. List any four DDL commands
4. Define Attribute and Domain.
5. Define Degree and Cardinality.

4 Marks

1. Describe Alter table command. Give syntax of add and drop options.
2. Explain the difference between truncate and drop command with example.
3. Consider following relational database

patient_details (patien_id, patient_name, prescription, doctor)

Give an expression in relational algebra for following queries:

- i. To get prescription given to Sanjay.
- ii. To get patient_id with their name.

4. Consider following schema:

Student (rollno, name, class, DOB)

Write SQL commands for following statements

- i. To create table student
- ii. To add new column percentage to student table
- iii. To drop column DOB from student table
- iv. To rename column name to student_name.

5. Create table for following schema.

- i. Student (Enroll_no, Roll_no, Name, Percentage)
- ii. Book (Book_id, Book_name, Author, Price, ISBN)

Chapter 2-Interactive SQL for data extraction (54 marks)

2 Marks

1. List any four DML commands
2. List any four TCL commands
3. List any two Arithmetic and Logical operators. (Any 2 each).
4. State use of '%' character in pattern matching operators.
5. Define Join and list any two its types

4 Marks

1. Describe any four ways to insert a record in a table.
2. Describe how to delete data from table with example.
3. Describe any four string functions with example.
4. Describe any four date functions with example.
5. Describe commit and rollback command with example.
6. Explain Group by and Order by clauses of SQL with example.

7. Consider following schema

Employee (empno,ename,job,salary,joindate,deptno)

Write SQL commands for following statements:

- i. Add following record in employee table

empno=100, ename=sagar, job=manager, salary=75000,joindate=10-jan-2019,deptno=10

- ii. Change the name of employee raj to Rajesh.
- iii. Delete all employees whose job is salesman.
- iv. Display details of employee whose salary between 20000 and 50000.

8. Consider following schema

Employee (empno, ename, job, salary, joindate, comm, deptno)

Write SQL queries for following statements:

- i. Display number of employees in employee table.
- ii. Display minimum salary of each department.
- iii. Display details of employees in descending order of their salary.
- iv. Display details of employee whose salary is less than salary of Rajesh.

9. Consider following schema:

Depositor (cust_name, acc_no)

Borrower (cust_name, loan_no)

Solve following Queries:

- i. Find customer name having savings account as well as loan account.
- ii. Find customer names having loan account but not the saving account.

10. Consider following schema:

Employee (emp_no, emp_name, dept, designation, salary, dept_location)

Solve following queries:

- i. List all Managers in Mumbai location.
- ii. Set salary of all 'project leaders' to 70000/-.
- i. List employees with having alphabet 'A' as second letter in their name.
- ii. Display details of those employees who work in Mumbai or Chennai.