

**FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**DEPARTMENT OF COMPUTER APPLICATIONS**  
**ADVANCED DATA BASE MANAGEMENT SYSTEM LAB CYCLE-I**

**Semester & Batch: S2MCA 2024 B Batch**

**1. DDL (Data Definition Language) Questions**

**Q1:** Create a department table with the following columns: dept\_id (PK), dept\_name (not null), dept\_location.

**Q2:** Write a SQL query to create an employee table with the following columns: emp\_id (PK), emp\_name, emp\_salary (>20k), emp\_join\_date (between June 1998- till date), dept\_id (FK).

**Q3:** Create table support table with s\_id (PK), emp\_id (FK), dept\_id (FK), status (Yes/No).

**Q4:** Display the schema of the above three tables.

**Q5:** Alter the employee table to add a new column emp\_email of type VARCHAR(100).

**Q6:** Drop the support table if it is no longer required.

**Q7:** Modify the emp\_salary column in the employee table to allow values up to DECIMAL(12, 2).

**2. DML (Data Manipulation Language) Questions**

**Q8:** Add five suitable records to department table (Let value of dept\_id starts with 101).

**Q9:** Insert the following employee record into the employee table: emp\_id = 1, emp\_name = 'John Doe', emp\_salary = 60000, emp\_join\_date = '15-05-2021', dept\_id = 101.

**Q10:** Insert multiple records of employees into the employee table with emp\_id, emp\_name, emp\_salary, and dept\_id.

**Q11:** Update the salary of the employee with emp\_id = 1 by increasing it by 10%.

**Q12:** Delete the record of the employee with emp\_id = 1.

**Q13:** Update the emp\_salary of employees in dept\_id = 101 to 10% more if their current salary is less than 50000.

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**STAFF IN CHARGE**