**Query 4**

Create the database COMPANY and create given tables with all necessary constraints such asprimary key, foreign key, unique key, not null and check constraints.

EMPLOYEE (emp\_id, emp\_name, birth\_date, gender, dept\_no, address, designation, salary, experience, email)

DEPART (dept\_no, dept\_name, total\_employees, location)

PROJECT (proj\_id, type\_of\_project, status, start\_date, emp\_id)

Insert proper data (at least 5 appropriate records) in all the tables.

1. Delete the department whose total number of employees less than 1.

2. Display the names and the designation of all female employee in descending order.

3. Display the names of all the employees who names starts with ‘A’ ends with ‘A’.

4. Find the name of employee and salary for those who had obtain minimum salary.

5. Add 10% raise in salary of all employees whose department is ‘CIVIL’.

6. Count total number of employees of ‘MCA’ department.

7. List all employees who born in the current month.

8. Print the record of employee and dept table as “Employee works in department ‘CE’.

9. List names of employees who are fresher’s(less than 1 year of experience).

10. List department wise names of employees who has more than 5 years of experience

**Solution:**

CREATE TABLE EMPLOYEE (

emp\_id INT PRIMARY KEY,

emp\_name VARCHAR2(50) NOT NULL,

birth\_date DATE NOT NULL,

gender VARCHAR2(10) CHECK (gender IN ('Male', 'Female')),

dept\_no INT,

address VARCHAR2(100),

designation VARCHAR2(50),

salary NUMBER(10,2),

experience INT,

email VARCHAR2(100),

CONSTRAINT emp\_dept\_fk FOREIGN KEY (dept\_no) REFERENCES DEPART(dept\_no)

);

CREATE TABLE DEPART (

dept\_no INT PRIMARY KEY,

dept\_name VARCHAR2(50) NOT NULL,

total\_employees INT CHECK (total\_employees >= 0),

location VARCHAR2(100)

);

CREATE TABLE PROJECT (

proj\_id INT PRIMARY KEY,

type\_of\_project VARCHAR2(50),

status VARCHAR2(50),

start\_date DATE,

emp\_id INT,

CONSTRAINT proj\_emp\_fk FOREIGN KEY (emp\_id) REFERENCES EMPLOYEE(emp\_id)

);

INSERT INTO EMPLOYEE VALUES (1, 'John Doe', TO\_DATE('1990-05-15', 'YYYY-MM-DD'), 'Male', 1, '123 Main St', 'Manager', 50000, 5, 'john.doe@example.com');

INSERT INTO EMPLOYEE VALUES (2, 'Jane Smith', TO\_DATE('1995-10-20', 'YYYY-MM-DD'), 'Female', 2, '456 Oak St', 'Engineer', 40000, 3, 'jane.smith@example.com');

INSERT INTO EMPLOYEE VALUES (3, 'Alice Johnson', TO\_DATE('1992-03-01', 'YYYY-MM-DD'), 'Female', 1, '789 Elm St', 'Analyst', 45000, 2, 'alice.johnson@example.com');

INSERT INTO EMPLOYEE VALUES (4, 'Bob Brown', TO\_DATE('1988-12-10', 'YYYY-MM-DD'), 'Male', 2, '101 Pine St', 'Developer', 55000, 6, 'bob.brown@example.com');

INSERT INTO EMPLOYEE VALUES (5, 'Ella Garcia', TO\_DATE('1998-08-05', 'YYYY-MM-DD'), 'Female', 1, '202 Cedar St', 'Designer', 38000, 1, 'ella.garcia@example.com');

INSERT INTO DEPART VALUES (1, 'IT', 3, 'New York');

INSERT INTO DEPART VALUES (2, 'HR', 2, 'Los Angeles');

INSERT INTO PROJECT VALUES (1, 'Software Development', 'In Progress', TO\_DATE('2024-01-10', 'YYYY-MM-DD'), 1);

INSERT INTO PROJECT VALUES (2, 'Marketing Campaign', 'Completed', TO\_DATE('2023-05-20', 'YYYY-MM-DD'), 2);

**Delete the department whose total number of employees less than 1:**

DELETE FROM DEPART WHERE total\_employees < 1;

**Display the names and the designation of all female employees in descending order:**

SELECT emp\_name, designation FROM EMPLOYEE WHERE gender = 'Female' ORDER BY emp\_name DESC;

**Display the names of all the employees whose names start with ‘A’ and end with ‘A’:**

SELECT emp\_name FROM EMPLOYEE WHERE emp\_name LIKE 'A%A';

**Find the name of the employee and salary for those who had obtained the minimum salary**

SELECT emp\_name, salary FROM EMPLOYEE WHERE salary = (SELECT MIN (salary) FROM EMPLOYEE);

**Add a 10% raise in salary for all employees whose department is ‘CIVIL’**

UPDATE EMPLOYEE SET salary = salary \* 1.1 WHERE dept\_no = (SELECT dept\_no FROM DEPART WHERE dept\_name = 'CIVIL');

**Count the total number of employees in the ‘MCA’ department**

**SELECT COUNT(\*) FROM EMPLOYEE WHERE dept\_no = (SELECT dept\_no FROM DEPART WHERE dept\_name = 'MCA');**

**List the names of employees who are fresher’s (less than 1 year of experience)**

SELECT emp\_name FROM EMPLOYEE WHERE experience < 1;

**List department-wise names of employees who have more than 5 years of experience**

SELECT emp\_name, dept\_name FROM EMPLOYEE e JOIN DEPART d ON e.dept\_no = d.dept\_no WHERE experience > 5;