SQL Queries - all types of Join, Sub-Query and View: (Note: also examiner can ask it without join)

Create the tables Employee(EmpID, Ename, Salary, Contactno, City, DeptID) and

Department (DeptID, Dname, Location)

1. Display Employee Name and Department name from given entity.

2. Retrieve list of employees along with their department names and locations.(Using inner join or natural join)

3. Display all employee names, location and their department name which are matching with employee table.

4. Display all department names, salary, location and department names of employee.(Right Joins)

5. Display list of all employees and departments (Full joins)

6. Display all possible combinations of employees and departments (cross joins)

7. Retrieve parts of employees who shares the same department(Self Join)

8. Create simple and complex views

9. Update simple view

10. Delete the view

ANS

1

CREATE TABLE Department (

DeptID INT PRIMARY KEY,

Dname VARCHAR(50),

Location VARCHAR(50)

);

CREATE TABLE Employee (

EmpID INT PRIMARY KEY,

Ename VARCHAR(50),

Salary DECIMAL(10,2),

Contactno VARCHAR(15),

City VARCHAR(50),

DeptID INT,

FOREIGN KEY (DeptID) REFERENCES Department(DeptID)

);

2

SELECT E.Ename, D.Dname

FROM Employee E

JOIN Department D ON E.DeptID = D.DeptID;

3

SELECT E.Ename, D.Dname, D.Location

FROM Employee E

JOIN Department D ON E.DeptID = D.DeptID;

4

SELECT E.Ename, D.Dname, D.Location

FROM Employee E

NATURAL JOIN Department D;

5

SELECT E.Ename, D.Location, D.Dname

FROM Employee E

JOIN Department D ON E.DeptID = D.DeptID;

6

SELECT D.Dname, E.Salary, D.Location, E.Dname

FROM Department D

RIGHT JOIN Employee E ON D.DeptID = E.DeptID;

7

SELECT E.Ename, D.Dname

FROM Employee E

FULL OUTER JOIN Department D ON E.DeptID = D.DeptID;

8

SELECT E.Ename, D.Dname

FROM Employee E

CROSS JOIN Department D;

9

SELECT E1.Ename AS Employee1, E2.Ename AS Employee2, E1.DeptID

FROM Employee E1

JOIN Employee E2 ON E1.DeptID = E2.DeptID

WHERE E1.EmpID <> E2.EmpID;

10CREATE VIEW EmployeeDept AS

SELECT E.Ename, D.Dname

FROM Employee E

JOIN Department D ON E.DeptID = D.DeptID;

11

CREATE VIEW EmployeeDetails AS

SELECT E.Ename, E.Salary, D.Dname, D.Location

FROM Employee E

JOIN Department D ON E.DeptID = D.DeptID

WHERE E.Salary > 3000;

12

UPDATE EmployeeDept

SET Dname = 'HR'

WHERE Ename = 'John Doe';

13

DROP VIEW EmployeeDept;