Create a db called company consist of the following tables.

1.Emp (eno,ename, job,hiredate,salary,commission,deptno,)

2.dept(deptno,deptname,location)
eno is primary key in emp
deptno is primary key in dept

Solve Queries by SQL

- 1. List the maximum salary paid to salesman
- 2. List name of emp whose name start with 'I'
- 3. List details of emp who have joined before '30-sept-81'
- 4. List the emp details in the descending order of their basic salary
- 5. List of no. of emp & avg salary for emp in the dept no '20'
- 6. List the avg salary, minimum salary of the emp hiredatewise for dept no '10'.
- 7. List emp name and its department
- 8. List total salary paid to each department
- 9. List details of employee working in 'Dev' department
- 10. Update salary of all employees in deptno 10 by 5 %

Step 1: Create Database and Tables

```
1. Create Database
sal
Copy code
CREATE DATABASE company;
USE company;
2. Create Tables
sql
Copy code
-- Create dept table
CREATE TABLE dept (
 deptno INT PRIMARY KEY,
 deptname VARCHAR(100) NOT NULL,
 location VARCHAR(100) NOT NULL
);
-- Create Emp table
CREATE TABLE Emp (
 eno INT PRIMARY KEY,
 ename VARCHAR(100) NOT NULL,
 job VARCHAR(50) NOT NULL,
```

```
hiredate DATE NOT NULL,
  salary DECIMAL(10, 2) CHECK (salary >= 0),
  commission DECIMAL(10, 2) CHECK (commission >= 0),
  deptno INT,
  FOREIGN KEY (deptno) REFERENCES dept(deptno)
);
Step 2: Insert Sample Data
Here's an example of how to insert sample data into the tables:
sql
Copy code
-- Insert data into dept table
INSERT INTO dept (deptno, deptname, location) VALUES
(10, 'HR', 'New York'),
(20, 'Sales', 'Los Angeles'),
(30, 'Dev', 'San Francisco');
-- Insert data into Emp table
INSERT INTO Emp (eno, ename, job, hiredate, salary, commission, deptno) VALUES
(1, 'Alice', 'Manager', '1981-05-01', 70000, 5000, 10),
(2, 'Bob', 'Salesman', '1980-02-15', 60000, 3000, 20),
(3, 'Charlie', 'Salesman', '1982-03-20', 65000, 4000, 20),
(4, 'David', 'Dev', '1983-08-25', 80000, 7000, 30),
(5, 'Eve', 'Saleswoman', '1981-09-30', 55000, 2500, 20),
(6, 'Frank', 'Analyst', '1980-11-11', 50000, NULL, 10),
(7, 'Igor', 'Salesman', '1984-04-10', 58000, 2000, 20),
(8, 'Hank', 'Dev', '1985-12-05', 75000, 8000, 30);
Step 3: Solve SQL Queries
    1. List the maximum salary paid to salesman:
sql
```

Copy code

SELECT MAX(salary) AS MaxSalary

```
FROM Emp
WHERE job = 'Salesman';
   2. List the name of emp whose name starts with 'I':
sql
Copy code
SELECT ename
FROM Emp
WHERE ename LIKE 'I%';
   3. List details of emp who have joined before '30-sept-81':
sql
Copy code
SELECT*
FROM Emp
WHERE hiredate < '1981-09-30';
   4. List the emp details in the descending order of their basic salary:
sql
Copy code
SELECT *
FROM Emp
ORDER BY salary DESC;
   5. List of no. of emp & avg salary for emp in the dept no '20':
sql
Copy code
SELECT COUNT(*) AS NumberOfEmp, AVG(salary) AS AvgSalary
FROM Emp
WHERE deptno = 20;
   6. List the avg salary, minimum salary of the emp hiredate wise for dept no '10':
sql
Copy code
SELECT hiredate, AVG(salary) AS AvgSalary, MIN(salary) AS MinSalary
FROM Emp
```

```
WHERE deptno = 10
GROUP BY hiredate;
   7. List emp name and its department:
sql
Copy code
SELECT E.ename, D.deptname
FROM Emp E
JOIN dept D ON E.deptno = D.deptno;
   8. List total salary paid to each department:
sql
Copy code
SELECT D.deptname, SUM(E.salary) AS TotalSalary
FROM Emp E
JOIN dept D ON E.deptno = D.deptno
GROUP BY D.deptname;
   9. List details of employees working in 'Dev' department:
sql
Copy code
SELECT E.*
FROM Emp E
JOIN dept D ON E.deptno = D.deptno
WHERE D.deptname = 'Dev';
   10. Update salary of all employees in deptno 10 by 5%:
sql
Copy code
UPDATE Emp
SET salary = salary * 1.05
WHERE deptno = 10;
```