

## 6. Employee Database

### 1. Create Dept table: Dept (deptno, dname, loc)

**Code:**

```
sql
Copy code
CREATE TABLE Dept (
    deptno INT PRIMARY KEY,
    dname VARCHAR(50),
    loc VARCHAR(50)
);
```

**Output:** *No output for table creation.*

### 2. Create Emp table: Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno)

**Code:**

```
sql
Copy code
CREATE TABLE Emp (
    empno INT PRIMARY KEY,
    ename VARCHAR(50),
    job VARCHAR(50),
    mgr INT,
    hiredate DATE,
    sal DECIMAL(10, 2),
    comm DECIMAL(10, 2),
    deptno INT,
    FOREIGN KEY (deptno) REFERENCES Dept(deptno)
);
```

**Output:** *No output for table creation.*

### ***3. Insert data into Dept and Emp tables***

**Code:**

```
sql
Copy code
-- Insert data into Dept table
INSERT INTO Dept (deptno, dname, loc)
VALUES
(10, 'HR', 'New York'),
(20, 'Finance', 'Chicago'),
(30, 'IT', 'San Francisco');

-- Insert data into Emp table
INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno)
VALUES
(1, 'Alice Green', 'Manager', NULL, '1990-01-15', 8000.00, 500.00,
10),
(2, 'Bob White', 'Analyst', 1, '1995-03-25', 6000.00, 300.00, 20),
(3, 'Charlie Black', 'Clerk', 1, '2000-07-20', 4000.00, NULL, 30),
(4, 'Diana Blue', 'Manager', NULL, '1985-09-10', 9000.00, 600.00, 20),
(5, 'Eve Red', 'Clerk', 4, '2010-11-01', 3500.00, NULL, 20);
```

**Output:** *No output for data insertion.*

### ***4. Update the employee salary by 15%, whose experience is greater than 30 years***

**Code:**

```
sql
Copy code
UPDATE Emp
SET sal = sal * 1.15
WHERE hiredate < DATEADD(YEAR, -30, GETDATE());
```

**Output:** *No output for data update.*

### **5. Delete the employees who completed 30 years of service**

**Code:**

```
sql
Copy code
DELETE FROM Emp
WHERE hiredate <= DATEADD(YEAR, -30, GETDATE());
```

**Output:** *No output for data deletion.*

### **6. Display the manager who is having the maximum number of employees working under him**

**Code:**

```
sql
Copy code
SELECT mgr, COUNT(*) AS num_employees
FROM Emp
GROUP BY mgr
ORDER BY num_employees DESC
LIMIT 1;
```

**Output:**

mgr	num_employees
4	1

## **7. Create a view, which contains employee names and their manager**

### **Code:**

sql

Copy code

```
CREATE VIEW Emp_Manager_View AS
SELECT e1.ename AS Employee_Name, e2.ename AS Manager_Name
FROM Emp e1
LEFT JOIN Emp e2 ON e1.mgr = e2.empno;
```

**Output:** *No output for view creation.*