

Assignment_6

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 15

Server version: 8.0.37 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> create database assignment6;
Query OK, 1 row affected (0.03 sec)
```

```
mysql> use assignment6;
Database changed
```

```
mysql> CREATE TABLE Dept (
->     deptno INT PRIMARY KEY,
->     dname VARCHAR(50),
->     loc VARCHAR(50)
-> );
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> 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),
->     FOREIGN KEY (mgr) REFERENCES Emp(empno)
-> );
Query OK, 0 rows affected (0.10 sec)
```

```
mysql> INSERT INTO Dept (deptno, dname, loc) VALUES
-> (10, 'HR', 'New York'),
-> (20, 'IT', 'San Francisco'),
-> (30, 'Finance', 'Chicago');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> select * from dept;
+-----+-----+-----+
| deptno | dname   | loc       |
+-----+-----+-----+
| 10     | HR      | New York  |
| 20     | IT      | San Francisco |
| 30     | Finance | Chicago   |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> INSERT INTO Emp (empno, ename, job, mgr, hiredate, sal, comm, deptno) VALUES
-> (1, 'John Doe', 'Manager', NULL, '1994-06-15', 60000, NULL, 10),
-> (2, 'Jane Smith', 'Analyst', 1, '1999-08-24', 50000, 500, 10),
```

```

-> (3, 'Emily Davis', 'Clerk', 1, '2000-11-30', 40000, NULL, 10),
-> (4, 'Michael Brown', 'Developer', NULL, '2005-12-15', 70000, NULL, 20),
-> (5, 'Anna Johnson', 'Team Lead', 4, '2010-03-23', 80000, 1000, 20),
-> (6, 'Chris Lee', 'Accountant', NULL, '2000-05-01', 55000, 800, 30);

```

Query OK, 6 rows affected (0.02 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> select * from emp;
```

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+
| empno | ename          | job          | mgr | hiredate      | sal          | comm      |
deptno |
+-----+-----+-----+-----+-----+-----+-----+
+-----+
| 1 | John Doe      | Manager      | NULL | 1994-06-15    | 60000.00     | NULL      |
10 |
| 2 | Jane Smith    | Analyst      | 1    | 1999-08-24    | 50000.00     | 500.00    |
10 |
| 3 | Emily Davis   | Clerk        | 1    | 2000-11-30    | 40000.00     | NULL      |
10 |
| 4 | Michael Brown | Developer    | NULL | 2005-12-15    | 70000.00     | NULL      |
20 |
| 5 | Anna Johnson  | Team Lead    | 4    | 2010-03-23    | 80000.00     | 1000.00   |
20 |
| 6 | Chris Lee     | Accountant   | NULL | 2000-05-01    | 55000.00     | 800.00    |
30 |
+-----+-----+-----+-----+-----+-----+-----+
+-----+

```

6 rows in set (0.00 sec)

```
mysql> UPDATE Emp
```

```

-> SET sal = sal * 1.15

```

```

-> WHERE TIMESTAMPTDIFF(YEAR, hiredate, CURDATE()) > 30;

```

Query OK, 0 rows affected (0.00 sec)

Rows matched: 0 Changed: 0 Warnings: 0

```
mysql> SELECT mgr, COUNT(*) AS num_employees
```

```

-> FROM Emp

```

```

-> GROUP BY mgr

```

```

-> ORDER BY num_employees DESC

```

```

-> LIMIT 1;

```

```

+-----+-----+
| mgr   | num_employees |
+-----+-----+
| NULL  | 3             |
+-----+-----+

```

1 row in set (0.00 sec)

```
mysql> CREATE VIEW EmployeeManagerView AS
```

```

-> SELECT e1.ename AS employee_name, e2.ename AS manager_name

```

```

-> FROM Emp e1

```

```

-> LEFT JOIN Emp e2 ON e1.mgr = e2.empno;

```

Query OK, 0 rows affected (0.04 sec)

```
mysql> select * from emp;
```

```

+-----+-----+-----+-----+-----+-----+-----+
+-----+
| empno | ename          | job          | mgr | hiredate      | sal          | comm      |
deptno |
+-----+-----+-----+-----+-----+-----+-----+

```

```

+-----+-----+-----+-----+-----+-----+
+-----+
|      1 | John Doe      | Manager  | NULL | 1994-06-15 | 60000.00 | NULL |
10 |
|      2 | Jane Smith    | Analyst  | 1    | 1999-08-24 | 50000.00 | 500.00 |
10 |
|      3 | Emily Davis   | Clerk    | 1    | 2000-11-30 | 40000.00 | NULL |
10 |
|      4 | Michael Brown | Developer | NULL | 2005-12-15 | 70000.00 | NULL |
20 |
|      5 | Anna Johnson  | Team Lead | 4    | 2010-03-23 | 80000.00 | 1000.00 |
20 |
|      6 | Chris Lee     | Accountant | NULL | 2000-05-01 | 55000.00 | 800.00 |
30 |
+-----+-----+-----+-----+-----+-----+
+-----+

```

6 rows in set (0.00 sec)

mysql> select * from dept;

```

+-----+-----+-----+
| deptno | dname  | loc      |
+-----+-----+-----+
|      10 | HR     | New York |
|      20 | IT     | San Francisco |
|      30 | Finance | Chicago  |
+-----+-----+-----+

```

3 rows in set (0.00 sec)