

## Assignment No. 3

- Creating EMPLOYEES table

```
mysql> USE office;
Database changed
mysql> CREATE TABLE EMPLOYEES (
  -> Employee_Id INT,
  -> First_Name VARCHAR(50),
  -> Last_Name VARCHAR(50),
  -> Email VARCHAR(100),
  -> Phone_Number VARCHAR(20),
  -> Hire_Date DATE,
  -> Job_Id VARCHAR(20),
  -> Salary DECIMAL(10, 2),
  -> Commission_Pct DECIMAL(4, 2),
  -> Manager_Id INT,
  -> Department_Id INT
  -> );
Query OK, 0 rows affected (0.01 sec)
```

- Inserting Values

```
mysql> INSERT INTO EMPLOYEES (Employee_Id, First_Name, Last_Name, Email, Phone_Number, Hire_Date, Job_Id, Salary, Commission_Pct, Manager_Id, Department_Id)
  -> VALUES
  -> (100, 'John', 'Doe', 'john.doe@example.com', '1234567890', '2010-01-01', 'MANAGER', 6000, 0.1, NULL, 90),
  -> (101, 'Jane', 'Smith', 'jane.smith@example.com', '9876543210', '2015-05-15', 'SALESMAN', 5000, 0.05, 100, 30),
  -> (102, 'Michael', 'Austin', 'michael.austin@example.com', '4567890123', '2012-10-10', 'CLERK', 4000, NULL, 101, 20),
  -> (103, 'Emma', 'Johnson', 'emma.johnson@example.com', '7418529630', '2018-08-20', 'ANALYST', 7000, 0.15, 100, 60),
  -> (104, 'David', 'Williams', 'david.williams@example.com', '3692581470', '2013-12-25', 'SALESMAN', 5500, 0.07, 100, 80),
  -> (105, 'Sarah', 'Brown', 'sarah.brown@example.com', '2581473690', '2017-04-30', 'CLERK', 4500, NULL, 102, 70),
  -> (106, 'Ryan', 'Taylor', 'ryan.taylor@example.com', '1473692580', '2019-10-05', 'MANAGER', 6200, 0.12, NULL, 40),
  -> (107, 'Olivia', 'Miller', 'olivia.miller@example.com', '9638527410', '2016-06-10', 'SALESMAN', 5200, 0.06, 106, 80),
  -> (108, 'James', 'Wilson', 'james.wilson@example.com', '6325874109', '2020-03-15', 'CLERK', 4800, NULL, 106, 30),
  -> (109, 'Sophia', 'Davis', 'sophia.davis@example.com', '1592634870', '2014-09-01', 'ANALYST', 7500, 0.2, 106, 60);
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

1. Find out the employee id, names, salaries of all the employees.

Sol.:

```
mysql> SELECT Employee_Id, First_Name, Last_Name, Salary FROM EMPLOYEES;
+-----+-----+-----+-----+
| Employee_Id | First_Name | Last_Name | Salary |
+-----+-----+-----+-----+
| 100 | John | Doe | 6000.00 |
| 101 | Jane | Smith | 5000.00 |
| 102 | Michael | Austin | 4000.00 |
| 103 | Emma | Johnson | 7000.00 |
| 104 | David | Williams | 5500.00 |
| 105 | Sarah | Brown | 4500.00 |
| 106 | Ryan | Taylor | 6200.00 |
| 107 | Olivia | Miller | 5200.00 |
| 108 | James | Wilson | 4800.00 |
| 109 | Sophia | Davis | 7500.00 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

2. List out the employees who works under manager 100.

Sol.:

```
mysql> SELECT Employee_Id, First_Name, Last_Name FROM EMPLOYEES WHERE Manager_Id = 100;
+-----+-----+-----+
| Employee_Id | First_Name | Last_Name |
+-----+-----+-----+
|          101 | Jane       | Smith     |
|          103 | Emma       | Johnson   |
|          104 | David      | Williams  |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

3. Find the names of the employees who have a salary greater than or equal to 4800.

Sol.:

```
mysql> SELECT First_Name, Last_Name FROM EMPLOYEES WHERE Salary >= 4800;
+-----+-----+
| First_Name | Last_Name |
+-----+-----+
| John       | Doe       |
| Jane       | Smith     |
| Emma       | Johnson   |
| David      | Williams  |
| Ryan       | Taylor    |
| Olivia     | Miller    |
| James      | Wilson    |
| Sophia     | Davis     |
+-----+-----+
8 rows in set (0.00 sec)
```

4. List out the employees whose last name is 'AUSTIN'.

Sol.:

```
mysql> SELECT * FROM EMPLOYEES WHERE Last_Name = 'Austin';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Employee_Id | First_Name | Last_Name | Email | Phone_Number | Hire_Date | Job_Id | Salary | Commission_Pct | Manager_Id | Department_Id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|          102 | Michael    | Austin    | michael.austin@example.com | 4567890123 | 2012-10-10 | CLERK | 4000.00 | NULL | 101 | 20 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

5. Find the names of the employees who works in departments 60,70 and 80.

Sol.:

```
mysql> SELECT First_Name, Last_Name FROM EMPLOYEES WHERE Department_Id IN (60, 70, 80);
+-----+-----+
| First_Name | Last_Name |
+-----+-----+
| Emma       | Johnson   |
| David      | Williams  |
| Sarah      | Brown     |
| Olivia     | Miller    |
| Sophia     | Davis     |
+-----+-----+
5 rows in set (0.00 sec)
```

6. Display the unique Manager\_Id.

Sol.:

```
mysql> SELECT DISTINCT Manager_Id FROM EMPLOYEES;
+-----+
| Manager_Id |
+-----+
|          NULL          |
|          100          |
|          101          |
|          102          |
|          106          |
+-----+
5 rows in set (0.00 sec)
```

7. Delete the record of the Employee id 102.

Sol.:

```
mysql> DELETE FROM EMPLOYEES WHERE Employee_Id = 102;
Query OK, 1 row affected (0.00 sec)

mysql> SELECT Employee_Id, First_Name, Last_Name, Salary FROM EMPLOYEES;
+-----+-----+-----+-----+
| Employee_Id | First_Name | Last_Name | Salary |
+-----+-----+-----+-----+
|          100 | John      | Doe       | 6000.00 |
|          101 | Jane      | Smith     | 5000.00 |
|          103 | Emma      | Johnson   | 7000.00 |
|          104 | David     | Williams  | 5500.00 |
|          105 | Sarah     | Brown     | 4500.00 |
|          106 | Ryan      | Taylor    | 6200.00 |
|          107 | Olivia    | Miller    | 5200.00 |
|          108 | James     | Wilson    | 4800.00 |
|          109 | Sophia    | Davis     | 7500.00 |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

8. Change the salary of the employee "John" to 50000.

Sol.:

```
mysql> UPDATE EMPLOYEES SET Salary = 50000 WHERE First_Name = 'John';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT Employee_Id, First_Name, Last_Name, Salary FROM EMPLOYEES;
+-----+-----+-----+-----+
| Employee_Id | First_Name | Last_Name | Salary |
+-----+-----+-----+-----+
|          100 | John      | Doe       | 50000.00 |
|          101 | Jane      | Smith     | 5000.00 |
|          103 | Emma      | Johnson   | 7000.00 |
|          104 | David     | Williams  | 5500.00 |
|          105 | Sarah     | Brown     | 4500.00 |
|          106 | Ryan      | Taylor    | 6200.00 |
|          107 | Olivia    | Miller    | 5200.00 |
|          108 | James     | Wilson    | 4800.00 |
|          109 | Sophia    | Davis     | 7500.00 |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

9. List the employees who has joined after 1 st Jan 2010.

Sol.:

```
mysql> SELECT * FROM EMPLOYEES WHERE Hire_Date > '2010-01-01';
```

Employee_Id	First_Name	Last_Name	Email	Phone_Number	Hire_Date	Job_Id	Salary	Commission_Pct	Manager_Id	Department_Id
101	Jane	Smith	jane.smith@example.com	9876543210	2015-05-15	SALESMAN	5000.00	0.05	100	30
103	Emma	Johnson	emma.johnson@example.com	7418529630	2018-08-20	ANALYST	7000.00	0.15	100	60
104	David	Williams	david.williams@example.com	3692581470	2013-12-25	SALESMAN	5500.00	0.07	100	80
105	Sarah	Brown	sarah.brown@example.com	2581473690	2017-04-30	CLERK	4500.00	NULL	102	70
106	Ryan	Taylor	ryan.taylor@example.com	1473692580	2019-10-05	MANAGER	6200.00	0.12	NULL	40
107	Olivia	Miller	olivia.miller@example.com	9638527410	2016-06-10	SALESMAN	5200.00	0.06	106	80
108	James	Wilson	james.wilson@example.com	6325874109	2020-03-15	CLERK	4800.00	NULL	106	30
109	Sophia	Davis	sophia.davis@example.com	1592634870	2014-09-01	ANALYST	7500.00	0.20	106	60

```
8 rows in set (0.00 sec)
```

10. Display the names of the employees whose first name starts with “A”.

Sol.:

```
mysql> SELECT First_Name, Last_Name FROM EMPLOYEES WHERE First_Name LIKE 'A%';
```

First_Name	Last_Name
Alice	Johnson

```
1 row in set (0.00 sec)
```