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Topic – SQL Assignment : 07

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Assignment 7: Prepare a series of SQL statements to INSERT new records into the employee tables, UPDATE existing records with new information, and DELETE records based on specific criteria. Include BULK INSERT operations to load data from an external source.

Solution :

- Select the table employee and now perform the INSERT, UPDATE, DELETE OPERATIONS.

```
mysql> select * from employee;
+----+-----+-----+-----+-----+-----+-----+
| Eid | EName | Salary | Comm | Job   | DOJ    | Mid   |
+----+-----+-----+-----+-----+-----+-----+
| 101 | King  | 50000.00 | NULL | President | 2020-12-01 | NULL |
| 102 | Smith | 45000.00 | NULL | Manager   | 2021-09-23 | 101  |
| 103 | Ford   | 40000.00 | NULL | Manager   | 2022-04-15 | 101  |
| 104 | Tom    | 30000.00 | 1500 | Developer | 2023-10-18 | 102  |
| 105 | Scott  | 35000.00 | 1000 | Developer | 2023-12-25 | 102  |
| 106 | Jerry  | 25000.00 | 3000 | Tester    | 2025-12-16 | 103  |
| 107 | Ravi   | 22000.00 | 4000 | Tester    | 2025-12-15 | 103  |
| 110 | anil   |      NULL | NULL | NULL    | 2024-01-19 | NULL |
+----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)
```

1.

- INSERT operation :

```
mysql> INSERT INTO employee
-> VALUES (111, 'Vikas', 40000, 3000, 'Developer', '2025-05-26', 102);
Query OK, 1 row affected (0.04 sec)
```

2.

- Output :

```

mysql> SELECT * from employee;
+----+-----+-----+-----+-----+-----+-----+
| Eid | EName | Salary | Comm | Job    | DOJ   | Mid  |
+----+-----+-----+-----+-----+-----+-----+
| 101 | King  | 50000.00 | NULL | President | 2020-12-01 | NULL |
| 102 | Smith | 45000.00 | NULL | Manager   | 2021-09-23 | 101  |
| 103 | Ford   | 40000.00 | NULL | Manager   | 2022-04-15 | 101  |
| 104 | Tom    | 30000.00 | 1500 | Developer | 2023-10-18 | 102  |
| 105 | Scott  | 35000.00 | 1000 | Developer | 2023-12-25 | 102  |
| 106 | Jerry  | 25000.00 | 3000 | Tester    | 2025-12-16 | 103  |
| 107 | Ravi   | 22000.00 | 4000 | Tester    | 2025-12-15 | 103  |
| 110 | anil   | NULL     | NULL | NULL    | 2024-01-19 | NULL |
| 111 | Vikas | 40000.00 | 3000 | Developer | 2025-05-26 | 102  |
+----+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

```

3.

- UPDATE operation :

```

mysql> UPDATE employee
      -> SET Ename = 'Rishu'
      -> WHERE Ename = 'anil';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

4.

- Output :

```

mysql> SELECT * FROM employee;
+----+-----+-----+-----+-----+-----+-----+
| Eid | EName | Salary | Comm | Job    | DOJ   | Mid  |
+----+-----+-----+-----+-----+-----+-----+
| 101 | King  | 50000.00 | NULL | President | 2020-12-01 | NULL |
| 102 | Smith | 45000.00 | NULL | Manager   | 2021-09-23 | 101  |
| 103 | Ford   | 40000.00 | NULL | Manager   | 2022-04-15 | 101  |
| 104 | Tom    | 30000.00 | 1500 | Developer | 2023-10-18 | 102  |
| 105 | Scott  | 35000.00 | 1000 | Developer | 2023-12-25 | 102  |
| 106 | Jerry  | 25000.00 | 3000 | Tester    | 2025-12-16 | 103  |
| 107 | Ravi   | 22000.00 | 4000 | Tester    | 2025-12-15 | 103  |
| 110 | Rishu  | NULL     | NULL | NULL    | 2024-01-19 | NULL |
| 111 | Vikas | 40000.00 | 3000 | Developer | 2025-05-26 | 102  |
+----+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

```

5.

- DELETE operation :

```

mysql> DELETE FROM employee
      -> WHERE Eid = 111;
Query OK, 1 row affected (0.01 sec)

```

6.

- Output :

```
mysql> SELECT * FROM employee;
+----+-----+-----+-----+-----+-----+-----+
| Eid | EName | Salary | Comm | Job    | DOJ   | Mid  |
+----+-----+-----+-----+-----+-----+-----+
| 101 | King  | 50000.00 | NULL | President | 2020-12-01 | NULL |
| 102 | Smith | 45000.00 | NULL | Manager   | 2021-09-23 | 101  |
| 103 | Ford   | 40000.00 | NULL | Manager   | 2022-04-15 | 101  |
| 104 | Tom    | 30000.00 | 1500 | Developer | 2023-10-18 | 102  |
| 105 | Scott  | 35000.00 | 1000 | Developer | 2023-12-25 | 102  |
| 106 | Jerry  | 25000.00 | 3000 | Tester    | 2025-12-16 | 103  |
| 107 | Ravi   | 22000.00 | 4000 | Tester    | 2025-12-15 | 103  |
| 110 | Rishu  |        NULL | NULL | NULL    | 2024-01-19 | NULL |
+----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

7.

- Bulk Insertion :

```
mysql> INSERT INTO employee VALUES(113, 'Tanmay', 40000, 1000, 'Tester', '2021-05-24', 103),
      -> (114, 'Sahil', 60000, 5000, 'Manager', '2021-06-22', 101);
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0
```

8.

- Output :

```
mysql> SELECT * FROM employee;
+----+-----+-----+-----+-----+-----+-----+
| Eid | EName | Salary | Comm | Job    | DOJ   | Mid  |
+----+-----+-----+-----+-----+-----+-----+
| 101 | King  | 50000.00 | NULL | President | 2020-12-01 | NULL |
| 102 | Smith | 45000.00 | NULL | Manager   | 2021-09-23 | 101  |
| 103 | Ford   | 40000.00 | NULL | Manager   | 2022-04-15 | 101  |
| 104 | Tom    | 30000.00 | 1500 | Developer | 2023-10-18 | 102  |
| 105 | Scott  | 35000.00 | 1000 | Developer | 2023-12-25 | 102  |
| 106 | Jerry  | 25000.00 | 3000 | Tester    | 2025-12-16 | 103  |
| 107 | Ravi   | 22000.00 | 4000 | Tester    | 2025-12-15 | 103  |
| 110 | Rishu  |        NULL | NULL | NULL    | 2024-01-19 | NULL |
| 111 | Vikas | 40000.00 | 3000 | Developer | 2025-05-26 | 102  |
| 112 | Tanya | 30000.00 | 2000 | Tester    | 2023-05-23 | 103  |
| 113 | Tanmay | 40000.00 | 1000 | Tester    | 2021-05-24 | 103  |
| 114 | Sahil | 60000.00 | 5000 | Manager   | 2021-06-22 | 101  |
+----+-----+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)
```

9.