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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', '20
21-05-24', 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.