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Date:

Practical 02: Implementation of DML Commands

Objective: Implementation of DML commands of SQL with suitable examples
>   Insert
>   Update
>   Delete

Output:

1. Insert in Table:
mysql> use bca;
Database changed
mysql> show tables;
```
+---------------+
| Tables_in_bca |
+---------------+
| user          |
+---------------+
```
1 row in set (0.03 sec)

mysql> create table students(rollno INT PRIMARY KEY,
firstname varchar(20), lastname varchar(20));
Query OK, 0 rows affected (1.58 sec)

mysql> desc students;
```
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
```

```
+-----------+-------------+------+-----+---------+-------+
| rollno    | int         | NO   | PRI | NULL    |       |
| firstname | varchar(20) | YES  |     | NULL    |       |
| lastname  | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.03 sec)

mysql> INSERT INTO students VALUES(1, "Aman", "Chandra");
Query OK, 1 row affected (0.31 sec)

mysql> INSERT INTO students VALUES(2, "Bob", "Marley");
Query OK, 1 row affected (0.14 sec)

mysql> INSERT INTO students VALUES(3, "Dean", "Winchester");
Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO students VALUES(4, "Sam", "Winchester");
Query OK, 1 row affected (0.15 sec)

mysql> INSERT INTO students VALUES(5, "Tyler", "Posey");
Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO students VALUES(6, "Tyler", "Heoclyn");
Query OK, 1 row affected (0.15 sec)

mysql> SELECT * FROM students;
+--------+-----------+------------+
| rollno | firstname | lastname   |
+--------+-----------+------------+
|      1 | Aman      | Chandra    |
|      2 | Bob       | Marley     |
|      3 | Dean      | Winchester |
|      4 | Sam       | Winchester |
|      5 | Tyler     | Posey      |
|      6 | Tyler     | Heoclyn    |
```

```
+--------+-----------+------------+
6 rows in set (0.00 sec)

mysql> SELECT * FROM students where firstname= 'Tyler';
+--------+-----------+----------+
| rollno | firstname | lastname |
+--------+-----------+----------+
|      5 | Tyler     | Posey    |
|      6 | Tyler     | Heoclyn  |
+--------+-----------+----------+
2 rows in set (0.04 sec)

mysql> SELECT * FROM students where lastname= 'Winchester';
+--------+-----------+------------+
| rollno | firstname | lastname   |
+--------+-----------+------------+
|      3 | Dean      | Winchester |
|      4 | Sam       | Winchester |
+--------+-----------+------------+
2 rows in set (0.00 sec)

mysql> SELECT firstname FROM students;
+-----------+
| firstname |
+-----------+
| Aman      |
| Bob       |
| Dean      |
| Sam       |
| Tyler     |
| Tyler     |
+-----------+
6 rows in set (0.00 sec)

mysql>
```

2. Update Table:

```
mysql> show tables;
+--------------+
| Tables_in_bca |
+--------------+
| students     |
| user         |
+--------------+
2 rows in set (0.05 sec)

mysql> select * from students;
+--------+-----------+------------+
| rollno | firstname | lastname   |
+--------+-----------+------------+
|      1 | Aman      | Chandra    |
|      2 | Bob       | Marley     |
|      3 | Dean      | Winchester |
|      4 | Sam       | Winchester |
|      5 | Tyler     | Posey      |
|      6 | Tyler     | Heoclyn    |
+--------+-----------+------------+
6 rows in set (0.00 sec)

mysql>
mysql>
mysql> UPDATE students
    -> SET firstname= 'Jensen', lastname= 'Ackles'
    -> WHERE rollno= 3;
Query OK, 1 row affected (0.20 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from students;
+--------+-----------+------------+
| rollno | firstname | lastname   |
```

```
+--------+-----------+------------+
|      1 | Aman      | Chandra    |
|      2 | Bob       | Marley     |
|      3 | Jensen    | Ackles     |
|      4 | Sam       | Winchester |
|      5 | Tyler     | Posey      |
|      6 | Tyler     | Heoclyn    |
+--------+-----------+------------+
6 rows in set (0.01 sec)

mysql>
```

3. Delete From Table:

```
mysql> DELETE FROM students
    -> WHERE firstname='Tyler' AND lastname='Heoclyn';
Query OK, 1 row affected (0.12 sec)

mysql> select * from students;
+--------+-----------+------------+
| rollno | firstname | lastname   |
+--------+-----------+------------+
|      1 | Aman      | Chandra    |
|      2 | Bob       | Marley     |
|      3 | Jensen    | Ackles     |
|      4 | Sam       | Winchester |
|      5 | Tyler     | Posey      |
+--------+-----------+------------+
5 rows in set (0.01 sec)

mysql>
```