

**DEVIKA.B**

**Roll no:22**

## Cycle 4 – TCL Commands

**1: Create a Table 'Order\_Details' with the given data and perform the following operations**

Order_ID	Product_Name	Order_Num	Order_Date
1	Laptop	5544	2020-02-01
2	Mouse	3322	2020-02-11
3	Desktop	2135	2020-01-05
4	Mobile	3432	2020-02-22
5	Anti-Virus	5648	2020-03-10

```
mysql> Create table Order_Details (Order_ID INT,Product_Name VARCHAR(255),Order_Num INT,Order_Date Date);
Query OK, 0 rows affected (0.68 sec)
```

```
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> INSERT INTO Order_Details VALUES(1,'Laptop',5544,2020-02-01);
ERROR 1292 (22007): Incorrect date value: '2017' for column 'Order_Date' at row 1
mysql> INSERT INTO Order_Details VALUES(1,'Laptop',5544,'2020-02-01');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO Order_Details VALUES(2,'Mouse',3322,'2020-02-11');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO Order_Details VALUES(3,'Desktop',2135,'2020-01-05');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO Order_Details VALUES(4,'Mobile',3432,'2020-02-22');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO Order_Details VALUES(5,'Antivirus',5648,'2020-03-10');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> COMMIT;
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> SELECT * FROM Order_Details;
+-----+-----+-----+-----+
| Order_ID | Product_Name | Order_Num | Order_Date |
+-----+-----+-----+-----+
| 1 | Laptop | 5544 | 2020-02-01 |
| 2 | Mouse | 3322 | 2020-02-11 |
| 3 | Desktop | 2135 | 2020-01-05 |
| 4 | Mobile | 3432 | 2020-02-22 |
| 5 | Antivirus | 5648 | 2020-03-10 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

**a) Start a new transaction and insert 2 rows into the table Order\_Details.**

```
START TRANSACTION;
```

```
INSERT INTO Order_Details VALUES (6, 'Keyboard', 4500, '2020-02-13');
```

```
INSERT INTO Order_Details VALUES (7, 'Webcam', 4500, '2020-02-13');
```

```
mysql> START TRANSACTION;  
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> INSERT INTO Order_Details VALUES (6,'Keyboard',4500,'2020-02-13');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO Order_Details VALUES (6,'Webcam',4500,'2020-02-13');  
Query OK, 1 row affected (0.00 sec)
```

**b) Display the details of Order\_Details.**

```
SELECT * FROM Order_Details;
```

```
mysql> SELECT * FROM Order_Details;
```

Order_ID	Product_Name	Order_Num	Order_Date
1	Laptop	5544	2020-02-01
2	Mouse	3322	2020-02-11
3	Desktop	2135	2020-01-05
4	Mobile	3432	2020-02-22
5	Antivirus	5648	2020-03-10
6	Keyboard	4500	2020-02-13
6	Webcam	4500	2020-02-13

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

```
mysql>
```

```
mysql> Update Order_Details Set Order_ID=7 Where Product_Name='Webcam';
```

```
Query OK, 1 row affected (0.00 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> SELECT * FROM Order_Details;
```

Order_ID	Product_Name	Order_Num	Order_Date
1	Laptop	5544	2020-02-01
2	Mouse	3322	2020-02-11
3	Desktop	2135	2020-01-05
4	Mobile	3432	2020-02-22
5	Antivirus	5648	2020-03-10
6	Keyboard	4500	2020-02-13
7	Webcam	4500	2020-02-13

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

**c) Rollback the current transaction and check the contents of the table Order\_Details.**

```
ROLLBACK;  
SELECT * FROM Order_Details;
```

```
mysql> ROLLBACK TO Check_delete;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> SELECT * FROM Order_Details;  
+-----+-----+-----+-----+  
| Order_ID | Product_Name | Order_Num | Order_Date |  
+-----+-----+-----+-----+  
|      3 | Desktop      |      2135 | 2020-01-05 |  
|      4 | Mobile       |      3432 | 2020-02-22 |  
|      5 | Antivirus    |      5648 | 2020-03-10 |  
|      6 | Keyboard     |      4500 | 2020-02-13 |  
|      7 | Webcam       |      4500 | 2020-02-13 |  
+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

```
mysql> ROLLBACK;  
Query OK, 0 rows affected (0.04 sec)  
  
mysql> SELECT * FROM Order_Details;  
+-----+-----+-----+-----+  
| Order_ID | Product_Name | Order_Num | Order_Date |  
+-----+-----+-----+-----+  
|      1 | Laptop       |      5544 | 2020-02-01 |  
|      2 | Mouse        |      3322 | 2020-02-11 |  
|      3 | Desktop      |      2135 | 2020-01-05 |  
|      4 | Mobile       |      3432 | 2020-02-22 |  
|      5 | Antivirus    |      5648 | 2020-03-10 |  
+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

**d) Start a new transaction and delete 2 rows from the table Order\_Details.**

```
START TRANSACTION;
```

```
DELETE FROM Order_Details WHERE Order_ID = 1 OR Order_ID = 2;
```

```
mysql> START TRANSACTION;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> DELETE FROM Order_Details WHERE Order_ID = 1 OR Order_ID = 2;  
Query OK, 2 rows affected (0.00 sec)
```

**e) Display the details of Order\_Details.**

```
SELECT * FROM Order_Details;
```

```
mysql> SELECT * FROM Order_Details;
+-----+-----+-----+-----+
| Order_ID | Product_Name | Order_Num | Order_Date |
+-----+-----+-----+-----+
|      3   | Desktop      |      2135 | 2020-01-05 |
|      4   | Mobile       |      3432 | 2020-02-22 |
|      5   | Antivirus    |      5648 | 2020-03-10 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

**f) Commit the current transaction and check the details of the table Order\_Details.**

```
COMMIT;
SELECT * FROM Order_Details;
```

```
mysql> COMMIT;
Query OK, 0 rows affected (0.05 sec)

mysql> SELECT * FROM Order_Details;
+-----+-----+-----+-----+
| Order_ID | Product_Name | Order_Num | Order_Date |
+-----+-----+-----+-----+
|      3   | Desktop      |      2135 | 2020-01-05 |
|      4   | Mobile       |      3432 | 2020-02-22 |
|      5   | Antivirus    |      5648 | 2020-03-10 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

**g) Disable autocommit and create a savepoint named Check\_Updates.**

```
SET autocommit = 0;
SAVEPOINT Check_Updates;
```

```
mysql> SET autocommit = 0;
Query OK, 0 rows affected (0.00 sec)

mysql> SAVEPOINT Check_Updates;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> show variables like 'autocommit';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| autocommit    | OFF   |
+-----+-----+
1 row in set (0.00 sec)
```

## h) Update details of the order with Order\_Num 5544.

```
UPDATE Order_Details  
SET Product_Name = 'Gaming Laptop', Order_Date = '2020-02-15'  
WHERE Order_Num = 5544;
```

```
mysql> UPDATE Order_Details  
-> SET Product_Name = 'Gaming Laptop', Order_Date = '2020-02-15'  
-> WHERE Order_Num = 5544;  
Query OK, 0 rows affected (0.00 sec)  
Rows matched: 0 Changed: 0 Warnings: 0
```

## i) Insert 2 more rows into the table.

```
INSERT INTO Order_Details VALUES (6, 'Keyboard', 4500, '2020-02-13');  
INSERT INTO Order_Details VALUES (7, 'Webcam', 4500, '2020-02-13');
```

```
mysql> INSERT INTO Order_Details VALUES (6, 'Keyboard', 4500, '2020-02-13');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> INSERT INTO Order_Details VALUES (7, 'Webcam', 4500, '2020-02-13');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> select * from Order_Details;  
+-----+-----+-----+-----+  
| Order_ID | Product_Name | Order_Num | Order_Date |  
+-----+-----+-----+-----+  
| 3 | Desktop | 2135 | 2020-01-05 |  
| 4 | Mobile | 3432 | 2020-02-22 |  
| 5 | Antivirus | 5648 | 2020-03-10 |  
| 6 | Keyboard | 4500 | 2020-02-13 |  
| 7 | Webcam | 4500 | 2020-02-13 |  
+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

## j) Create a savepoint named Check\_delete.

```
SAVEPOINT Check_delete;
```

```
mysql> SAVEPOINT Check_delete;  
Query OK, 0 rows affected (0.00 sec)
```

## k) Delete order details of a product named Laptop.

```
DELETE FROM Order_Details WHERE Product_Name = 'Gaming Laptop';
```

```
mysql> DELETE FROM Order_Details WHERE Product_Name = 'Gaming Laptop';  
Query OK, 0 rows affected (0.00 sec)
```

**l) Display the current details of the table Order\_Details.**

```
SELECT * FROM Order_Details;
```

```
mysql> select * from Order_Details;
+-----+-----+-----+-----+
| Order_ID | Product_Name | Order_Num | Order_Date |
+-----+-----+-----+-----+
|      3 | Desktop      |      2135 | 2020-01-05 |
|      4 | Mobile       |      3432 | 2020-02-22 |
|      5 | Antivirus    |      5648 | 2020-03-10 |
|      6 | Keyboard     |      4500 | 2020-02-13 |
|      7 | Webcam       |      4500 | 2020-02-13 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

**m) Rollback to savepoint Check\_delete and check the details of the table.**

```
ROLLBACK TO Check_delete;
SELECT * FROM Order_Details;
```

```
mysql> ROLLBACK TO Check_delete;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM Order_Details;
+-----+-----+-----+-----+
| Order_ID | Product_Name | Order_Num | Order_Date |
+-----+-----+-----+-----+
|      3 | Desktop      |      2135 | 2020-01-05 |
|      4 | Mobile       |      3432 | 2020-02-22 |
|      5 | Antivirus    |      5648 | 2020-03-10 |
|      6 | Keyboard     |      4500 | 2020-02-13 |
|      7 | Webcam       |      4500 | 2020-02-13 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

**n) Rollback to savepoint Check\_Updates and check the details of the table.**

```
ROLLBACK TO Check_Updates;  
SELECT * FROM Order_Details;
```

```
mysql> ROLLBACK TO Check_Updates;  
Query OK, 0 rows affected (0.02 sec)  
  
mysql> SELECT * FROM Order_Details;  
+-----+-----+-----+-----+  
| Order_ID | Product_Name | Order_Num | Order_Date |  
+-----+-----+-----+-----+  
|      3 | Desktop      |      2135 | 2020-01-05 |  
|      4 | Mobile       |      3432 | 2020-02-22 |  
|      5 | Antivirus    |      5648 | 2020-03-10 |  
+-----+-----+-----+-----+  
3 rows in set (0.01 sec)
```

**o) Commit the changes and enable autocommit.**

```
COMMIT;  
SET autocommit = 1;
```

```
mysql> COMMIT;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> SET autocommit = 1;  
Query OK, 0 rows affected (0.00 sec)  
  
mysql> show variables like 'autocommit';  
+-----+-----+  
| Variable_name | Value |  
+-----+-----+  
| autocommit    | ON    |  
+-----+-----+  
1 row in set (0.01 sec)
```