

Labcycle 4

Experiment No: 6

AIM : Familiarisation of 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

- Start a new transaction and insert 2 rows into the table Order_Details.
- Display the details of Order_Details.
- Rollback the current transaction and check the contents of the table Order_Details.
- Start a new transaction and delete 2 rows from the table Order_Details.
- Display the details of Order_Details.
- Commit the current transaction and check the details of the table Order_Details.
- Disable autocommit and create a savepoint named 'Check_Updates'.
- Update details of the order with Order_Num 5544.
- Insert 2 more rows into the table.
- Create a savepoint named 'Check_delete'
- Delete order details of a product named 'Laptop'.
- Display the current details of the table Order_Details.
- Rollback to savepoint 'Check_delete' and check the details of the table Order_Details.
- Rollback to savepoint 'Check_Updates' and check the details of the table Order_Details.
- Commit the changes and enable autocommit.

a) START TRANSACTION;

```
INSERT INTO order_details (order_id, product_name, order_num, order_date)
VALUES (6, 'Headphones', 1234, '2020-03-12'),(7, 'Keyboard', 5678, '2020-03-15');
```

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

b)

```
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 | Anti-Virus | 5648 | 2020-03-10 |
| 6 | Headphones | 1234 | 2020-03-12 |
| 7 | Keyboard | 5678 | 2020-03-15 |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

c) ROLLBACK;

```
mysql> ROLLBACK;
Query OK, 0 rows affected (0.02 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 | Anti-Virus | 5648 | 2020-03-10 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

d) START TRANSACTION;

DELETE FROM order_details where order_id in(6,7);

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

mysql> DELETE FROM order_details where order_id in(6,7);
Query OK, 0 rows affected (0.00 sec)
```

e)

```
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  | Anti-Virus   |      5648 | 2020-03-10 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

f) COMMIT;

```
mysql> COMMIT;
Query OK, 0 rows affected (0.00 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  | Anti-Virus   |      5648 | 2020-03-10 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

g) 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)
```

h) UPDATE Order_Details SET product_name = 'Gaming Laptop', order_date = '2020-02-20'
WHERE order_num = 5544;

```
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 | Gaming Laptop | 5544 | 2020-02-20 |
| 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 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

i) INSERT INTO order_details (order_id, product_name, order_num, order_date) VALUES (8, 'Monitor', 9999, '2020-04-01'),(9, 'Mousepad', 8888, '2020-04-02');

```
Query OK, 2 rows affected (0.00 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> select * from order_details;
+-----+-----+-----+-----+
| order_id | product_name | order_num | order_date |
+-----+-----+-----+-----+
| 1 | Gaming Laptop | 5544 | 2020-02-20 |
| 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 |
| 8 | Monitor | 9999 | 2020-04-01 |
| 9 | Mousepad | 8888 | 2020-04-02 |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

j) SAVEPOINT Check_delete;

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

k) DELETE FROM order_details WHERE product_name = 'Gaming Laptop';

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

l)

```
mysql> select * from order_details;
+-----+-----+-----+-----+
| order_id | product_name | order_num | order_date |
+-----+-----+-----+-----+
|      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 |
|      8 | Monitor     |      9999 | 2020-04-01 |
|      9 | Mousepad    |      8888 | 2020-04-02 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

m) ROLLBACK TO SAVEPOINT Check_delete;

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

mysql> select * from order_details;
+-----+-----+-----+-----+
| order_id | product_name | order_num | order_date |
+-----+-----+-----+-----+
|      1 | Gaming Laptop |      5544 | 2020-02-20 |
|      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 |
|      8 | Monitor     |      9999 | 2020-04-01 |
|      9 | Mousepad    |      8888 | 2020-04-02 |
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

n) ROLLBACK TO SAVEPOINT Check_Updates;

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

```
mysql> select * from order_details;
```

order_id	product_name	order_num	order_date
1	Gaming Laptop	5544	2020-02-20
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
8	Monitor	9999	2020-04-01
9	Mousepad	8888	2020-04-02

7 rows in set (0.00 sec)

o) COMMIT;

SET AUTOCOMMIT = 1;

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

```
mysql> select * from order_details;
```

order_id	product_name	order_num	order_date
1	Gaming Laptop	5544	2020-02-20
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
8	Monitor	9999	2020-04-01
9	Mousepad	8888	2020-04-02

7 rows in set (0.00 sec)