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

- a) Start a new transaction and insert 2 rows into the table Order_Details.
- b) Display the details of Order_Details.
- c) Rollback the current transaction and check the contents of the table Order_Details.
- d) Start a new transaction and delete 2 rows from the table Order_Details.
- e) Display the details of Order Details.
- f) Commit the current transaction and check the details of the table Order Details.
- g) Disable autocommit and create a savepoint named 'Check_Updates'.
- h) Update details of the order with Order Num 5544.
- i) Insert 2 more rows into the table.
- i) Create a savepoint named 'Check delete'
- k) Delete order details of a product named 'Laptop'.
- l) Display the current details of the table Order_Details.
- m) Rollback to savepoint 'Check_delete' and check the details of the table Order_Details.
- n) Rollback to savepoint 'Check_Updates' and check the details of the table Order_Details.
- o) 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)

```
mysql> select * from order details;
 order id | product name | order num | order date
                                        2020-02-01
         1 | Laptop
                                 5544
        2 | Mouse
                                3322 l
                                       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
            Mobile
                                 3432 | 2020-02-22
         4
         5 | Anti-Virus
                                 5648 I
                                       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)
```

```
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
                                        2020-02-22
                                 3432
         5 I
            Anti-Virus
                                 5648 I
                                        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 l
                                         2020-02-01
         2 | Mouse
                                 3322 I
                                         2020-02-11
         3 | Desktop
                                 2135 I
                                         2020-01-05
            Mobile
                                         2020-02-22
         4 |
                                 3432
             Anti-Virus
                                 5648 I
                                         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
                                        2020-02-11
                                 3322 I
         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
                                        2020-02-11
                                 3322
        3 | Desktop
                                 2135 | 2020-01-05
                                       2020-02-22
        4
            Mobile
                                 3432
        5 | Anti-Virus
                                 5648 | 2020-03-10
                                 9999
                                        2020-04-01
        8
            Monitor
        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)
```

1)

```
mysql> select * from order details;
 order id | product name | order num | order date
         2 | Mouse
                                        2020-02-11
                                 3322 I
         3
             Desktop
                                 2135
                                        2020-01-05
            Mobile
                                        2020-02-22
         4
                                 3432
                                 5648
         5
             Anti-Virus
                                        2020-03-10
         8
            Monitor
                                        2020-04-01
                                 9999
            Mousepad
                                        2020-04-02
                                 8888
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
                                        2020-01-05
                                  2135 I
         4 | Mobile
                                  3432 I
                                         2020-02-22
         5 | Anti-Virus
                                  5648 I
                                        2020-03-10
            Monitor
                                        2020-04-01
         8
                                  9999
         9
            Mousepad
                                  8888
                                         2020-04-02
 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 I
                                        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 l
                                        2020-02-20
         2 | Mouse
                                 3322 | 2020-02-11
         3 | Desktop
                                 2135 | 2020-01-05
         4 | Mobile
                                 3432 | 2020-02-22
            Anti-Virus
         5 I
                                 5648 | 2020-03-10
                                 9999 | 2020-04-01
         8 | Monitor
         9 | Mousepad
                                 8888 | 2020-04-02
7 rows in set (0.00 sec)
```