

Experiment No: 9

Title :

Study and Implementation of Database Backup & Recovery Commands. □
Study and Implementation of Rollback, Commit, Save point.

Objective:

To understand the concept of administrative commands

LAB PRACTICE ASSIGNMENT:

```
mysql> SELECT * FROM faculty;
+-----+-----+-----+-----+-----+-----+-----+
| Ser_no | Sname   | Lname   | Salary | Job_id | Degree | Ph_no   |
+-----+-----+-----+-----+-----+-----+-----+
| 1      | Rakesh  | Sen     | 23000  | 3543   | MTech  | 73327828 |
| 2      | Arghya  | Banerjee | 230    | 3544   | Phd    | 7675643  |
| 3      | Snehasish | Mondal  | 230000 | 3545   | Phd    | 767575758 |
| 4      | Raj     | Mondal  | 260000 | 3945   | Phd    | 9090956  |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

1. Write a query to implement the save point.

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

mysql> DELETE FROM faculty WHERE Sname='Rakesh';
Query OK, 1 row affected (0.00 sec)

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

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

mysql> COMMIT;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM faculty;
+-----+-----+-----+-----+-----+-----+-----+
| Ser_no | Sname   | Lname   | Salary | Job_id | Degree | Ph_no   |
+-----+-----+-----+-----+-----+-----+-----+
| 2      | Arghya  | Banerjee | 230    | 3544   | Phd    | 7675643  |
| 3      | Snehasish | Mondal  | 230000 | 3545   | Phd    | 767575758 |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

2. Write a query to implement the rollback.

```
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.01 sec)

mysql> DELETE FROM faculty WHERE Sname='Raj';
Query OK, 1 row affected (0.00 sec)

mysql> ROLLBACK;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM faculty;
+-----+-----+-----+-----+-----+-----+-----+
| Ser_no | Sname   | Lname   | Salary | Job_id | Degree | Ph_no   |
+-----+-----+-----+-----+-----+-----+-----+
| 1      | Rakesh  | Sen     | 23000  | 3543   | MTech  | 73327828 |
| 2      | Arghya  | Banerjee | 230    | 3544   | Phd    | 7675643  |
| 3      | Snehasish | Mondal  | 230000 | 3545   | Phd    | 767575758 |
| 4      | Raj     | Mondal  | 260000 | 3945   | Phd    | 9090956  |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

3. Write a query to implement the commit;

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

mysql> DELETE FROM faculty WHERE Sname='Raj';
Query OK, 1 row affected (0.00 sec)

mysql> COMMIT;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM faculty;
+-----+-----+-----+-----+-----+-----+-----+
| Ser_no | Sname   | Lname   | Salary | Job_id | Degree | Ph_no   |
+-----+-----+-----+-----+-----+-----+-----+
| 1      | Rakesh  | Sen     | 23000  | 3543   | MTech  | 73327828 |
| 2      | Arghya  | Banerjee | 230    | 3544   | Phd    | 7675643  |
| 3      | Snehasish | Mondal  | 230000 | 3545   | Phd    | 767575758 |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```