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 2 3	Rakesh Arghya Snehasish Raj	Sen Banerjee Mondal Mondal	23000 230 230000 260000	3543 3544 3545 3945	MTech Phd Phd Phd	73327828 7675643 767575758 9090956
4 rows in set (θ.θθ 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;
                                | Salary | Job_id | Degree | Ph_no
 Ser_no |
          Sname
                       Lname
                                              3544
                                                     Phd
                                                                7675643
       2
          Arghya
                       Banerjee
                                     230
                      Mondal
                                  230000
                                              3545
                                                     Phd
                                                              767575758
          Snehasish |
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
           Arghya
                       Banerjee
                                              3544
       2 |
                                      230
                                                     Phd
                                                                7675643
                       Mondal
                                   230000
                                              3545
                                                     Phd
                                                               767575758
       3
          Snehasish
                       Mondal
       4 | Raj
                                   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
                                 | Salary | Job_id | Degree |
                                                               Ph_no
                      l Lname
                                    23000
                                              3543
                                                     MTech
                                                                73327828
           Rakesh
                        Sen
       2 |
3 |
                                              3544
                                                                 7675643
           Arghya
                        Banerjee
                                      230
                                                     Phd
                                                               767575758
           Snehasish |
                        Mondal
                                   230000
                                              3545
                                                     Phd
3 rows in set (0.00 sec)
```