Ex:No:	12
Date:	

TCL COMMANADS

Aim:

To learn how to use various TCL commands Commit, Rollback and Savepoint SQL commands

Syntax:

ROLLBACK TO savepoint_name;

SAVEPOINT command

SAVEPOINT command is used to temporarily save a transaction so that you can rollback to that point whenever required.

Syntax:

SAVEPOINT savepoint_name\\;

Problem 1:

Rollback to that state using the ROLLBACK command whenever required. Create a following table Class and insert values into it in the order and create savepoints in between them. Try to rollback t the save point and check your output by giving select commands.

Let us use some SQL queries on the above table and see the results.

INSERTINTO class VALUES(5,'Rahul');
COMMIT;
UPDATE class SET name ='Abhijit' WHERE id ='5';
SAVEPOINT A;
INSERTINTO class VALUES(6,'Chris');
SAVEPOINT B;

SAVEPOINT C;

The resultant table will look like,

Now let's use the ROLLBACK command to roll back the state of data to the savepoint B.

ROLLBACKTO B;

SELECT*FROM class;

Now our class table will look like,

Now let's again use the ROLLBACK command to roll back the state of data to the savepoint A

ROLLBACKTO A;

SELECT*FROM class;

Now the table will look like,

Queries:

```
nysql> create table clss(name varchar(10),id int(5));
Query OK, 0 rows affected (0.19 sec)
mysql> insert into clss values("dj",5);
Query OK, 1 row affected (0.00 sec)
nysql> commit;
Query OK, 0 rows affected (0.04 sec)
nysql» update class set name="bravo" where id="5";
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
nysql> savepoint A;
Query OK, 0 rows affected (0.00 sec)
wysql> insert into clss values("uppal",6);
Query OK, 1 row affected (0.00 sec)
nysql> savepoint B;
Query OK, 0 rows affected (0.00 sec)
mysql> insert into clss values("balu",7);
Query OK, 1 row affected (0.00 sec)
nysql> savepoint C;
Query OK, 0 rows affected (0.00 sec)
 nysql> select * from clss;
 name | id |
wysql> ROLLBACK TO B;
Query OK, 0 rows affected (0.00 sec)
mysql> select * from clss;
 name | 1d |
  rows in set (0.00 sec)
wysql> ROLLBACK TO A;
Query OK, 0 rows affected (0.00 sec)
mysql> select * from clss;
name | id |
 dj | 5 |
l row in set (0.00 sec)
```

Result:

So now we know how the commands COMMIT, ROLLBACK and SAVEPOINT works.