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CHN18CS005
S5C-03
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SQL-LAB EXP.5

Question

- a. Create a table class. Fields are name and id
- b. Insert values into the table
- c. Display the table
- d. Apply commit, save point and rollback commands

CODE

```
CREATE TABLE CLASS(  
    `id` INT PRIMARY KEY NOT NULL,  
    `name` VARCHAR(30) NOT NULL);  
  
INSERT INTO CLASS(`id`, `name`)  
VALUES (1, 'Abin');  
SELECT*FROM CLASS;  
SELECT*FROM CLASS;  
START TRANSACTION;  
UPDATE CLASS SET name='ABHI' WHERE id= 1;  
SAVEPOINT A;  
ROLLBACK TO A;  
SELECT*FROM CLASS;  
INSERT INTO CLASS VALUES (2, 'roy');  
SAVEPOINT B;  
ROLLBACK TO B;  
SELECT*FROM CLASS;  
INSERT INTO CLASS VALUES (3, 'CHRISTIANO');  
SAVEPOINT C;  
ROLLBACK TO C;  
SELECT*FROM CLASS;  
INSERT INTO CLASS VALUES (4, 'suraj');  
SAVEPOINT D;  
ROLLBACK TO D;
```

```
SELECT*FROM CLASS;
INSERT INTO CLASS VALUES (5, 'Tom');
SAVEPOINT E;
SELECT*FROM CLASS;
ROLLBACK TO E;
COMMIT;
```

Output

```
MySQL 8.0 Command Line Client
mysql> INSERT INTO CLASS(`id`, `name`)
-> VALUES (1, 'Abin');
'> SELECT*FROM CLASS;
'> SELECT*FROM CLASS;
'> START TRANSACTION;
'> UPDATE CLASS SET name='ABHI' WHERE id= 1;
'> SAVEPOINT A;
'> ROLLBACK TO A;
'> SELECT*FROM CLASS;
'> INSERT INTO CLASS VALUES (2, 'roy');
'> SAVEPOINT B;
'> ROLLBACK TO B;
'> SELECT*FROM CLASS;
'> INSERT INTO CLASS VALUES (3, 'CHRISTIANO');
'> SAVEPOINT C;
'> ROLLBACK TO C;
'> SELECT*FROM CLASS;
'> INSERT INTO CLASS VALUES (4, 'suraj');
'> SAVEPOINT D;
'> ROLLBACK TO D;
'> SELECT*FROM CLASS;
'> INSERT INTO CLASS VALUES (5, 'Tom');
'> SAVEPOINT E;
'> SELECT*FROM CLASS;
'> ROLLBACK TO E;
'> COMMIT;
'> CREATE TABLE CLASS(
'> `id` INT PRIMARY KEY NOT NULL,
'> `name` VARCHAR(30) NOT NULL);
'>
'> INSERT INTO CLASS(`id`, `name`)
'> VALUES (1, 'Abin');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '?Abin');
SELECT*FROM CLASS;
SELECT*FROM CLASS;
START TRANSACTION;
UPDATE CLASS S' at line 2
mysql> SELECT*FROM CLASS;
Empty set (0.00 sec)

mysql> SELECT*FROM CLASS;
Empty set (0.00 sec)

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

mysql> UPDATE CLASS SET name='ABHI' WHERE id= 1;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

```
MySQL 8.0 Command Line Client
mysql> UPDATE CLASS SET name='ABHI' WHERE id= 1;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0

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

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

mysql> SELECT*FROM CLASS;
Empty set (0.00 sec)

mysql> INSERT INTO CLASS VALUES (2, 'roy');
Query OK, 1 row affected (0.00 sec)

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

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

mysql> SELECT*FROM CLASS;
+-----+
| id | name |
+-----+
| 2 | roy? |
+-----+
1 row in set (0.00 sec)

mysql> INSERT INTO CLASS VALUES (3, 'CHRISTIANO');
Query OK, 1 row affected (0.00 sec)

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

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

mysql> SELECT*FROM CLASS;
+-----+
| id | name |
+-----+
| 2 | roy? |
| 3 | CHRISTIANO |
+-----+
2 rows in set (0.00 sec)

mysql> INSERT INTO CLASS VALUES (4, 'suraj');
Query OK, 1 row affected (0.00 sec)
```

```
MySQL 8.0 Command Line Client
mysql> INSERT INTO CLASS VALUES (4, 'suraj');
Query OK, 1 row affected (0.00 sec)

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

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

mysql> SELECT*FROM CLASS;
+-----+
| id | name |
+-----+
| 2 | roy? |
| 3 | CHRISTIANO |
| 4 | suraj |
+-----+
3 rows in set (0.00 sec)

mysql> INSERT INTO CLASS VALUES (5, 'Tom');
Query OK, 1 row affected (0.00 sec)

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

mysql> SELECT*FROM CLASS;
+-----+
| id | name |
+-----+
| 2 | roy? |
| 3 | CHRISTIANO |
| 4 | suraj |
| 5 | Tom |
+-----+
4 rows in set (0.00 sec)

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

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

mysql>
```