

Application Software Development Lab (ASDL)

Github : [ceccs18c59/cs331:Application Software Development Lab \(github.com\)](https://github.com/ceccs18c59/cs331:Application%20Software%20Development%20Lab)

Experiment 5

SQL Query

```
USE cs333;

-- a) create a table class. Fields are name & id--
CREATE TABLE class (
    name VARCHAR(15),
    id CHAR(5)
);

-- b) Insert values into the table --
INSERT INTO class VALUES ('Wayne' , 1),
('Ryan' , 2),
('Edwin' , 3);

-- c) Display the table --
SELECT * FROM class;

-- d) Apply commit, savepoint and rollback commands --
START TRANSACTION;

INSERT INTO class VALUES
('Paul', '4'),('David', '5');
SAVEPOINT A;

INSERT INTO class VALUES
('John', '6'),('Roy', '7');
SAVEPOINT B;

ROLLBACK TO A;
COMMIT;

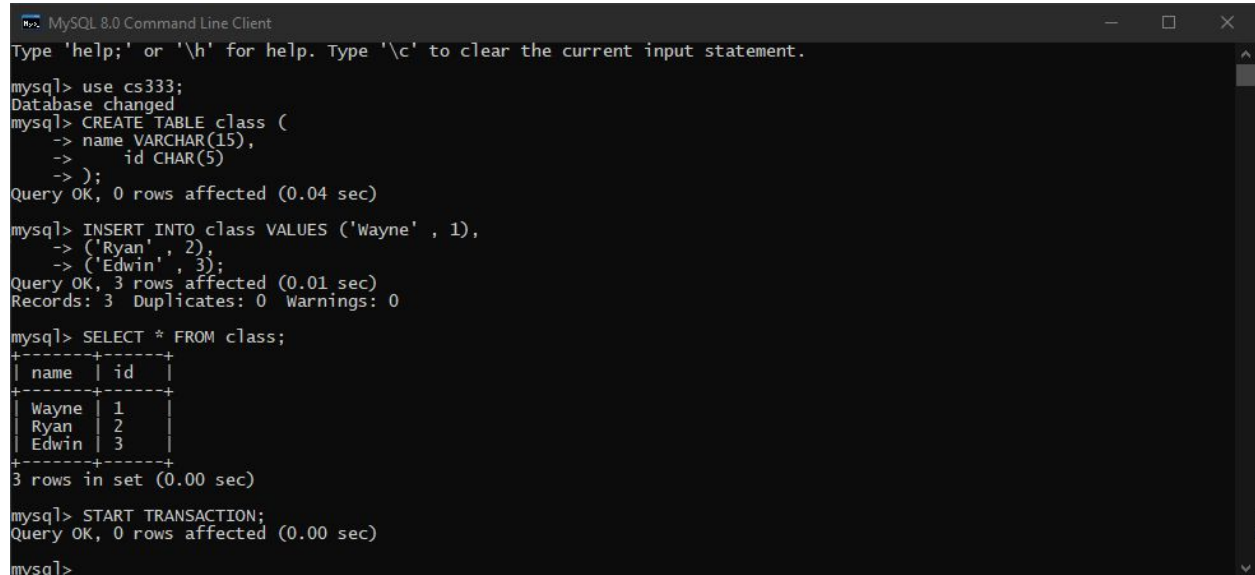
START TRANSACTION;
SAVEPOINT C;

INSERT INTO class VALUES('Gary', '8');
```

```
ROLLBACK TO C;
```

```
SELECT * FROM class;
```

Result



```
MySQL 8.0 Command Line Client
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

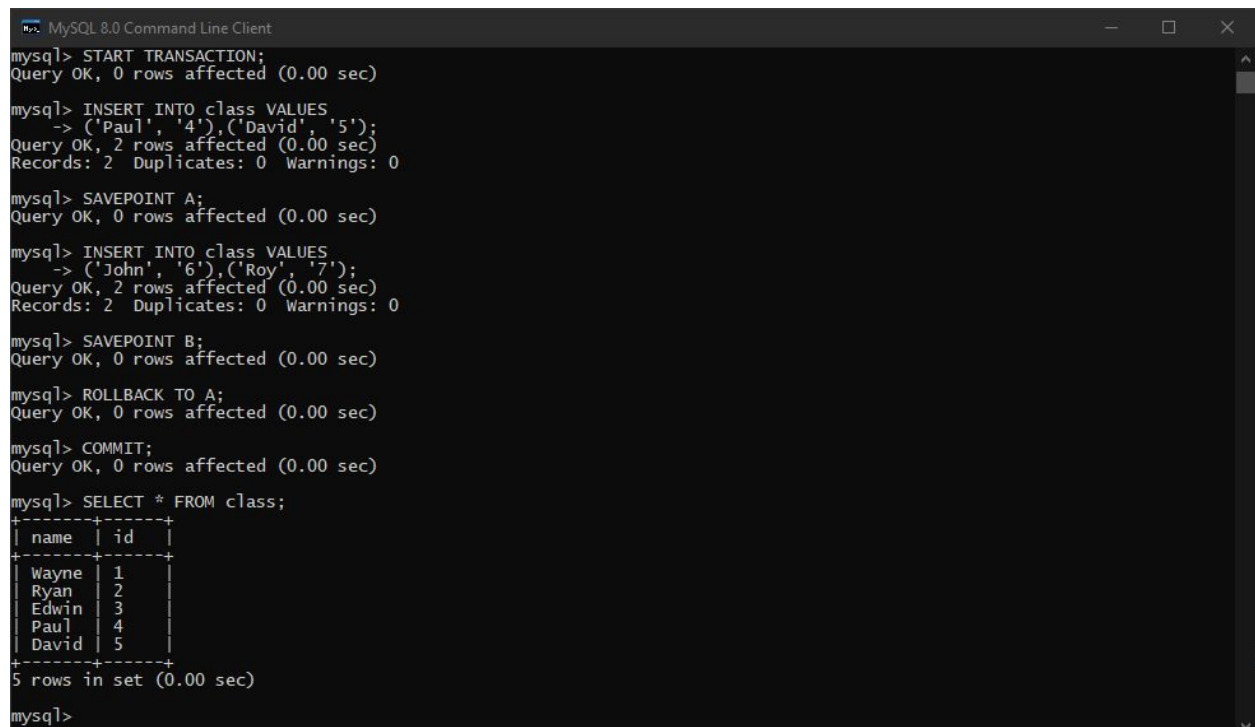
mysql> use cs333;
Database changed
mysql> CREATE TABLE class (
  -> name VARCHAR(15),
  -> id CHAR(5)
  -> );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO class VALUES ('Wayne' , 1),
  -> ('Ryan' , 2),
  -> ('Edwin' , 3);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM class;
+----+-----+
| name | id   |
+----+-----+
| Wayne | 1    |
| Ryan  | 2    |
| Edwin | 3    |
+----+-----+
3 rows in set (0.00 sec)

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

mysql>
```



```
MySQL 8.0 Command Line Client

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

mysql> INSERT INTO class VALUES
  -> ('Paul', '4'), ('David', '5');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

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

mysql> INSERT INTO class VALUES
  -> ('John', '6'), ('Roy', '7');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

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

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

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

mysql> SELECT * FROM class;
+----+-----+
| name | id   |
+----+-----+
| Wayne | 1    |
| Ryan  | 2    |
| Edwin | 3    |
| Paul  | 4    |
| David | 5    |
+----+-----+
5 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)

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

mysql> INSERT INTO class VALUES('Gary', '8');
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM class;
+----+-----+
| name | id |
+----+-----+
| Wayne | 1 |
| Ryan | 2 |
| Edwin | 3 |
| Paul | 4 |
| David | 5 |
| Gary | 8 |
+----+-----+
6 rows in set (0.00 sec)

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

mysql> SELECT * FROM class;
+----+-----+
| name | id |
+----+-----+
| Wayne | 1 |
| Ryan | 2 |
| Edwin | 3 |
| Paul | 4 |
| David | 5 |
+----+-----+
5 rows in set (0.00 sec)

mysql>
```