

10 MySQL Queries

1 . To Create Database Having Name 'TEST'

```
mysql> CREATE DATABASE TEST;  
Query OK, 1 row affected (0.00 sec)
```

Query : **CREATE DATABASE TEST;**

2. Show tables in database

```
mysql> show databases  
-> ;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| bank |  
| mysql |  
| performance_schema |  
| sys |  
| test |  
+-----+  
6 rows in set (0.00 sec)
```

Query : **SHOW DATABASES;**

3. Create Table in database created

```
mysql> USE TEST  
Database changed  
mysql> CREATE TABLE TEST_TT(SR_NO INT(10) NOT NULL UNIQUE,NAME VARCHAR(100) DEFAULT 'NOT GIVEN',STD INT(100) NOT NULL);  
Query OK, 0 rows affected (0.01 sec)
```

Query : **CREATE TABLE TEST_TT(SR_NO INT(10) NOT NULL UNIQUE,NAME VAR(100) DEFAULT 'NOT GIVEN',STD INT(100) NOT NULL);**

4. To get description of table

```
mysql> DESC TEST_TT;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| SR_NO | int(10)   | NO   | PRI | NULL    |       |  
| NAME  | varchar(100) | YES  |     | NOT GIVEN |       |  
| STD   | int(100)   | NO   |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

Query : **DESC TEST_TT** or **DESCRIBE TEST_TT**

5. To insert values in table

```
mysql> INSERT INTO TEST_TT(SR_NO,NAME,STD) VALUES(1,'JAYDEEP',12);  
Query OK, 1 row affected (0.01 sec)
```

Query : **INSERT INTO TEST_TT(SR_NO,NAME,STD) VALUES(1,'JAYDEEP',12);**

6. Getting all values from a table

```
mysql> SELECT * FROM TEST_TT;  
+-----+-----+-----+  
| SR_NO | NAME   | STD |  
+-----+-----+-----+  
| 1     | JAYDEEP | 12 |  
+-----+-----+-----+  
1 row in set (0.00 sec)
```

Query : **SELECT * FROM TEST_TT;**

7. Getting specific values from table using where clause

```
mysql> SELECT * FROM TEST_TT;  
+-----+-----+-----+  
| SR_NO | NAME   | STD |  
+-----+-----+-----+  
| 1     | JAYDEEP | 12 |  
| 2     |        | 1  |  
| 3     | Ani    | 11 |  
| 4     | Aniket | 111 |  
| 5     | An     | 1311 |  
| 12    | NOT GIVEN | 1 |  
+-----+-----+-----+  
6 rows in set (0.00 sec)
```

```
mysql> SELECT NAME,STD FROM TEST_TT WHERE SR_NO>2;  
+-----+-----+  
| NAME   | STD |  
+-----+-----+  
| Ani    | 11 |  
| Aniket | 111 |  
| An     | 1311 |  
| NOT GIVEN | 1 |  
+-----+-----+  
4 rows in set (0.00 sec)
```

Query : **SELECT NAME,STD FROM TEST_TT WHERE SR_NO>2;**

8. Deleting a column from table using Alter Command

```
mysql> ALTER TABLE TEST_TT DROP COLUMN STD
-> ;
Query OK, 6 rows affected (0.03 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM TEST_TT;
+-----+-----+
| SR_NO | NAME |
+-----+-----+
| 1     | JAYDEEP |
| 2     |      |
| 3     | Ani |
| 4     | Aniket |
| 5     | An |
| 12    | NOT GIVEN |
+-----+-----+
6 rows in set (0.02 sec)
```

```
mysql> DESC TEST_TT
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| SR_NO | int(10)       | NO   | PRI | NULL    |       |
| NAME  | varchar(100)  | YES  |     | NOT GIVEN |      |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Query : **ALTER TABLE TEST_TT DROP COLUMN STD;**

9. Adding a column in table using Alter Command

```
mysql> ALTER TABLE TEST_TT ADD STD VARCHAR(100) DEFAULT '-';
Query OK, 6 rows affected (0.03 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM TEST_TT;
+-----+-----+-----+
| SR_NO | NAME    | STD |
+-----+-----+-----+
| 1     | JAYDEEP | -   |
| 2     |      | -   |
| 3     | Ani | -   |
| 4     | Aniket | -   |
| 5     | An | -   |
| 12    | NOT GIVEN | -   |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> DESC TEST_TT;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| SR_NO | int(10)       | NO   | PRI | NULL    |       |
| NAME  | varchar(100)  | YES  |     | NOT GIVEN |      |
| STD   | varchar(100)  | YES  |     | -        |      |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Query : **ALTER TABLE TEST_TT ADD STD VARCHAR(100) DEFAULT '-';**

10. Dropping whole database

```
mysql> DROP DATABASE TEST;
Query OK, 1 row affected (0.03 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| bank          |
| mysql         |
| performance_schema |
| sys           |
+-----+
5 rows in set (0.01 sec)
```

Query : **DROP DATABASE TEST;**

10 Python MySQL Connectivity Programs

1. Creating database

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password=""
)
mycursor = mydb.cursor()
mycursor.execute("CREATE DATABASE mydb_test")
```

Output :

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| bank       |
| mydb_test  |
| mysql      |
| performance_schema |
| sys        |
+-----+
6 rows in set (0.00 sec)
```

Database created by running above command

2. Creating Table

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
mycursor.execute("CREATE TABLE test_tt (name VARCHAR(255) DEFAULT '-', address VARCHAR(255))")
```

Output :

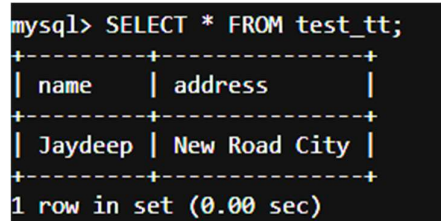
```
mysql> USE mydb_test
Database changed
mysql> SHOW TABLES;
+-----+
| Tables_in_mydb_test |
+-----+
| test_tt              |
+-----+
1 row in set (0.00 sec)

mysql> DESC test_tt;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(255) | YES  |     | -        |       |
| address | varchar(255) | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

3. Inserting Values

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
q = "INSERT INTO test_tt (name, address) VALUES (%s, %s)"
val = ("Jaydeep", "New Road City")
mycursor.execute(q, val)
mydb.commit()
print(mycursor.rowcount, "record inserted.")
```

Output:



```
mysql> SELECT * FROM test_tt;
+-----+-----+
| name   | address      |
+-----+-----+
| Jaydeep | New Road City |
+-----+-----+
1 record inserted. 1 row in set (0.00 sec)
```

4. Selecting Values from table

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
mycursor.execute("SELECT * FROM test_tt")
myresult = mycursor.fetchall()
for x in myresult:
    print(x)
```

Output :

```
('Jaydeep', 'New Road City')
PS C:\Users\JaySs\Desktop\Class 12 20 Python Program>
```

5. Using where clause for selecting specific data

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
q = "SELECT * FROM test_tt WHERE address = 'New City'"
mycursor.execute(q)
myresult = mycursor.fetchall()
if len(myresult) == 0:
    print("There is no such value !")
else:
    for x in myresult:
        print(x)
```

Output :

```
py"
There is no such value !
PS C:\Users\JaySs\Desktop\Class 12 20 Python Program> █
```

6. Deleting Records from table

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
q = "DELETE FROM test_tt WHERE address = 'New Road City'"
mycursor.execute(q)
mydb.commit()
print(mycursor.rowcount, "record(s) deleted")
```

Output :

```
PS C:\Users\JaySs\Desktop\Class 12 20 Python Program> & "
1 record(s) deleted
PS C:\Users\JaySs\Desktop\Class 12 20 Python Program> █
```

```
mysql> SELECT * FROM test_tt;
+-----+-----+
| name  | address |
+-----+-----+
| Jaydeep | New Road City |
+-----+-----+
1 row in set (0.00 sec)

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

7. Dropping Table from Database

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
q = "DROP TABLE test_tt"
mycursor.execute(q)
```

Output:

```
mysql> SHOW TABLES;
+-----+
| Tables_in_mydb_test |
+-----+
| test_tt              |
+-----+
1 row in set (0.00 sec)

mysql> SHOW TABLES;
Empty set (0.00 sec)
```

8. Updating values in table

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
q = "UPDATE test_tt SET address = 'No - Add' WHERE address = 'New Road City'"
mycursor.execute(q)
mydb.commit()
print(mycursor.rowcount, "record(s) affected")
```

es.py"
1 record(s) affected
PS C:\Users\JaySs\Desktop\Class 12 20 Python Program>

```
mysql> SELECT * FROM test_tt;
+-----+-----+
| name   | address |
+-----+-----+
| Jaydeep | New Road City |
+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT * FROM test_tt;
+-----+-----+
| name   | address |
+-----+-----+
| Jaydeep | No - Add |
+-----+-----+
1 row in set (0.00 sec)
```


9. Adding Column using alter command

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test"
)
mycursor = mydb.cursor()
q = "ALTER TABLE test_tt ADD Phone VARCHAR(100) DEFAULT '-'"
mycursor.execute(q)
mydb.commit()
```

Output :

```
mysql> DESC test_tt;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(255)  | YES  |     | -        |       |
| address | varchar(255)  | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> DESC test_tt;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(255)  | YES  |     | -        |       |
| address | varchar(255)  | YES  |     | NULL     |       |
| Phone | varchar(100)  | YES  |     | -        |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

10. Deleting Column Using Alter Command

```
import mysql.connector
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="mydb_test")
mycursor = mydb.cursor()
q = "ALTER TABLE test_tt DROP COLUMN Phone"
mycursor.execute(q)
mydb.commit()
```

Output :

```
mysql> DESC test_tt;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(255)  | YES  |     | -        |       |
| address | varchar(255)  | YES  |     | NULL     |       |
| Phone | varchar(100)  | YES  |     | -        |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> DESC test_tt;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(255)  | YES  |     | -        |       |
| address | varchar(255)  | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```