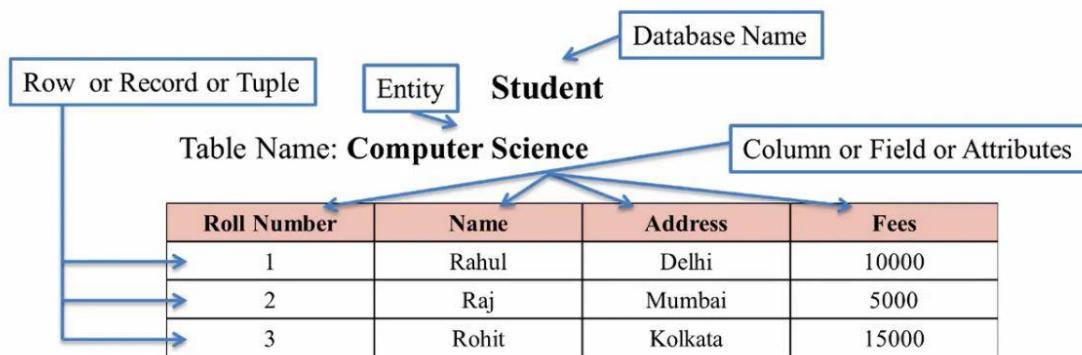


Getting Started MySQL with Python

Database

Database is integrated collection of related information along with the details so that it is available to the several user for the different application.



Python Supports various Databases

- MySQL
- MS-SQL
- SQLite
- MongoDB
- Oracle OCI8
- PostgreSQL
- Firebird
- MS Access

Getting Started MySQL with Python

Creating Connection

connect() – This method is used to open or establish a new connection. It returns an object representing the connection.

Syntax: -

```
connection_object = connect(user='username', password='pass' host='localhost',  
port=3306);
```

eg: -

```
import mysql.connector  
conn = mysql.connector.connect(user='root', password='root' host='localhost',  
port=3306)
```

Creating connection using Dictionary

```
import mysql.connector  
config = {  
    'user': 'root',  
    'password': 'root'  
    'host' : 'localhost',  
    'port': 3307  
}  
conn = mysql.connector.connect(**config)
```

Getting Started MySQL with Python

Check Connection

is_connected() – This method is used to check if the connection to MySQL is established or not. It returns True if the connection is established successfully.

Syntax:- connection_object.is_connected()

eg:-

```
import mysql.connector
conn = mysql.connector.connect(user='root', password='root',
host='localhost')
print(conn.is_connected())
```

Connection Code

```
1 # Creating Connection
2 import mysql.connector
3
4 config = {
5     'user': 'root',
6     'password': 'root' ,
7     'host': 'localhost',
8     'port':3306
9 }
10 try:
11     conn = mysql.connector.connect(**config)
12     if(conn.is_connected()):
13         print('Connected')
14 except:
15     print('Unable to Connect')
```

Getting Started MySQL with Python

Closing a connection

```
14 print('Before Close:', conn.is_connected())
15 conn.close()
16 print('After Close:', conn.is_connected())
```

cursor() Method

This method is used to create cursor class object.

We need cursor object so we can call execute() method.

Syntax:- cursor_object = connection_object.cursor()

Arguments may be passed to the cursor() method to control what type of cursor to create:

- If *buffered* is *True*, the cursor fetches all rows from the server after an operation is executed. This is useful when queries return small result sets. *buffered* can be used alone, or in combination with the *dictionary* or *named_tuple* argument.
- If *dictionary* is *True*, the cursor returns rows as dictionaries.
- If *named_tuple* is *True*, the cursor returns rows as named tuples.
- If *prepared* is *True*, the cursor is used for executing prepared statements.

Getting Started MySQL with Python

cursor() Method

- if *raw* is *True*, the cursor skips the conversion from MySQL data types to Python types when fetching rows. A raw cursor is usually used to get better performance or when you want to do the conversion yourself.
- The *cursor_class* argument can be used to pass a class to use for instantiating a new cursor. It must be a subclass of `cursor.CursorBase`.

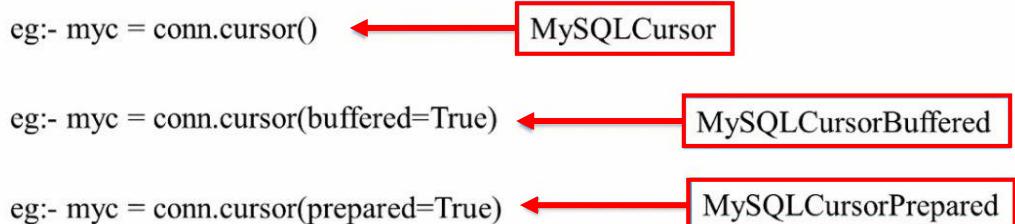
The returned object depends on the combination of the arguments. Examples:

- If not buffered and not raw: `MySQLCursor`
- If buffered and not raw: `MySQLCursorBuffered`
- If not buffered and raw: `MySQLCursorRaw`
- If buffered and raw: `MySQLCursorBufferedRaw`

cursor() Method

The returned object depends on the combination of the arguments. Examples:

- If not buffered and not raw: `MySQLCursor`
- If buffered and not raw: `MySQLCursorBuffered`
- If not buffered and raw: `MySQLCursorRaw`
- If buffered and raw: `MySQLCursorBufferedRaw`



Getting Started MySQL with Python

execute() Method

This method is used to execute given SQL queries.

We need cursor object so we can call execute() method.

Syntax:- cursor_object.execute(sql, param=None, multi=False)

Sql – It is sql query.

Param – The parameters found in the tuple or dictionary params are bound to the variables in the operation.

Multi – execute() returns an iterator if multi is True.

eg:-

```
myc = conn.cursor()  
myc.execute('SELECT * FROM student')
```

```
sql ='SELECT * FROM student'  
myc = conn.cursor()  
myc.execute(sql)
```

Close Cursor

close () method closes the cursor, resets all results, and ensures that the cursor object has no reference to its original connection object.

Syntax:- cursor_object.close()

eg:- myc.close()

Getting Started MySQL with Python

**Now Remind all previous step and let's
dive in with Muhammad Hashim 😊**

Step #1: Create Database!

```
3 try:
4     conn = mysql.connector.connect(
5         user='root',
6         password='root',
7         host='localhost',
8         port=3306
9     )
10    if(conn.is_connected()):
11        print('Connected')
12 except:
13     print('Unable to Connect')
14
15 sql = 'CREATE DATABASE pdb'
16 myc = conn.cursor()
17 myc.execute(sql)
18
19 myc.close()
20 conn.close()
```

Step #2: Now connect to Database and create a Table!

```
4 conn = mysql.connector.connect(
5     user='root',
6     password='root',
7     host='localhost',
8     database='pdb',
9     port=3306
10    )
11    if(conn.is_connected()):
12        print('Connected')
13 except:
14     print('Unable to Connect')
15 sql = 'CREATE TABLE student1(stuid INT AUTO_INCREMENT PRIMARY KEY, name
16 VARCHAR(20), roll INT, fees FLOAT)'
17 myc = conn.cursor()
18 myc.execute(sql)
19 myc.close()
20 conn.close()
```

Muhammad Hashim

Getting Started MySQL with Python

Step #3: Now Show Tables!

```
sql = 'SHOW TABLES'
myc = conn.cursor()
myc.execute(sql)
for t in myc:
    print(t)
myc.close()
conn.close()
```

commit() Method

This method is used to save inserted row in the table. It is required to make the changes, otherwise no changes are made to the table.

This method sends a COMMIT statement to the MySQL server, committing the current transaction. Since by default Connector/Python does not autocommit, it is important to call this method after every transaction that modifies data for tables that use transactional storage engines.

Syntax:- connection_object.commit()

eg:- conn.commit()

Getting Started MySQL with Python

rollback() Method

This method is used to un-save row, if there is an error.

This method sends a ROLLBACK statement to the MySQL server, undoing all data changes from the current transaction. By default, Connector/Python does not autocommit, so it is possible to cancel transactions when using transactional storage engines such as InnoDB.

Syntax:- connection_object.rollback()

eg:- conn.rollback()

try:

```
myc.execute(sql)
conn.commit()
```

except:

```
conn.rollback()
```

Insert Records

```
7 |         host='localhost',
8 |         database='pdb',
9 |         port=3306
10|     )
11|     if(conn.is_connected()):
12|         print('Connected')
13except:
14    print('Unable to Connect')
15sql = 'INSERT INTO student(name, roll, fees) VALUES("Sumit", 101, 10000.52)'
16myc = conn.cursor()
17myc.execute(sql)
18conn.commit()
19
20myc.close()
21conn.close()
```

Getting Started MySQL with Python

rowcount Property

This read-only property returns the number of rows returned for SELECT statements, or the number of rows affected by DML statements such as INSERT or UPDATE.

Syntax:- cursor_object.rowcount

eg:- myc.rowcount

Row count Property

```
host='localhost',
database='pdb',
port=3306
)
if(conn.is_connected()):
    print('Connected')
except:
    print('Unable to Connect')
sql = 'INSERT INTO student(name, roll, fees) VALUES("Jyoti", 107, 70000.2),
("Aman", 108, 8000.4), ("Raj", 109, 45654)'
myc = conn.cursor()
try:
    myc.execute(sql)
    conn.commit()
    print(myc.rowcount, 'Row Inserted')
except:
    conn.rollback()
    print('Unable to Insert Data')

myc.close()
```

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Getting Started MySQL with Python

lastrowid Property

This read-only property returns the value generated for an AUTO_INCREMENT column by the previous INSERT or UPDATE statement or None when there is no such value available.

If you perform an INSERT into a table that contains an AUTO_INCREMENT column, lastrowid returns the AUTO_INCREMENT value for the new row.

If you insert multiple rows into a table using a single INSERT statement, the lastrowid property contains the last insert id of the first row.

Syntax:- cursor_object.lastrowid

eg:- myc.lastrowid

```
if (conn.is_connected()):
    print('Connected')
except:
    print('Unable to Connect')

sql = 'INSERT INTO student(name, age)
myc = conn.cursor()
try:
    myc.execute(sql)
    conn.commit()          # Commit changes
    print(myc.lastrowid)

except:
    conn.rollback()        # Rollback if there is any error
    print('Unable to Insert Data')
myc.close()           # Close Cursor
conn.close()           # Close Connection
```

Getting Started MySQL with Python

Delete Record

```
    port=3306
)
if (conn.is_connected()):
    print('Connected')
except:
    print('Unable to Connect')

sql = 'DELETE FROM student WHERE stuid=55'
myc = conn.cursor()
try:
    myc.execute(sql)
    conn.commit()          # Committing the change
    print(myc.rowcount, 'Row Inserted')
except:
    conn.rollback()        # Rollback the change

myc.close()      # Close Cursor
conn.close()      # Close Connection
```

Update Record

```
9   port=3306
10 )
11 if (conn.is_connected()):
12     print('Connected')
13 except:
14     print('Unable to Connect')
15
16 sql = 'UPDATE student SET fees=200 WHERE stuid=56'
17 myc = conn.cursor()
18 try:
19     myc.execute(sql)
20     conn.commit()          # Committing the change
21     print(myc.rowcount, 'Row Deleted')
22 except:
23     conn.rollback()        # Rollback the change
24     print('Unable to Delete Data')
25 myc.close()      # Close Cursor
26 conn.close()      # Close Connection
27
```

Getting Started MySQL with Python

fetchone() Method

This method retrieves the next row of a query result set and returns a single sequence, or None if no more rows are available. By default, the returned tuple consists of data returned by the MySQL server, converted to Python objects. If the cursor is a raw cursor, no such conversion occurs.

You must fetch all rows for the current query before executing new statements using the same connection.

Syntax:- `row = cursor_object.fetchone()`

eg:- `row = myc.fetchone()`

```
    print('Connected')
except:
    print('Unable to Connect')

sql = 'SELECT * FROM student'
myc = conn.cursor()
try:
    myc.execute(sql)
    row = myc.fetchone()
    while row is not None:
        print(row)
        row = myc.fetchone()
    print('Total Rows:', myc.rowcount)
except:
    conn.rollback()      # Rollback the change
    print('Unable to Show Data')
myc.close()      # Close Cursor
conn.close()      # Close Connection
```

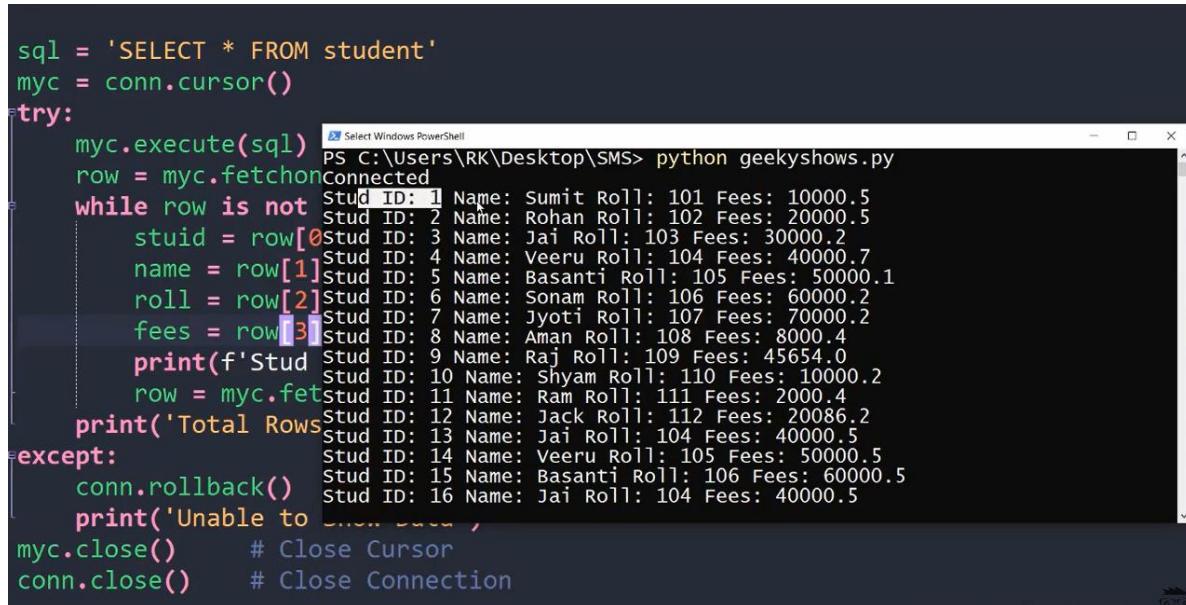
Getting Started MySQL with Python

```
12     print('Connected')
13 except:
14     print('Unable to Connect')
15
16 sql = 'SELECT * FROM student'
17 myc = conn.cursor()
18 try:
19     myc.execute(sql)
20     row = myc.fetchone()
21     while row is not None:
22         print(row)
23         row = myc.fetchone()
24     print('Total Rows:', myc.rowcount)
25 except:
26     conn.rollback()
27     print('Unable to Show Data')
28 myc.close()      # Close Cursor
29 conn.close()    # Close Connection
30
```

Fetch using format string

```
sql = 'SELECT * FROM student'
myc = conn.cursor()
try:
    myc.execute(sql)
    row = myc.fetchone()
    while row is not None:
        stuid = row[0]
        name = row[1]
        roll = row[2]
        fees = row[3]
        print(f'Stud ID: {stuid} Name: {name} Roll: {roll} Fees: {fees}')
        row = myc.fetchone()
    print('Total Rows:', myc.rowcount)
except:
    conn.rollback()      # Rollback the change
    print('Unable to Show Data')
myc.close()      # Close Cursor
conn.close()    # Close Connection
```

Getting Started MySQL with Python



```
sql = 'SELECT * FROM student'
myc = conn.cursor()
try:
    myc.execute(sql)
    row = myc.fetchall()
    while row is not None:
        stuid = row[0]
        name = row[1]
        roll = row[2]
        fees = row[3]
        print(f'Stud ID: {stuid} Name: {name} Roll: {roll} Fees: {fees}')
        row = myc.fetchone()
    print('Total Rows:', len(row))
except:
    conn.rollback()
    print('Unable to view data')
myc.close()      # Close Cursor
conn.close()     # Close Connection
```

The screenshot shows a Windows PowerShell window with the title "Select Windows PowerShell". The command run is "PS C:\Users\RK\Desktop\SMS> python geekyshows.py". The output displays 16 rows of data from a MySQL table named "student". Each row contains Stud ID, Name, Roll, and Fees. The data is as follows:

Stud ID	Name	Roll	Fees
1	Sumit	101	10000.5
2	Rohan	102	20000.5
3	Jai	103	30000.2
4	Veeru	104	40000.7
5	Basanti	105	50000.1
6	Sonam	106	60000.2
7	Jyoti	107	70000.2
8	Aman	108	8000.4
9	Raj	109	45654.0
10	Shyam	110	10000.2
11	Ram	111	2000.4
12	Jack	112	20086.2
13	Jai	104	40000.5
14	Veeru	105	50000.5
15	Basanti	106	60000.5
16	Jai	104	40000.5

fetchall() Method

This method fetches all (or all remaining) rows of a query result set and returns a list of tuples. If no more rows are available, it returns an empty list.

You must fetch all rows for the current query before executing new statements using the same connection.

Syntax:- `rows = cursor_object.fetchall()`

eg:- `rows = myc.fetchall()`

Getting Started MySQL with Python

```
        )
    if (conn.is_connected()):
        print('Connected')
except:
    print('Unable to Connect')

sql = 'SELECT * FROM student'
myc = conn.cursor()
try:
    myc.execute(sql)
    rows = myc.fetchall()
    for r in rows:
        print(r)

    print('Total Rows:', myc.rowcount)
except:
    conn.rollback()      # Rollback the change
    print('Unable to Show Data')
myc.close()      # Close Cursor
conn.close()      # Close Connection
```

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fetchmany() Method

This method fetches the next set of rows of a query result and returns a list of tuples. If no more rows are available, it returns an empty list.

The number of rows returned can be specified using the size argument, which defaults to one. Fewer rows are returned if fewer rows are available than specified.

You must fetch all rows for the current query before executing new statements using the same connection.

Syntax:- `rows = cursor_object.fetchmany(size=1)`

eg:- `rows = myc.fetchmany(3)`

Getting Started MySQL with Python

```
16 sql = 'SELECT * FROM student'
17 myc = conn.cursor(buffered=True)
18 try:
19     myc.execute(sql)
20     rows = myc.fetchmany(size=5)
21     for r in rows:
22         stuid = r[0]
23         name = r[1]
24         roll = r[2]
25         fees = r[3]
26         print(f'Student ID: {stuid} Name: {name} Roll: {roll} Fees:{fees}')
27
28     print('Total Rows:', myc.rowcount)
29 except:
30     conn.rollback()      # Rollback the change
31     print('Unable to Show Data')
32 myc.close()          # Close Cursor
33 conn.close()          # Close Connection
```

fetchmany() with Where

```
8      database='pdb',
9      port=3306
10 )
11 if (conn.is_connected()):
12     print('Connected')
13 except:
14     print('Unable to Connect')
15
16 sql = 'SELECT * FROM student WHERE stuid=4'
17 myc = conn.cursor()
18 try:
19     myc.execute(sql)
20     row = myc.fetchone()
21     print(row)
22     print(myc.rowcount)
23
24 except:
25     conn.rollback()      # Rollback the change
26     print('Unable to Show Data')
27 myc.close()          # Close Cursor
```

Getting Started MySQL with Python

Parameterized Query

A parameterized query is a query which can use the format or pyformat parameterization style for parameters and the parameter values supplied at execution.

These executed with MySQLCursor can use the %s and %(key)s format style.

%s is used as format style in the sql queries, while using tuple parameters.

%(key)s is used as format style in the sql queries, while using dictionary parameters.

```
myc = conn.cursor()
```

Tuple Parameters

```
sql = 'INSERT INTO student(name, roll, fees) VALUES(%s, %s, %s)'  
myc = conn.cursor()  
myc.execute(sql, ("Rohan", 111, 60000.50))
```

```
sql = 'INSERT INTO student(name, roll, fees) VALUES(%s, %s, %s)'  
myc = conn.cursor()  
params = ("Rohan", 111, 60000.50)  
myc.execute(sql, params)
```

Getting Started MySQL with Python

Dictionary Parameters

```
sql = 'INSERT INTO student(name, roll, fees) VALUES(%(name)s, %(roll)s,  
%(fees)s)'  
myc = conn.cursor()  
myc.execute(sql, {'name':'Kajal', 'roll':777, 'fees': 54100})
```

```
sql = 'INSERT INTO student(name, roll, fees) VALUES(%(name)s, %(roll)s,  
%(fees)s)'  
myc = conn.cursor()  
params = {'name':'Kajal', 'roll':777, 'fees': 54100}  
myc.execute(sql, params)
```

Using tuple

```
        )  
    if (conn.is_connected()):  
        print('Connected')  
except:  
    print('Unable to Connect')  
  
sql = 'INSERT INTO student(name, roll, fees) VALUES(%s, %s, %s)'  
myc = conn.cursor()  
params = ("Rahul", 102, 50000.50)  
try:  
    myc.execute(sql, params)  
    conn.commit()          # Committing the change  
    print(myc.rowcount, 'Row Inserted')      # Number of Row Inserted  
    print(f'Stu ID: {myc.lastrowid} Inserted') # Last inserted ID  
except:  
    conn.rollback()        # Rollback the change  
    print('Unable to Insert Data')  
myc.close()      # Close Cursor  
conn.close()      # Close Connection
```

Getting Started MySQL with Python

Insert multiple Data

```
10 |     )
11 |     if(conn.is_connected()):
12 |         print('Connected')
13 except:
14     print('Unable to Connect')
15 sql = 'INSERT INTO student(name, roll, fees) VALUES("Jai", 103, 30000.2),
16 ("Veeru", 104, 40000.7), ("Basanti", 105, 50000.1)'
17 myc = conn.cursor()
18 try:
19     myc.execute(sql)
20     conn.commit()
21     print('Row Inserted')
22 except:
23     conn.rollback()
24     print('Unable to Insert Data')
25 myc.close()
26 conn.close()
27
```

executemany() Method

This method is used to prepare given SQL query and executes it against all parameter sequences or mappings found in the sequence seq_of_params.

With the executemany() method, it is not possible to specify multiple statements to execute in the sql argument.

Syntax:- cursor_object.executemany(sql, seq_of_params)

sql – It is sql query

seq_of_params – It is a list of tuples, containing the data to insert.

Getting Started MySQL with Python

```
9     port=3306
10    )
11    if (conn.is_connected()):
12        print('Connected')
13 except:
14     print('Unable to Connect')
15
16 sql = 'INSERT INTO student(name, roll, fees) VALUES(%s, %s, %s)'
17 myc = conn.cursor()
18 seq_of_params = [("Jai", 104, 40000.50), ("Veeru", 105, 50000.50), ("Basanti",
19 106, 60000.50)]
20 try:
21     myc.executemany(sql, seq_of_params)
22     conn.commit()          # Committing the change
23     print(myc.rowcount, 'Row Inserted')      # Number of Row Inserted
24 except:
25     conn.rollback()        # Rollback the change
26     print('Unable to Insert Data')
27 myc.close()           # Close Cursor
28 conn.close()           # Close Connection
```

Input from user and pass as a object

```
1     if (conn.is_connected()):
2         print('Connected')
3 except:
4     print('Unable to Connect')
5
6 sql = 'INSERT INTO student(name, roll, fees) VALUES(%s, %s, %s)'
7 myc = conn.cursor()
# Input from user
8 nm = input('Enter Name: ')
9 ro = int(input('Enter Roll: '))
10 fe = float(input('Enter Fees: '))
11 params = (nm, ro, fe)
12 try:
13     myc.execute(sql, params)
14     conn.commit()          # Committing the change
15     print(myc.rowcount, 'Row Inserted')      # Number of Row Inserted
16     print(f'Stu ID: {myc.lastrowid} Inserted') # Last inserted ID
17 except:
18     conn.rollback()        # Rollback the change
19     print('Unable to Insert Data')
```

Muhammad Hashim

Getting Started MySQL with Python

Function example in student Data

```
1 # Insert Single Row - Input from User - Tuple
2 import mysql.connector
3 def student_data(n, r, f):
4     try:
5         conn= mysql.connector.connect(
6             user='root',
7             password 'root' ,
8             host='localhost',
9             database='pdb',
10            port=3306
11        )
12        if (conn.is_connected()):
13            print('Connected')
14    except:
15        print('Unable to Connect')
16
17    sql = 'INSERT INTO student(name, roll, fees) VALUES(%s, %s, %s)'
18    myc = conn.cursor()
19    params = (nm, ro, fe)
20    trv:
```

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```
25     except:
26         conn.rollback()      # Rollback the change
27         print('Unable to Insert Data')
28     myc.close()          # Close Cursor
29     conn.close()         # Close Connection
30
31 while True:
32     # Input from user
33     nm = input('Enter Name: ')
34     ro = int(input('Enter Roll: '))
35     fe = float(input('Enter Fees: '))
36     def student_data(nm, ro, fe)
37     ans = input('Do You want to exit?(y/n)')
38     if(ans == 'y'):
39         break
40
```

Insert data using parameterized dictionary

Muhammad Hashim

Getting Started MySQL with Python

```
10     )
11     if (conn.is_connected()):
12         print('Connected')
13 except:
14     print('Unable to Connect')
15
16 sql = 'INSERT INTO student(name, roll, fees) VALUES(%(n)s, %(r)s, %(f)s)'
17 myc = conn.cursor()
18 try:
19     myc.execute(sql, {'n':'Sameer', 'r':777, 'f':54100})
20     conn.commit()          # Committing the change
21     print(myc.rowcount, 'Row Inserted')      # Number of Row Inserted
22     print(f'Stu ID: {myc.lastrowid} Inserted') # Last inserted ID
23 except:
24     conn.rollback()        # Rollback the change
25     print('Unable to Insert Data')
26 myc.close()           # Close Cursor
27 conn.close()           # Close Connection
28
```

Insert multiple data using parameterized dictionary

```
if (conn.is_connected()):
    print('Connected')
except:
    print('Unable to Connect')

sql = 'INSERT INTO student(name, roll, fees) VALUES(%(name)s, %(roll)s,
%(fees)s)'
myc = conn.cursor()
params = [                                     # List of Dictionaries
    {'name':'Ajay', 'roll':124, 'fees': 5426.23},
    {'name':'Rani', 'roll':845, 'fees': 845621.23},
    {'name':'Rohit', 'roll':659, 'fees': 47426.23} ]
try:
    myc.execute(sql, params)
    conn.commit()          # Committing the change
    print(myc.rowcount, 'Row Inserted')      # Number of Row Inserted
    print(f'Stu ID: {myc.lastrowid} Inserted') # Last inserted ID
except:
    conn.rollback()        # Rollback the change
    print('Unable to Insert Data')
```

Getting Started MySQL with Python

Input from user using parameterized dictionary

```
10     )
11     if (conn.is_connected()):
12         print('Connected')
13 except:
14     print('Unable to Connect')
15
16 sql = 'INSERT INTO student(name, roll, fees) VALUES(%(name)s, %(roll)s,
17 %(fees)s)'
17 myc = conn.cursor()
18 # Data Input from User
19 nm = input('Enter Name: ')
20 ro = int(input('Enter Roll: '))
21 fe = float(input('Enter Fees: '))
22
23 params = {'name':nm, 'roll':ro, 'fees':fe}
24
25 try:
26     myc.execute(sql, params)
27     conn.commit()          # Committing the change
28     print(myc.rowcount, 'Row Inserted')      # Number of Row Inserted
```

Function example in student Data

```
1 # Insert Multiple Rows - Input from User - Dictionary
2 import mysql.connector
3 def student_data(nm, ro, fe)
4     try:
5         conn= mysql.connector.connect(
6             user='root',
7             password='root',
8             host='localhost',
9             database='pdb',
10            port=3306
11         )
12         if (conn.is_connected()):
13             print('Connected')
14     except:
15         print('Unable to Connect')
16
17     sql = 'INSERT INTO student(name, roll, fees) VALUES(%(name)s, %(roll)s,
18 %(fees)s)'
18     myc = conn.cursor()
```

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```
16 |         ...
17 |     sql = 'INSERT INTO student(name, roll, fees) VALUES(%(name)s, %(roll)s,
18 |     %(fees)s)'
19 |     myc = conn.cursor()
20 | 
21 |     params = {'name':nm, 'roll':ro, 'fees':fe}
22 | 
23 |     try:
24 |         myc.execute(sql, params)
25 |         conn.commit()          # Committing the change
26 |         print(myc.rowcount, 'Row Inserted')      # Number of Row Inserted
27 |         print(f'Stu ID: {myc.lastrowid} Inserted') # Last inserted ID
28 |     except:
29 |         conn.rollback()        # Rollback the change
30 |         print('Unable to Insert Data')
31 |     myc.close()            # Close Cursor
32 |     conn.close()           # Close Connection
33 | 
34 | while True:
```

```
27 |     except:
28 |         conn.rollback()        # Rollback the change
29 |         print('Unable to Insert Data')
30 |     myc.close()            # Close Cursor
31 |     conn.close()           # Close Connection
32 | 
33 | while True:
34 |     # Data Input from User
35 |     nm = input('Enter Name: ')
36 |     ro = int(input('Enter Roll: '))
37 |     fe = float(input('Enter Fees: '))
38 |     student_data(nm, ro, fe)
39 |     ans = input('Do you want exit(y/n)?')
40 |     if(ans=='y'):
41 |         break
42 | 
```

Delete Record using tuple

Muhammad Hashim

Getting Started MySQL with Python

```
[+]:    port=3306
[+]:    )
[-]  if (conn.is_connected()):
[-]      print('Connected')
[-] except:
[-]     print('Unable to Connect')

sql = 'DELETE FROM student WHERE stuid=%s'
myc = conn.cursor()
del_value = (5,)
try:
    myc.execute(sql, del_value)
    conn.commit()          # Committing the change
    print(myc.rowcount, 'Row Deleted')
except:
    conn.rollback()        # Rollback the change
    print('Unable to Delete Data')
myc.close()           # Close Cursor
conn.close()           # Close Connection
```

Delete Record using dictionary

```
[+]:    port=3306
[+]:    )
[-]  if (conn.is_connected()):
[-]      print('Connected')
[-] except:
[-]     print('Unable to Connect')

sql = 'DELETE FROM student WHERE stuid=%(id)s'
myc = conn.cursor()
#n = int(input('Enter ID to Delete: '))
#del_value = (n,)
try:
    myc.execute(sql, {'id': 4})
    conn.commit()          # Committing the change
    print(myc.rowcount, 'Row Deleted')
except:
    conn.rollback()        # Rollback the change
    print('Unable to Delete Data')
myc.close()           # Close Cursor
conn.close()           # Close Connection
```