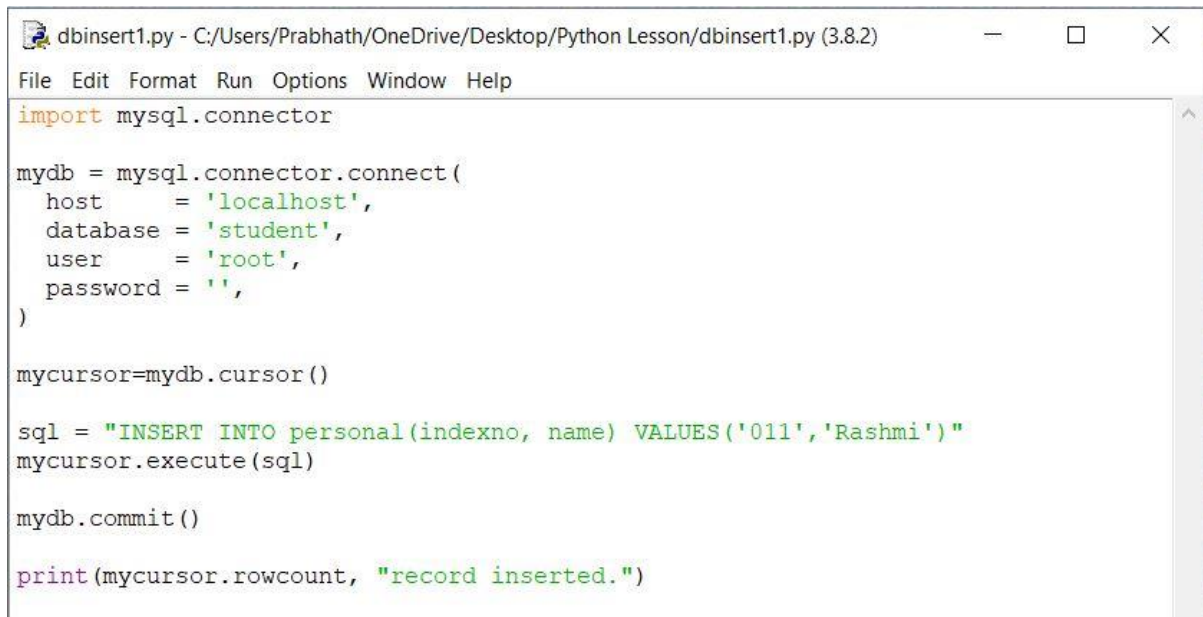


Python – Adding Records to MySQL Table

This module guides you how to issue a SQL INSERT INTO command from Python application to insert records to MySQL table.

To insert a record ('011', 'Rashmi') into table `personal`

Complete python code is given as below



```
dbinsert1.py - C:/Users/Prabhath/OneDrive/Desktop/Python Lesson/dbinsert1.py (3.8.2)
File Edit Format Run Options Window Help
import mysql.connector

mydb = mysql.connector.connect(
    host      = 'localhost',
    database = 'student',
    user      = 'root',
    password = '',
)

mycursor=mydb.cursor()

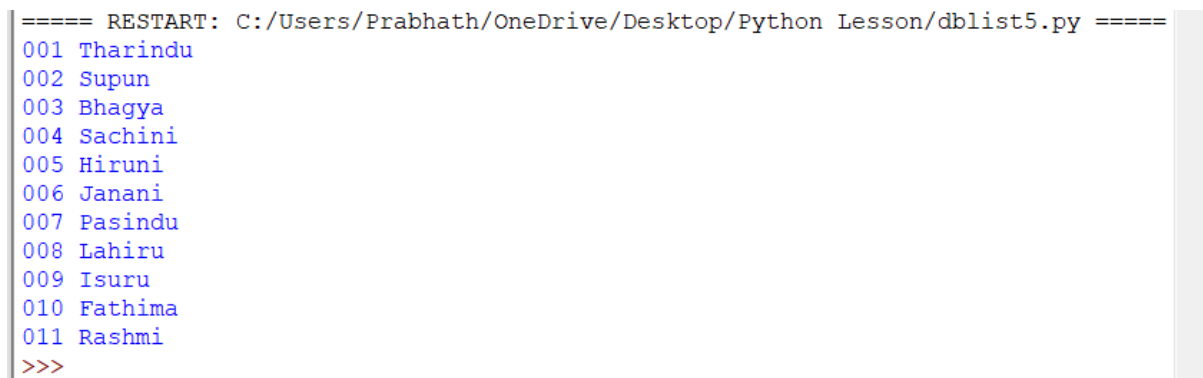
sql = "INSERT INTO personal(indexno, name) VALUES('011','Rashmi')"
mycursor.execute(sql)

mydb.commit()

print(mycursor.rowcount, "record inserted.")
```

Run the above program.

In a previous lesson, we written a code to display all records of the table. Now open that file `dblist5` and RUN it. Your output should like:



```
===== RESTART: C:/Users/Prabhath/OneDrive/Desktop/Python Lesson/dblist5.py =====
001 Tharindu
002 Supun
003 Bhagya
004 Sachini
005 Hiruni
006 Janani
007 Pasindu
008 Lahiru
009 Isuru
010 Fathima
011 Rashmi
>>> .
```

You may slightly change the coding from

```
sql = "INSERT INTO personal(indexno, name) VALUES('011','Rashmi')"  
mycursor.execute(sql)  
  
mydb.commit()
```

to

```
sql = "INSERT INTO personal(indexno, name) VALUES(%s, %s)"  
val = ('012', 'Gayan')  
mycursor.execute(sql, val)
```

and get the same result. Now you have 12 records.

Adding multiple records

Use **executemany()** method to add more than one records at a time. The second parameter to **executemany()** is a list of tuples containing your data you want to insert.

Replace the current **val** and **mycursor.execute()** lines

```
val = ('012', 'Gayan')  
mycursor.execute(sql, val)
```

with following **val** and **mycursor.executemany()** command

```
val = [  
    ('013', 'Thilini'),  
    ('014', 'Chathura'),  
    ('015', 'Samadhi'),  
    ('016', 'Amanda')  
]  
mycursor.executemany(sql, val)
```

and check your table records by running **dblist5** program.