

# Python - Work with MySQL database

## Create new table

- Level: Basic

In this example, we illustrate how Python can be used within MatDeck to work with MySQL database. First we will use MySQL Connector/Python to establish a connection to database with given name and after that we will create new table and print message on success.

## Create table using MySQL Connector

The task is to establish the connection to MySQL Database, to create a new table and to print message on successful creation.

```
UserVal := "test_user"
PassVal := "Test123"
HostVal := "localhost"
DatVal := "matdeck"
DVal := "mysql"
PortVal := 3306
```

Connection Parameters

## Code

```
1 #py
2 import mysql.connector as SQLCON
3
4 # Definition of the function NewTable
5 # When we make a call of function NewTable()
6 # it will create a new table 'Software'
7 def NewTable():
8
9     # Connecting to the server
10    conn = SQLCON.connect(user = 'test_user',
11                          password = 'Test123',
12                          host = 'localhost',
13                          database= 'matdeck')
14
15    # Preparing a cursor object
16    cursorObj=conn.cursor()
17
18    # Creating table Software which contains two columns
19    # Name and Number of data types varchar for string storing and Number
20    # of integer data type
21    cursorObj.execute("CREATE TABLE Software (Name VARCHAR(255), Number
22    int);")
23    print("Software Table is Created")
24    return()
25
26 # Calling NewTable() function
27 NewTable()
28 ###
```

# Output

C:\WINDOWS\system32\cmd.exe

```
C:\Users\Milos\Desktop\Python Examples\py_db3>python.exe  
Software Table is Created  
  
C:\Users\Milos\Desktop\Python Examples\py_db3>PAUSE  
Press any key to continue . . .
```