

Python - Work with MySQL database

Create new database

- 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 server instance and after that we will create new database and list all available databases.

Create database using MySQL Connector

The task is to establish the connection to MySQL Database instance, to create a new database and to list all available databases.

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

Connection Parameters

Code

```
1 #py
2 import mysql.connector
3
4 # Connecting to the server
5 conn = mysql.connector.connect(user = UserVal,
6                                 password = PassVal,
7                                 host = HostVal)
8
9 # Preparing a cursor object
10 cursorObj=conn.cursor()
11
12 # Creating database
13 cursorObj.execute("CREATE DATABASE matdeck1")
14
15 # List all available databases
16 databases=("SHOW DATABASES")
17 cursorObj.execute(databases)
18 for databases in cursorObj:
19     print(databases[0])
20
21 # Disconnecting from the server
22 conn.close()
23 ###
```

Output

C:\WINDOWS\system32\cmd.exe

```
C:\Users\Milos\Desktop\Python Examples\py_db2>python.exe  
information_schema  
matdeck  
matdeck1  
world
```

```
C:\Users\Milos\Desktop\Python Examples\py_db2>PAUSE  
Press any key to continue . . .
```