

Python - Work with SQLite database

Updating table data

- Level: Basic

We illustrate how Python can be used within MatDeck to work with SQLite databases. For beginners to avoid the frivolousness of installation, SQLite is installed with MatDeck. First we will use the sqlite3 library to establish a connection to the database with a given name and after that we will update some of the table data and print all of the table.

Updating the table data

The task is to establish a connection to the SQLite Database, update the Number value on rows which have the Name value as ThirdSoftware from the table called 'Software' and after that print the table data.

```
DatVal := "matdeck"
```

```
Connection Parameters
```

Code

```
1 #py
2 import sqlite3
3
4 # Connecting to the server
5 conn = sqlite3.connect('sqlite_database.db')
6 # Preparing a cursor object
7 cursorObj=conn.cursor()
8
9 # Updating the query and displaying the table data
10 cursorObj.execute("UPDATE Software SET Number = 628 WHERE Name =
11 'ThirdSoftware'")
12
13 # Selecting the query and displaying the table data
14 cursorObj.execute("SELECT * FROM Software")
15 records = cursorObj.fetchall()
16 for row in records:
17     print(row)
18
19 # Disconnecting from the server
20 conn.close()
21 ###
```

Output

C:\WINDOWS\system32\cmd.exe

```
C:\Users\Milos\Desktop\Python Examples\py_db7>python.exe
('NewSoftware', 157)
('NewSoftware', 157)
('ThirdSoftware', 628)
('MatDeck', 1)
('OtherSoftwares', 999)

C:\Users\Milos\Desktop\Python Examples\py_db7>PAUSE
Press any key to continue . . .
```