

MatDeck - Work with SQLite database

Updating table data

- Level: Basic

In this example, we will showcase how MatDeck can be used to work with SQLite databases. We will use the `db_connect()` function to establish a connection to the database, and the `db_query()` function to update and print the table data.

Updating the table data

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

```
DVal := "sqlite"
```

Connection Parameters

```
DatVal := "sqlite_database.db"
```

Query Strings

```
quVal := "UPDATE Software SET Number = 628 WHERE Name = 'ThirdSoftware'"
```

Connecting To Database

```
conn := db_connect(DVal, "Name", "", 0, "", "", DatVal)
```

Update Table Data

```
db_query(conn, quVal)
```

List Remaining Table Data

```
dat := db_query(conn, "SELECT * FROM Software")
```

```
dat =
```

| Name | Number |
|------------------|--------|
| "NewSoftware" | 157 |
| "NewSoftware" | 157 |
| "NewSoftware" | 157 |
| "ThirdSoftware" | 628 |
| "MatDeck" | 1 |
| "OtherSoftwares" | 999 |

We could also achieve this task using MatDeck script inside the document.

```
1 // A MatDeck program to update data in tables within SQLite databases
2
3 // Connecting to the server
4 conn := db_connect("sqlite", "Name", "", 0, "", "", "sqlite_database.db")
5
6 // Updating the query and displaying the table data
7 db_query(conn, "UPDATE Software SET Number = 628 WHERE Name =
8 'ThirdSoftware'")
9 print(db_query(conn, "SELECT * FROM Software"))
10
11 // Disconnecting from the server
12 db_close(conn)
```

Output

MatDeck Console

```
["NewSoftware" 157]
["NewSoftware" 157]
["ThirdSoftware" 628]
["MatDeck" 1]
["OtherSoftwares" 999]
```