

MatDeck - Work with MySQL database

Insert data into table

- Level: Basic

In this example, we illustrate how MatDeck can be used to work with MySQL database. We will use `db_connect()` function to establish a connection to database, and `db_query()` function to insert data into table and to list table data.

Insert into table using `db_query()` function

The task is to establish the connection to MySQL Database, to insert data into table and to print all table data.

```
UserVal := "test_user"
```

```
PassVal := "Test123"
```

```
HostVal := "localhost"
```

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

```
DVal := "mysql"
```

```
PortVal := 3306
```

Connection Parameters

Query String

```
quVal := "INSERT INTO Software (Name, Number) VALUES ('NewSoftware', 157)"
```

Connecting To Database

```
conn := db_connect(DVal, "Name", HostVal, PortVal, UserVal, PassVal, DatVal)
```

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

List of All Table Data

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

```
dat =
```

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

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

```
1 // MatDeck program to insert data into the table 'Software'
2 // in MYSQL database using db_query() function
3
4 // Connecting to the server
5 conn := db_connect("mysql", "Name", "localhost", 3306, "test_user",
6 "Test123", "matdeck")
7
8 // Preparing query and values to insert into table (Insert One Row)
9 queVal := "INSERT INTO Software (Name, Number) VALUES ('NewSoftware',157)"
10 // Insert Into Query (Insert One Row)
11 db_query(conn,queVal)
12
13 // Print all data from Software table after single row insert
14 print(db_query(conn, "SELECT * FROM Software"))
15
16 // Preparing query and values to insert into table (Multiple Rows At Once)
17 queVal += " , ('SecondSoftware',24), ('ThirdSoftware',624), ('MatDeck',1),
18 ('OtherSoftwares',999)"
19 // Insert Into Query (Multiple Rows At Once)
20 db_query(conn,queVal)
21
22 // Print all data from Software table after multiple rows insert
23 print(db_query(conn, "SELECT * FROM Software"))
24
25 // Disconnecting from the server
26 db_close(conn)
```

Output

MatDeck Console

```
["NewSoftware" 157]
["NewSoftware" 157]
["SecondSoftware" 24]
["ThirdSoftware" 624]
["MatDeck" 1]
["OtherSoftwares" 999]
```