

MatDeck - Work with MySQL database

Create new 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 create new table. Function `db_connect()` is universal function that can be used for all sorts of DB connections, you can use it to connect to following databases: SQLite, MySQL, MSSQL, PostgreSQL.

Create table using `db_query()` function

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

NewTable() Function Definition

```
NewTable( )
```

```
{  
1 conn := db_connect(DVal, "Name", HostVal, PortVal, UserVal, PassVal, DatVal)  
2 db_query(conn, "CREATE TABLE Software (Name VARCHAR(255), Number int);")  
3 print("Software Table is Created")  
}
```

```
NewTable( )
```

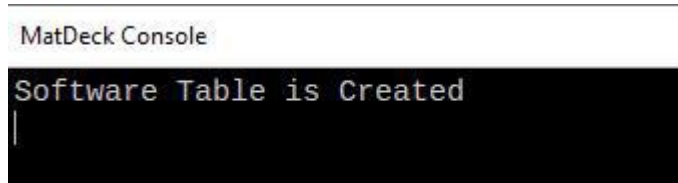
Calling NewTable() Function

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

```
1 //Definition of the function NewTable  
2 //When we make a call of function NewTable1() it will  
3 //create a new table "Software"  
4  
5 NewTable1()  
6 {  
7     // Connecting to MySQL server instance  
8     conn := db_connect("mysql", "Name", "localhost", 3306, "test_user",  
9     "Test123", "matdeck")  
10  
11     // We will use db_query() function to create new table "Software"  
12     // which contains two columns Name and Number of data types varchar
```

```
12
13     // for string storing and Number of integer data type
14     db_query(conn, "CREATE TABLE Software (Name VARCHAR(255), Number
15 int);")
16     print("Software Table is Created")
17 }
18 // Calling NewTable1() function
19 NewTable1()
```

Output



MatDeck Console

```
Software Table is Created
|
```