

MatDeck - Work with SQLite database

Creating new table

- Level: Basic

In this example, we will use the `db_connect()` function to establish a connection to the database and the `db_query()` function to create a new table.

The function `db_connect()` is a universal function that can be used for all sorts of DB connections, you can use it to connect to following databases: SQLite, MySQL, MSSQL, and PostgreSQL.

Create table using `db_query()` function

The task is to establish a connection to the SQLite Database, create a new table and print messages on a successful creation.

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

Connection Parameters

```
Que := "CREATE TABLE Software (Name TEXT, Number INTEGER);"
```

NewTable() Function Definition

```
NewTable()
```

```
{  
1 conn := db_connect("sqlite", "Name", "", 0, "", "", DatVal)  
2 db_query(conn, Que)  
3 print("Software Table is Created")  
}
```

```
NewTable()
```

Call Of NewTable() Function

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

```
1 //Defining the function NewTable  
2 //When we call the function NewTable1() it will  
3 //create a new table called "Software"  
4  
5 NewTable1()  
6 {  
7     // Connecting to a MySQL server instance  
8     conn := db_connect("sqlite", "Name", "", 0, "", "", DatVal)  
9     // We will use the db_query() function to create a new table called  
10    //"Software which contains two columns: the Name and the Number of  
11    //data type for string storing and the Number of INTEGER data types.  
12    db_query(conn, "CREATE TABLE Software (Name TEXT, Number INTEGER);")  
13    print("Software Table is Created")  
14 }  
15
```

```
16  
17 // Calling the NewTable1() function  
18 NewTable1()
```

Output

MatDeck Console

```
Software Table is Created  
|
```