

MatDeck - Work with MySQL database

Create new database

- 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 database.

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 database using db_query() function

The task is to establish the connection to MySQL Database instance, to create a new database and to list all available databases.

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

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

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

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

```
PortVal := 3306
```

Connection Parameters

Connecting To The Server

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

```
db_query(conn, "CREATE DATABASE matdeck")
```

Create New Database

```
res := db_query(conn, "SHOW DATABASES")
```

```
res =
```

Database
"information_schema"
"matdeck"
"mysql"
"performance_schema"
"sakila"
"sys"

List All Databases

```
db_close(conn)
```

Disconnecting From The Server

If parameter "database name" in **db_connect()** function is left as an empty string you will establish a connection to server instance.

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

```
1 // Connecting to the server
2 conn1 := db_connect(DVal, "Name1", HostVal, PortVal, UserVal, PassVal, "")
3
4 // Create new database
5 db_query(conn1, "CREATE DATABASE matdeck")
6
7 // List all Databases
8 res1 := db_query(conn1, "SHOW DATABASES")
9 print(res1)
10
11 // Disconnecting from the server
12 db_close(conn1)
```

Output

MatDeck Console

```
["information_schema"]
["matdeck"]
["world"]
|
```