

# Tip of the day: Connect to MySQL and run a query

With MBS Plugins you can connect to various databases from Xojo and FileMaker.

As you may know we support Centura SQLBase, DB2, Firebird, Informix, InterBase, MariaDB, Microsoft Access, Microsoft SQL Server, MySQL, ODBC, Oracle Database Server, PostgreSQL, SQL Anywhere, SQLite, SQLCipher and Sybase.

Here an example script for FileMaker using MySQL:

## **#Start a new connection**

```
Set Variable [$Connection; Value:MBS("SQL.NewConnection")]
```

## **#Tell plugin where MySQL library is (put it where you like)**

```
Set Variable [$result; Value:MBS("SQL.SetConnectionOption"; $Connection; "MYSQL.LIBS"; "/Users/cs/Desktop/libmysqlclient.dylib")]
```

## **#Connect to a mysql database:**

```
Set Variable [$result; Value:MBS("SQL.Connect"; $Connection; "192.168.11.51@Server_Config"; "user"; "password"; "MySQL")]
```

```
If [$result ≠ "OK"]
```

### **#Connection failed**

```
Show Custom Dialog ["Error: " & $result]
```

```
Set Variable [$result; Value:MBS("SQL.FreeConnection"; $Connection)]
```

```
Halt Script
```

```
Else
```

### **#Create a query:**

```
Set Variable [$Command; Value:MBS("SQL.NewCommand"; $Connection; "SELECT * FROM Server_Config where ServerName=:Name")]
```

### **#If you use parameters, you can fill them here**

```
Set Variable [$r; Value:MBS("SQL.SetParamAsText"; $Command; "Name"; "MacMini")]
```

### **#Execute it**

```
Set Variable [$result; Value:MBS("SQL.Execute"; $Command)]
```

```
If [$result ≠ "OK"]
```

```
Set Field [MySQL Query::Result; $result]
```

```
Show Custom Dialog ["Error: " & $result]
```

```
Else
```

```
Set Variable [$lines; Value:""]
```

```
Set Variable [$fieldcount; Value:MBS("SQL.FieldCount"; $command)]
```

```
Loop
```

### **#call FetchNext to get the next record**

```
Set Variable [$result; Value:MBS("SQL.FetchNext"; $Command)]
```

```
Exit Loop If [$result ≠ 1]
```

```
Set Variable [$line; Value:""]
```

```
Set Variable [$i; Value:1]
```

```
Loop
```

### **#We query field names and values to show them later**

```
Set Variable [$v; Value:MBS("SQL.GetFieldAsText"; $command; $i)]
```

```
Set Variable [$n; Value:MBS("SQL.GetFieldName"; $command; $i)]
```

```
Set Variable [$line; Value:$line & $n & ": " & $v & ¶]
```

```
Set Variable [$i; Value:$i+1]
```

```
Exit Loop If [$i > $fieldCount]
```

```
End Loop
```

```
Set Variable [$lines; Value:$lines & ($line & ¶)]
```

```
End Loop
Set Variable [$lines; Value:$lines & ¶]
Show Custom Dialog ["Result from Query: "; $lines]
End If
#Cleanup
Set Variable [$result2; Value:MBS("SQL.FreeCommand"; $Command)]
End If
Set Variable [$result2; Value:MBS("SQL.FreeConnection"; $Connection)]
```

As you notice some database types like MySQL, PostgreSQL, DB2, Oracle, Firebird and others need a client library. We point the plugin to load the client library which must match the bit number from FileMaker or Xojo. Once we are connected, we can run several queries over the connection and usually keep it open while the application does its work.