



GUI PROGRAMMING

Configuring Qt to work with MySQL

These instructions are specific for Windows 64 bit and Qt version 6.2.3. Then wherever you see these specific options replace with your versions.

DBMS Installation – AMPPS

1. Go to the downloads page and download the installer for your version of OS.
<https://ampps.com/downloads>
2. Run the Installer and follow instructions on the Installer.
3. Ensure that you have successfully installed AMPPS:
 - a. Run it after installing, if you do not see it in your application list restart your PC.
 - b. Then go to, <http://localhost/phpmyadmin>, this will show your local DBMS,
 - c. If you are requested to login, use the defaults: username: **root**, password: **mysql**
4. Now you can add databases and test the different functionalities of AMPPS.
5. To learn more, go to <https://ampps.com/docs>

If you have the same specifications stated above and are using the provided driver files, follow the instructions on section A, else follow instructions on section B.

 **Link to get drivers:** https://github.com/thecodemonkey86/qt_mysql_driver/releases

A: Driver setup from Files

1. Copy all three “.dll” files found on the root of the folder provided and place them in your Qt installation directory inside the Bin folder.
 - a. Files to Copy: **libcrypto-1_1-x64.dll, libmysql.dll, libssl-1_1-x64.dll**
 - b. Bin Directory: **C:\Qt\6.2.3\mingw_64\bin**

2. Copy the “**qsqlmysql.dll**” file found inside of the **sqldrivers** folder and paste it inside the plugins sql driver folder: **C:\Qt\6.2.3\mingw_64\plugins\sqldrivers**
3. Restart your Qt and/or your PC and rebuild your existing project if you have one.

B: Driver setup using the Connector

1. Download the provided drivers zip file and copy the “**qsqlmysql.dll**” file found inside of the **sqldrivers** folder and paste it inside the plugins sql driver folder:
C:\Qt\6.2.3\mingw_64\plugins\sqldrivers
2. Download the connector from <https://dev.mysql.com/downloads/connector/cpp/> make sure to select the right versions for your OS.
3. After installation is done, go to your connectors installation folder:
C:\Program Files\MySQL\MySQL Connector C++ 8.0\lib64 and copy the following files **libcrypto-1_1-x64.dll**, **libmysql.dll**, **libssl-1_1-x64.dll**
4. Paste all three files on your Qt installation folder inside the Bin folder:
C:\Qt\6.2.3\mingw_64\bin
5. Restart your Qt and/or your PC and rebuild your existing project if you have one.

USAGE:

To connect to a database, you need to include the sql component in the project file.

```
5 #-----
6
7 QT      += core gui
8 QT      += sql
9
```