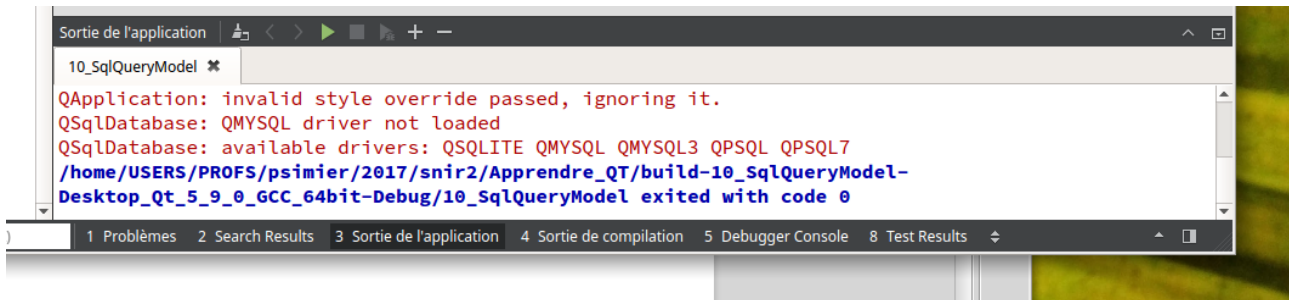


# Installation du pilote QMYSQL pour Qt

Une connexion de base de données est représentée par un objet QSqlDatabase.

Qt utilise des pilotes (driver) pour communiquer avec les diverses API de base de données. Tous les pilotes ne sont pas fournis avec Qt, en raison de restriction de licence.

C'est le cas avec mysql



lors de l'exécution vous obtenez l'erreur suivante :

QMYSQL driver not loaded

Conclusion Le driver n'est pas présent, il est nécessaire de l'installer.

## Etape 1 :

Recherche des librairies manquantes : en se plaçant dans le répertoire **sqldrivers**

```
cd /opt/Qt/5.9/gcc_64/plugins/sqldrivers
```

la commande **ldd** permet d'afficher les bibliothèques partagées nécessaires :

```
sqldrivers # ldd libqsqlmysql.so
```

```
toto-HP-Compaq-Pro-6300-MT sqldrivers # ldd libqsqlmysql.so
linux-vdso.so.1 => (0x00007ffcb7118000)
libQt5Sql.so.5 => /opt/Qt/5.9/gcc_64/plugins/sqldrivers/../../lib/libQt5Sql.so.5 (0x00007fbd7156e000)
libQt5Core.so.5 => /opt/Qt/5.9/gcc_64/plugins/sqldrivers/../../lib/libQt5Core.so.5 (0x00007fbd70e36000)
libpthread.so.0 => /lib/x86_64-linux-gnu/libpthread.so.0 (0x00007fbd70be9000)
libmysqlclient.so.18 => not found
libstdc++.so.6 => /usr/lib/x86_64-linux-gnu/libstdc++.so.6 (0x00007fbd70867000)
libm.so.6 => /lib/x86_64-linux-gnu/libm.so.6 (0x00007fbd7055d000)
libgcc_s.so.1 => /lib/x86_64-linux-gnu/libgcc_s.so.1 (0x00007fbd70347000)
libc.so.6 => /lib/x86_64-linux-gnu/libc.so.6 (0x00007fbd6ff7d000)
libicui18n.so.56 => /opt/Qt/5.9/gcc_64/plugins/sqldrivers/../../lib/libicui18n.so.56 (0x00007fbd6fae3000)
0)
```

sur l'écran ci dessus on peut remarquer que la bibliothèque **libmysqlclient.so.18** est manquante.

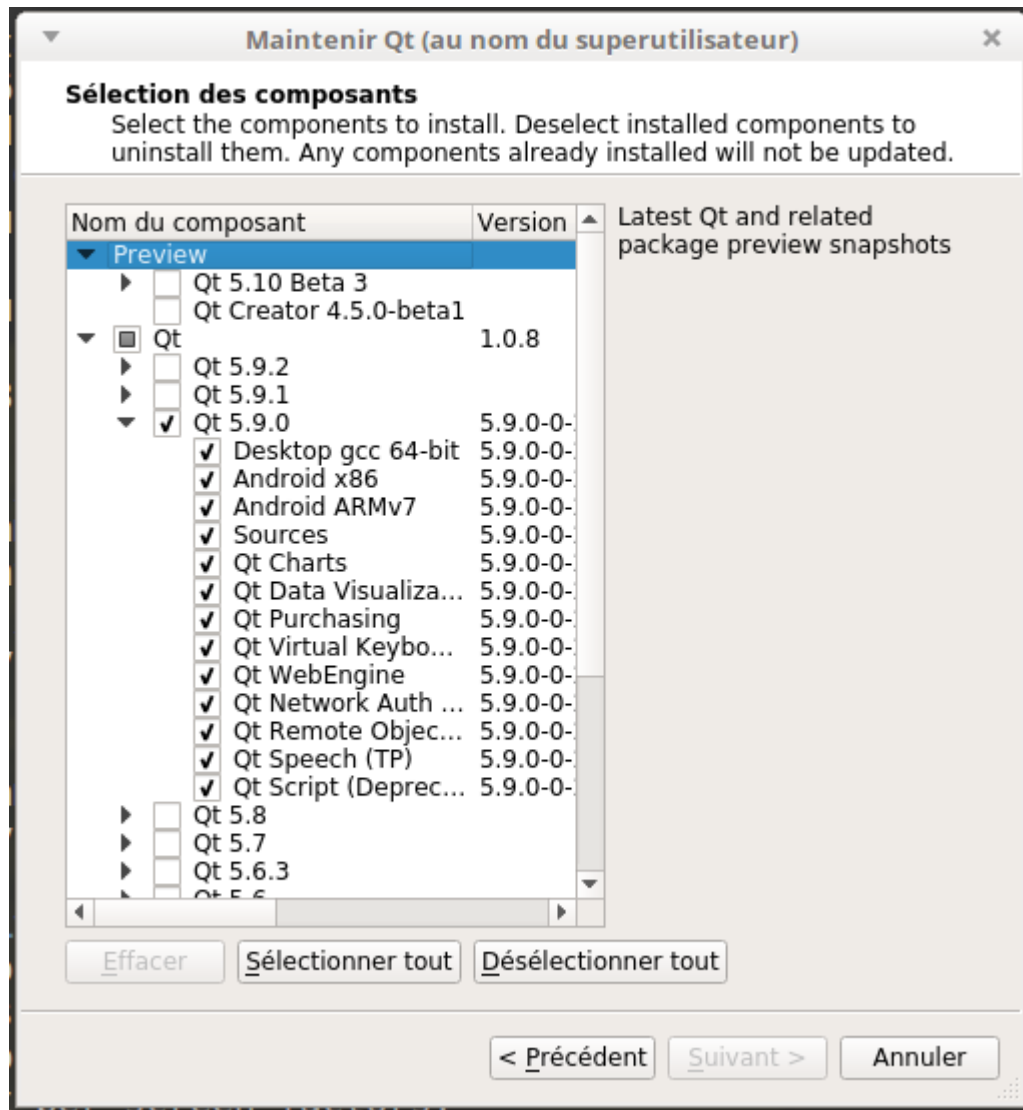
## Etape 2 : Installation des paquets nécessaires :

apt-get update

apt-get install libssl-dev

apt-get install libmysqlclient-dev

### Etape 3 : Récupérer les sources via /opt/Qt/MaintenanceTool



HP-Compaq-Pro sqldrivers # **cd /usr/lib/x86\_64-linux-gnu/**

HP-Compaq-Pro x86\_64-linux-gnu # **ln -s libmysqlclient.so libmysqlclient\_r.so**

HP-Compaq-Pro x86\_64-linux-gnu # **ln -s libmysqlclient.so libmysqlclient\_r.so.20**

HP-Compaq-Pro x86\_64-linux-gnu # **ln -s libmysqlclient.so libmysqlclient\_r.so.20.3.3**

```
toto-HP-Compaq-Pro-6300-MT x86_64-linux-gnu # ls -l libmysqlclient*
-rw-r--r-- 1 root root 5760290 oct. 18 17:23 libmysqlclient.a
lrwxrwxrwx 1 root root 17 nov. 10 09:46 libmysqlclient_r.so -> libmysqlclient.so
lrwxrwxrwx 1 root root 17 nov. 10 09:47 libmysqlclient_r.so.20 -> libmysqlclient.so
lrwxrwxrwx 1 root root 17 nov. 10 09:47 libmysqlclient_r.so.20.3.3 -> libmysqlclient.so
lrwxrwxrwx 1 root root 20 oct. 18 17:22 libmysqlclient.so -> libmysqlclient.so.20
lrwxrwxrwx 1 root root 24 oct. 18 17:22 libmysqlclient.so.20 -> libmysqlclient.so.20.3.7
-rw-r--r-- 1 root root 4237408 oct. 18 17:23 libmysqlclient.so.20.3.7
toto-HP-Compaq-Pro-6300-MT x86_64-linux-gnu #
```

## Etape 4: La compilation avec make

HP-Compaq-Pro sqldrivers # `cd /opt/Qt/5.9/Src/qtbase/src/plugins/sqldrivers/mysql/`

HP-Compaq-Pro sqldrivers # `/opt/Qt/5.9/gcc_64/bin/qmake`

`"INCLUDEPATH+=/usr/local/include" "LIBS+=-L/usr/local/lib -lmysqlclient_r" mysql.pro`

Info: creating stash file /opt/Qt/5.9/Src/qtbase/.qmake.stash

HP-Compaq-Pro sqldrivers # **make**

on doit avoir un retour du type :

```
SCII -DQT_NO_CAST_FROM_ASCII -DQT_NO_EXCEPTIONS -D_LARGEFILE64_SOURCE -D_LARGEFILE_SOURCE -DQT_NO
DEBUG -DQT_PLUGIN -DQT_SQL_LIB -DQT_CORE_LIB -I. -isystem /usr/local/include -I/opt/Qt/5.9/gcc_64/
include/QtSql/5.9.0 -I/opt/Qt/5.9/gcc_64/include/QtSql/5.9.0/QtSql -I/opt/Qt/5.9/gcc_64/include/Qt
Core/5.9.0 -I/opt/Qt/5.9/gcc_64/include/QtCore/5.9.0/QtCore -I/opt/Qt/5.9/gcc_64/include -I/opt/Qt
/5.9/gcc_64/include/QtSql -I/opt/Qt/5.9/gcc_64/include/QtCore -I.moc -isystem /usr/include/mysql -
I../../../../mkspecs/linux-g++ -o .obj/moc_qsql_mysql_p.o .moc/moc_qsql_mysql_p.cpp
rm -f libqsqlmysql.so
g++ -Wl,--no-undefined -Wl,-O1 -Wl,--enable-new-dtags -Wl,-z,origin -Wl,-rpath,\$ORIGIN/../../../../lib
-Wl,-rpath,\$ORIGIN/../../../../lib -shared -o libqsqlmysql.so .obj/qsql_mysql.o .obj/main.o .obj/moc_qs
ql_mysql_p.o -L/usr/local/lib -lmysqlclient_r -L/opt/Qt/5.9/gcc_64/lib -lQt5Sql -lQt5Core -lpthre
ad -L/usr/lib64/mysql -lmysqlclient
mv -f libqsqlmysql.so ../../../../../../plugins/sqldrivers/
```

HP-Compaq-Pro sqldrivers # **make install**

```
toto-HP-Compaq-Pro-6300-MT mysql # make install
/opt/Qt/5.9/gcc_64/bin/qmake -install qinstall program ../../../../../../plugins/sqldrivers/libqsqlmysql
.so /opt/Qt/5.9/gcc_64/plugins/sqldrivers/libqsqlmysql.so
strip --strip-unneeded /opt/Qt/5.9/gcc_64/plugins/sqldrivers/libqsqlmysql.so
/opt/Qt/5.9/gcc_64/bin/qmake -install qinstall file /opt/Qt/5.9/Src/qtbase/lib/cmake/Qt5Sql/Qt5Sql
_QMYSQLDriverPlugin.cmake /opt/Qt/5.9/gcc_64/lib/cmake/Qt5Sql/Qt5Sql_QMYSQLDriverPlugin.cmake
```