

## QGIS Application - Bug report #18064

### QGIS3 QtSqlDatabase 'QSPATIALITE' driver crash

2018-02-08 06:54 PM - Jakub Kosik

|   |                                      |
|---|--------------------------------------|
| <b>Status:</b> Closed   |                                      |
| <b>Priority:</b> High   |                                      |
| <b>Assignee:</b>  |                                      |
| <b>Category:</b> Python plugins   |                                      |
| <b>Affected QGIS version:</b> master  | <b>Regression?:</b> Yes              |
| <b>Operating System:</b>  | <b>Easy fix?:</b> No                 |
| <b>Pull Request or Patch supplied:</b> No   | <b>Resolution:</b> fixed/implemented |
| <b>Crashes QGIS or corrupts data:</b> Yes   | <b>Copied to github as #:</b> 25960  |
| <b>Description</b>  |                                      |
| <p>I'm trying to port my plugin to python3/Qt5/QGIS3. I'm using spatialite database with QtSqlDatabase to manage plugin requests:<br/>db = QSqlDatabase.addDatabase('QSPATIALITE')<br/>When I execute any QSqlQuery on that db - QGIS crashes. Tested with driver 'QSQLITE', no crash (and no spatial functions).</p> |                                      |

#### History

##### #1 - 2018-02-22 07:43 PM - Giovanni Manghi

- Priority changed from Normal to High

##### #2 - 2018-05-03 07:52 PM - Johannes Liem

Hello, I have the very same problem porting my plugin.

Maybe the following helps somehow (not sure if is it appropriate to post here):

```
from qgis.PyQt.QtSql import QSqlDatabase, QSqlQuery

db = QSqlDatabase.addDatabase('QSPATIALITE')
db.setDatabaseName("Path to Spatialite File e.g. manually created with QGIS")
print(db.isValid(), QSqlDatabase.isDriverAvailable('QSPATIALITE')) #returns both True, if query below is commented out

if not db.open():
    print("DB not open")
else:
    print("DB open")
    q = QSqlQuery(db)
    q.exec_("SELECT sqlite_version(), spatialite_version()")
    q.first()
    print(str(q.value(0)), str(q.value(1)))
    db.close()
```

Running this code in the QGIS python console (3.0.2) results in a crash (it works in 2.18.19):

```
QSqlCachedResult::detachFromResultSet :
QSqlQuery::~~QSqlQuery :
PyInit_sip :
Py_HashPointer :
Py_CheckFunctionResult :
```

PyEval\_EvalFrameDefault :  
PyErr\_Occurred :  
PyEval\_EvalCode  
... much more here ...

QGIS Info  
QGIS Version: 3.0.2-Girona  
QGIS code revision: 307d082e3d  
Compiled against Qt: 5.9.2  
Running against Qt: 5.9.2  
Compiled against GDAL: 2.2.4  
Running against GDAL: 2.2.4

System Info  
CPU Type: x86\_64  
Kernel Type: winnt  
Kernel Version: 10.0.16299

I am thinking about a work around using `qgis.utils.spatialite_connect` for all spatial queries (<https://gis.stackexchange.com/questions/260527/how-to-create-a-spatialite-layer-in-qgis-3-with-python>) and the 'SQLITE' driver for non spatial queries to populate PyQt Views/Models/DataMappers (which in my case do not require spatial queries)

### #3 - 2018-05-04 08:46 AM - Jakub Kosik

I've done with same workaround as you thinking - works for now.

```
db = QSqlDatabase.addDatabase('SQLITE')
query = QSqlQuery(db)
request = query.exec_(exp)
if request:
    [...]
else:
    connection = spatialite_connect(dbfile)
    cursor = connection.cursor()
    [...]
```

### #4 - 2018-08-21 06:35 PM - Johannes Liem

This problem appears to be fixed #19419  
Just successfully tried the code I posted above with QGIS version: 3.2.2-Bonn, QGIS code revision: 26842169e9

### #5 - 2018-08-21 07:30 PM - Giovanni Manghi

- Status changed from Open to Feedback

Johannes Liem wrote:

|

2025-03-15

2/3

| *This problem appears to be fixed*

can the ticket issuer confirm? Thanks!

**#6 - 2018-08-22 12:29 AM - Jakub Kosik**

Yes, I can confirm, works now! Tested on nightly 3.3.0 rev 85d740026a

**#7 - 2018-08-22 09:45 AM - Giovanni Manghi**

- *Status changed from Feedback to Closed*

- *Resolution set to fixed/implemented*