

# QGIS Application - Bug report #19583

## QGIS PostGIS Raster Driver BUG (example) with suggested fix (ALL VERSIONS OF QGIS)

2018-08-09 08:20 PM - al piszcz

Status:	Closed	
Priority:	High	
Assignee:		
Category:	Data Provider/PostGIS	
Affected QGIS version:	3.3(master)	Regression?: No
Operating System:		Easy fix?: Yes
Pull Request or Patch Supplied:		Resolution: up/downstream
Crashes QGIS or corrupts data:		Copied to github as #: 27410

### Description

Attempting to load a raster from a postgis database using the Database Manager plugin with a schema creates an error when the table name uses mixed case or special characters.

The reported error is "Cannot get GDAL Raster band:" in the GUI dialog.

PostGIS/GRES recommends double quotes around "database"."SchemaName"."TableName\_1" or "SchemaName"."TableName\_1" if already connected to the database.

It appears the code in

[https://github.com/varunsaraf/postgis\\_raster/blob/master/postgisrasterdataset.cpp](https://github.com/varunsaraf/postgis_raster/blob/master/postgisrasterdataset.cpp)

(and perhaps elsewhere does not double quote schema and table name.

<https://www.postgresql.org/docs/10/static/sql-syntax-lexical.html#SQL-SYNTAX-IDENTIFIERS>.

SCHEMA=rasterschema

TABLE=test (WORKS)

Table=Test\_1 (FAILS), the name gets interpreted as test\_1 and fails, if "test"."Test\_1" raster load completes.

### WORKING EXAMPLE

2018-08-09 14:00:03.724 EDT [608908] LOG: statement: select st\_bandmetadata(rast, band) from (select rast, generate\_series(1, 1) band from (select rast from rasterschema.test where (true) AND st\_numbands(rast)=1 limit 1) bar) foo

### FAILING EXAMPLE

2018-08-09 14:03:12.835 EDT [608908] LOG: statement: select st\_bandmetadata(rast, band) from (select rast, generate\_series(1, 1) band from (select rast from rasterschema.Test\_1 where (true) AND st\_numbands(rast)=1 limit 1) bar) foo

2018-08-09 14:03:12.835 EDT [608908] ERROR: relation "rasterchema.test\_1" does not exist at character 105

Using the failing example from the command line with recommended quoting:

```
db=# select st_bandmetadata(rast, band) from (select rast, generate_series(1, 1) band from (select rast from "rasterschema"."Test_1" where (true) AND st_numbands(rast)=1 limit 1) bar) foo;
```

```
st_bandmetadata
```

```
-----
```

```
(8BUI,0,f,)
```

```
(1 row)
```

### Associated revisions

Revision f4d08eb9 - 2018-08-10 09:21 AM - Jürgen Fischer

dbmanager/postgis: quote identifiers in urls (fixes qgis portion of #19583)

## History

---

#1 - 2018-08-09 09:45 PM - Jürgen Fischer

- *Resolution set to up/downstream*

This is a GDAL issue.

#2 - 2018-08-10 01:53 AM - Nyall Dawson

- *Status changed from Open to Closed*

#3 - 2018-08-10 09:04 AM - al piszcz

Hello, thank you for the review, do I need to submit this issue elsewhere?

The query from [https://github.com/varunsaraf/postgis\\_raster/blob/master/postgisrasterdataset.cpp](https://github.com/varunsaraf/postgis_raster/blob/master/postgisrasterdataset.cpp) is not enclosing the schema and table name in "".

```
if (pszWhere == NULL) {  
    osCommand.Printf("select st_bandmetadata(%s, band) from "  
        "(select %s, generate_series(1, st_numbands(%s)) band from "  
        "(select %s from %s.%s limit 1) bar) foo", pszColumn, pszColumn,  
        pszColumn, pszColumn, pszSchema, pszTable);  
}  
  
else {  
    osCommand.Printf("select st_bandmetadata(%s, band) from "  
        "(select %s, generate_series(1, st_numbands(%s)) band from "  
        "(select %s from %s.%s where %s limit 1) bar) foo", pszColumn,  
        pszColumn, pszColumn, pszColumn, pszSchema, pszTable, pszWhere);  
}
```

#4 - 2018-08-10 09:52 AM - Jürgen Fischer

al piszcz wrote:

*Hello, thank you for the review, do I need to submit this issue elsewhere?*

*The query from [https://github.com/varunsaraf/postgis\\_raster/blob/master/postgisrasterdataset.cpp](https://github.com/varunsaraf/postgis_raster/blob/master/postgisrasterdataset.cpp) is not enclosing the schema and table name in "".*

Take a look at <https://github.com/osgeo/gdal/pull/837>