

## QGIS Application - Bug report #5883

### Erroneous query: zero-length delimited identifier at or near ''''''''

2012-06-27 09:09 AM - Sandro Santilli

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> Jürgen Fischer	
<b>Category:</b> Data Provider/PostGIS	
<b>Affected QGIS version:</b> 1.8.0	<b>Regression?:</b> No
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 15339

#### Description

SQL window, retrieving the data worked, loading as layer didn't (but didn't *visually* report any error)

Error/debug on the console:

```
Debug: src/providers/postgres/qgspostgresprovider.cpp: 2683: (getGeometryDetails) Getting geometry column: SELECT "geom"
FROM (select (ST_Dump(ST_DelaunayTriangles(st_collect(cell)))).* FROM hexagrid
) AS "subQuery_0" LIMIT 0
```

```
Debug: src/providers/postgres/qgspostgresconn.cpp: 1063: (retrieveLayerTypes) Retrieving geometry types: SELECT DISTINCT
CASE WHEN upper(geometrytype("geom")) IN ('POINT','MULTIPOINT','POINTM','MULTIPOINTM') THEN 'POINT' WHEN
upper(geometrytype("geom")) IN ('LINESTRING','MULTILINESTRING','LINESTRINGM','MULTILINESTRINGM') THEN
'LINESTRING' WHEN upper(geometrytype("geom")) IN ('POLYGON','MULTIPOLYGON','POLYGONM','MULTIPOLYGONM')
THEN 'POLYGON' END, st_srid("geom") FROM (SELECT "geom" FROM "".(select
(ST_Dump(ST_DelaunayTriangles(st_collect(cell)))).* FROM hexagrid
) AS ""subQuery_0"" WHERE "geom" IS NOT NULL LIMIT 100) AS t
```

```
Debug: src/core/qgsmessagelog.cpp: 41: (logMessage) 2012-06-27T18:03:17 PostGIS[0] Erroneous query: SELECT DISTINCT
CASE WHEN upper(geometrytype("geom")) IN ('POINT','MULTIPOINT','POINTM','MULTIPOINTM') THEN 'POINT' WHEN
upper(geometrytype("geom")) IN ('LINESTRING','MULTILINESTRING','LINESTRINGM','MULTILINESTRINGM') THEN
'LINESTRING' WHEN upper(geometrytype("geom")) IN ('POLYGON','MULTIPOLYGON','POLYGONM','MULTIPOLYGONM')
THEN 'POLYGON' END, st_srid("geom") FROM (SELECT "geom" FROM "".(select
(ST_Dump(ST_DelaunayTriangles(st_collect(cell)))).* FROM hexagrid
) AS ""subQuery_0"" WHERE "geom" IS NOT NULL LIMIT 100) AS t returned 7 [ERROR: zero-length delimited identifier at or
near ''''''''
```

```
LINE 1: ...ON' END, st_srid("geom") FROM (SELECT "geom" FROM "".(selec...
```

^

#### Associated revisions

Revision 6aa75244 - 2012-10-04 01:15 PM - Jürgen Fischer

fix #5883

#### History

#1 - 2012-06-27 09:12 AM - Paolo Cavallini

- Assignee set to Giuseppe Sucameli

#2 - 2012-06-28 01:08 AM - Giuseppe Sucameli

- Category changed from DB Manager to Data Provider/PostGIS

It's a bug on the PG provider. The schema part is added also for queries (a check is missing).

### #3 - 2012-06-28 01:23 AM - Jürgen Fischer

| *SQL window, retrieving the data worked, loading as layer didn't (but didn't visually report any error)*

Can you reproduce the problem with something that doesn't need the latest postgis?

BTW you should "visually" see the error in the message log (and the popup over the in the main window status bar).

### #4 - 2012-06-28 01:34 AM - James Stott

I have changed my code slightly from the original code I posted on the mailing list and I get a slightly different error:

This query works and adds a layer into QGIS:

```
uri.setDataSource("(SELECT int4(row_number() OVER ()) AS id,ST_GeomFromText('POINT(451583 129144)',27700) As geom)", "geom", "id")
```

The following doesn't work:

```
uri.setDataSource("(SELECT * From \"designations\".\"table\" where ST_DWithin(ST_GeomFromText('POINT(451583 129144)',27700),  
\"table\".\"geom\", 2000)", "geom", "gid")
```

This gives the following error:

Unable to execute the query.

The error message from the database was:

ERROR: syntax error at or near "AS"

LINE 1: ... 129144)',27700), "listed\_building"."geom", 2000) AS "subQue...

^

SQL: SELECT \* FROM (SELECT \* From "designations"."listed\_building" where ST\_DWithin(ST\_GeomFromText('POINT(451583 129144)',27700),  
"listed\_building"."geom", 2000) AS "subQuery\_0" LIMIT 1

Does seem like there is an extra SELECT statement added to the from of the query as it says SELECT \* FROM (SELECT \* From. The from in my code is From not FROM.

### #5 - 2012-06-28 03:08 AM - Jürgen Fischer

James Stott wrote:

| *The following doesn't work:*

```
| uri.setDataSource("(SELECT * From \"designations\".\"table\" where ST_DWithin(ST_GeomFromText('POINT(451583 129144)',27700),  
| \"table\".\"geom\", 2000)", "geom", "gid")
```

And that's not just because the closing paren is missing after "2000)"?

**#6 - 2012-06-28 03:51 AM - James Stott**

Adding the ) leads to this error:

Unable to execute the query.

The error message from the database was:

ERROR: subquery in FROM must have an alias

LINE 1: SELECT \* FROM (SELECT \* From designations.listed\_building wh...

^

HINT: For example, FROM (SELECT ...) [AS] foo.

SQL: SELECT \* FROM (SELECT \* From designations.listed\_building where ST\_DWithin(ST\_GeomFromText('POINT',27700), listed\_building.geom, 2000)), geom,"gid) AS "subQuery\_0" LIMIT 1

**#7 - 2012-06-28 04:28 AM - Jürgen Fischer**

James Stott wrote:

```
SQL: SELECT * FROM (SELECT * From designations.listed_building where ST_DWithin(ST_GeomFromText('POINT',27700),
listed_building.geom, 2000)), geom,"gid) AS "subQuery_0" LIMIT 1
```

Please check the syntax again. Looks like you misplaced the " this time ;)

**#8 - 2012-06-28 04:37 AM - James Stott**

Apologies, it was a syntax problem.

This worked:

```
query = "(SELECT * From \"designations\".\"table\" where ST_DWithin(ST_GeomFromText('POINT(' + str(self.dlg.getEasting()) + \" \" +
str(self.dlg.getNorthing()) + \"'\",27700), \"table\".\"geom\", + self.dlg.getBuffSize() + \"))\"
uri.setDataSource(\"\", query, \"geom\", \"gid\")
```

**#9 - 2012-09-04 12:06 PM - Paolo Cavallini**

- Target version set to Version 2.0.0

**#10 - 2012-10-01 04:59 PM - Giuseppe Sucameli**

- Status changed from Open to Feedback

Jürgen Fischer wrote:

```
SQL window, retrieving the data worked, loading as layer didn't (but didn't visually report any error)
```

```
Can you reproduce the problem with something that doesn't need the latest postgis?
```

| BTW you should "visually" see the error in the message log (and the popup over the in the main window status bar).

strk, could you please provide more info?

#### #11 - 2012-10-02 12:38 AM - Sandro Santilli

This query doesn't need the latest postgis, nor any table:

```
select (ST_Dump(ST_ConvexHull(st_collect('POINT(0 0)::geometry')))).*
```

Try it, replacing "unioned" and "wrongsnap" with a valid geometry column and table name.

It's still failing as of:

```
QGIS version 1.9.0-Master
QGIS code revision fe8385e
Compiled against Qt 4.8.1
Running against Qt 4.8.1
Compiled against GDAL/OGR 2.0dev
Running against GDAL/OGR 2.0dev
GEOS Version 3.4.0dev
PostgreSQL Client Version 9.1.5
Spatialite Version 2.4.0
QWT Version 5.2.2
PROJ.4 Version 480
```

This copy of QGIS writes debugging output.

I still tried trough the DBManager, don't know if it's possible (or how) to reproduce directly against the PostGIS Data Provider. Maybe Giuseppe knows ?

#### #12 - 2012-10-02 07:59 AM - Giuseppe Sucameli

Sandro Santilli wrote:

| I still tried trough the DBManager, don't know if it's possible (or how) to reproduce directly against the PostGIS Data Provider. Maybe Giuseppe knows ?

Try the following code from QGIS Python Console:

```
uri = QgsDataSourceURI()
uri.setConnection(host, u"%s" % port, dbname, user, passw)
uri.setDataSource( "", u"(%s\
)" % query, geomcol, "", keycol )

vl = QgsVectorLayer( uri.uri(), "layername", "postgres" )
QgsMapLayerRegistry.instance().addMapLayer( vl )
```

**#13 - 2012-10-02 08:21 AM - Jürgen Fischer**

Giuseppe Sucameli wrote:

| *Try the following code from QGis Python Console:*  
| [...]

Should that reproduce the problem? Because it doesn't here.

**#14 - 2012-10-02 08:47 AM - Giuseppe Sucameli**

Jürgen Fischer wrote:

| *Giuseppe Sucameli wrote:*  
| | *Try the following code from QGis Python Console:*  
| | [...]  
| *Should that reproduce the problem? Because it doesn't here.*

I know, neither here. But that code is quite identical to the one used in DBManager.

**#15 - 2012-10-02 09:00 AM - Sandro Santilli**

I've no time to debug this. Can't you reproduce it there Giuseppe ?

**#16 - 2012-10-02 09:27 AM - Giuseppe Sucameli**

- Assignee changed from Giuseppe Sucameli to Jürgen Fischer
- Status changed from Feedback to Open

Sandro Santilli wrote:

| *I've no time to debug this. Can't you reproduce it there Giuseppe ?*

Not reproduced yet, anyway I've found it.

The problem is at <https://github.com/qgis/Quantum-GIS/blob/master/src/providers/postgres/qgspostgresconn.cpp#L1027>, so you're using estimated metadata for the connection.

@Jef: I've assigned the ticket to you, I don't know how to handle estimated metadata option together with queries.

**#17 - 2012-10-02 09:34 AM - Sandro Santilli**

No way to estimate extent of a query. You must necessarily run it.

**#18 - 2012-10-02 09:36 AM - Sandro Santilli**

See also <http://trac.osgeo.org/postgis/ticket/510>

**#19 - 2012-10-03 03:19 PM - Giuseppe Sucameli**

```
select 1 as id, (ST_Dump(ST_ConvexHull(st_collect('POINT(0 0)::geometry')))).* FROM "mytablename"
```

It works until the "use table estimated metadata" option is checked in the connection settings, in that case I get the following error:

```
Erroneous query: SELECT DISTINCT CASE WHEN upper(geometrytype("geom")) IN ('POINT','MULTIPOINT','POINTM','MULTIPOINTM') THEN
'POINT' WHEN upper(geometrytype("geom")) IN ('LINESTRING','MULTILINESTRING','LINESTRINGM','MULTILINESTRINGM') THEN 'LINESTRING'
WHEN upper(geometrytype("geom")) IN ('POLYGON','MULTIPOLYGON','POLYGONM','MULTIPOLYGONM') THEN 'POLYGON' END, st_srid("geom")
FROM (SELECT "geom" FROM "".(select 1 as id, (ST_Dump(ST_ConvexHull(st_collect('POINT::geometry')))).* FROM ""province""
) AS ""subQuery_0"" WHERE "geom" IS NOT NULL LIMIT 100) AS t returned 7 [ERROR: zero-length delimited identifier at or near """"
LINE 1: ...ON' END, st_srid("geom") FROM (SELECT "geom" FROM "".(selec...
          ^
]
```

EDIT:

the problem occurs also with very simple queries like:

```
SELECT 1 as "id", 'POINT(1 10)::geometry' as "geom"
```

**#20 - 2012-10-04 04:16 AM - Jürgen Fischer**

- Status changed from Open to Closed

Fixed in changeset commit:"6aa7524482f176aaf603ff47b171a1c3e3c2fc62".