

QGIS Application - Bug report #19946

ogr based tools do not work anymore with PostGIS inputs (possibly also other rdbms datasources)

2018-09-25 08:32 PM - Giovanni Manghi

Status: Closed	
Priority: High	
Assignee: Nyal Dawson	
Category: Processing/OGR	
Affected QGIS version: 3.3(master)	Regression?: Yes
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution:
Crashes QGIS or corrupts data:	Copied to github as #: 27768

Description

Subject says it all. On QGIS master (at least) the GDAL/OGR command with this type of datasources is not built anymore the correct way, resulting in a failure. I tested "buffer", "dissove" and "export to PostGIS", so it seems that possibly all tools are affected. Example:

GDAL command:

```
ogr2ogr /tmp/processing_db57843afc44487c9e08a83e234924aa/8b8daebc43394493b27bf9136acdf271/OUTPUT.shp
"dbname='teste' host=localhost port=5432 user='teste' password='teste' sslmode=disable key='gid' srid=4326 type=MultiPolygon
checkPrimaryKeyUnicity='1' table='lixo1'."teste" (geom) sql=" -dialect sqlite -sql "SELECT ST_Union(geom) AS geom, region FROM
lixo1.tm_world_borders_0.3 GROUP BY region" -f "ESRI Shapefile"
```

GDAL command output:

FAILURE:

Unable to open datasource `dbname='teste' host=localhost port=5432 user='teste' password='teste' sslmode=disable key='gid' srid=4326 type=MultiPolygon checkPrimaryKeyUnicity='1' table="lixo1"."teste" (geom) sql=' with the following drivers.

-> `PCIDSK`

-> `netCDF`

-> `JP2OpenJPEG`

-> `PDF`

-> `ESRI Shapefile`

-> `MapInfo File`

-> `UK .NTF`

-> `OGR_SDTS`

-> `S57`

-> `DGN`

-> `OGR_VRT`

-> `REC`

-> `Memory`

-> `BNA`
-> `CSV`
-> `NAS`
-> `GML`
-> `GPX`
-> `LIBKML`
-> `KML`
-> `GeoJSON`
-> `Interlis 1`
-> `Interlis 2`
-> `OGR_GMT`
-> `GPKG`
-> `SQLite`
-> `OGR_DODS`
-> `ODBC`
-> `WAsP`
-> `PGeo`
-> `MSSQLSpatial`
-> `OGR_OGDI`
-> `PostgreSQL`
-> `MySQL`
-> `OpenFileGDB`
-> `XPlane`
-> `DXF`
-> `CAD`
-> `Geoconcept`
-> `GeoRSS`

-> `GPSTrackMaker`
-> `VFK`
-> `PGDUMP`
-> `OSM`
-> `GPSBabel`
-> `SUA`
-> `OpenAir`
-> `OGR_PDS`
-> `WFS`
-> `SOSI`
-> `HTF`
-> `AeronavFAA`
-> `Geomedia`
-> `EDIGEO`
-> `GFT`
-> `SVG`
-> `CouchDB`
-> `Cloudant`
-> `Idrisi`
-> `ARCGEN`
-> `SEGUKOOA`
-> `SEGY`
-> `XLS`
-> `ODS`
-> `XLSX`
-> `ElasticSearch`
-> `Walk`

-> `Carto`

-> `AmigoCloud`

-> `SXF`

-> `Selafin`

-> `JML`

-> `PLSCENES`

-> `CSW`

-> `VDV`

-> `GMLAS`

-> `TIGER`

-> `AVCbin`

-> `AVCE00`

-> `HTTP`

Related issues:

Related to QGIS Application - Bug report # 19938: GDAL/OGR vector geoprocessi...

Closed

2018-09-25

Associated revisions**Revision 79774507 - 2018-09-28 05:36 AM - Nyal Dawson**

[processing][ogr] Fix conversion of non-disk based layer sources to GDAL commands

Fixes #19946

History**#1 - 2018-09-25 10:59 PM - Nyal Dawson**

- Status changed from *Open* to *In Progress*

- Assignee set to *Nyal Dawson*

#2 - 2018-09-26 02:13 AM - Nyal Dawson

- Status changed from *In Progress* to *Feedback*

Can you confirm that the error is the missing "PG:" part before "dbname='teste' host=localhost port=543..."? E.g. ' PG:"dbname='teste' host=localhost port=5432....." '

#3 - 2018-09-26 11:44 AM - Giovanni Manghi

Nyall Dawson wrote:

```
Can you confirm that the error is the missing "PG:" part before "dbname='teste' host=localhost port=543..."? E.g. ' PG:"dbname='teste' host=localhost port=5432....." '
```

there seems to be more stuff to be wrong in the created command, I'm having a look at it.

#4 - 2018-09-27 08:44 AM - Jürgen Fischer

- Related to Bug report #19938: GDAL/OGR vector geoprocessing algorithms not working with GPKG, SQLite, FileGDB, etc inputs added

#5 - 2018-09-27 11:43 AM - Giovanni Manghi

Nyall Dawson wrote:

```
Can you confirm that the error is the missing "PG:" part before "dbname='teste' host=localhost port=543..."? E.g. ' PG:"dbname='teste' host=localhost port=5432....." '
```

so there are a number of parameters in the call created by QGIS that are not supposed to be there, not at least the way they were implemented in QGIS3. I can't find any reference of the following in ogr2ogr docs as also in the ogr/postgres page:

```
sql=  
(geom)  
sslmode=  
key=  
srid=  
type=  
checkPrimaryKeyUnicity=  
table=
```

A call that works here would be (referring to the "dissolve" tool):

```
ogr2ogr OUTPUT.shp PG:"dbname='teste' host='localhost' port=5432 user='teste' password='teste'" "lixo1"."tm_world_borders" -dialect sqlite -sql "SELECT ST_Union(geom) AS geom, region FROM "lixo1"."tm_world_borders" GROUP BY region" -f "ESRI Shapefile"
```

note that for ogr based geoprocessing operations using SQL (with SQLITE dialect, as internal ogr SQL is more limited) the schema/table names in the FROM clause must be around single quotes, otherwise it won't work.

#6 - 2018-09-28 05:36 AM - Nyall Dawson

- % Done changed from 0 to 100

- Status changed from Feedback to Closed

Applied in changeset commit:qgis|7977450796903babff4791301e64ecf52f52b039.