

QGIS Application - Bug report #7555

Postgis Multipolygon Errors

2013-04-09 05:51 AM - Denis Rouzaud

Status: Closed	
Priority: Severe/Regression	
Assignee:	
Category: Vectors	
Affected QGIS version: master	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution: worksforme
Crashes QGIS or corrupts data:	Copied to github as #: 16497
Description	
When dealing with multipolygon layers, several problems arise, some causing data loss (Postgres provider drops rows before inserting new rows, and all was lost if a constraint error was raised):	
<ul style="list-style-type: none">- Creating a single polygon as a new feature is impossible: <i>PostGIS error while adding features: ERROR: Geometry type (Polygon) does not match column type (MultiPolygon)</i>- No way of splitting a part into several parts (you can split in several features but not in several parts) [maybe not a blocker]- Severe known bugs when using merge or clip tools that create POLYGON and not MULTIPOLYGON.	
Related issues:	
Duplicates QGIS Application - Bug report # 5109: ERROR: Geometry type Poly no...	Closed 2012-03-02

History

#1 - 2013-04-09 06:15 AM - Regis Haubourg

Sea also [Postgis Multipolygon :: cannot create a feature](#)

A solution would be to let QGIS write in multi geometry type when datasource is detected as multi (line, polygon, point...).

#2 - 2013-04-13 06:19 AM - Jürgen Fischer

regis Haubourg wrote:

Sea also [Postgis Multipolygon :: cannot create a feature](#)

A solution would be to let QGIS write in multi geometry type when datasource is detected as multi (line, polygon, point...).

What the dataProvider's geometryType()? If it is a multitype it should already be processed through st_multi().

#3 - 2013-04-15 12:59 AM - Jürgen Fischer

- Status changed from Open to Feedback

Please elaborate. The problem apparently doesn't appear digitizing (single)polygons on a layer like that:

```
CREATE TABLE foo(id SERIAL)
SELECT AddGeometryColumn('foo','geom',25832,'MULTIPOLYGON',2);
```

I verified following operations (committing after each editing into postgis):

- adding the layer (gets detected as 'Multipolygon', ie. type=MULTIPOLYGON in the data source uri)
- Digitizing a (single) polygon
- Cutting the polygon into three polygons
- Merging two unconnected polygons to a multipolygon with two parts.
- Removing a part from the multipolygon

Works fine here.

#4 - 2013-04-15 01:10 AM - Denis Rouzaud

You are right.

Apparently, the problem I encountered is related to some persistence in the QGIS project. If you recreate (from scratch by sql) a layer changing its geometry from polygon to multipolygon, it stays as polygon in QGIS.

#5 - 2013-04-15 01:18 AM - Jürgen Fischer

- *Resolution set to worksforme*
- *Status changed from Feedback to Closed*

Denis Rouzaud wrote:

Apparently, the problem I encountered is related to some persistence in the QGIS project. If you recreate (from scratch by sql) a layer changing its geometry from polygon to multipolygon, it stays as polygon in QGIS.

Ok, if you change the table definition you should better re-add the layer - or unexpected things like this might happen.