

## QGIS Application - Bug report #7555

### Postgis Multipolygon Errors

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

<b>Status:</b>	Closed	
<b>Priority:</b>	Severe/Regression	
<b>Assignee:</b>		
<b>Category:</b>	Vectors	
<b>Affected QGIS version:</b>	master	<b>Regression?:</b> No
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>		<b>Resolution:</b> worksforme
<b>Crashes QGIS or corrupts data:</b>		<b>Copied to github as #:</b> 16497
<b>Description</b>  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"><li>- 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></li><li>- No way of splitting a part into several parts (you can split in several features but not in several parts) [maybe not a blocker]</li><li>- Severe known bugs when using merge or clip tools that create POLYGON and not MULTIPOLYGON.</li></ul>		
<b>Related issues:</b> Duplicates QGIS Application - Bug report # 5109: ERROR: Geometry type Poly no... <span style="float: right;">Closed 2012-03-02</span>		

#### 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.