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:	No	**Resolution:**	worksforme
Crashes QGIS or corrupts data:	No	**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):

- Creating a single polygon as a new feature is impossible:
  PostGIS error while adding features: ERROR: Geometry type (Polygon) does not match column type (MultiPolygon)
- 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 eloborate. 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)
- Digiziting 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.