QGIS Application - Bug report #15470
add part tool creates a MultiGeometry for CurvePolygon geometry type

2016-08-21 05:33 AM - Tudor Bărăscu

Status:	Closed		
Priority:	Normal		
Assignee:	Marco Hugentobler		
Category:	Data Provider/PostGIS		
Affected QGIS version:	2.16.1	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	23396

Description

For a CurvePolygon geometry type column layer, using the add part tool works well if the geometry is NULL.

If the geometry is not null, it will add another part transforming the geometry into a multigeometry.

When trying to save:

Errors: ERROR: 1 geometries not changed.

    Provider errors:

      PostGIS error while changing geometry values: ERROR: Geometry type (MultiSurface) does not match column type (CurvePolygon)

Tested under 2.16.1 and master under Debian testing.

History

#1 - 2016-08-21 05:54 AM - Tudor Bărăscu

Among the possible solutions could be:

- Disabling the add part tool when the geometry type is single geometry and the value is non null

- leaving that add part tool enabled but and output a message when it's clicked and output a message like: You cannot add a part to a geometry that's already filled and the type is single geometry

Thank you

#2 - 2016-08-28 04:41 PM - Jukka Rahkonen

But if the layer is a shapefile layer then it should work OK which means that situation is a bit more complicated.

#3 - 2016-09-05 01:46 AM - Tudor Bărăscu

Actually, the add part tool creates another part regardless of the underlying geometry type, which is wrong.

E.g. for a Point geometry if that geometry is not null, it creates another Point and transforms the whole geometry into MultiPoint but when the use tries to save there's the logical error: cannot save MultiPoint geometry into in Point geometry column.

#4 - 2016-12-31 10:19 AM - Tudor Bărăscu

@Jukka, just tested for shapefiles and it's the same deal, if the shapefile geometry is single geometry (tested with point) it won't save but if it's multipoint it does.

I guess the best solution here would be to give a warning (as the user still can save the layer with the added part but in another format).

Later update:
Indeed it seems for Lines and Polygons it's as @Jukka mentioned.

#5 - 2017-03-08 02:46 AM - Tudor Bărăscu

- Status changed from Open to Closed

Should be mitigated with #e7c9b74afa96261cb1f3cc2c3c631a0a034420b3