

QGIS Application - Bug report #10216

can't set empty geometry with QgsVectorDataProvider::changeGeometryValues(QgsGeometryMap&)

2014-05-08 12:49 PM - Luigi Pirelli

Status: Closed	
Priority: Normal	
Assignee:	
Category: Data Provider	
Affected QGIS version: 2.2.0	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution:
Crashes QGIS or corrupts data:	Copied to github as #: 18662

Description

I discovered the problem trying to set value using python binding using Spatialite provider. I didn't test on postgis.

First case:

```
layer.dataProvider().changeGeometryValues( {index:None} )  
generate a misleading exception on changeGeometryValues dict parameter
```

Second case i followed suggestion to use:

```
layer.dataProvider().changeGeometryValues( {index:QgsGeometry()} )  
generate no error, but no modification on the layer feature geometry
```

this is due to a control in qgsspatialiteprovider.cpp:3985

```
if ( iter->asWkb() )
```

if it is QgsGeometry() => asWkb() return (correctly) 0 and the geometry is skipped... and changeGeometryValues(...) return true!

I don't know if changing this behavior can affect other places

if it's a bug, probably should be backported to 2.2

History

#1 - 2014-05-09 12:35 AM - Luigi Pirelli

testing first case:

1) get a spatialite layer and select it (geometry constraining have to allow empty geometry or NULL value)

2) from python console

```
vl=iface.activeLayer()
```

```
vl.dataProvider().changeGeometryValues( {3L:None} ) <- in this case 3L is a valid index
```

Traceback (most recent call last):

```
File "<input>", line 1, in <module>
```

```
TypeError: QgsVectorDataProvider.changeGeometryValues(dict-of-qint64-QgsGeometry): argument 1 has unexpected type 'dict'
```

testing second case:

1) get a spatialite layer and select it

2) from python console

```
vl=iface.activeLayer()
```

```
vl.dataProvider().changeGeometryValues( {3L:QgsGeometry()} ) <- in this case 3L is a valid index
```

```
True
```

- 3) check that geometry is not changed (refreshing canvas or checking in DB)
- 4) check that it works using geometry different from None or QgsGeometry()

#2 - 2014-05-09 03:03 AM - Luigi Pirelli

First type error

TypeError: QgsVectorDataProvider.changeGeometryValues(dict-of-qint64-QgsGeometry): argument 1 has unexpected type 'dict'

I think is originated by SIP wrapper because call doesn't arrive to c++ changeGeometryValues method.

I'll try to write a patch only for the case 2

#3 - 2014-05-09 03:11 AM - Luigi Pirelli

I can confirm bug also pro Postgres provider

#4 - 2014-05-09 06:17 AM - Luigi Pirelli

- *Status changed from Open to Closed*

closed with commit 38e694713a742baa85577c6454934d0ca43a7f66 thanks to Jürgen fisher for some modification of the pull request:

<https://github.com/qgis/QGIS/pull/1343>