

QGIS Application - Bug report #6074

Using QgsDataSourceURI to load a PostGIS table causes error if query returns empty and Geometry type is GEOMETRY

2012-07-20 04:17 AM - Ian Packham

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Data Provider/PostGIS	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution: invalid
Crashes QGIS or corrupts data:		Copied to github as #: 15431

Description

I am using the following code to load a vector layer from a PostGIS table:

```
uri = QgsDataSourceURI()
uri.setConnection(self.host, str(self.port), self.database, self.username, self.password)
uri.setDataSource(schema, postGisTable, "the_geom",sqlstmt,'gid')
try:
    #if sql does not return data - get PostGIS error, but not exception?
    vlayer = QgsVectorLayer(uri.uri(), layerName, "postgres")
except:
    QMessageBox.critical(self.iface.mainWindow(), "Error", "Problem setting QgsVectorLayer")
if not vlayer.isValid():
    QMessageBox.critical(self.iface.mainWindow(),"Error","Layer failed to load!")
```

If the sqlstmt returns an empty query, in some cases my plugin shows the "Layer failed to load!" message meaning the layer is invalid (but is never caught by the previous try block).

Error in the General Log Messages is:

```
Geometry type and srid for empty column the_geom of "cmt"."subbasinsoilsdrainage_eastern_union" undefined.
```

On investigation I have discovered that if the Geometry type of the PostGIS layer is the generic GEOMETRY type, then I get this error. If the Geometry type is MultiPolygon or MultiPoint, then an empty layer works OK.

If this is expected behaviour then should we avoid the GEOMETRY type in our PostGIS tables?

History

#1 - 2012-07-20 04:25 AM - Jürgen Fischer

- Resolution set to invalid

- Status changed from Open to Closed

with empty tables that don't have a specific geometry type and/or you have to specify the expected geometry type with [QgsDataSource::setWkbType\(\)](#) and expected srid with [QgsDataSource::setSrid\(\)](#)