

QGIS Application - Bug report #21436

DBManager: spatial indexes are not reamed when a table is renamed

2019-03-01 11:20 AM - Pedro Venâncio

Status:	Open	
Priority:	Normal	
Assignee:		
Category:	DB Manager	
Affected QGIS version:	3.6.0	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 29253
Description		
<p>DBManager throws an error when importing a new layer to PostGIS, and the layer name is the same of an old layer already in PostGIS (name meanwhile changed). As the old layer name had a spatial index with the same name structure (sidx_ + layer_name + _the_geom) of the new layer name, DBManager throws an error, instead of show an warning window or so.</p> <p>An error has occurred while executing Python code:</p> <pre>db_manager.db_plugins.plugin.DbError: relation "sidx_coordenadas_ema_the_geom" already exists</pre> <p>Traceback (most recent call last):</p> <pre>File "C:/OSGEO4~1/apps/qgis-rel-dev/.python/plugins/db_manager/db_plugins\connector.py", line 86, in _execute cursor.execute(sql) psycopg2.ProgrammingError: relation "sidx_coordenadas_ema_the_geom" already exists</pre> <p>During handling of the above exception, another exception occurred:</p> <p>Traceback (most recent call last):</p> <pre>File "C:/OSGEO4~1/apps/qgis-rel-dev/.python/plugins/db_manager\dlg_import_vector.py", line 373, in accept self.db.connector.createSpatialIndex((schema, table), geom) File "C:/OSGEO4~1/apps/qgis-rel-dev/.python/plugins/db_manager/db_plugins\postgis\connector.py", line 999, in createSpatialIndex self._execute_and_commit(sql) File "C:/OSGEO4~1/apps/qgis-rel-dev/.python/plugins/db_manager/db_plugins\connector.py", line 100, in _execute_and_commit self._execute(None, sql) File "C:/OSGEO4~1/apps/qgis-rel-dev/.python/plugins/db_manager/db_plugins\connector.py", line 94, in _execute raise DbError(e, sql) db_manager.db_plugins.plugin.DbError: relation "sidx_coordenadas_ema_the_geom" already exists</pre> <p>Python version: 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] QGIS version: 3.6.0-Noosa Noosa, 6b6a1ba5bc</p>		

History

#1 - 2019-03-01 09:55 PM - Giovanni Manghi

- Status changed from Open to Feedback

Does it happens in a previous release? only after renaming a table or also after deleting one?

#2 - 2019-03-04 05:13 PM - Pedro Venâncio

- Status changed from *Feedback* to *Open*

Ok, I've been digging more in this issue and:

- It only happens in QGIS 3 (3.4.5, 3.6.0 and master) using the 'Create spatial index' option in 'Import vector layer' window.
- It does not happen when importing the layer without 'Create spatial index' option, and creating the spatial index after, in DB Manager Info tab (No spatial index defined (create it)). This way, DB Manager shows the Database error window with 'relation "sidx_coordenadas_ema_the_geom" already exists' message.
- In QGIS 2.18.28, using the 'Create spatial index' option in 'Import vector layer' window, DB Manager imports the layer, does not create the spatial index, does not throw the Python error, and does not show the 'Import was successful' window message. 'Import vector layer' window keeps open indefinitely, although the layer be successfully imported, without spatial index.

This only happens after renaming a table, without renaming the correspondent spatial index. Dropping the table, the spatial index goes with it.

#3 - 2019-03-05 06:04 PM - Giovanni Manghi

- Operating System deleted (*Windows 10*)

- Subject changed from *DBManager Error when creating a spatial index with a name already existent in PostGIS* to *DBManager: spatial indexes are not reamed when a table is renamed*