# QGIS Application - Bug report #16935 Editing a Spatiallite/GPKG layer added by d&d (or DB Manager) leads to error and data corruption

2017-07-27 12:36 PM - Giovanni Manghi

	Closed		
Priority:	High		
Assignee:	Alessandro Pasotti		
Category:	Vectors		
Affected QGIS version:master		<b>Regression?:</b>	No
Operating System:		Easy fix?:	No
Pull Request or Patch súpplied:		Resolution:	fixed/implemented
Crashes QGIS or corruptesdata:		Copied to github as #:	24834
Description			
2) digitize a polygo			
<ol><li>start a new proj</li></ol>	ect		
4) add the above I	ayer in the new project by dragging a	nd dropping the Spatialite DB from outs	side QGIS within the QGIS main window
5) put the layer in	edit mode, split the polygon with the "	split features" tool, try to save	
Could not commit	changes to layer teste aaa Polygon		
	: 1 geometries were changed.		
Ellois: SUCCESS	•		
ERROR: 1 featur	e(s) not added.		
ERROR: 1 featur Provider errors		ed:	
ERROR: 1 featur Provider errors OGR error	S:	ed:	
ERROR: 1 featur Provider errors OGR error	s: creating feature -2: sqlite3_step() faile	ed:	
ERROR: 1 featur Provider errors OGR error UNIQUE c	s: creating feature -2: sqlite3_step() faile		

### Associated revisions

Revision 73d6765e - 2017-11-20 05:04 PM - Alessandro Pasotti

[bugfix] Editing a GPKG layer added by d&d leads

... to error and data corruption

Fixes #16935 for GPKG (OGR), still needs to check spatialite

Thanks to Matthias Kuhn for pointing me into the right direction

### History

### #1 - 2017-07-27 12:39 PM - Giovanni Manghi

- Category changed from Data Provider/SpatiaLite to Vectors

- Subject changed from Editing a Spatiallite layer added by d&d leads to error and data corruption to Editing a Spatiallite/GPKG layer added by d&d

Correction, this is not specific of Spatialite, it happens the same with GPKGs

#### #2 - 2017-07-27 12:41 PM - Giovanni Manghi

- Subject changed from Editing a Spatiallite/GPKG layer added by d&d leads to error and data corruption to Editing a Spatiallite/GPKG layer added by d&d (or DB Manager) leads to error and data corruption

It affects also GPKGs added via DB Manager, while Spatialite layers seem ok (from DB Manager).

#### #3 - 2017-11-20 09:34 AM - Alessandro Pasotti

- Assignee set to Alessandro Pasotti

#### #4 - 2017-11-20 09:49 AM - Alessandro Pasotti

- Status changed from Open to Feedback
- Affected QGIS version changed from 2.18.11 to master

What's happening here is pretty clear: by splitting the polygon you create a new geometry, but the primary key of the table is just copied from the original feature attribute, when you commit the DB refuses to save due to a UNIQUE constraint in the primary key.

I think this is the expected behavior: what do you think should happen? (what is the expected behavior for the the primary key value?)

#### #5 - 2017-11-20 12:14 PM - Alessandro Pasotti

Ok, got the error but I'm still unsure about the solution: what happen here is:

- the split geometry operation is done within 2 distinct operations:

- 1) change the original geometry
- 2) insert the new splitted geometry

- the order is clearly wrong, because if the insert fails (which it does) you end up with the original geometry splitted but without the new splitted part - even if you change the order and commit changes, it will fail because (and here comes the real ugly issue) the order of various operations in the commitChanges is completely ignored (the order is always the same: first change all the geometries then insert all the features)

#### #6 - 2017-11-20 01:40 PM - Alessandro Pasotti

See also: https://lists.osgeo.org/pipermail/ggis-developer/2017-November/050586.html

### #7 - 2017-11-20 05:08 PM - Alessandro Pasotti

- Pull Request or Patch supplied changed from No to Yes
- Status changed from Feedback to In Progress

for gpkg: https://github.com/qgis/QGIS/pull/5679

Now checking spatialite ...

# #8 - 2017-11-21 02:00 PM - Anonymous

- Status changed from In Progress to Closed

- % Done changed from 0 to 100

Applied in changeset commit:qgis|73d6765e89dc5876ab5895a168b0585822d08607.

#### #9 - 2017-11-21 07:17 PM - Giovanni Manghi

Hi Alessandro, is #17185 related?

#### #10 - 2017-11-22 07:44 AM - Alessandro Pasotti

@giovanni, not sure: probably slightly related, if you want I can have a look to see if I can fix it in the same way I fixed this one.

Btw, there is a more general problem about rollbacks on complex editing operations, by wrapping the editing commands in transactions for the data sources that supports them. Maybe worthwhile to file a separate ticket for that.

## #11 - 2017-11-24 07:30 PM - Giovanni Manghi

- Resolution set to fixed/implemented