

QGIS Application - Bug report #5264

Spatialite Provider / fTools Select by Location does not find intersections

2012-03-30 02:39 AM - Liam Veitch

Status:	Closed	
Priority:	High	
Assignee:		
Category:	Processing/QGIS	
Affected QGIS version:	master	Regression?:
Operating System:	all	Easy fix?:
Pull Request or Patch supplied:	no	Resolution: fixed
Crashes QGIS or corrupts data:	no	Copied to github as #: 14995
Description		
fTools 'Select by Location' tool does not find intersecting geometry when using a Spatialite Layer.		
Tested working fine with ESRI Shapefile and MYSQL layers.		

Associated revisions

Revision 0b8e1130 - 2012-05-01 12:53 PM - Alexander Bruy

Spatialite support in Select by Location tool (fix #5264)

History

#1 - 2012-03-31 04:15 AM - Liam Veitch

- File Spatialite_fTools_Bug.zip added

I've uploaded a project for others to test.

#2 - 2012-04-16 12:34 AM - Alexander Bruy

- OS version deleted (XP)
- Priority changed from Normal to High
- Target version changed from Version 1.7.4 to Version 1.8.0
- Operating System changed from Windows to all

Seems this is common problem for all fTools and Spatialite layers. See also #4571

#3 - 2012-04-16 01:26 AM - Sandro Furieri

Just tested on pure Spatialite:

```
SELECT pg.pkuid, pt.pkuid
FROM Polygons AS pg, points AS pt
WHERE ST_Intersects(pg.geometry, pt.geometry) = 1;
```

1|3

1|6

the above query works nicely on behalf of the DB file included in Spatialite_fTools_Bug.zip

Anyway, as far as I can see, fTools doesn't use the internal Spatial capabilities supplied by Spatialite; it's a Python process attempting to retrieve "raw" features supplied by the underlying QGIS data provider, then calling GEOS so to perform actual spatial processing (exactly the same as internally managed by Spatialite's own Spatial SQL functions).

So standing things, I can only suppose that:

- a) fTools apply some wrong assumption about geometries/features returned by the Spatialite data provider
- b) alternatively, the data provider itself returns badly formatted features (this seeming less probable, because only fTools apparently seems to get problems when processing Spatialite data: AFAIK any other QGIS module works exactly as expected)

I'm not a Python developer and fTools code is rather complex: sorry, but I'm completely unable to go in further depth. Anyway I hope that the above considerations could be useful for some other developer interested in this topic.

#4 - 2012-04-16 04:35 AM - Giovanni Manghi

see also #4571

#5 - 2012-05-01 04:02 AM - Alexander Bruy

- Status changed from Open to Closed

Fixed in changeset commit:"0b8e1130f1176f20b4d1c8de9c320da6e24b829e".

#6 - 2012-05-01 04:02 AM - Alexander Bruy

- Resolution set to fixed

#7 - 2012-05-01 04:03 AM - Alexander Bruy

BTW, this tool duplicates SpatialQuery plugin functionality and probably should be removed

#8 - 2017-05-01 01:22 AM - Giovanni Manghi

The "fTools" category is being removed from the tracker, changing the category of this ticket to "Processing/QGIS" to not leave the category orphaned.

Files
