

QGIS Application - Bug report #8219

fTools "Convex hull(s)" does not work if a input field is specified

2013-07-05 01:24 AM - Minoru Akagi

<b>Status:</b>	Closed	
<b>Priority:</b>	Severe/Regression	
<b>Assignee:</b>		
<b>Category:</b>	Processing/QGIS	
<b>Affected QGIS version:</b>	master	<b>Regression?:</b>
<b>Operating System:</b>		<b>Easy fix?:</b>
<b>Pull Request or Patch supplied:</b>		<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>		<b>Copied to github as #:</b> 17033
<b>Description</b>		
<p>When I used "Convex hull(s)" tool with "Create convex hulls based on input field" option selected, the following error message was logged.</p> <p>An error has occured while executing Python code:</p> <p>Traceback (most recent call last): File "C:\\OSGeo4W\\apps\\qgis-dev\\python\\plugins\\fTools\\tools\\doGeoprocessing.py", line 300, in run geos, feature, match, error = self.convex_hull( useField ) File "C:\\OSGeo4W\\apps\\qgis-dev\\python\\plugins\\fTools\\tools\\doGeoprocessing.py", line 490, in convex_hull vproviderA.rewind() AttributeError: 'QgsVectorDataProvider' object has no attribute 'rewind'</p> <p>Python version: 2.7.4 (default, Apr 6 2013, 19:54:46) [MSC v.1500 32 bit (Intel)]</p> <p>QGIS version: 1.9.0-Master Master, 630427f</p>		

Associated revisions

Revision 522aecc0 - 2013-07-12 12:18 AM - Daniel Vaz

Fix #8219

History

#1 - 2013-07-05 01:37 AM - Minoru Akagi

In addition, it is necessary to check "Use only selected features" to replicate this error.

#2 - 2013-07-05 01:47 AM - Minoru Akagi

Without feature selection, the following error was logged.

Traceback (most recent call last):  
File "C:\\OSGeo4W\\apps\\qgis-dev\\python\\plugins\\fTools\\tools\\doGeoprocessing.py", line 300, in run  
geos, feature, match, error = self.convex\_hull( useField )

```
File "C:\\OSGeo4W\\apps\\qgis-dev\\python\\plugins\\fTools\\tools\\doGeoprocessing.py", line 550, in convex_hull
    if idVar.strip() == i.strip():
AttributeError: 'QPyNullVariant' object has no attribute 'strip'
```

### #3 - 2013-07-06 12:57 AM - Minoru Akagi

The reason of the error "'QPyNullVariant' object has no attribute 'strip'" is that there are NULL values in the field of my data.

### #4 - 2013-07-06 06:29 AM - Daniel Vaz

Please, attach the dataset you are using.

### #5 - 2013-07-06 12:12 PM - Minoru Akagi

- File *polygons.zip* added

The attribute table of the attached dataset has three fields. "id" and "name" are string type fields. "nvertex" is integer type field. The "name" field includes NULL values.

### #6 - 2013-07-06 12:32 PM - Daniel Vaz

I commented the line `vproviderA.rewind()`  
so the program pass but I got a crash.

```
Fatal: QGIS died on signal 11
Stacktrace (piped through c++filt):
qgis(myMessageOutput(QtMsgType, char const*)+0x24f)[0x55145c]
/usr/lib/x86_64-linux-gnu/libQtCore.so.4(qt_message_output(QtMsgType, char const*)+0x30)[0x7f204193e4d0]
/usr/lib/x86_64-linux-gnu/libQtCore.so.4(+0x71938)[0x7f204193e938]
/usr/lib/x86_64-linux-gnu/libQtCore.so.4(qFatal(char const*, ...)+0x94)[0x7f204193eac4]
qgis(qgisCrash(int)+0x1f)[0x55120b]
/lib/x86_64-linux-gnu/libc.so.6(+0x370b0)[0x7f203ee460b0]
/usr/lib/libgdal.so.1(swq_select_summarize(swq_select*, int, char const*)+0x93)[0x7f2043945ba3]
/usr/lib/libgdal.so.1(OGRGenSQLResultsLayer::PrepareSummary()+0x162)[0x7f20437dcb22]
/usr/lib/libgdal.so.1(OGRGenSQLResultsLayer::GetFeature(long)+0xbd)[0x7f20437de81d]
/usr/local/lib/qgis/plugins/libogrprovider.so(QgsOgrProvider::uniqueValues(int, QList<QVariant>+0x553)[0x7f2020412ba9]
/usr/lib/python2.7/dist-packages/qgis/core.so(+0x4e54cc)[0x7f2017c724cc]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(PyEval_EvalFrameEx+0x5e75)[0x7f201945b8d5]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(PyEval_EvalFrameEx+0x5c03)[0x7f201945b663]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(PyEval_EvalFrameEx+0x5c03)[0x7f201945b663]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(PyEval_EvalCodeEx+0x81a)[0x7f20194ef2fa]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(+0xff4a6)[0x7f20194ef4a6]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(PyObject_Call+0x4e)[0x7f2019521d8e]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(+0xa106d)[0x7f201949106d]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(PyObject_Call+0x4e)[0x7f2019521d8e]
/usr/lib/x86_64-linux-gnu/libpython2.7.so.1.0(PyEval_CallObjectWithKeywords+0x47)[0x7f2019522b37]
/usr/lib/python2.7/dist-packages/sip.so(+0x98e2)[0x7f2018fd88e2]
```

```
/usr/lib/python2.7/dist-packages/PyQt4/QtCore.so(+0x8c885)[0x7f2018be4885]
/usr/lib/python2.7/dist-packages/PyQt4/QtCore.so(+0xd79de)[0x7f2018c2f9de]
/usr/lib/x86_64-linux-gnu/libQtCore.so.4(+0x7bbec)[0x7f2041948bec]
/lib/x86_64-linux-gnu/libpthread.so.0(+0x7f8e)[0x7f203ebf9f8e]
/lib/x86_64-linux-gnu/libc.so.6(clone+0x6d)[0x7f203ef08e1d]
Aborted (core dumped)
```

The function `ftools_utils.getUniqueValues()`  
is the crash point.

**#7 - 2013-07-09 02:05 PM - Daniel Vaz**

Fixed in <https://github.com/ddanielvaz/Quantum-GIS/commit/a7c8b9423880e79f89466dc299a70f28b8cbc233>

Please see pull request: <https://github.com/qgis/Quantum-GIS/pull/709>

**#8 - 2013-07-11 03:26 PM - Nathan Woodrow**

- *Status changed from Open to Closed*

Fixed in changeset commit:"b45b7d6f88d9165cce43a1f6a7573a56bd1d8a0e".

**#9 - 2017-05-01 01:21 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**

polygons.zip	1.91 KB	2013-07-06	Minoru Akagi
--------------	---------	------------	--------------