

## QGIS Application - Bug report #21615

### refactorfields algorithm fails for field names that start with a digit

2019-03-19 02:07 PM - Peter Gipper

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|
| <b>Status:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Closed          |                                     |
| <b>Priority:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Normal          |                                     |
| <b>Assignee:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                                     |
| <b>Category:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Processing/QGIS |                                     |
| <b>Affected QGIS version:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.4.5           | <b>Regression?:</b> No              |
| <b>Operating System:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Windows 7       | <b>Easy fix?:</b> No                |
| <b>Pull Request or Patch supplied:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No              | <b>Resolution:</b> invalid          |
| <b>Crashes QGIS or corrupts data:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No              | <b>Copied to github as #:</b> 29431 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                     |
| <p>If a vector layer has field names starting with digits (i.e. "1_field") the algorithm 'refactorfields' throws an exception:<br/><i>syntax error, unexpected NAME, expecting \$end</i></p> <p>Not sure if this is a bug or just not supported. When running refactorfields via QGIS GUI there are no problems.</p> <p>To reproduce, execute the following code in qgis python console:</p> <pre>layer = QgsVectorLayer('Point?crs=epsg:4326&amp;field=1_field:string(10)', 'test', 'memory') field = layer.fields()[0] field_map = [{     'name': field.name(),     'type': field.type(),     'length': field.length(),     'precision': field.precision(),     'expression': field.name() }] processing.runAndLoadResults('qgis:refactorfields',{     'INPUT': layer,     'FIELDS_MAPPING': field_map,     'OUTPUT':'memory:test_refactored' })</pre> |                 |                                     |

#### History

##### #1 - 2019-03-20 12:30 PM - Giovanni Manghi

- Category changed from Processing/Core to Processing/QGIS

##### #2 - 2019-03-21 03:47 AM - Nyall Dawson

- Resolution set to invalid

- Status changed from Open to Closed

The expression needs to be

"1\_field"

i.e. the field name MUST be double quoted. When running through the GUI it's automatically done (unless you manually edit the expression). You need to update your code to:

```
field_map = [{
    'name': field.name(),
```

```
'type': field.type(),  
'length': field.length(),  
'precision': field.precision(),  
'expression': "\"field.name()\""  
}]
```