

QGIS Application - Bug report #18605

Field Mapper parameters cannot have parent layer set in models

2018-04-01 01:45 AM - gcarrillo -

Status: Open	
Priority: Normal	
Assignee: Victor Olaya	
Category: Processing/Modeller	
Affected QGIS version: 3.7(master)	Regression?: No
Operating System: GNU/Linux (Linux Mint based on Ubuntu X	Easy fix?: No
Pull Request or Patch supplied: No	Resolution:
Crashes QGIS or corrupts data: No	Copied to github as #: 26493
Description	
<p>A model using Refactor Fields algorithm is expected to have two inputs:</p> <ol style="list-style-type: none">1) Input Layer2) Fields Mapper <p>When running such model and setting an input layer, the Source Expression in the Fields Mapper widget never gets a layer set. Therefore, users cannot choose among input layer fields nor use "Fields and Values" section in the Expression builder dialog.</p> <p>Explanatory GIF: http://downloads.tuxfamily.org/tuxgis/tmp/refactor_fields_expression_layer.gif</p>	

History

#1 - 2018-04-01 05:10 AM - gcarrillo -

- File model_etl_ladm_col_model3 added

- File model_etl_ladm_col.model3 added

I've discovered a few strange things there:

1) Modeler seems to force parameter names to lowercase, which doesn't seem the case of other Processing algorithms.

2) In the FieldsMappingWidgetWrapper (

<https://github.com/qgis/QGIS/blob/3c7f7454245d63ecd04f092a5c698becf1a233dc/python/plugins/processing/algs/qgis/ui/FieldsMappingPanel.py#L482>)

this comparison is made:

```
wrapper.param.name() == self.param.parentLayerParameter()
```

A quick check of my model parameters, like:

```
alg = QgsApplication.processingRegistry().algorithmById("model:mymodel")
for p in alg.parameterDefinitions():
    print("parameter name", p.name())
    if type(p) == processing.algs.qgis.FieldsMapper.FieldsMapper.ParameterFieldsMapping:
        print("...parent layer paremeter", p.parentLayerParameter())
```

allows me to know that my input parameter and the parentLayerParameter will never match because my model parameters are in lowercase, whereas the RefactorFields input is uppercase (it is 'INPUT').

3) If I edit the .model3 file and give my parameter the name 'INPUT' (uppercase), the whole issue is gone. The problem is saving in the Processing modeler.

I attach two models:

- + A working model (model_etl_ladm_col.model3)
- + A non-working model (model_etl_ladm_col_.model3)

#2 - 2018-04-02 02:43 AM - Nyal Dawson

- Subject changed from *Malfunction using Refactor Fields algorithm in Processing models* to *Field Mapper parameters cannot have parent layer set in models*

Root cause is that when using a field mapper parameter in model, there's currently no way to set the associated parent layer parameter

#3 - 2019-03-09 04:35 PM - Giovanni Manghi

- Status changed from *Open* to *Feedback*

Please check if this issue is still valid on QGIS 3.4.5 or 3.6.

#4 - 2019-03-18 12:26 AM - gcarrillo -

Giovanni Manghi wrote:

| Please check if this issue is still valid on QGIS 3.4.5 or 3.6.

I confirm this is still happening in current master (v3.7).

#5 - 2019-03-20 12:36 PM - Giovanni Manghi

- Affected QGIS version changed from *master* to *3.7(master)*
- Status changed from *Feedback* to *Open*

Files

model_etl_ladm_col.model3	5.33 KB	2018-04-01	gcarrillo -
model_etl_ladm_col_.model3	5.33 KB	2018-04-01	gcarrillo -