

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 Xubuntu)	Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 26493
Description		
A model using Refactor Fields algorithm is expected to have two inputs: 1) Input Layer 2) Fields Mapper 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. Explanatory GIF: http://downloads.tuxfamily.org/tuxgis/tmp/refactor_fields_expression_layer.gif		

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 parameter", 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 -