QGIS Application - Bug report #18241
QgsVectorJoinInfo.setJoinFieldNamesSubset() wrong fields order

2018-02-27 07:24 AM - Mario Baranzini

Status:	Open		
Priority:	Normal		
Assignee:			
Category:	Vectors		
Affected QGIS version:	3.1(master)	**Regression?:**	No
Operating System:	Archlinux, Ubuntu	**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	
Crashes QGIS or corrupts data:		**Copied to github as #:**	26132

Description

By creating a join, via Python, if a subset of fields to be joined is defined, the joined fields will be in the same order as in the joined layer, but the values will be in the order of the list passed to setJoinFieldNamesSubset instead.

For example, by joining the 2 following layers
before_join.png

with this code
```
    join = QgsVectorLayerJoinInfo()
    join.setJoinLayer(layer_1)
    join.setJoinFieldName('id')
    join.setTargetFieldName('id')
    join.setJoinFieldNamesSubset(['column_b', 'column_a'])
    layer_2.addJoin(join)
```

I get the following result
after_join.png

where the data of the 2 fields are in different order compared to the name of the fields

I tested it on 2.18.11 on Archlinux and master on Ubuntu with the same result. Attached, the complete python code to test this example on QGIS 2.18 and QGIS 3.0

Files

before_join.png	36.8 KB	2018-02-27	Mario Baranzini
test_qgis3.py	1.76 KB	2018-02-27	Mario Baranzini
after_join.png	40.6 KB	2018-02-27	Mario Baranzini
test_qgis2.py	1.75 KB	2018-02-27	Mario Baranzini