

QGIS Application - Bug report #21947

Heatmap(KDE) overflow error on filtered postgis point layer

2019-04-27 06:04 PM - Anthony Foster

Status:	Feedback	
Priority:	Normal	
Assignee:		
Category:	Processing/QGIS	
Affected QGIS version:	3.4.5	Regression?: No
Operating System:	windows 10	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 29762
Description		
Hi, I am using QGIS 3.4.5 and attempting to creat a heatmap using the Heatmap(KDE) function built into this release. My data is stored in Postgres, has point geometry (srid 27700) and displays fully when the layer is added to qgis via postgis. I can create a heatmap using this layer without issue. However if I apply a filter to the layer (inside QGIS not postgres) the heatmap function will not open and displays the following stack trace; OverflowError: cannot convert float infinity to integer Traceback (most recent call last): File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\ProcessingToolbox.py", line 247, in executeAlgorithm dlg = AlgorithmDialog(alg, self.in_place_mode, iface.mainWindow()) File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\AlgorithmDialog.py", line 80, in <i>init</i> self.setMainWidget(self.getParametersPanel(alg, self)) File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\AlgorithmDialog.py", line 96, in getParametersPanel return ParametersPanel(parent, alg, self.in_place) File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\ParametersPanel.py", line 104, in <i>init</i> self.initWidgets() File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\ParametersPanel.py", line 243, in initWidgets wrapper.postInitialize(list(self.wrappers.values())) File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 185, in postInitialize self.setSource(wrapper.parameterValue()) File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 199, in setSource self.widget.setSource(source) File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 77, in setSource self.recalculate_bounds() File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 98, in recalculate_bounds self.pixelSizeChanged() File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 107, in pixelSizeChanged rows = max(round(self.raster_bounds.height() / cell_size) + 1, 1) OverflowError: cannot convert float infinity to integer Python version: 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] QGIS version: 3.4.5-Madeira Madeira, 89ee6f6e23 Python Path: C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python C:/Users/AT100447/AppData/Roaming/QGIS/QGIS3/profiles/default/python C:/Users/AT100447/AppData/Roaming/QGIS/QGIS3/profiles/default/python/plugins		

C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins
C:\Program Files\QGIS 3.4\bin\python37.zip
C:\PROGRA~1\QGIS3~1.4\apps\Python37\DLLs
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib
C:\Program Files\QGIS 3.4\bin
C:\PROGRA~1\QGIS3~1.4\apps\Python37
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\win32
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\win32\lib
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\Pythonwin
C:/Users/AT100447/AppData/Roaming/QGIS/QGIS3/profiles/default/python
C:\Users\AT100447\AppData\Roaming\QGIS\QGIS3\profiles\default\python\plugins\mmqgis/forms
C:\Users\AT100447\AppData\Roaming\QGIS\QGIS3\profiles\default\python\plugins

In my postgres dataset I have four variables;

postcode (character varying)

year (integer) - I have tried changing this data type to numeric and double precision but the issue did not change

date (timestamp without time zone)

geometry (point, 27700)

I have run this same procedure using data stored in 4326 and project crs as 3856 and it worked without issue. The issue occurs when data is stored as 27700 and project CRS is 27700.

History

#1 - 2019-05-01 03:26 PM - Saber Razmjooei

- Category changed from Rasters to Processing/Core

#2 - 2019-05-01 03:43 PM - Saber Razmjooei

- Status changed from Open to Feedback

Please update to 3.4.7 and report back. I can't reproduce the issue.

#3 - 2019-05-01 06:35 PM - Giovanni Manghi

Also cannot replicate on 3.6.2 on Linux.

#4 - 2019-05-02 11:56 AM - Anthony Foster

Saber Razmjooei wrote:

Please update to 3.4.7 and report back. I can't reproduce the issue.

Hi Saber,

I've updated and re-run. This is the stack;

OverflowError: cannot convert float infinity to integer

Traceback (most recent call last):

```
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\ProcessingToolbox.py", line 247, in executeAlgorithm
    return
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\AlgorithmDialog.py", line 80, in init
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\AlgorithmDialog.py", line 96, in getParametersPanel
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\ParametersPanel.py", line 104, in init
    self.initWidgets()
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\gui\ParametersPanel.py", line 243, in initWidgets
    wrapper.postInitialize(list(self.wrappers.values()))
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 185, in postInitialize
    self.setSource(wrapper.parameterValue())
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 199, in setSource
    self.widget.setSource(source)
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 77, in setSource
    self.recalculate_bounds()
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 98, in recalculate_bounds
    self.pixelSizeChanged()
File "C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins\processing\algs\qgis\ui\HeatmapWidgets.py", line 107, in pixelSizeChanged
    rows = max(round(self.raster_bounds.height() / cell_size) + 1, 1)
OverflowError: cannot convert float infinity to integer
```

Python version: 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)]

QGIS version: 3.4.5-Madeira Madeira, 89ee6f6e23

Python Path:

```
C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python
C:/Users/AT100447/AppData/Roaming/QGIS/QGIS3/profiles/default/python
C:/Users/AT100447/AppData/Roaming/QGIS/QGIS3/profiles/default/python/plugins
C:/PROGRA~1/QGIS3~1.4/apps/qgis-ltr/.python/plugins
C:\Program Files\QGIS 3.4\bin\python37.zip
C:\PROGRA~1\QGIS3~1.4\apps\Python37\DLLs
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib
C:\Program Files\QGIS 3.4\bin
C:\PROGRA~1\QGIS3~1.4\apps\Python37
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\win32
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\win32\lib
C:\PROGRA~1\QGIS3~1.4\apps\Python37\lib\site-packages\Pythonwin
C:/Users/AT100447/AppData/Roaming/QGIS/QGIS3/profiles/default/python
C:\Users\AT100447\AppData\Roaming\QGIS\QGIS3\profiles\default\python\plugins\mmqgis/forms
C:\Users\AT100447\AppData\Roaming\QGIS\QGIS3\profiles\default\python\plugins
.
```

It's worth noting that I can successfully run the heatmap function based on filtered data that is stored in SRID 4326. The issue occurs if I use 27700 - point layer and project have CRS set to 27700.

Thanks

#5 - 2019-05-02 12:07 PM - Saber Razmjooei

I am using a PostGIS layer in 27700.

Are you sure you are using correct cell size/no. of rows/columns?

#6 - 2019-05-02 12:15 PM - Anthony Foster

Saber Razmjooei wrote:

I am using a PostGIS layer in 27700.

Are you sure you are using correct cell size/no. of rows/columns?

The plugin doesn't open - If I click on the heatmap in the toolbox I immediately get a yellow warning at the top of the workspace and the above stack trace.
Could this be because I have a version of python installed as well as qgis?

#7 - 2019-05-02 01:21 PM - Giovanni Manghi

- Category changed from Processing/Core to Processing/QGIS

The plugin doesn't open - If I click on the heatmap in the toolbox I immediately get a yellow warning at the top of the workspace and the above stack trace. Could this be because I have a version of python installed as well as qgis?

please post/attach a sample of the data it is causing this issue to you.