

QGIS Application - Bug report #18007

QGIS 3 Vector data corruption when Adding a Point Feature

2018-01-30 09:27 PM - Calvin Hamilton

Status:	Closed	
Priority:	High	
Assignee:	Alessandro Pasotti	
Category:	Attribute table	
Affected QGIS version:	master	Regression?: Yes
Operating System:	Windows 7	Easy fix?: No
Pull Request or Patch applied:	Yes	Resolution: fixed/implemented
Crashes QGIS or corrupts data:	Yes	Copied to github as #: 25903
Description Attached is a sample data set to illustrate the problem. This was broken off as a separate issue from #17878. To create the issue load test.gpkg into QGIS. Open the Attribute Table. The attribute table should look something like 'attribute_table_before.jpg'. Now click on the "Toggle Editing" toolbar icon and then click on the "Add Point Feature" icon. Now click anywhere on the map canvas to add a feature. For 'label' I called it test and left 'latitude' and 'longitude' as NULL. The net results is that this new data is added to line 6 with 'Autogenerate' as the fid (which is probably now what it should do), but the big problem is that Row 1 data becomes corrupted in the fields 'latitude' and 'longitude'. It looks like these fields were truncated to two decimal places. Adding a new feature should not affect row 1 at all. See 'bad_data.jpg' for what happens.		
Related issues: Related to QGIS Application - Bug report # 17861: SQLite REAL numbers display... <div>Closed2018-01-15</div>		

Associated revisions

Revision 1adc55f3 - 2018-01-31 09:24 AM - Alessandro Pasotti

[bugfix] Lower priority of range widget for doubles

This was the root cause of several critical bugs with data corruption in the attribute table and forms: SpinBox has a fixed number of decimal places, which makes it not ideal for floating points because most of the times it rounds the number changing it when in edit mode even if the user has not really modified the value by writing in the spin box or using the controls.

So, the default is now back to the line edit (which has bugs in the validator, but that's another less critical and separate issue).

Partially fixes #17861
Partially fixes #18007

History

#1 - 2018-01-31 09:31 AM - Alessandro Pasotti

- Related to Bug report #17861: SQLite REAL numbers displayed as too many digits in Attribute Table added

#2 - 2018-01-31 09:42 AM - Alessandro Pasotti

- Pull Request or Patch supplied changed from No to Yes
- Assignee set to Alessandro Pasotti
- Status changed from Open to In Progress

Thanks for filing this, the root of this issue and of others related issues as well is that the default widget for "double" is now the spinbox widget, that has a fixed number of decimal places .

After my recent commits, the number of decimal places can be set by the user in the widget field options, but by default it takes the precision as reported by the provider, which is most of the times 0 (pure nonsense for a double).

But, even if the precision can now be set to something higher than 2 (the old default), you'll always (well, almost) have rounding errors that will alter the original value even if you don't directly edit it.

So, IMHO the only way out is to go back to the plain old linedit widget by default (like it was in 2.x). See my comments in <https://github.com/qgis/QGIS/pull/6209> and the new PR: <https://github.com/qgis/QGIS/pull/6236>

There is still a bug in the validator (which is basically not used) but I'll file a separate ticket (or - faster - just fix it)

- #3 - 2018-02-01 07:52 AM - Anonymous**
- % Done changed from 0 to 100
 - Status changed from In Progress to Closed

Applied in changeset commit:qgis|1adc55f376c93dcc986b714c55de5db0c4de7948.

- #4 - 2018-02-01 07:56 AM - Alessandro Pasotti**
- Resolution set to fixed/implemented

Please test the latest commits, all tests should be done with a new project because the default widgets for fields have changed.

- #5 - 2018-02-02 07:42 PM - Calvin Hamilton**

The issue is resolved.

Files			
test.gpkg	116 KB	2018-01-30	Calvin Hamilton
attribute_table_before.jpg	48.1 KB	2018-01-30	Calvin Hamilton
bad_data.jpg	54 KB	2018-01-30	Calvin Hamilton