QGIS Application - Bug report #20050 GPKG and SQLite files containing raster layers are incorrectly added to the map

2018-10-08 03:24 PM - Andrea Giudiceandrea

Status:	Open					
Priority:	Normal					
Assignee:	Normal					
Category:	Data Provider					
Affected QGIS v		Regression?: No				
Operating Syste		Easy fix?: No				
Pull Request or		Resolution:				
Crashes QGIS o		Copied to github as #: 27872				
Description						
	Ckage file contains only 1 raster Raster" dialog window to add the la	layer and you drag and drop the GPKG file into the map or you use the "Data over to the map, then:				
the layer is autom	atically added (without the "Select F	aster Layers to Add" dialog window appearing) only like				
filepath\filenar	ne.gpkg					
instead of						
GPKG:filepath	n/filename.gpkg:raster_layer_name					
See Issue #20031	I and PR <u>https://github.com/qgis/QC</u>	AIS/pull/8127 about the a similar issue fixed for vector layers import.				
Moreover, the ras (as for vector laye	•	stead of a proper name like "raster_layer_name" or "filename raster_layer_name"				
	ckage file contains more then 1 Raster" dialog window to add the la	raster layer and you drag and drop the GPKG file into the map or you use the "Data yer to the map, then:				
the "Select Raster column blank	Layers to Add" dialog window ap	pears showing only values in the "Layers ID" column but with the "Layer name"				
	drea.github.io/QGIS330_6.PNG					
The selected raster layer(s) are then added with a correct source like						
GPKG:filepath	n/filename.gpkg:raster_layer_name					
but with a blank	name instead of a proper name like	"raster_layer_name" or "filename raster_layer_name" (as for vector layers).				
3) When a geopackage file contains both raster layer(s) and vector layer(s) and you drag and drop the GPKG file in the map, then only raster layer(s) will be added to the map: if there is only 1 raster layer you'll fall back again in the above first case, if there are more then 1 layer you'll fall back again in the above second case.						

Using the "Data Source Manager" dialog window, with the "Vector" tab you can add the contained vector layer(s) without problems, but trying to add the raster layer(s) with the "Raster" tab you will fall back again in the above first or second cases.

4) Using instead the Browser panel, raster layers in a geopackage GPKG file are always correctly added to the map with a source like:

GPKG:filepath/filename.gpkg:raster_layer_name

and with the name of "raster_layer_name".

EDIT:

These strange and incorrect behaviours also happen for SQlite files containing rasterlite raster layers.

1), 2), 3) are almost the same as the above ones, except that the source string for rasterlite rasters it's like

RASTERLITE:filepath/filename.sqlite,table=rasterlite_layer_name

4) With the Browser panel is not possible to add to the map the rasterlite rasters contained in a sqlite file, but only the related metadata tables.

History

#1 - 2018-10-08 04:06 PM - Andrea Giudiceandrea

- File 1rlayer.gpkg added
- File 2rlayer.gpkg added
- File 1vlayer+2rlayer.gpkg added
- File 1vlayer+1rlayer.gpkg added

#2 - 2018-10-10 11:01 PM - Andrea Giudiceandrea

- Description updated

- Subject changed from Geopackage GPKG files containing raster layers are incorrectly added to the map to GPKG and SQLite files containing raster layers are incorrectly added to the map

#3 - 2018-10-28 02:03 PM - Andrea Giudiceandrea

- Affected QGIS version changed from 3.3(master) to 3.4.0

Confirmed on 3.4.0

#4 - 2019-03-17 12:47 PM - Andrea Giudiceandrea

- Affected QGIS version changed from 3.4.0 to 3.4.5

Confirmed also with both QGIS LTR 3.4.5-1 (89ee6f6e23) and QGIS master 3.7.0-9 (37faa0d883) on Windows 7 64 bit.

In addition to the previously reported behaviour, with QGIS LTR 3.4.5 (but not with 3.3, 3.4.0, 3.7), if a GPKG or an SQLite file containing more then one raster layer (see reported cases 2 and 3) is dragged and dropped in the map, the following critical error is also displayed in the QGIS Message bar

Invalid Data Source: C:/TEST/2rlayer.gpkg is not a valid or recognized data source.

and the Log Messages panel reports

in the Messages tab

CRITICAL Invalid Data Source : C:/TEST/2rlayer.gpkg is not a valid or recognized data source.

in the General tab

WARNING Unable to load C:/TEST/2rlayer.gpkg

although the raster layers are added to the map.

Those errors are not displayed using the Data Source Manager dialog window or the Browser panel.

Files			
1rlayer.gpkg	100 KB	2018-10-08	Andrea Giudiceandrea
1vlayer+1rlayer.gpkg	128 KB	2018-10-08	Andrea Giudiceandrea
1vlayer+2rlayer.gpkg	160 KB	2018-10-08	Andrea Giudiceandrea
2rlayer.gpkg	140 KB	2018-10-08	Andrea Giudiceandrea