

QGIS Application - Bug report #21429

error adding (from QGIS Browser) GeoPackage tile layer with identifier that does not match table name

2019-02-28 04:08 PM - Robert St. John

Status: Open	
Priority: Normal	
Assignee:	
Category: Browser	
Affected QGIS version: 3.6.0	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution:
Crashes QGIS or corrupts data:	Copied to github as #: 29246
Description	
I cannot add a raster layer from a GeoPackage tile table whose name does not match the identifier column value in the gpkg_contents table of the GeoPackage. Steps to reproduce: 1. Right click the <i>GeoPackage</i> node in the <i>Browser</i> panel and select the <i>New Connection...</i> item. 2. Browse to a GeoPackage file with the characteristics described above (example attached) and select <i>Open</i>. 3. In the <i>Browser</i> panel, expand the newly added node for the GeoPackage connection. A raster layer child node should appear with the raster icon and the same name as the value of the identifier column for gpkg_contents table row for the tile table in the GeoPackage. This will be <i>Wetsaw Test</i> for the attached example GeoPackage. 4. Double click the raster layer child node (or right click and select <i>Add Layer to Project</i>). 5. QGIS displays an error message at the top of the canvas and a matching error message in the <i>Log Messages</i> panel: CRITICAL Invalid Layer : GDAL provider Cannot open GDAL dataset GPKG:/path/to/tiles.gpkg:Wetsaw Test: Cannot find table 'Wetsaw Test' in GeoPackage dataset Raster layer Provider is not valid (provider: gdal, URI: GPKG:/path/to/tiles.gpkg:Wetsaw Test) If I simply drag and drop the GeoPackage onto the <i>Layers</i> panel, QGIS adds a raster layer for the GeoPackage name after the GeoPackage file, not the gpkg_contents.identifier column. I am not sure what QGIS does in that interaction if the GeoPackage contains multiple tile and/or feature tables.	

History

#1 - 2019-03-01 10:07 PM - Giovanni Manghi

- Operating System deleted (macOS)
- Category changed from Browser to Data Provider
- Status changed from Open to Feedback

can you see the same message if you gdalinfo the gpkg in your machine?

```
giovanni@sibirica:~/Downloads$ gdalinfo tiles.gpkg
```

Warning 1: Database relies on the 'gpkg_crs_wkt' (http://www.geopackage.org/spec/#extension_crs_wkt) extension that should be implemented in order to read it safely, but is not currently. Some data may be missing while reading that database.

Driver: GPKG/GeoPackage

Files: tiles.gpkg

Size is 979, 939

Coordinate System is:

```
PROJCS["WGS 84 / Pseudo-Mercator",  
  GEOGCS["WGS 84",  
    DATUM["WGS_1984",  
      SPHEROID["WGS 84",6378137,298.257223563,  
        AUTHORITY["EPSG","7030"]],  
      AUTHORITY["EPSG","6326"]],  
    PRIMEM["Greenwich",0,  
      AUTHORITY["EPSG","8901"]],  
    UNIT["degree",0.0174532925199433,  
      AUTHORITY["EPSG","9122"]],  
    AUTHORITY["EPSG","4326"]],  
  PROJECTION["Mercator_1SP"],  
  PARAMETER["central_meridian",0],  
  PARAMETER["scale_factor",1],  
  PARAMETER["false_easting",0],  
  PARAMETER["false_northing",0],  
  UNIT["metre",1,  
    AUTHORITY["EPSG","9001"]],  
  AXIS["X",EAST],  
  AXIS["Y",NORTH],  
  EXTENSION["PROJ4","+proj=merc +a=6378137 +b=6378137 +lat_ts=0.0 +lon_0=0.0 +x_0=0.0 +y_0=0 +k=1.0 +units=m +nadgrids=@null +wktext  
+no_defs"],  
  AUTHORITY["EPSG","3857"]]
```

Origin = (-8537258.699999999254942,4773269.700000000186265)

Pixel Size = (19.109257030487100,-19.109257030487100)

Metadata:

DESCRIPTION=Wetsaw Test: Baltimore area OSM tiles

IDENTIFIER=Wetsaw Test

ZOOM_LEVEL=12

Image Structure Metadata:

INTERLEAVE=PIXEL

Corner Coordinates:

Upper Left (-8537258.700, 4773269.700) (76d41'29.40"W, 39d21'33.48"N)

Lower Left (-8537258.700, 4755326.108) (76d41'29.40"W, 39d14' 4.41"N)

Upper Right (-8518550.737, 4773269.700) (76d31'24.40"W, 39d21'33.48"N)

Lower Right (-8518550.737, 4755326.108) (76d31'24.40"W, 39d14' 4.41"N)

Center (-8527904.719, 4764297.904) (76d36'26.90"W, 39d17'49.05"N)

Band 1 Block=512x512 Type=Byte, ColorInterp=Red

Overviews: 489x469

Mask Flags: PER_DATASET ALPHA

Overviews of mask band: 489x469

Band 2 Block=512x512 Type=Byte, ColorInterp=Green

Overviews: 489x469

Mask Flags: PER_DATASET ALPHA

Overviews of mask band: 489x469

Band 3 Block=512x512 Type=Byte, ColorInterp=Blue

Overviews: 489x469

Mask Flags: PER_DATASET ALPHA

Overviews of mask band: 489x469

Band 4 Block=512x512 Type=Byte, ColorInterp=Alpha

Overviews: 489x469

No, gdalinfo seems OK with it.

```
robertstjohn:wetsaw-out stjohnr> gdalinfo tiles.gpkg
Driver: GPKG/GeoPackage
Files: tiles.gpkg
Size is 979, 939
Coordinate System is:
PROJCS["WGS 84 / Pseudo-Mercator",
  GEOGCS["WGS 84",
    DATUM["WGS_1984",
      SPHEROID["WGS 84",6378137,298.257223563,
        AUTHORITY["EPSG","7030"]],
      AUTHORITY["EPSG","6326"]],
    PRIMEM["Greenwich",0,
      AUTHORITY["EPSG","8901"]],
    UNIT["degree",0.0174532925199433,
      AUTHORITY["EPSG","9122"]],
    AUTHORITY["EPSG","4326"]],
  PROJECTION["Mercator_1SP"],
  PARAMETER["central_meridian",0],
  PARAMETER["scale_factor",1],
  PARAMETER["false_easting",0],
  PARAMETER["false_northing",0],
  UNIT["metre",1,
    AUTHORITY["EPSG","9001"]],
  AXIS["X",EAST],
  AXIS["Y",NORTH],
  EXTENSION["PROJ4","+proj=merc +a=6378137 +b=6378137 +lat_ts=0.0 +lon_0=0.0 +x_0=0.0 +y_0=0 +k=1.0 +units=m +nadgrids=@null
+wktext +no_defs"],
  AUTHORITY["EPSG","3857"]]
Origin = (-8537258.699999999254942,4773269.700000000186265)
Pixel Size = (19.109257030487100,-19.109257030487100)
Metadata:
  DESCRIPTION=Wetsaw Test: Baltimore area OSM tiles
  IDENTIFIER=Wetsaw Test
  ZOOM_LEVEL=12
Image Structure Metadata:
  INTERLEAVE=PIXEL
Corner Coordinates:
Upper Left (-8537258.700, 4773269.700) ( 76d41'29.40"W, 39d21'33.48"N)
Lower Left (-8537258.700, 4755326.108) ( 76d41'29.40"W, 39d14' 4.41"N)
Upper Right (-8518550.737, 4773269.700) ( 76d31'24.40"W, 39d21'33.48"N)
Lower Right (-8518550.737, 4755326.108) ( 76d31'24.40"W, 39d14' 4.41"N)
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Band 1 Block=512x512 Type=Byte, ColorInterp=Red
  Overviews: 489x469
  Mask Flags: PER_DATASET ALPHA
  Overviews of mask band: 489x469
Band 2 Block=512x512 Type=Byte, ColorInterp=Green
  Overviews: 489x469
```

Mask Flags: PER_DATASET ALPHA

Overviews of mask band: 489x469

Band 3 Block=512x512 Type=Byte, ColorInterp=Blue

Overviews: 489x469

Mask Flags: PER_DATASET ALPHA

Overviews of mask band: 489x469

Band 4 Block=512x512 Type=Byte, ColorInterp=Alpha

Overviews: 489x469

#3 - 2019-03-02 09:01 AM - Giovanni Manghi

- Status changed from Feedback to Open
- Subject changed from error adding GeoPackage tile layer with identifier that does not match table name to error adding (from QGIS Browser) GeoPackage tile layer with identifier that does not match table name
- Category changed from Data Provider to Browser

Files

tiles.gpkg	3.42 MB	2019-02-28	Robert St. John
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