QGIS Application - Feature request #18026
Geopackage views and other types as layer in Qgis + DB manager

2018-02-02 07:41 AM - Ondrej Remes

Status:	Closed		
Priority:	Normal		
Assignee:	Richard Duivenvoorde		
Category:	Data Provider		
Pull Request or Patch supplied:	Yes	**Resolution:**	invalid
Easy fix?:	No	**Copied to github as #:**	25922

Description

QGIS could add layers from geopackage database, but if i add into database new view (by SQL command, with geometry attribute geom etc.), it is added, but it is not shown in DB manager window. If i want add this view as new layer into Qgis, it is not possible, QGIS does not see it.

History

#1 - 2018-02-02 10:14 AM - Richard Duivenvoorde

- File gpkgview.png added

- File Total_gamma_dose_rate.gpkg added

Hi, can you please add some more info?

- which version are you talking about that it is NOT working?

- can you provide some example data/queries that you used?

- is it possible that you did not 'registre' the view as spatial in the gpkg_geometry_columns

Because with me (in master AND in 2.18.16) the view we created in the attached gpkg is seen both in DB manager and, QGIS and sqlitebrowser (see screendump).

Please provide more info/data

#2 - 2018-02-02 11:47 AM - Ondrej Remes

- Assignee set to Richard Duivenvoorde

- File orechov.gpkg added

Hello, Richard. Thanks for reply. It looks like i did a mistake. Im using dev version of QGIS (daily). I have created database orechov.gpkg with 2 tables (table strom, ker with point and mpolygon geometry) and simple view as selection from table strom where attribute zasah is not null. The problem is that when i try add the view as new layer in data provider, i don't see this view in table list. The same problem is in QGIS DB Manager, in SQLITE DB browser is all shown. I attach a database file. Thanks for quick help.

#3 - 2018-02-02 03:31 PM - Richard Duivenvoorde

- Status changed from Open to Closed

Hi, ok. I managed to get it working.

You are right, creating (only) a simple view is not enough. You need to add more information to the gpkg to make this work:

- add the view name to the table `gpkg_contents`

AFTER that

- add the geometry column to the table `gpkg_geometry_columns`

So in your case:

INSERT INTO `gpkg_contents`(`table_name`,`data_type`,`identifier`,`min_x`,`min_y`,`max_x`,`max_y`,`srs_id`)
VALUES ('strom_zasah','features','strom_zasah',-549173.0,-1185720.0,-548426.0,-1185130.0,5514);

INSERT INTO `gpkg_geometry_columns`(`table_name`,`column_name`,`geometry_type_name`,`srs_id`,`z`,`m`)
VALUES ('strom_zasah','geom','Point',5514,0,0);

As soon as that is done, all is fine: QGIS will show the view as a geometry view and not a plain table

Actually all works just like in most other spatial databases (Postgis, Oracle)

Closing this one, as I do not think it is possible to predict geometry column and type just from the view query, but correct me if I'm wrong

#4 - 2018-02-02 04:52 PM - Ondrej Remes

Ok. Thanks. it's working. I have created this view through SQL window in DB manager in QGIS and it isnt useful for normal users. For next time DB manager could offer this option automaticaly (future adding as layer into project with geometry etc).

#5 - 2018-02-21 09:20 PM - Giovanni Manghi

- Resolution set to invalid

- Pull Request or Patch supplied changed from No to Yes

Files

Total_gamma_dose_rate.gpkg	2.24 MB	2018-02-02	Richard Duivenvoorde
gpkgview.png	264 KB	2018-02-02	Richard Duivenvoorde
orechov.gpkg	272 KB	2018-02-02	Ondrej Remes