

QGIS Application - Bug report #21517

Estimated Extent fails when rows exceed 32-bit signed integer max, issues slow ST_Extent query

2019-03-07 11:04 PM - Jesse Ogle

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Data Provider/PostGIS	
Affected QGIS version:	3.7(master)	Regression?: No
Operating System:	Windows, Linux	Easy fix?: Yes
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 29334
Description		
When 'Use estimated table meta data' is selected in the PostGIS Connection dialog, QGIS will still use ST_Extent() instead of ST_EstimatedExtent() if the table has more than int max rows. The ST_Extent() query is prohibitively slow and causes QGIS to hang. This appears to be the result of casting reltuples to int in the SQL query in this line: https://github.com/qgis/QGIS/blob/2403c64a7c26f1646fcba6142265c7c953540f28/src/providers/postgres/qgspostgresprovider.cpp#L252 This results in an error which causes the extent to be cleared and then ST_Extent() is used. Changing ::int to ::bigint resolves this issue (verified via psql query not through QGIS). The following line will also fail when reltuples is greater than int max: https://github.com/qgis/QGIS/blob/2403c64a7c26f1646fcba6142265c7c953540f28/src/providers/postgres/qgspostgresprovider.cpp#L193 Data source: PostgreSQL 10.5, compiled by Visual C++ build 1800, 64-bit		

Associated revisions

Revision feb0c8bd - 2019-03-08 02:19 AM - Nyall Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

Revision d15d1242 - 2019-03-08 02:19 AM - Nyall Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

Revision c1089238 - 2019-03-08 02:19 AM - Nyall Dawson

[postgres] Fix estimated metadata queries fail for huge tables

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Revision dcc9f11c - 2019-03-10 10:46 PM - Nyal Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

Revision da2064d0 - 2019-03-10 11:59 PM - Nyal Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

Revision aba1e308 - 2019-03-14 02:56 AM - Nyal Dawson

[postgres] Fix estimated metadata queries fail for huge tables

Fixes #21517

History

#1 - 2019-03-08 02:20 AM - Nyal Dawson

- Status changed from Open to In Progress

#2 - 2019-03-10 10:46 PM - Nyal Dawson

- % Done changed from 0 to 100

- Status changed from In Progress to Closed

Applied in changeset commit:qgis|dcc9f11c868390240dfa9b20ea837f1cbe5dfad5.