

QGIS Application - Bug report #8572

PostGIS Geography Type, ERROR: Invalid geography

2013-09-04 12:35 PM - Denver Pierce

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Data Provider/PostGIS	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 17317
Description		
<p>Loading geography types in Master by adding a PostGIS Layer, nothing is displayed and the following log is given:</p>		
<p>Query: DECLARE qgisf0_0 BINARY CURSOR FOR SELECT st_asbinary(st_force_2d("pos"::geometry),'NDR'),'id' FROM "public"."locations" WHERE "pos" && st_makeenvelope(-180,-90,180,90,4326) returned 7 [ERROR: Invalid geography. Antipodal (180 degrees long) edge (180 -90,180 90) detected, add a point between to make two edges that span less than 180 degrees.]</p>		
<p>Relevant stack exchange post: http://gis.stackexchange.com/questions/70556/error-invalid-geography-antipodal-edge-with-postgis?noredirect=1#comment96122_7056</p>		
<p>And post on the list: http://osgeo-org.1560.x6.nabble.com/geometry-with-geography-type-column-not-displayed-td4690688.html#a4690860</p>		
<p>It seems the BBOX query is being cast to geography, then that is being sent back as invalid as it contains a banned antipodal query on a geography.</p>		
<pre>CREATE TABLE global_points (id SERIAL PRIMARY KEY, name VARCHAR(64), location GEOGRAPHY(POINT,4326)); INSERT INTO global_points (name, location) VALUES ('freiburg', ST_GeographyFromText('POINT(7.86 48.0)')); CREATE INDEX global_points_gix ON global_points USING GIST (location);</pre>		

Associated revisions

Revision 90b3efb9 - 2015-06-26 04:55 PM - Jürgen Fischer

postgres provider: also cast geography to geometry when using && (fixes #8572)

Revision 3792afdb - 2015-07-19 09:01 PM - Jürgen Fischer

postgres provider: also cast geography to geometry when using && (fixes #8572)

(cherry picked from commit 90b3efb93dd0b6460ce496a8acd7fcbf34b22f63)

History

#1 - 2013-10-04 09:14 AM - Sandro Santilli

Casting the geography to a geometry would fix this:

WHERE "location"::geometry && ...

Jef: was this that you had in mind when you asked about casting to geometry ?

#2 - 2013-10-04 09:29 AM - Sandro Santilli

I've filed an upstream bug as the workaround suggested by the error message (adding in-between point) doesn't help:

<http://trac.osgeo.org/postgis/ticket/2495>

#3 - 2015-06-26 04:19 AM - Jonathan Moules

This still happens with 2.6.1. I'm surprised the priority is so low given it makes QGIS useless with many PostGIS datasets.

#4 - 2015-06-26 07:56 AM - Jürgen Fischer

- *Status changed from Open to Closed*

Fixed in changeset commit:"90b3efb93dd0b6460ce496a8acd7fcfb34b22f63".