

QGIS Application - Feature request #12298

Allow Oracle layers features to be simplified server-side before rendering

2015-03-02 08:32 AM - Michael Douchin

Status:	Closed	
Priority:	Normal	
Assignee:	Jürgen Fischer	
Category:	Data Provider/Oracle	
Pull Request or Patch supplied:	Yes	Resolution: wontfix
Easy fix?:	No	Copied to github as #: 20476
Description		
As for PostgreSQL, it would be nice to let Oracle simplify geometries when featching feature for rendering purpose. This would speed up data retrival. I have not found any suitable Oracle functions to mimic the 2 methods used for PostgreSQL provider : ST_SnapToGrid and ST_SimplifyPreserveTopology. Perhaps it is not feasible ? Thanks for any feedback.		

History

#1 - 2015-03-02 08:47 AM - Jürgen Fischer

[SDO_UTIL.SIMPLIFY?](#)

#2 - 2015-03-02 08:58 AM - Michael Douchin

Sure, could be. I am not sure if the PostGis "preservetopology" is needed, since we simplify at a pixel level...

#3 - 2015-03-02 08:59 AM - Michael Douchin

The tolerance parameter could be used to mimic the "snap to grid" function

#4 - 2015-03-06 09:40 AM - Michael Douchin

- File *QGIS_oracle_pre_rendering_simplification.diff* added

- Pull Request or Patch supplied changed from No to Yes

A patch attached with a first code running.

- I copy/paste what has been done in PostgreSQL provider, but since there is no equivalent for the functions used there, I used instead:
 - [SDO_UTIL.RECTIFY_GEOMETRY](#) instead of [ST_SnapToGrid](#), with the "tolerance" parameters used to snap to grid.
 - [SDO_UTIL.SIMPLIFY](#) instead of [ST_SimplifyPreserveTopology](#)
- I have tested it with only one POLYGON layer, and got awkward results, which seems to be caused by simplification leading to POINT or LINESTRING instead of original geometry type. Perhaps the problems lies also in incorrect geometries in my dataset
- I kept the tolerance used for PostGIS: `mRequest.simplifyMethod().tolerance() * 0.8` There is surely a room for improvement here

- I do not know if the patch is suitable for both Oracle Locator and Oracle spatial

Please test the attached diff file and give feedback or advice

NB: This is the first time I work with Oracle. I invite Oracle Locator/Spatial gurus to participate, since I am a complete newbie here

NB2: You can use the docker/oracle [here](#) to set up a test environment.

#5 - 2015-03-09 05:39 AM - Michael Douchin

I need to to some benchmarking as described in #8725

#6 - 2016-08-02 10:08 AM - Médéric RIBREUX

- *Resolution set to wontfix*
- *Status changed from Open to Closed*

Hello,

I am closing this one because we have tried but it seems that simplifying from Oracle server just takes much more time than simply retrieving native features.

Oracle database server doesn't seem to be able to simplify features with loading time improvment...

Files

QGIS_oracle_pre_rendering_simplification.diff	4.45 KB	2015-03-06	Michael Douchin
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