

QGIS Application - Bug report #11358

Spatial index is not used in Oracle views

2014-10-08 06:28 AM - Viktor Rasmussen

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Data Provider/Oracle	
Affected QGIS version:	2.4.0	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 19649
Description <p>When adding a layer that corresponds to a view in Oracle then QGIS will not use a spatial filter when fetching data. The result is that all data is fetched into QGIS regardless of zoom level and performance is very poor for large datasets.</p> <p>This behaviour is not seen when using Oracle tables directly. It is also not seen when using PostgreSQL views.</p> <p>I have used an SQL tracker to see the sql generated by qgis.</p> <p>It seems that the problem arises from this query performed when adding an Oracle layer.</p> <pre>SELECT i.index_name,i.domidx_opstatus FROM all_indexes i JOIN all_ind_columns c ON i.owner=c.index_owner AND i.index_name=c.index_name AND c.column_name='GEOMETRI' WHERE i.table_owner='DAGI_10E_NOHIST_L1' AND i.table_name='KOMMUNEINDELING' AND i.ityp_owner='MDSYS' AND i.ityp_name='SPATIAL_INDEX'</pre> <p>As the spatial index is on the table and not on the view itself, QGIS will not find the spatial index in the data dictionary.</p> <p>And I suppose that when not finding a spatial index it will wrongly not use sdo_filter clauses in the data queries.</p>		
Related issues: <p>Duplicated by QGIS Application - Bug report # 11722: Hang on Identify Feature... Closed 2014-11-25</p>		

Associated revisions

Revision 991f94d3 - 2014-11-04 12:21 AM - Jürgen Fischer

oracle provider:

- if a no spatial index is found try sdo_filter (fixes #11358)
- allow specifying connection parameters (eg. OCI_ATTR_PREFETCH_ROWS=10000)

History

#1 - 2014-10-08 07:37 AM - Giovanni Manghi

- Category set to Data Provider/Oracle

#2 - 2014-11-03 06:45 PM - Jürgen Fischer

- Status changed from Open to Closed

Fixed in changeset commit:"991f94d3fb10f84a312432cabd80a42b080a68b1".