QGIS Application - Bug report #9633
Adding a Oracle table selects all data; even when Render is off

2014-02-24 04:32 AM - Jonathan Moules

Status:	Closed		
Priority:	Normal		
Assignee:	Jürgen Fischer		
Category:	Data Provider/Oracle		
Affected QGIS version:	master	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	18205

Description

"Only look in meta data table" - checked
"Use estimated table metadata" - checked

When I click "add" for a Oracle table, QGIS performs a select:
 - select * from osmm.osm_mm_topographic_area where rownum = 0

The problem is that it performs this select even if "render" is off. This causes QGIS to hang until the query is finished (for millions of rows this can be a minute or more).
I suspect this behaviour also carries over to loading a QGS file which has Oracle layers in it but disabled (loading one of those takes forever).

Master 5192e8d

Associated revisions

Revision 115f9807 - 2014-02-24 02:05 PM - Jürgen Fischer

oracle provider: replace rownum=0 with 1=0 to retrieve columns (fixes #9633)

History

#1 - 2014-02-24 04:54 AM - Jürgen Fischer

> *select * from osmm.osm_mm_topographic_area where rownum = 0*

Just retrieves the field list, but no actual data.   Does select * from osmm.osm_mm_topographic_area where 1=0 perform any better?

#2 - 2014-02-24 04:58 AM - Nathan Woodrow

Does oracle have system tables or functions that you can get information about a table from. In MS SQL we use sp_columns which returns the columns for a table.

#3 - 2014-02-24 05:00 AM - Jürgen Fischer

Nathan Woodrow wrote:

>

> *Does oracle have system tables or functions that you can get information about a table from. In MS SQL we use sp_columns which returns the columns for a table.*

That doesn't work for generic queries or views.

#4 - 2014-02-24 05:05 AM - Jürgen Fischer

- Status changed from Open to Closed

Fixed in changeset commit:"115f9807f10f168b4abd0c0dba5b82d15a426027".

#5 - 2014-02-24 05:37 AM - Jürgen Fischer

Jürgen Fischer wrote:

> *Fixed in changeset commit:"115f9807f10f168b4abd0c0dba5b82d15a426027".*

Apparently 1=0 works better as rownum=0.   Please verify.

#6 - 2014-02-24 05:39 AM - Jonathan Moules

Jürgen Fischer wrote:

> *select * from osmm.osm_mm_topographic_area where rownum = 0*
>
> *Just retrieves the field list, but no actual data.   Does select * from osmm.osm_mm_topographic_area where 1=0 perform any better?*

select * from osmm.os_mm_topographic_area where rownum = 0
takes about 70 seconds.

---
select * from osmm.os_mm_topographic_area where 1=0
Takes 0.012 seconds! - Not a typo, that's 100th's of a second, so it performs much MUCH better!

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select * from osmm.os_mm_topographic_area where rownum=2
Takes... The same amount of time as rownum = 0 (about 70 seconds)

So for us at least 1=0 is easily the best.

(tested against a general table).

#7 - 2014-02-24 05:41 AM - Jonathan Moules

Anything with "rownum = n" results in data being returned.
Whereas the 1=0 doesn't get any data returned, just the table structure it appears. I'm assuming that's what's intended.

#8 - 2014-02-24 05:57 AM - Jürgen Fischer

Jonathan Moules wrote:

> *Anything with "rownum = n" results in data being returned.*
> *Whereas the 1=0 doesn't get any data returned, just the table structure it appears. I'm assuming that's what's intended.*

rownum starts with 1, so rownum=0 returns no rows. But apparently Oracle isn't clever enough to figure that out before hand, while it does for 1=0.

#9 - 2014-02-24 05:59 AM - Jürgen Fischer

Jonathan Moules wrote:

> *select * from osmm.os_mm_topographic_area where rownum=2*

Sorry, that was a typo, that I corrected to rownum=0 just after I wrote it.

#10 - 2014-02-24 06:00 AM - Jonathan Moules

Jürgen Fischer wrote:

> *rownum starts with 1, so rownum=0 returns no rows.*

True, I mis-stated.

But yes, 1=0 should resolve this issue and hopefully make loading Oracle layers nice and fast. Thanks!