QGIS Application - Bug report #16203 SQL To Determine Prrimary Key column_names does not handle views or situations where constraint name <> index name

2017-02-16 10:55 PM - Simon Greener

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Data Provider/Oracle			
Affected QGIS version:2.18.3		Regression?:	No	
Operating System:		Easy fix?:	No	
Pull Request or Patch supplied:		Resolution:	end of life	
Crashes QGIS or corru pits data:		Copied to github as #: 24113		
Description				

All the testing was done by myself on Windows 10 64 bit using QGIS 2.18.3 against Oracle 12.1.

The requests below come from consulting work that I have completed for a customer who is using QGIS Desktop and QGIS Server against Oracle Spatial and are affecting their implementation.

Issue 1: The current QGIS Oracle code that discovers the column_name associated with a primary key of a table (or materialized view) does not support situations where the constraint_name is not equal to the index_name.

create table foo (number(10,0), fid fid_int Integer, fid_num9 number(9,0), fid_num8 number(8,0), fid_num7 number(7,0), an_attribute varchar2(10), sdo_geometry geom); ALTER TABLE FOO ADD CONSTRAINT FOO PK PRIMARY KEY (FID); Current QGIS SQL for detecting PK: SELECT column name FROM all ind columns a JOIN all constraints b ON a.index name=constraint name AND a.index owner=b.owner WHERE b.constraint type='P' AND b.owner='QGIS' AND b.table name='FOO'; -- FID However, an alternate and very commonly used method for creating a primary key is: alter table foo drop constraint foo pk; create unique index foo fid uidx on foo(fid); /* Create UNIQUE Index Before define primary key / alter table foo add constraint foo pk primary key (fid) using index foo fid uidx; / Note that PK uses pre-existing unique index */ The current QGIS SQL can be easily modified to cope with this situation: SELECT column name FROM all ind columns a INNER JOIN all constraints b ON (a.index_owner=b.owner AND a.table_name=b.table_name AND a.index_name=b.index_name)

WHERE b.constraint_type='P' AND b.owner='QGIS' AND b.table_name='FOO';

Request 1: Current QGIS Oracle code modified to use more complete SQL

Note: The above works also for materialized views as they are implemented as tables.

Issue 2: Views

If we create a view over the FOO table: create view vw foo as select * from foo; We can add primary key metadata as follows: alter view vw foo add constraint vw foo pk primary key (fid) disable; But even the modified SQL for finding a PK does not work. The SQL that I have created that detects any primary key for a view is: -- Try modified table query SELECT column name FROM all ind columns a **INNER JOIN** all constraints b ON (a.index owner=b.owner AND a.table name=b.table name AND a.index name=b.index name) WHERE b.constraint type='P' AND b.owner='QGIS' AND b.table name='VW FOO'; -- no rows selected -- OK construct more complicated query select c.owner, c.table name, d.column name, c.constraint name, c.constraint type, c.index name from user constraints a inner join user dependencies b = a.table_name on (b.name and b.type = 'VIEW' and b.referenced type = 'TABLE') inner join user constraints c = b.referenced owner on (c.owner and c.table name = b.referenced name and c.constraint type = 'P' and c.index name is not null) inner ioin all ind columns d ON (d.index owner= c.owner AND d.table name = c.table_name AND d.index name = c.index name) where a.table name = 'VW FOO' and a.constraint type = 'P'and a.view related = 'DEPEND ON VIEW'; OWNER TABLE_NAME COLUMN_NAME CONSTRAINT_NAME CONSTRAINT_TYPE INDEX_NAME QGIS FOO FID FOO PK Ρ FOO_FID_UIDX */ It works. Request 2: Could SQL to detect view PKs be implemented in QGIS please?

Issue 3:

Even if a primary key column is detected, QGIS does not display the column_name in its Layer Dialog.

**Request 3: Can QGIS be fixed to display the primary key column name?

I have attached a worked SQL script for all the cases above.

regards

Simon

History

#1 - 2017-05-01 01:01 AM - Giovanni Manghi

- Easy fix? set to No
- Regression? set to No

#2 - 2017-09-08 01:35 PM - Jürgen Fischer

- Assignee deleted (Jürgen Fischer)

#3 - 2019-03-09 03:09 PM - Giovanni Manghi

- Resolution set to end of life
- Status changed from Open to Closed

End of life notice: QGIS 2.18 LTR

Source:

http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/

QGIS 3.4 has recently become our new Long Term Release (LTR) version. This is a major step in our history – a long term release version based on the massive updates, library upgrades and improvements that we carried out in the course of the 2.x to 3x upgrade cycle.

We strongly encourage all users who are currently using QGIS 2.18 LTR as their preferred QGIS release to migrate to QGIS 3.4. This new LTR version will receive regular bugfixes for at least one year. It also includes hundreds of new functions, usability improvements, bugfixes, and other goodies. See the relevant changelogs for a good sampling of all the new features that have gone into version 3.4

Most plugins have been either migrated or incorporated into the core QGIS code base.

We strongly discourage the continued use of QGIS 2.18 LTR as it is now officially unsupported, which means we'll not provide any bug fix releases for it.

You should also note that we intend to close all bug tickets referring to the now obsolete LTR version. Original reporters will receive a notification of the ticket closure and are encouraged to check whether the issue persists in the new LTR, **in which case they should reopen the ticket**.

If you would like to better understand the QGIS release roadmap, check out our roadmap page! It outlines the schedule for upcoming releases and will help you plan your deployment of QGIS into an operational environment.

The development of QGIS 3.4 LTR has been made possible by the work of hundreds of volunteers, by the investments of companies, professionals, and administrations, and by continuous donations and financial support from many of you. We sincerely thank you all and encourage you to collaborate and support the project even more, for the long term improvement and sustainability of the QGIS project.