

QGIS Application - Bug report #17175

Relation reference widget triggers SQL syntax error with UUID fields in Postgres

2017-09-21 02:47 PM - Regis Haubourg

Status:	Closed	
Priority:	Normal	
Assignee:	Denis Rouzaud	
Category:	Forms	
Affected QGIS version:	2.18.13	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution: fixed/implemented
Crashes QGIS or corrupts data:		Copied to github as #: 25074
Description		
The case is pretty subtle: - create two tables named "Child" and "Parent" with UUID Primary keys - add a Foreign key in "Child" table pointing to the parent ID (allowing null values) - In QGIS, add the same relation and use a reference relation widget for the FK field. - Check the "Allow Null" box - watch pg logs - activate transaction groups - create a child feature, and DO NOT create or affect any parent related feature. Validate. - use identify tool to open the child feature form again This triggers a syntax error in QGIS when QGIS tries to populate the new form with parent features values. QGIS opens a cursor to fetch values with a (translated) error: <pre>DECLARE qgis_235 BINARY CURSOR WITH HOLD FOR SELECT st_asbinary("geometrie",'NDR'),'id'::text, ...field list here ... FROM "public"."parent" WHERE ("id" = 'NULL') Result: 7 (ERROR: invalid syntax for uuid : « NULL »)</pre> In fact this should be converted to ` "id" is NULL ` to avoid that. unchecking the box solves the issue. (Which makes me wonder what is the use of that checkbox) This DDL script can help reproducing the issue. <pre>create table parent (id uuid NOT NULL, -- Identifiant unique. Lien vers la table ouvrepere comment character varying, -- Commentaire sur la sécurité du personnel geom geometry(LineString,2154), CONSTRAINT parent_pkey PRIMARY KEY (id)) WITH (OIDS=FALSE);</pre>		

```

create table child_geo
(
  id uuid NOT NULL,
  comment character varying,
  fk_parent uuid, -- parent fk id
  geom geometry(Point, 2154),
  CONSTRAINT child_geo_pkey PRIMARY KEY (id),
  CONSTRAINT child_geo_parent_fk FOREIGN KEY (fk_parent)
    REFERENCES public.parent(id) MATCH SIMPLE
    ON UPDATE SET NULL ON DELETE SET NULL
)
WITH (
  OIDS=FALSE
);

```

Related issues:

Related to QGIS Application - Bug report # 17535: Postgresql: empty SAVEPOINTS

Closed

2017-11-23

Associated revisions

Revision 5e70e962 - 2018-02-22 11:59 AM - Hugo Mercier

Fix call to representValue in identifydialog (refs #17175)

This should fix the problem of queries with WHERE (id = 'NULL') when the string 'NULL' cannot be converted to integer / uuid, as seen with relation reference widgets.

Revision e06e95c2 - 2018-02-22 03:11 PM - Hugo Mercier

Merge pull request #6413 from mhugo/master

Fix call to representValue in identifydialog (refs #17175)

History

#1 - 2017-09-21 03:17 PM - Regis Haubourg

- File *relation_widget_issue_with_uuid.qgs* added
- File *relations_qgis.sql* added

Added a project and DDL to reproduce that

#2 - 2017-11-06 11:32 AM - Regis Haubourg

I found a workaround. Just casting uuid fields to text seems to work.

#3 - 2018-01-12 08:39 AM - Jürgen Fischer

- Related to Bug report #17535: Postgresql: empty SAVEPOINTS added

#4 - 2018-02-05 03:47 PM - Vincent Mora

Cannot reproduce on qgis 2.99.

#5 - 2018-02-22 11:41 AM - Hugo Mercier

No need for uuid type.

With two postgres tables like this:

```
create table a(id int primary key, name text, id_b int, geom geometry(point, 4326));
insert into a values (1, 'Oki', NULL, 'srid=4326; point(1 1)::geometry); -- no link to B here
create table b(id int primary key, name txt);
insert into b values (1, 'BB');
```

And a project with a relation declared between a and b on a.id_b -> b.id

And a relation reference widget on a.id_b.

When using the identify tool on a, it will request b with a query like "FROM b WHERE (id = 'NULL')". Since 'id' is integer, it will try to convert 'NULL' to an integer, which raises an exception.

I think it comes from:

<https://github.com/qgis/QGIS/blob/master/src/app/qgsidentifyresultsdialog.cpp#L613>

where

```
QString value2 = representValue( vlayer, setup, fields.at( i ).name(), value );
```

should be replaced by

```
QString value2 = representValue( vlayer, setup, fields.at( i ).name(), attrs.at( i ) );
```

PR coming (compiling ...)

#6 - 2018-02-24 10:02 AM - Hugo Mercier

- Status changed from Open to Closed

- Resolution set to fixed/implemented

Fixed in 2.18 and 3.0

#7 - 2018-02-24 11:04 AM - Regis Haubourg

Nice !

PR was : [[<https://github.com/qgis/QGIS/pull/6419>]]

Files

relation_widget_issue_with_uuid.qgs	26 KB	2017-09-21	Regis Haubourg
relations_qgis.sql	1.49 KB	2017-09-21	Regis Haubourg