

# QGIS Application - Bug report #9489

## Copy/Paste issue with explicit primary keys

2014-02-04 04:38 AM - Fabrice Fabrice

<b>Status:</b> Closed	
<b>Priority:</b> Severe/Regression	
<b>Assignee:</b>	
<b>Category:</b> Vectors	
<b>Affected QGIS version:</b> 2.0.1	<b>Regression?:</b> No
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 18080

### Description

Copy/paste from a shapefile to a Postgis table with explicit primary keys is no longer possible with QGIS 2.0 (Explicit key, ie PostgreSQL primary key is not a serial but an explicit string or integer).

During the copy / paste, QGIS 2.0 puts the primary keys values to NULL and no commit is possible. With QGIS 1.7.4, those copy / paste were possible.

To reproduce the pb :

Create table1 with a string primary key

```
CREATE TABLE table1
(
  f1 character varying(10) NOT NULL,
  f2 character varying(10),
  geom geometry,
  CONSTRAINT t1_pkey PRIMARY KEY (f1),
  CONSTRAINT enforce_dims_geom CHECK (st_ndims(geom) = 2),
  CONSTRAINT enforce_geotype_geom CHECK (geometrytype(geom) = 'POINT'::text),
  CONSTRAINT enforce_srid_geom CHECK (st_srid(geom) = 2154)
)
WITH (OIDS=TRUE);
```

table2 is the same as table 1 but it has no primary key

```
CREATE TABLE table2
(
  f1 character varying(10) NOT NULL,
  f2 character varying(10),
  geom geometry,
  CONSTRAINT enforce_dims_geom CHECK (st_ndims(geom) = 2),
  CONSTRAINT enforce_geotype_geom CHECK (geometrytype(geom) = 'POINT'::text),
  CONSTRAINT enforce_srid_geom CHECK (st_srid(geom) = 2154)
)
WITH (OIDS=TRUE);
```

shapes.shp is a shapefile that contains the points I would like to copy/paste in the Postgis tables (see attached zip file)

Many Thanks for solving this blocking issue for us !

Fabrice

**Related issues:**

Related to QGIS Application - Bug report # 5758: Primary key issue when using...	<b>Closed</b>	<b>2012-06-07</b>
Related to QGIS Application - Bug report # 13755: Copy/paste PostGIS layer: d...	<b>Closed</b>	<b>2015-11-04</b>

**Associated revisions****Revision 588d5f42 - 2014-02-13 05:45 PM - Jürgen Fischer**

paste features: don't skip primary key fields, use default value if present, otherwise value of pasted feature (fixes #9489)

**History****#1 - 2014-02-07 05:54 AM - Giovanni Manghi**

- Priority changed from *Severe/Regression* to *High*

**#2 - 2014-02-07 06:04 AM - Giovanni Manghi**

- Priority changed from *High* to *Severe/Regression*

**#3 - 2014-02-07 10:45 AM - Giovanni Manghi**

- Category changed from *Browser* to *Vectors*

**#4 - 2014-02-13 08:47 AM - Jürgen Fischer**

- Status changed from *Open* to *Closed*

Fixed in changeset commit:"588d5f425f09039efbb7bd3172d2fc25b39a43d1".

**#5 - 2014-10-14 04:48 AM - Gavin Fleming**

I had this issue in 2.4 where pasting a record overwrote the PostgreSQL default value which resulted in the commit complaining about duplicate gids. So in the layer Fields properties I set gid to non-editable. This seemed to protect the field from pasting and resulting in a successful commit.

**#6 - 2014-12-18 08:01 PM - rmercerc -**

Gavin, thank you for putting in that tip. It was very frustrating to be having this same issue with no clue how to get around it. I am not really clear on the terminology with the bug reporting, so by having it changed from open to closed and fixed in a changeset, does this mean that a release after 2.6.1 will contain a fix for this issue?

If that is not the case, and it is assumed to be fixed, I want to update that this is still a problem. If you have a field defined as a primary key, or a field with a default value, when you copy a feature from another layer, or make a copy of an existing feature into this layer, the primary key and/or default value fields are set to NULL. When you try to save changes, an error is raised due to violating the primary key constraint. Is there a way to set the process of copying a new feature so it is treated the same way as a new feature being digitized and any default value conditions are inserted automatically?

It would be really helpful if documentation of Gavin's tip were included somewhere. It took me a number of hours of fruitless searching and confusion before I happened upon this site. My fault for not checking here first, though it probably wouldn't occur to a newer QGIS user at all.

**#7 - 2014-12-20 03:22 AM - Giovanni Manghi**

rmercerc - wrote:

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2024-04-20

2/3

Gavin, thank you for putting in that tip. It was very frustrating to be having this same issue with no clue how to get around it. I am not really clear on the terminology with the bug reporting, so by having it changed from open to closed and fixed in a changeset, does this mean that a release after 2.6.1 will contain a fix for this issue?

the fix is 10 month old, so is already in qgis 2.6.1

If that is not the case, and it is assumed to be fixed, I want to update that this is still a problem. If you have a field defined as a primary key, or a field with a default value, when you copy a feature from another layer, or make a copy of an existing feature into this layer, the primary key and/or default value fields are set to NULL. When you try to save changes, an error is raised due to violating the primary key constraint. Is there a way to set the process of copying a new feature so it is treated the same way as a new feature being digitized and any default value conditions are inserted automatically?

I just tested copying a feature from a shapefile and pasting it into a postgis layer: on paste the postgis primary key is set to NULL, but on save is given the proper (serial) value.

## Files

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shapes.zip	1.33 KB	2014-02-04	Fabrice Fabrice
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