

## QGIS Application - Feature request #399 faster unique value dialogue for postgis layers

2006-11-17 05:57 PM - rhys-stewart-gmail-com -

<b>Status:</b> Closed	
<b>Priority:</b> Low	
<b>Assignee:</b> Gavin Macaulay -	
<b>Category:</b> Vectors	
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b> fixed
<b>Easy fix?:</b> No	<b>Copied to github as #:</b> 10458

### Description

For postgis layers the unique value dialogue could be made to be faster (i.e. determine the unique values for a given set of attributes quicker) if we use the database to do the work, currently the data is sorted and grouped by qgis in /src/gui/qgsuniquevalue.cpp. This may be good for non-postgis layers, but it would be faster if you passed a query to the server for a postgis layer.

Currently there is an array/list/variable called mClassBreakBox that is populated by code at about line 154 in aforementioned file or so it seems:

```
//go through all the features and insert their value into the map and into mClassBreakBox
mClassBreakBox->clear();
while((f=provider->getNextFeature(attlist))
{
    vec = f->attributeMap();
    value=vecr0.fieldValue();

    if(mValues.find(value)==mValues.end())
    {
        symbol=new [[QgsSymbol]](mVectorLayer->vectorType(), value);
        mValues.insert(std::make_pair(value,symbol));
    }
    delete f;
}
```

What would be good is something like this:

```
//go through all the features and insert their value into the map and into mClassBreakBox
mClassBreakBox->clear();
*****postgis specific code*****
    IF layertype = postgis then
        mclassbreakbox = select attributecolumn from tablename group by attribute column;
*****end postgis specific code*****
    else
while((f=provider->getNextFeature(attlist))
{
    vec = f->attributeMap();
    value=vecr0.fieldValue();

    if(mValues.find(value)==mValues.end())
    {
```

```
symbol=new [[QgsSymbol]](mVectorLayer->vectorType(), value);
mValues.insert(std::make_pair(value,symbol));
}
delete f;
}
```

using ~ 80000 records, postgresql took about 4 seconds to return all the unique values and qgis took about a minute.

Further, currently the unique value dialoge starts working on a column as soon as the uniqe value option is selected, maybe it would be better to not have it default to a specific column so that if the dataset is large the the user doesnt have to wait for it to finish going through one column especially if said column was not the intended column.

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## Associated revisions

### Revision c1669e2a - 2008-03-16 05:52 PM - Jürgen Fischer

- add getUniqueValues method to QgsVectorDataProvider
- implement getUniqueValues in QgsPostgresProvider (fixes #399)
- implement getUniqueValues, minValue and maxValue in OgsOgrProvider
- use getUniqueValues in QgsUniqueValueDialog
- update QgsPostgresProvider::storageType interface (fixes #995)  
(applied patch from Steven Mizuno, thanks again)

git-svn-id: <http://svn.osgeo.org/qgis/trunk/qgis@8233> c8812cc2-4d05-0410-92ff-de0c093fc19c

### Revision d8460108 - 2008-03-16 05:52 PM - Jürgen Fischer

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## History

### #1 - 2006-11-17 11:53 PM - Marco Hugentobler

In my opinion this is more a usability bug and it should be fixed after 0.8 release.

Marco

### #2 - 2007-12-07 09:11 PM - Gavin Macaulay -

- Status changed from Open to In Progress

### #3 - 2008-03-16 09:53 AM - Jürgen Fischer

- Resolution set to fixed

- Status changed from In Progress to Closed

implemented in

**#4 - 2009-08-22 12:54 AM - Anonymous**

Milestone Version 0.9.2 deleted