

QGIS Application - Bug report #12282

unable to gather unique values or to classify (graduated/categorized) values when using a numeric column in a esri file geodatabase

2015-02-27 01:45 AM - Arnout verhoeve

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Data Provider/OGR	
Affected QGIS version:	master	Regression?: No
Operating System:		Easy fix?: No
Pull Request or Patch supplied:		Resolution: up/downstream
Crashes QGIS or corrupts data:		Copied to github as #: 20464
Description		
Wanneer ik bij een kaartlaag de unieke waarden wil oproepen bij de STYLE laageigenschappen (bv voor de opmaak van een legende via het classificeren op basis van categorieën of gradaties uit een attributenveld), lukt dit wel bij een shapefile, maar niet wanneer een kopie van dezelfde laag in een file gdb wordt ingeladen. Hetzelfde probleem bij het gebruik van de expressiebuilder om features te selecteren, werkt het oproepen van unieke waarden uit een veld wel bij een shapefile, maar niet bij een file geodatabank (fgdb versie 10). In bijlage heb ik een kaartlaag toegevoegd als shapefile en als filegeodatabank zodat jullie zelf het probleem kunnen nagaan.		

History

#1 - 2015-02-27 02:18 AM - Richard Duivenvoorde

- File fgdb.png added
- File shapefile.png added

Translating to english:

Using 'unique value classification' all is fine when working with shapefile.

But when using a fgdb, the dialog seems not to create the right classification borders.

Attached are a test shp and fgdb (running windows 2.6.1).

Also attached example dialogs

#2 - 2015-03-03 02:24 AM - Giovanni Manghi

- Affected QGIS version changed from 2.6.1 to 2.8.1
- Category changed from Expressions to Symbolology
- Status changed from Open to Feedback
- Assignee deleted (Richard Duivenvoorde)

confirmed here also on 2.8.1. Did it worked as expected in previous qgis releases?

#3 - 2015-03-22 07:09 AM - Jürgen Fischer

- Target version changed from Version 2.10 to Future Release - High Priority

#4 - 2015-05-10 05:22 AM - Giovanni Manghi

- Status changed from Feedback to Open

#5 - 2015-06-04 04:23 PM - Peter Ciavarella

You get the same problem when you use Select by Expression on the attribute table. You can't get unique values for any column except column 1. Version is 2.8.2

To reproduce:

- open the attribute table for a feature loaded from a file geodatabase
- click the select by expression button and expand the Fields and Values tree
- right click on any column except for the first one and select Load All Unique Values

#6 - 2015-06-05 11:52 AM - Giovanni Manghi

- Affected QGIS version changed from 2.8.1 to master

- Subject changed from *unable to gather unique values or to classify values when using a file gdb to unable to gather unique values or to classify (graduated) values when using a esri file geodatabase*

- Category changed from Symbolology to Vectors

using `toint(column)` or `toreal(column)` then graduated/categorized symbology works, probably there is something wrong on how numeric column are directly evaluated by qgis in file geodatabase layers.

#7 - 2015-06-05 11:55 AM - Giovanni Manghi

- Subject changed from *unable to gather unique values or to classify (graduated) values when using a esri file geodatabase to unable to gather unique values or to classify (graduated/categorized) values when using a numeric column in a esri file geodatabase*

#8 - 2015-10-19 06:56 AM - Jürgen Fischer

- Category changed from Vectors to Data Provider/OGR

- Resolution set to up/downstream

OGR reports all the columns in the filegdb as String fields (except NUMMER), but QGIS expects numeric fields. So only NUMMER is available for classification. Using it reveals a problem with the OpenFileGDB driver: QGIS does `SELECT min(nummer) FROM knelpunten` and `SELECT max(nummer) FROM knelpunten` on that data set. The OpenFileGDB driver apparently has a problem with that and produces a DateTime column with a bogus value, while the FileGDB driver works. (GDAL 1.11.3 in OSGeo4W).

Using the OpenFileGDB driver:

```
> set OGR_SKIP=FileGDB
> ogrinfo -so fgdb.gdb knelpunten
Had to open data source read-only.
INFO: Open of 'fgdb.gdb'
      using driver 'OpenFileGDB' successful.
```

```
Layer name: knelpunten
Geometry: Point
Feature Count: 3799
Extent: (24988.503300, 153700.725300) - (253080.513500, 241128.074600)
Layer SRS WKT:
[...]
FID Column = OBJECTID
Geometry Column = Shape
```

NUMMER: Real (0.0)
KNLPT_STAT: String (0.0)
KNLPT_TYPE: String (0.0)
INSTANTIE: String (0.0)
USR_AANLOG: String (0.0)
KNLPT_BRON: String (0.0)
Q_GROOTTE: String (0.0)
PRIORITEIT: String (0.0)
ACTIE: String (0.0)
OMSCHR: String (0.0)

```
> ogrinfo -sql "SELECT min(nummer) FROM knelpunten" fgdb.gdb
Had to open data source read-only.
INFO: Open of 'fgdb.gdb'
      using driver 'OpenFileGDB' successful.
```

Layer name: SELECT
Geometry: None
Feature Count: 1
Layer SRS WKT:
(unknown)
MIN_nummer: DateTime (0.0)
OGRFeature(SELECT):0
 MIN_nummer (DateTime) = (null)

```
> ogrinfo -sql "SELECT max(nummer) FROM knelpunten" fgdb.gdb
Had to open data source read-only.
INFO: Open of 'fgdb.gdb'
      using driver 'OpenFileGDB' successful.
```

Layer name: SELECT
Geometry: None
Feature Count: 1
Layer SRS WKT:
(unknown)
MAX_nummer: DateTime (0.0)
OGRFeature(SELECT):0
 MAX_nummer (DateTime) = (null)

Using the FileGDB driver:

```
>set OGR_SKIP=OpenFileGDB
>ogrinfo -so fgdb.gdb knelpunten
INFO: Open of 'fgdb.gdb'
      using driver 'FileGDB' successful.
```

Layer name: knelpunten
Geometry: Point
Feature Count: 3799
Extent: (24988.503300, 153700.725300) - (253080.513500, 241128.074600)
Layer SRS WKT:
[...]

FID Column = OBJECTID
Geometry Column = Shape
NUMMER: Real (0.0)
KNLPT_STAT: String (0.0)
KNLPT_TYPE: String (0.0)
INSTANTIE: String (0.0)
USR_AANLOG: String (0.0)
KNLPT_BRON: String (0.0)
Q_GROOTTE: String (0.0)
PRIORITEIT: String (0.0)
ACTIE: String (0.0)
OMSCHR: String (0.0)

```
>ogrinfo -sql "SELECT min(nummer) FROM knelpunten" fgdb.gdb
```

INFO: Open of 'fgdb.gdb'
using driver 'FileGDB' successful.

Layer name: knelpunten
Geometry: None
Feature Count: 1
Layer SRS WKT:
(unknown)
MIN_nummer: Real (0.0)
OGRFeature(knelpunten):0
MIN_nummer (Real) = 71

```
D:\TEMP\test\12\12282>ogrinfo -sql "SELECT max(nummer) FROM knelpunten" fgdb.gdb
```

INFO: Open of 'fgdb.gdb'
using driver 'FileGDB' successful.

Layer name: knelpunten
Geometry: None
Feature Count: 1
Layer SRS WKT:
(unknown)
MAX_nummer: Real (0.0)
OGRFeature(knelpunten):0
MAX_nummer (Real) = 14387

#9 - 2015-10-19 07:11 AM - Jürgen Fischer

See also [GDAL !#6160](#)

#10 - 2015-10-19 07:11 AM - Jürgen Fischer

- Priority changed from High to Normal

#11 - 2015-10-19 07:54 AM - Jürgen Fischer

- Status changed from Open to Closed

Lightning fast fixed in GDAL by EvenR. Thanks

Files				
shp.zip	363 KB	2015-02-27	Arnout verhoeve	
fgdb.zip	644 KB	2015-02-27	Arnout verhoeve	
fgdb.png	45.9 KB	2015-02-27	Richard Duivenvoorde	
shapefile.png	58.7 KB	2015-02-27	Richard Duivenvoorde	