QGIS Application - Bug report #5102 query ["field" != 'NULL'] works while ["field" = 'NULL'] doesn't

2012-02-29 05:20 AM - Giovanni Manghi

	ion - Bug report # 7380: Different behavior for "Fiel.		Closed	2013-03-17
Related issues:				
Tested on qgis master.				
without the need of "'" around "NULL".				
"field" = NULL				
and				
"field" != NULL				
In any case I would also support				
to work.				
"field" = 'NULL'				
works (but only if "NULL" is between " ' ") so I would expect also				
"field" != 'NULL'				
Dut as user i find it couliter intuitive as				
but as user I find it counter intuitive as				
"field" IS NULL				
I understand that the correct way to select NULL values is				
Note: not sure this is a bug, just looking for feedback and see what it is the overall opinion				
Description				
Crashes QGIS or corru pts data:		Copied to github as #:	14864	
Pull Request or Patch sumplied:		Resolution:	worksforme	
Operating System:		Easy fix?:	No	
Affected QGIS version		Regression?:	No	
Category:	Vectors			
Priority: Assignee:	Normal			
Status:	Rejected			

History

#1 - 2012-02-29 07:30 AM - Jürgen Fischer

Looks like the inconsistency is a bug in OGR - I assume you tried the expression as "Query..." string on an OGR layer. "field"!='NULL' shouldn't match the rows with null values.

Any operation on a null value except IS/IS NOT is also null (like comparing a null field value with a four-letter-string as in "field"='NULL'). Therefore the rows with null values in field should not match either expression. The internal QGIS expressions (as in advanced search from the attribute table) work

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that way and I bet filtering with PostgreSQL and SpatiaLite layer won't show those rows either. I'd consider anything else a bug. #2 - 2012-03-02 04:50 AM - Giovanni Manghi Hi Jürgen, Jürgen Fischer wrote: Looks like the inconsistency is a bug in OGR - I assume you tried the expression as "Query..." string on an OGR layer. "field"!='NULL' shouldn't match the rows with null values. I made a test on a PostGIS layer the query "field"!= NULL fails (no matches) if the column is numeric, but "field"!= 'NULL' works if the column is text (it indeed matches the rows that are not NULL). To note that the QGIS query builder never places the "'" around "NULL" even if the column is text (as expected?), so to get the working "field"!= 'NULL' I had to place manually the " ' ". Any operation on a null value except IS/IS NOT is also null (like comparing a null field value with a four-letter-string as in "field"='NULL'). Therefore the rows with null values in field should not match either expression. The internal QGIS expressions (as in advanced search from the attribute table) work that way and I bet filtering with PostgreSQL and SpatiaLite layer won't show those rows either. I'd consider anything else a bug. #3 - 2012-03-02 06:41 AM - Jürgen Fischer Giovanni Manghi wrote: I made a test on a PostGIS layer. the query "field"!=NULL fails (no matches) if the column is numeric, but "field"!='NULL'

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'NULL' and NULL are different things - one is a four-letter-string and the other is the (special) null value (ie. no value, "n/a", unknown). "field"!='NULL' finds all values that have a value (i.e. are not NULL) that is different from the four-letter-string ('NULL'). You could also say "field"!='Some other value that doesn't actually appear in the database' and get the same result.

To note that the QGIS query builder never places the "'" around "NULL" even if the column is text (as expected?), so to get the working "field"!='NULL'

If it would it would also change the expression's semantics (s.above). "field"!=NULL is always NULL - so there's not a big problem that the builder doesn't handle that special case.

#4 - 2012-03-02 07:47 AM - Giovanni Manghi

Hi Jurgen

'NULL' and NULL are different things - one is a four-letter-string and the other is the (special) null value (ie. no value, "n/a", unknown).

"field"!='NULL' finds all values that have a value (i.e. are not NULL) that is different from the four-letter-string ('NULL'). You could also say
"field"!='Some other value that doesn't actually appear in the database' and get the same result.

actually I knew the difference:) and understand perfectly the situation, the ticket was open after a user feedback that was trying to select all the records that are different than NULL in that specific (text) column. He has done a perfectly understandable series of steps:

he tested

"field"!= NULL

that returned 0 results, then he placed NULL aroud "'" because he knew that the column was text and this way got what he needed. He then tested the opposite and noticed that is not working.

If it would it would also change the expression's semantics (s.above). "field"!=NULL is always NULL - so there's not a big problem that the builder doesn't handle that special case.

for me is ok, from the users point of view they will get a consistent behaviour and to select what is NULL they will have to learn to use IS/IS NOT;)

#5 - 2012-03-02 08:00 AM - Jürgen Fischer

- Status changed from Open to Rejected
- Resolution set to worksforme

Giovanni Manghi wrote:

that returned 0 results, then he placed NULL aroud "'" because he knew that the column was text and this way got what he needed. He then tested the opposite and noticed that is not working.

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...the way he expected.

#6 - 2012-03-30 02:48 AM - Pietro Rossin

Hi

in my case (qgis 1.7.4.5 8058b22) I was trying to select non null features, values coming from a joined table field.

No way to perform the query, every time all features were selected or an ogr error

If I select the field from the joined table and I click on the "sample" button the value NULL isn't listed.

"field" != NULL returns all rows

"field" != 'NULL' returns all rows

"field" IS NOT 'NULL' return ogr syntax error

"field" IS NOT NULL returns all rows

What else..

If I save the volatile vector layer to shp then

"field" != NULL works

Tyhanks

Pietro

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