

QGIS Application - Bug report #6995

db manager's SQL window freezes with long query (due to syntax coloring?)

2013-01-14 08:44 PM - Mathieu Pellerin - nIRV

Status:	Closed	
Priority:	High	
Assignee:		
Category:	DB Manager	
Affected QGIS version:	master	Regression?: No
Operating System:	Ubuntu	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 16099
Description		
Discovered this while trying to update a field from a spatialite point dataset. The db manager's SQL window will freeze when modifying long query, most probably due to syntax coloring. It might be good to have a check box within the SQL window to disable syntax coloring in such cases, if things can't be improved. Steps to reproduce: 1/ open db manager's SQL window (connected to a spatialite or postgis database, it doesn't matter) 2/ paste the query below into the query text box (notice the short freeze, which doesn't crash QGIS yet) 3/ try to modify the query by typing a few characters into the query text box At that stage, QGIS should freeze, and remain frozen until the user kills it. SQL query (the WKT is a simplified polygon representing Cambodia's territory) : <pre>UPDATE partial_data SET country = 'kh' WHERE within(partial_data.geom, Geomfromtext('POLYGON((773766.5 1625242.875,773805.375 1625105.0,774211.375 1624940.0,774465.375 1624743.0,774934.5 1624984.0,775074.8125 1624899.0,775620.3125 1624918.0,775759.375 1624813.0,775446.3125 1624395.0,775335.375 1624100.0,775128.8125 1624077.0,775008.5 1623848.0,775142.6875 1623539.0,775106.1875 1623316.0,775195.1875 1623109.0,775583.125 1622807.0,775584.3125 1621926.0,775298.3125 1621804.0,775009.375 1621912.0,774903.3125 1621841.0,775058.3125 1621092.0,775316.375 1620850.0,775209.3125 1620376.0,775287.8125 1620041.0,775239.8125 1619833.0,775551.375 1619731.0,775947.875 1619111.0,775974.1875 1618629.0,776088.125 1618486.0,775903.875 1618162.0,776161.3125 1617838.0,775673.125 1617586.0,775282.1875 1617229.0,775058.3125 1617300.0,774490.125 1617075.0,774484.6875 1616760.0,774608.3125 1616514.0,774504.875 1616051.0,774319.625 1615870.0,773971.375 1615756.0,773911.8125 1615559.0,773387.1875 1615089.0,773139.125 1615173.0,772877.8125 1614978.0,772459.625 1615066.0,772282.125 1614676.0,772289.875 1614466.0,772150.875 1614381.0,772179.3125 1613954.0,772045.6875 1613830.0,771703.5 1613760.0,771603.1875 1613593.0,772156.125 1613107.0,772382.8125 1612281.0,772270.625 1612160.0,772339.375 1611587.0,772237.3125 1611487.0,772602.875 1611113.0,772514.625 1610852.0,772660.625 1610856.0,773035.125 1610644.0,773249.125 1610352.0,773261.625 1610034.0,773023.875 1609716.0,773292.125 1609298.0,772822.875 1609053.0,772721.125 1608919.0,772821.625 1608700.0,772858.8125 1608286.0,772590.6875 1607971.0,772623.1875 1607684.0,772416.6875 1607632.0,772251.125 1607361.0,772360.5 1606960.0,772165.5 1606171.0,771966.875 1606073.0,771893.6875 1605845.0,771562.8125 1605440.0,771109.875 1605409.0,770987.875 1605248.0,770624.625 1605112.0,771008.375 1604503.0,771200.375 1604441.0,771208.625 1604370.0,771358.3125 1604411.0,771399.875 1603965.0,770969.625 1603755.0,770988.6875 1603007.0,770578.8125 1602531.0,770388.1875 1600888.0,770068.625 1600378.0,770119.375 1599977.0,770451.8125 1599730.0,770545.6875 1599525.0,770211.625 1598949.0,770186.8125 1598522.0,769740.375 1597427.0,769724.125 1597113.0,769547.625 1596903.0,769430.3125 1596968.0,769217.6875 1596911.0,768845.3125 1596283.0,768971.6875 1595337.0,768811.875 1594990.0,768946.625 1594643.0,768797.875 1593890.0,768546.8125 1593649.0,767983.875 1593462.0,767511.625 1593683.0,767245.125 1594014.0,767089.125 1593998.0,766674.125 1593654.0,766494.5 1593593.0,766323.375 1593571.0,765731.3125 1593723.0,765598.5 1593787.0,765498.125 1594461.0,765186.375 1594629.0,764925.875 1594649.0,764734.625 1595058.0,764556.375</pre>		

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1306471.0,267694.09375 1306678.0,267690.90625 1306821.0,267474.09375 1307187.0,267599.8125
1307454.0,267519.40625 1307662.0,267251.40625 1307941.0,266670.28125 1307852.0,266515.59375
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1315269.0,263099.6875 1315828.0,263070.59375 1316422.0,263233.28

Associated revisions

Revision 61ff7432 - 2014-02-11 01:29 PM - Martin Dobias

Fix #6995 (db manager's SQL window freezes with long query)

History

#1 - 2013-01-14 08:49 PM - Mathieu Pellerin - nIRV

- *Category set to DB Manager*

#2 - 2013-01-14 08:51 PM - Mathieu Pellerin - nIRV

- *File sql_query.txt added*

oops, seems the SQL query was cut-off. I've attached the query as a text file.

#3 - 2013-01-14 09:03 PM - Mathieu Pellerin - nIRV

To avoid confusion: this is about interface freezing when editing a query (i.e. not a freeze while the query is being executed).



Thinking out-loud: maybe the checkbox is overkill and confusing. The syntax coloring code could look at the length of the query, and above a number of characters would skip coloring. A simple

```
if (strlen(query_string) <= maxchar) {  
    //proceed with coloring  
}
```

#4 - 2013-02-17 12:17 AM - Giovanni Manghi

- *Priority changed from Normal to High*

- *Crashes QGIS or corrupts data changed from No to Yes*

#5 - 2013-05-25 03:34 AM - Giuseppe Sucameli

- *Priority changed from High to Normal*

Pasting or editing such a query makes highlighting process slow here, but it doesn't freeze (it could depend on resources available on my notebook). I could check the query length, but using a 124190 chars query long is something not usual anyway...

#6 - 2014-02-07 05:54 AM - Giovanni Manghi

- *Priority changed from Normal to High*

#7 - 2014-02-11 03:02 AM - Martin Dobias

The SQL syntax highlighting is highly inefficient, involving more than a thousand of regular expressions being matched to the text many many times. I haven't found an easy way how to fix that in reasonable amount of time - I think we need to rework the tokenizer and that is beyond a simple bug fix.

For the mean time, I suggest disabling the highlighting to overcome the problem. Any objections?

#8 - 2014-02-11 03:07 AM - Paolo Cavallini

-1: even on an Atom machine, the slowdown is acceptable, and the syntax colouring is a big plus.
If we remove it now, I guess it will be forgotten, and possibly never put back.

#9 - 2014-02-11 03:17 AM - Alexander Bruy

Maybe we should drop current implementation and use something another instead? For example QScintilla. I talked with Giuseppe about this recently and he has no objections. Here is a pull-request <https://github.com/qgis/QGIS/pull/1162>. Maybe it needs some more work, but most functionality already here.

#10 - 2014-02-11 03:22 AM - Mathieu Pellerin - nIRV

Paolo, the "slowdown" is a freeze of the application that leaves the user with the only option to kill QGIS (see the initial description) when using absurdly long SQL strings (which can happen if you input a geometry, as with the above-mentioned example).

Paolo, Martin, Alex, I think the easiest temporary fix that might be worth doing for 2.2 is simply to disable the current inefficient highlighting when the number of characters in the SQL string is greater than a tolerable number.

#11 - 2014-02-11 03:24 AM - Paolo Cavallini

+1 for this. thanks.

#12 - 2014-02-11 03:34 AM - Martin Dobias

I will have a look at Alex's patch...

#13 - 2014-02-11 04:31 AM - Martin Dobias

- *Status changed from Open to Closed*

Fixed in changeset commit:"61ff7432107da0a7ce991f68094b9f42dd1027a5".

Files

sql_query.txt	121 KB	2013-01-14	Mathieu Pellerin - nIRV
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