

QGIS Application - Bug report #14359

Primary key for topology face layer is fully scanned upfront

2016-02-22 10:46 PM - Sandro Santilli

Status: Closed	
Priority: Normal	
Assignee:	
Category: Data Provider/PostGIS	
Affected QGIS version: master	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied: No	Resolution: end of life
Crashes QGIS or corrupts data: No	Copied to github as #: 22343

Description

Followup to #14356.

The DBManager TopoViewr still triggers a full scan of face tables (dunno why only face table).

From the PostgreSQL logs:

```
2016-02-23 07:40:00.969 CET QGIS 13988 rt strk LOG: duration: 0.370 ms statement: DECLARE qgis_1 BINARY CURSOR
FOR SELECT "face_id" FROM "rt09_wgs84_topo"."face"
2016-02-23 07:40:00.971 CET QGIS 13988 rt strk LOG: duration: 2.474 ms statement: FETCH FORWARD 2000 FROM qgis_1
2016-02-23 07:40:00.977 CET QGIS 13988 rt strk LOG: duration: 1.146 ms statement: FETCH FORWARD 2000 FROM qgis_1
2016-02-23 07:40:00.982 CET QGIS 13988 rt strk LOG: duration: 1.011 ms statement: FETCH FORWARD 2000 FROM qgis_1
...
2016-02-23 07:40:03.758 CET QGIS 13988 rt strk LOG: duration: 1.097 ms statement: FETCH FORWARD 2000 FROM qgis_1
2016-02-23 07:40:03.763 CET QGIS 13988 rt strk LOG: duration: 1.156 ms statement: FETCH FORWARD 2000 FROM qgis_1
2016-02-23 07:40:03.769 CET QGIS 13988 rt strk LOG: duration: 0.494 ms statement: FETCH FORWARD 2000 FROM qgis_1
2016-02-23 07:40:03.771 CET QGIS 13988 rt strk LOG: duration: 0.081 ms statement: CLOSE qgis_1
2016-02-23 07:40:03.771 CET QGIS 13988 rt strk LOG: duration: 0.133 ms statement: COMMIT
```

I don't think the uniqueness of "face_id" should be checked, as it is a primary key.

History

#1 - 2016-02-22 10:49 PM - Sandro Santilli

Same "face_id" scan happens if I just open the "face" table from "Add PostGIS Layer" dialog.

No key scan if I open the "edge_data" table.

I've no idea about what could be different between the two

#2 - 2016-02-23 01:47 AM - Sandro Santilli

- Assignee changed from Jürgen Fischer to Nyall Dawson

- Tag changed from topology, dbmanager to performance, bigtable

I found the query comes from the StatisticalSummaryDockWidget. Dunno why would such widget be on by default.

```
#2 0x00007fff5e6dce7e in QgsPostgresConn::openCursor (this=0x7fff3c009aa0, cursorName=..., sql=...)
at /usr/src/qgis/qgis-master/src/providers/postgres/qgspostgresconn.cpp:1024
```

```

#3 0x00007fff5e712d98 in QgsPostgresFeatureIterator::declareCursor (this=0x332aa90, whereClause=..., limit=-1, closeOnFail=false,
orderBy=...)
    at /usr/src/qgis/qgis-master/src/providers/postgres/qgspostgresfeatureiterator.cpp:588
#4 0x00007fff5e70c1f8 in QgsPostgresFeatureIterator::QgsPostgresFeatureIterator (this=0x332aa90, source=0x32ec900, ownSource=false,
request=...)
    at /usr/src/qgis/qgis-master/src/providers/postgres/qgspostgresfeatureiterator.cpp:161
#5 0x00007fff5e715d47 in QgsPostgresFeatureSource::getFeatures (this=0x32ec900, request=...)
    at /usr/src/qgis/qgis-master/src/providers/postgres/qgspostgresfeatureiterator.cpp:786
#6 0x00007fff44b74f4 in QgsVectorLayerFeatureIterator::QgsVectorLayerFeatureIterator (this=0x323eab0, source=0x304a0d0,
ownSource=true,
request=...) at /usr/src/qgis/qgis-master/src/core/qgsvectorlayerfeatureiterator.cpp:171
#7 0x00007fff4460bb2 in QgsVectorLayer::getFeatures (this=0x2f72e40, request=...) at
/usr/src/qgis/qgis-master/src/core/qgsvectorlayer.cpp:939
#8 0x00007fff447db9d in QgsVectorLayer::getValues (this=0x2f72e40, fieldOrExpression=..., ok=@0x7ffffff9f4e: false, selectedOnly=false)
    at /usr/src/qgis/qgis-master/src/core/qgsvectorlayer.cpp:3144
#9 0x00007fff447e42d in QgsVectorLayer::getDoubleValues (this=0x2f72e40, fieldOrExpression=..., ok=@0x7ffffff9f4e: false,
selectedOnly=false,
nullCount=0x7ffffff9f60) at /usr/src/qgis/qgis-master/src/core/qgsvectorlayer.cpp:3176
#10 0x00007fff71c50ec in QgsStatisticalSummaryDockWidget::refreshStatistics (this=0x1020b80)
    at /usr/src/qgis/qgis-master/src/app/qgsstatisticalsummarydockwidget.cpp:121
#11 0x00007fff71c6995 in QgsStatisticalSummaryDockWidget::layerChanged (this=0x1020b80, layer=0x2f72e40)
    at /usr/src/qgis/qgis-master/src/app/qgsstatisticalsummarydockwidget.cpp:212
#12 0x00007fff750feee in QgsStatisticalSummaryDockWidget::qt_static_metacall (_o=0x1020b80, _c=QMetaObject::InvokeMetaMethod,
_id=1,
_a=0x7ffffffa270) at /usr/src/qgis/build/master/src/app/moc_qgsstatisticalsummarydockwidget.cxx:58
#13 0x00007fff336e87a in QMetaObject::activate(QObject*, QMetaObject const*, int, void**) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#14 0x00007fff5fa700d in QgsMapLayerComboBox::layerChanged (this=0x1023800, _t1=0x2f72e40)
    at /usr/src/qgis/build/master/src/gui/moc_qgsmaplayercombobox.cxx:153
#15 0x00007fff5e59cf8 in QgsMapLayerComboBox::rowsChanged (this=0x1023800) at
/usr/src/qgis/qgis-master/src/gui/qgsmaplayercombobox.cpp:87
#16 0x00007fff5fa6b29 in QgsMapLayerComboBox::qt_static_metacall (_o=0x1023800, _c=QMetaObject::InvokeMetaMethod, _id=3,
_a=0x7ffffffa400)
    at /usr/src/qgis/build/master/src/gui/moc_qgsmaplayercombobox.cxx:67
#17 0x00007fff336e87a in QMetaObject::activate(QObject*, QMetaObject const*, int, void**) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#18 0x00007fff33b8664 in QAbstractItemModel::rowsInserted(QModelIndex const&, int, int) () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#19 0x00007fff33545ce in QAbstractItemModel::endInsertRows() () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4

```

#3 - 2016-02-23 02:21 AM - Sandro Santilli

I confirm QgsStatisticalSummaryDockWidget::refreshStatistics is not hit on loading the edge table (full of LineString, rather than Polygon, if that's what matters)

#4 - 2016-02-23 02:39 AM - Sandro Santilli

Sorry I take it back, QgsStatisticalSummaryDockWidget::refreshStatistics do get called, but it returns immediately here:

```

void QgsStatisticalSummaryDockWidget::refreshStatistics()
{
    if ( !mLayer || !mFieldExpressionWidget->isValidExpression() )
    {

```

```
mStatisticsTable->setRowCount( 0 );  
return;  
}
```

#5 - 2016-02-23 09:09 PM - Nyall Dawson

- *Assignee deleted (Nyall Dawson)*

so nothing here related to the dock? In any case, I've checked and refreshStatistics is only called if the dock widget is visible.

#6 - 2016-02-23 11:52 PM - Sandro Santilli

Where's the statistical summary dock widget ?

#7 - 2016-02-24 12:09 AM - Sandro Santilli

I see refreshStatistics always called on the *first* layer being added to a map.

The "Statistics Panel" is NOT visible in my case, never.

#8 - 2016-02-24 12:11 AM - Sandro Santilli

I just noticed that another call to refreshStatistics (triggering a full table scan) happens on closing qgis, which results in having to wait up to a minute before QGIS really closes..

I think this is definitely related to the statistics widget (but cannot find a Category field for it)

#9 - 2017-05-01 01:06 AM - Giovanni Manghi

- *Regression? set to No*

- *Easy fix? set to No*

#10 - 2019-03-09 04:10 PM - Giovanni Manghi

- *Resolution set to end of life*

- *Status changed from Open to Closed*

End of life notice: QGIS 2.18 LTR

Source:

<http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/>