

# QGIS Application - Bug report #19956

## Update SQL layer results in invalid SQL expression

2018-09-26 02:32 PM - Lars Kellogg-Stedman

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> Alessandro Pasotti	
<b>Category:</b> DB Manager	
<b>Affected QGIS version:</b> 3.3(master)	<b>Regression?:</b> No
<b>Operating System:</b>	<b>Easy fix?:</b> No
<b>Pull Request or Patch Applied:</b>	<b>Resolution:</b>
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 27778
<b>Description</b>	
<p>It looks like the fix for #19843 resulted in a new problem.</p> <p>With revision 208571a, selecting "Update SQL Layer..." still produces a database error, although a slightly different one:</p> <p>near "(": syntax error</p> <p>And instead of treating the existing query as a table name, it is now trying to surround the entire expression with parentheses:</p> <p>(select ... from ...)</p> <p>This appears to be an artifact of how the query expression is stored; looking at the layer source, I see:</p> <pre>dbname='lic.db' table="(select ... from ...)" (geom) sql=</pre> <p>Those parentheses result in the syntax error when trying to execute the expression in the DB manager.</p>	

### Associated revisions

Revision 94ded32f - 2018-09-27 08:01 AM - Alessandro Pasotti

[db-manager] Allow multiline filters in sql window

Fixes #19956 - Update SQL layer results in invalid SQL expression

### History

#1 - 2018-09-26 02:45 PM - Alessandro Pasotti

- Assignee set to Alessandro Pasotti

#2 - 2018-09-26 02:47 PM - Alessandro Pasotti

To be sure I can reproduce exactly your scenario, can you please describe the steps starting from an unfiltered layer?

#3 - 2018-09-26 06:59 PM - Lars Kellogg-Stedman

Sure.

1. I started with the MASSGIS TOWNS\_POLY.shp dataset from <https://docs.digital.mass.gov/dataset/massgis-data-community-boundaries-towns>

2. I opened this shapefile in QGIS and saved it as a Spatialite datasource
3. I used SpatialLite -> New Connection to open the resulting data source
4. I double clicked on the "towns" table to add it to the project
5. I selected "Update SQL Layer..." after right clicking on the "towns" layer
6. I updated the query to look like:

```
SELECT b.town as town, b.town_id as town_id, b.geometry as geometry
FROM
"towns" as a
join "towns" as b on b.town = 'AMHERST' or st_touches(a.geometry, b.geometry)
where
a.town = 'AMHERST'
```

7. I selected "Update" and closed the database manager
8. I once again selected "Update SQL Layer..." from the layer menu.
9. This resulted in the syntax error, and the query now looks like:

```
(SELECT b.town as town, b.town_id as town_id, b.geometry as geometry
FROM
"towns" as a
join "towns" as b on b.town = 'AMHERST' or st_touches(a.geometry, b.geometry)
where a.town = 'AMHERST'
)
```

I've noticed something interesting: if I keep the entire sql expression on a single line like this:

```
SELECT b.town as town, b.town_id as town_id, b.geometry as geometry FROM "towns" as a join "towns" as b on b.town = 'AMHERST' or
st_touches(a.geometry, b.geometry) where a.town = 'AMHERST'
```

...then I don't get the error when subsequently editing it, and it never gets those extra parentheses.

#### **#4 - 2018-09-27 07:30 AM - Alessandro Pasotti**

Thanks for the information!

I think I know where's the issue, working on it today.

#### **#5 - 2018-09-27 08:31 AM - Alessandro Pasotti**

- Status changed from Open to In Progress

- Pull Request or Patch supplied changed from No to Yes

<https://github.com/qgis/QGIS/pull/8037>

#### **#6 - 2018-09-27 09:18 AM - Anonymous**

- % Done changed from 0 to 100

- Status changed from In Progress to Closed

Applied in changeset commit:qgis|94ded32f4ee548c3fbc798b2fd81fd81c8ca11bf.