# QGIS Application - Bug report #10165
# Cannot use "less than"/"greater than" operators on date fields

2014-05-03 04:21 PM - Anita Graser

| | | | | |
|---|---|---|---|---|
| **Status:** | Closed | | | |
| **Priority:** | Severe/Regression | | | |
| **Assignee:** | Matthias Kuhn | | | |
| **Category:** | Data Provider/OGR | | | |
| **Affected QGIS version:** | master | **Regression?:** | No |
| **Operating System:** | | **Easy fix?:** | No |
| **Pull Request or Patch supplied:** | No | **Resolution:** | up/downstream |
| **Crashes QGIS or corrupts data:** | No | **Copied to github as #:** | 18619 |

**Description**

(This is a follow-up ticket of #9241)

There is an issue querying date fields: I cannot seem to use < and > operators in queries:

    OGR[3] error 1: Type mismatch or improper type of arguments to < operator.

**Related issues:**

| | | |
|---|---|---|
| Related to QGIS Application - Bug report # 9241: QgsVectorDataProvider.minimu... | **Closed** | **2013-12-20** |

## History

**#1 - 2014-05-25 11:39 AM - Anita Graser**

*- Priority changed from Normal to High*

This is kind of a regression since filtering dates used to work when they were still interpreted as strings instead of datetimes.

**#2 - 2014-05-25 11:39 AM - Anita Graser**

*- Assignee set to Matthias Kuhn*

**#3 - 2014-05-26 03:53 AM - Giovanni Manghi**

Anita Graser wrote:

> *This is kind of a regression since filtering dates used to work when they were still interpreted as strings instead of datetimes.*

if it is a regression I would suggest tag this ticket as blocker. Cheers!

**#4 - 2014-05-26 04:02 AM - Anita Graser**

*- Priority changed from High to Severe/Regression*

**#5 - 2014-06-01 06:29 AM - Anita Graser**

Is this an upstream OGR issue again or is this a QGIS issue?

**#6 - 2014-06-02 11:51 PM - Matthias Kuhn**

Hi Anita,

Can you attach sample data?


**#7 - 2014-06-03 02:45 AM - Anita Graser**

The dataset from the previous ticket is still up at http://ge.tt/6DBclJh/v/0


**#8 - 2014-06-03 03:01 AM - Matthias Kuhn**

*- Status changed from Open to Feedback*


And what exactly are you trying to do?
I.e. how do you specify the query?


**#9 - 2014-06-03 03:13 AM - Anita Graser**

I get the error when trying to specify the query manually in Layer Properties or automatically through Time Manager plugin.


**#10 - 2014-06-03 03:30 AM - Matthias Kuhn**

*- Status changed from Feedback to Closed*
*- Resolution set to up/downstream*


I think you are referring to "Feature subset"?

That is passed to the provider and never evaluated by QGIS and therefore looks like an upstream issue.

You can try on the command line to find a syntax that works.

```
ogrinfo test2.shp -sql 'SELECT COUNT(*) FROM test2 WHERE DATE < "1970-01-01"'

INFO: Open of `test2.shp'
    using driver `ESRI Shapefile' successful.

Layer name: test2
Geometry: Point
Feature Count: 1
Layer SRS WKT:
(unknown)
COUNT_*: Integer (0.0)
OGRFeature(test2):0
  COUNT_* (Integer) = 3


ogrinfo --version
GDAL 1.10.1, released 2013/08/26
```

**#11 - 2014-06-03 11:31 AM - Anita Graser**

I just tested again and the same feature subset query which works in QGIS 2.2 fails with type mismatch error in today's master.

Update: 2.2 uses OGR 1.10.1, master uses OGR 1.11.0

**#12 - 2014-06-03 11:47 AM - Anita Graser**

*- Subject changed from Cannot use "smaller than"/"bigger than" operators on date fields to Cannot use "less than"/"greater than" operators on date fields*

This is the upstream ticket: http://trac.osgeo.org/gdal/ticket/5507

Not sure if this ticket here should be closed already as long as the upstream issue is not fixed?

**#13 - 2014-06-03 03:56 PM - Matthias Kuhn**

If it's really what it looks like, we cannot do anything about it on QGIS side, so there is no reason to leave this ticket open.
You probably need to adjust your subquery string to match the date format OGR expects.