

Redmine - Defect #37008

Custom query

2022-04-22 14:49 - Eugene Lastname

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|-----------------|---------------|-------------------|-----------|
| Status: | New | Start date: | |
| Priority: | Normal | Due date: | |
| Assignee: | | % Done: | 0% |
| Category: | Search engine | Estimated time: | 0.00 hour |
| Target version: | | Affected version: | |
| Resolution: | | | |

Description

We have made a query for our entities, inheriting the basic redmine Query.
But faced a problem with using custom methods sql_for_['field_name']_field

This is how the filters are defined

```
def sql_for_something_field(field, operator, values)
  sql_for_field(field, operator, values, ::StateContract.table_name, :identifier)
end
```

And during the exploitation found that filters with the operator "!=" and string data type do not always work correctly.
All next filters stop working.

Here is the resulting SQL

```
WHERE ( table1.field1 IS NULL OR table1.field1 = '' AND (table2.id IN (1000)))
```

The problem is the missing brackets around

```
table1.field1 IS NULL OR table1.field1 = ''
```

After some digging, I found (app/models/query.rb:989)

```
filters_clauses << send(method, field, operator, v)
```

Which did not expose brackets for the custom filter.

I believe that filters, even custom ones, should be isolated.

Please replace

```
filters_clauses << send(method, field, operator, v)
```

on the

```
filters_clauses << '(' + send(method, field, operator, v) + ')'
```

Note

For most filters, your implementation is not a problem
But for the operator "!=" with the string data type in the query, an OR is set, which breaks the query.