Defect #32737

Duplicate sort keys for issue query cause SQL error with SQL Server

Installed Redmine 4.1.0.stable from scratch following RedmineInstall guide.
Created a new project / tracker / issues. Have done the configuration.

"500 - An error occurred while executing the query and has been logged. Please report this error to your Redmine administrator."
Looking for a workaround to get the Gantt Tab working.

Redmine:

4.1.0.stable
Ruby: 2.5.7-p206 (2019-10-01) [x64-mingw32]
Rails: 5.2.4.1
Database: MS SQL Server 2017 (RTM) - 14.0.1000.169 (X64) Express Edition
Webserver: MS IIS Reverse Proxy -> Puma
OS: VM Windows Server 2016 Standard 10.0 <X64> (Build 14393: ) (Hypervisor)
Redmine plugins: redhopper 2.0.0
production.log:

Started GET "/projects/projektmanagement-it/issues/gantt" for 127.0.0.1 at 2019-12-30 23:07:36 +0100
Processing by GanttsController#show as HTML
  Parameters: {"project_id":"projektmanagement-it"}
  Current user: amerzza (id=5)
  Rendering gantts/show.html.erb within layouts/base
  Rendered queries/_filters.html.erb (10.7ms)
  Rendered queries/_columns.html.erb (3.4ms)
  Rendered gantts/show.html.erb within layouts/base (65.9ms)
Query::StatementInvalid: TinyTds::Error: A column has been specified more than once in the order by list. Columns in the order by list must be unique.: EXEC sp_executesql N'SELECT [issues].[id] AS t0_r0, [issues].[tracker_id] AS t0_r1, [issues].[project_id] AS t0_r2, [issues].[subject] AS t0_r3, [issues].[description] AS t0_r4, [issues].[due_date] AS t0_r5, [issues].[category_id] AS t0_r6, [issues].[status_id] AS t0_r7, [issues].[assigned_to_id] AS t0_r8, [issues].[priority_id] AS t0_r9, [issues].[fixed_version_id] AS t0_r10, [issues].[author_id] AS t0_r11, [issues].[lock_version] AS t0_r12, [issues].[created_on] AS t0_r13, [issues].[updated_on] AS t0_r14, [issues].[start_date] AS t0_r15, [issues].[done_ratio] AS t0_r16, [issues].[estimated_hours] AS t0_r17, [issues].[parent_id] AS t0_r18, [issues].[root_id] AS t0_r19, [issues].[lft] AS t0_r20, [issues].[rgt] AS t0_r21, [issues].[is_private] AS t0_r22, [issues].[closed_on] AS t0_r23, [issue_statuses].[id] AS t1_r0, [issue_statuses].[name] AS t1_r1, [issue_statuses].[is_closed] AS t1_r2, [issue_statuses].[position] AS t1_r3, [issue_statuses].[default_done_ratio] AS t1_r4, [projects].[id] AS t2_r0, [projects].[name] AS t2_r1, [projects].[description] AS t2_r2, [projects].[homepage] AS t2_r3, [projects].[is_public] AS t2_r4, [projects].[parent_id] AS t2_r5, [projects].[created_on] AS t2_r6, [projects].[updated_on] AS t2_r7, [projects].[identifier] AS t2_r8, [projects].[status] AS t2_r9, [projects].[lft] AS t2_r10, [projects].[rgt] AS t2_r11, [projects].[inherit_members] AS t2_r12, [projects].[d
WHERE (projects.status <> 9
    AND EXISTS (SELECT 1 AS one
    FROM enabled_modules em
WHERE em.project_id = projects.id
    AND em.name="issue_tracking")
    AND ((issues.status_id IN (SELECT id
    FROM issue_statuses
WHERE is_closed=0))
    AND projects.id = 1)
ORDER BY projects.lft ASC,
    issues.id ASC,
    issues.id DESC OFFSET 0 ROWS FETCH NEXT @0 ROWS ONLY',
@0 = 500
Related issues:
Related to Redmine - Defect #30009: Empty sort criteria for issue query gives... Closed
Related to Redmine - Defect #29581: Issues in paginated views may be lost bec... Closed
Has duplicate Redmine - Defect #32808: Gantt Query Error 500 Closed
Has duplicate Redmine - Defect #33224: SQL Server: A column has been specific... Closed
Associated revisions
Revision 19636 - 2020-04-02 08:22 - Go MAEDA
Remove duplicate keys from sort criteria (#32737).
Patch by Go MAEDA.

Revision 19637 - 2020-04-02 09:52 - Go MAEDA
Fix that viewing gantt causes SQL error with SQL Server (#32737).
Patch by Pavel Rosicky.

Revision 19638 - 2020-04-02 09:55 - Go MAEDA
Merged r19636 from trunk to 4.1-stable (#32737).

Revision 19639 - 2020-04-02 09:56 - Go MAEDA
Merged r19637 from trunk to 4.1-stable (#32737).

History
#1 - 2020-01-05 10:25 - Go MAEDA
I have confirmed that the query edit form can set the same field more than once as sort criteria and the same column appears multiple times in the ORDER BY clause as a result.

I think the following checks (at least the first one) should be added.

  * Don’t add the same column to ORDER BY clause more than once
  * Reject specifying the same field more than twice for sort criteria in the query edit form

#2 - 2020-01-15 08:07 - Tobias Pitzer
Go MAEDA wrote:

I have confirmed that the query edit form can set the same field more than once as sort criteria and the same column appears multiple times in the ORDER BY clause as a result.

I think the following checks (at least the first one) should be added.

  * Don’t add the same column to ORDER BY clause more than once
  * Reject specifying the same field more than twice for sort criteria in the query edit form

Is there any workaround on this?

#3 - 2020-01-15 10:32 - Go MAEDA
- Has duplicate Defect #32808: Gantt Query Error 500 added
Go MAEDA wrote:

I think the following checks (at least the first one) should be added.

- Don't add the same column to ORDER BY clause more than once
- Reject specifying the same field more than twice for sort criteria in the query edit form

Exclude the same column from the ORDER BY clause.
I attached a patch.

Yuichi HARADA wrote:

Go MAEDA wrote:

I think the following checks (at least the first one) should be added.

- Don't add the same column to ORDER BY clause more than once
- Reject specifying the same field more than twice for sort criteria in the query edit form

Exclude the same column from the ORDER BY clause.
I attached a patch.

Thank you, Yuichi HARADA.
It works on my Redmine. :)

Go MAEDA wrote:

Maybe also this patch will work.

Go MAEDA wrote:

Maybe also this patch will work.

Execute tests on SQL Server, 12 test failures (500: Internal Server Error. I think duplicate ORDER BY clauses are involved) and 16 execution errors (duplicate ORDER BY clause) occurred.

- test/unit/lib/redmine/helpers/gantt_test.rb
- test/functional/gantts_controller_test.rb

Test results... Test results...

dev-trunk $ RAILS_ENV=test bundle exec rake test
s], [id] AS t3_r0, [users].[login] AS t3_r1, [users].[hashed_password] AS t3_r2, [users].[firstname] AS t3_r3, [users].[lastname] AS t3_r4, [users].[admin] AS t3_r5, [users].[status] AS t3_r6, [users].[last_login_on] AS t3_r7, [language] AS t3_r8, [users].[auth_source_id] AS t3_r9, [users].[created_on] AS t3_r10, [users].[updated_on] AS t3_r11, [users].[identity_url] AS t3_r12, [users].[must_change_passwd] AS t3_r16, [users].[passwd_changed_on] AS t3_r17, [trackers].[id] AS t4_r0, [trackers].[name] AS t4_r1, [trackers].[is_in_chlog] AS t4_r2, [trackers].[position] AS t4_r3, [trackers].[is_in_roadmap] AS t4_r4, [trackers].[fields_bits] AS t4_r5, [trackers].[default_status_id] AS t4_r6, [trackers].[description] AS t4_r7, [enumerations].[id] AS t5_r0, [enumerations].[name] AS t5_r1, [enumerations].[position] AS t5_r2, [enumerations].[is_default] AS t5_r3, [enumerations].[type] AS t5_r4, [issues].[issue_id] AS t6_r0, [issues].[issue_id] AS t6_r1, [issue_categories].id AS t6_r2, [issue_categories].project_id AS t6_r3, [versions].[id] AS t7_r0, [versions].[id] AS t7_r1, [versions].[id] AS t7_r2, [versions].[name] AS t7_r3, [versions].[position] AS t7_r4, [versions].[created_on] AS t7_r5, [versions].[updated_on] AS t7_r6, [versions].[effective_date] AS t7_r7, [versions].[status] AS t7_r8, [versions].[sharing] AS t7_r9 FROM [issues] INNER JOIN [projects] ON [projects].[id] = [issues].[project_id] INNER JOIN [issue_statuses] ON [issue_statuses].[id] = [issues].[status_id] LEFT OUTER JOIN [users] ON [users].[id] = [issues].[assigned_to_id] LEFT OUTER JOIN [trackers] ON [trackers].[id] = [issues].[tracker_id] LEFT OUTER JOIN [enumerations] ON [enumerations].[id] = [issues].[priority_id] AND [enumerations].[type] IN ("IssuePriority") LEFT OUTER JOIN [issue_categories] ON [issue_categories].[id] = [issues].[category_id] LEFT OUTER JOIN [versions] ON [versions].[id] = [issues].[fixed_version_id] WHERE (projects.status < 9 AND EXISTS (SELECT 1 AS one FROM enabled_modules em WHERE em.project_id = projects.id AND em.name = 'issue_tracking')) AND (issues.status_id IN (SELECT id FROM enabled_modules WHERE WHERE ISCLOSED=0)) AND projects.id = 169 ORDER BY projects.lft ASC, issues.id ASC, issues.id DESC OFFSET 0 ROWS FETCH NEXT 80 ROWS ONLY"'}, N'@0 int', @0 = 500

```
bin/rails test test/unit/lib/redmine/helpers/gantt_test.rb:85:in `block in <class:GanttHelperTest>'

bin/rails test test/unit/lib/redmine/helpers/gantt_test.rb:79
(snip)

Failure:
GanttsControllerTest#test_gantt_should_work ['/Users/harada/_work_/redmine/git/dev-trunk/test/functional/gantts_controller_test.rb:41]:
Expected response to be a <2XX: success>, but was a <500: Internal Server Error>

bin/rails test test/functional/gantts_controller_test.rb:33

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Failure:
GanttsControllerTest#test_gantt_should_not_disclose_private_projects ['/Users/harada/_work_/redmine/git/dev-trunk/test/functional/gantts_controller_test.rb:117]:
Expected response to be a <2XX: success>, but was a <500: Internal Server Error>

bin/rails test test/functional/gantts_controller_test.rb:115
(snip)

Finished in 924.631252s, 5.3632 runs/s, 24.4162 assertions/s. 4959 runs, 22576 assertions, 12 failures, 16 errors, 4 skips

You have skipped tests. Run with --verbose for details.

dev-trunk $
for reference #29581 caused the issue

patches 32737-remove-duplicate-keys.patch and gantt.rb.patch should be applied

#15 - 2020-04-01 10:04 - Marius BĂLTEANU
- Target version set to 4.1.1

We should fix this in 4.1.1 together with #30285.

#16 - 2020-04-01 10:11 - Marius BĂLTEANU
- Description updated

#17 - 2020-04-02 05:02 - Yuichi HARADA
Pavel Rosický wrote:

for reference #29581 caused the issue

patches 32737-remove-duplicate-keys.patch and gantt.rb.patch should be applied

That's great. All tests completed successfully by combining 32737-remove-duplicate-keys.patch and gantt.rb.patch. However, since the relative path of gantt.rb was unknown, I was rebuilt gantt.rb.patch.

diff --git a/lib/redmine/helpers/gantt.rb b/lib/redmine/helpers/gantt.rb
index 16f180090..206cdea24 100644
--- a/lib/redmine/helpers/gantt.rb
+++ b/lib/redmine/helpers/gantt.rb
@@ -151,7 +151,7 @@ module Redmine
         #issue
     end

#18 - 2020-04-02 08:46 - Go MAEDA
- Related to Defect #29581: Issues in paginated views may be lost because sorting criteria are not unique added

#19 - 2020-04-02 09:59 - Go MAEDA
- Status changed from New to Closed
- Assignee set to Go MAEDA
- Resolution set to Fixed

Committed the patch. Thank you to everyone involved in testing and fixing the issue.

Files

<table>
<thead>
<tr>
<th>File</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>production.log</td>
<td>27.2 KB</td>
<td>2020-01-02</td>
<td>Sascha Merz</td>
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<tr>
<td>32737_exclude_same_column_from_orderby.patch</td>
<td>2.41 KB</td>
<td>2020-01-22</td>
<td>Yuichi HARADA</td>
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<tr>
<td>32737-remove-duplicate-keys.patch</td>
<td>1.51 KB</td>
<td>2020-01-27</td>
<td>Go MAEDA</td>
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<tr>
<td>gantt.rb.patch</td>
<td>529 Bytes</td>
<td>2020-03-31</td>
<td>Pavel Rosický</td>
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