

## Redmine - Defect #11662

### Invalid query returned from Issues.visible scope after accessing User#projects\_by\_role with a role that is not present

2012-08-20 19:53 - Joe Rocklin

|   |                    |                          |           |
|---|--------------------|--------------------------|-----------|
| <b>Status:</b>  | Closed             | <b>Start date:</b>       |           |
| <b>Priority:</b>  | Normal             | <b>Due date:</b>         |           |
| <b>Assignee:</b>  | Jean-Philippe Lang | <b>% Done:</b>           | 0%        |
| <b>Category:</b>  | Issues             | <b>Estimated time:</b>   | 0.00 hour |
| <b>Target version:</b>  | 2.1.0              | <b>Affected version:</b> | 2.0.3     |
| <b>Resolution:</b>  | Fixed              |                          |           |
| <b>Description</b>  |                    |                          |           |
| <p>I was seeing an issue with some users getting a 500 error from their 'My Page' view. The stack trace showed a mysql query error, with the offending part being:</p> <pre>... OR projects.id IN () ...</pre> <p>After some digging I discovered the problem was entering from the Project.allowed_to_condition when looping of the user.project_by_role list the user didn't have any projects specified with the given role. See attached patch.</p> <p>rake about output:</p> <pre>About your application's environment Ruby version      1.9.3 (x86_64-linux) RubyGems version  1.8.24 Rack version      1.4 Rails version     3.2.6 Active Record version  3.2.6 Action Pack version  3.2.6 Active Resource version 3.2.6 Action Mailer version 3.2.6 Active Support version 3.2.6 Middleware        Rack::Cache, ActionDispatch::Static, Rack::Lock, #&lt;ActiveSupport::Cache::Strategy::LocalCache::Middleware:0x00000002271f30&gt;, Rack::Runtime, Rack::MethodOverride, ActionDispatch::RequestId, Rails::Rack::Logger, ActionDispatch::ShowExceptions, ActionDispatch::DebugExceptions, ActionDispatch::RemoteIp, ActionDispatch::Callbacks, ActiveRecord::ConnectionAdapters::ConnectionManagement, ActiveRecord::QueryCache, ActionDispatch::Cookies, ActionDispatch::Session::CookieStore, ActionDispatch::Flash, RedmineDmsf::NoParse, ActionDispatch::ParamsParser, ActionDispatch::Head, Rack::ConditionalGet, Rack::ETag, ActionDispatch::BestStandardsSupport, OpenIdAuthentication Application root  /opt/redmine Environment       production Database adapter  mysql2 Database schema version 20120422150750</pre> |                    |                          |           |

#### Associated revisions

**Revision 10241 - 2012-08-27 12:09 - Jean-Philippe Lang**

Make sure we don't build an empty IN () statement (#11662).

**Revision 10242 - 2012-08-27 12:11 - Jean-Philippe Lang**

Do not build a projects\_by\_role Hash that gets updated when accessing a key that is not present (#11662).

## History

### #1 - 2012-08-21 12:14 - Etienne Massip

Could you please provide a less technical description and steps to reproduce?

### #2 - 2012-08-21 15:21 - Joe Rocklin

I guess the less technical description would be: "some users get a 500 error when trying to view 'My Page'" and the following error is in the log:

```
ActionView::Template::Error (Mysql2::Error: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')))) AND (issues.project_id in (1,2,5,6,7,8,9,10,11,12,14,154) AND ((start_date>' at line 1: 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`.`position` AS t0_r23, `issues`.`remaining_hours` AS t0_r24, `issues`.`story_points` AS t0_r25, `projects`.`id` AS t1_r0, `projects`.`name` AS t1_r1, `projects`.`description` AS t1_r2, `projects`.`homepage` AS t1_r3, `projects`.`is_public` AS t1_r4, `projects`.`parent_id` AS t1_r5, `projects`.`created_on` AS t1_r6, `projects`.`updated_on` AS t1_r7, `projects`.`identifier` AS t1_r8, `projects`.`status` AS t1_r9, `projects`.`lft` AS t1_r10, `projects`.`rgt` AS t1_r11, `projects`.`dmsf_description` AS t1_r12, `trackers`.`id` AS t2_r0, `trackers`.`name` AS t2_r1, `trackers`.`is_in_chlog` AS t2_r2, `trackers`.`position` AS t2_r3, `trackers`.`is_in_roadmap` AS t2_r4, `enumerations`.`id` AS t3_r0, `enumerations`.`name` AS t3_r1, `enumerations`.`position` AS t3_r2, `enumerations`.`is_default` AS t3_r3, `enumerations`.`type` AS t3_r4, `enumerations`.`active` AS t3_r5, `enumerations`.`project_id` AS t3_r6, `enumerations`.`parent_id` AS t3_r7, `users`.`id` AS t4_r0, `users`.`login` AS t4_r1, `users`.`hashed_password` AS t4_r2, `users`.`firstname` AS t4_r3, `users`.`lastname` AS t4_r4, `users`.`mail` AS t4_r5, `users`.`admin` AS t4_r6, `users`.`status` AS t4_r7, `users`.`last_login_on` AS t4_r8, `users`.`language` AS t4_r9, `users`.`auth_source_id` AS t4_r10, `users`.`created_on` AS t4_r11, `users`.`updated_on` AS t4_r12, `users`.`type` AS t4_r13, `users`.`identity_url` AS t4_r14, `users`.`mail_notification` AS t4_r15, `users`.`salt` AS t4_r16, `users`.`reminder_notification` AS t4_r17 FROM `issues` LEFT OUTER JOIN `projects` ON `projects`.`id` = `issues`.`project_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 `users` ON `users`.`id` = `issues`.`assigned_to_id` WHERE (((projects.status=1 AND projects.id IN (SELECT em.project_id FROM enabled_modules em WHERE em.name='issue_tracking')) AND ((projects.is_public = 1 AND ((issues.is_private = 0 OR issues.author_id = 97 OR issues.assigned_to_id IN (97,6,27,34,42,48,56,68,90,91,98)))) OR (projects.id IN (6,9,7,1,5,154,2,11,12,10,8) AND ((issues.is_private = 0 OR issues.author_id = 97 OR issues.assigned_to_id IN (97,6,27,34,42,48,56,68,90,91,98)))) OR (projects.id IN (14) AND ((issues.is_private = 0 OR issues.author_id = 97 OR issues.assigned_to_id IN (97,6,27,34,42,48,56,68,90,91,98)))) OR projects.id IN ()))) AND (issues.project_id in (1,2,5,6,7,8,9,10,11,12,14,154) AND ((start_date>='2012-08-19' and start_date<='2012-08-25') or (due_date>='2012-08-19' and due_date<='2012-08-25'))):
```

```
1: <h3><%= I(:label_calendar) %></h3>
```

```
2:
```

```
3: <%= calendar = Redmine::Helpers::Calendar.new(Date.today, current_language, :week)
```

```
4:   calendar.events = Issue.visible.find :all,
```

```
5:       :conditions => ["#{Issue.table_name}.project_id in (#{@user.projects.collect{|m| m.id}.join(',')) AND ((start_date>=? and start_date<=?) or (due_date>=? and due_date<=?))", calendar.startdt, calendar.enddt, calendar.startdt, calendar.enddt],
```

```
6:       :include => [:project, :tracker, :priority, :assigned_to] unless @user.projects.empty? %>
```

```
7:
```

```
app/views/my/blocks/_calendar.html.erb:4:in `app_views_my_blocks_calendar_html_erb___2203117175707133972_51672440'
```

```
app/views/my/page.html.erb:11:in `block in app_views_my_page_html_erb___3004501534925273256_28909740'
```

```
app/views/my/page.html.erb:8:in `each'
```

```
app/views/my/page.html.erb:8:in `app_views_my_page_html_erb___3004501534925273256_28909740'
```

It seems to be happening for users which were not listed as 'Manager' for any project in our configuration. If you were a manager of at least one project, then the error was not seen.

I did some more testing this morning and found that the problem also goes away (without the patch applied and without being a manager of any project) if I move a custom block (from a plugin which provides an alternate calendar view) to the bottom of the page so it is the last thing rendered. The entirety of the code for the block is:

```
<h3><%= I(:label_personal_calendar) %></h3>

<% calendar = Redmine::Helpers::Calendar.new(Date.today, current_language, :week)
mgr_projects = User.current.projects_by_role[Role.where(:name => "Manager").first]
mgr_project_ids = [0]
mgr_projects.each do |proj|
  mgr_project_ids << proj.id
end

watched = Issue.on_active_project.watched_by(User.current.id)
rest = Issue.where("start_date BETWEEN :start_date AND :end_date OR due_date BETWEEN :start_date AND :end_date",
  :start_date => calendar.startdt, :end_date => calendar.enddt)
  .where("author_id = :id OR assigned_to_id IN (:id_list) OR project_id IN (:mgr_list)",
  :id => User.current.id,
  :id_list => [User.current.id] + User.current.group_ids,
  :mgr_list => mgr_project_ids)

calendar.events = watched + rest;
%>

<%= render :partial => 'common/calendar', :locals => { :calendar => calendar } %>
```

### #3 - 2012-08-21 16:59 - Etienne Massip

- Resolution set to *Can't reproduce*

Looking at `User#project_by_role` code, I can't see a way it could return a map containing a key with no values associated.

Could you try with no plugin installed?

If that doesn't change anything, maybe you could try to change `source:/tags/2.0.3/app/models/user.rb#L426` if `membership.project` with `if membership.project.present??`

### #4 - 2012-08-27 11:47 - Jean-Philippe Lang

This is due to the way `@projects_by_role` is initialized in `User#projects_by_role`. Accessing `projects_by_role[]` with a key that does not exist implicitly creates an empty array as its value, as demonstrated below:

```
irb(main):001:0> a = Hash.new {|h,k| h[k]=[]}
=> {}
irb(main):002:0> a[:foo]
=> []
```

```
irb(main):003:0> a
```

```
=> {:foo=>[]}
```

#### #5 - 2012-08-27 12:13 - Jean-Philippe Lang

- Subject changed from *Invalid query returned from Issues.visible scope* to *Invalid query returned from Issues.visible scope after accessing User#projects\_by\_role with a role that is not present*
- Status changed from *New* to *Closed*
- Assignee set to *Jean-Philippe Lang*
- Target version set to *2.1.0*
- Resolution changed from *Cant reproduce* to *Fixed*

This should be fixed by the 2 related commits.

#### #6 - 2012-08-27 12:31 - Etienne Massip

Jean-Philippe Lang wrote:

*This is due to the way @projects\_by\_role is initialized in User#projects\_by\_role. Accessing projects\_by\_role[] with a key that does not exist implicitly creates an empty array as its value, as demonstrated below:*

Gosh, I didn't know that, thanks for the lesson.

Weird idea though :p

#### Files

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|                         |           |            |             |
|-------------------------|-----------|------------|-------------|
| fix_empty_project.patch | 598 Bytes | 2012-08-20 | Joe Rocklin |
|-------------------------|-----------|------------|-------------|