

## Redmine - Patch #24839

### Minor performance improvement - Replace count by exists?

2017-01-16 14:23 - Vincent Robert

<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>	Performance	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	3.4.0		

#### Description

When checking to see if a query returns any records, we should use the ActiveRecord exists? method instead of count.

Here is an example in the versions/show.html.erb file:

```
diff --git a/app/views/versions/show.html.erb b/app/views/versions/show.html.erb
index 82bd572..fc22a9f 100644
--- a/app/views/versions/show.html.erb
+++ b/app/views/versions/show.html.erb
@@ -32,7 +32,7 @@
 <% end %>

<div id="status_by">
-<%= render_issue_status_by(@version, params[:status_by]) if @version.fixed_issues.count > 0 %>
+<%= render_issue_status_by(@version, params[:status_by]) if @version.fixed_issues.exists? %>
</div>
</div>
```

If we compare the generated queries with PostgreSQL:

```
SELECT 1 AS one FROM "issues" WHERE "issues"."fixed_version_id" = ??? LIMIT 1;
should be faster than
SELECT COUNT(*) FROM "issues" WHERE "issues"."fixed_version_id" = ???;
```

#### Related issues:

Related to Redmine - Patch # 26728: count > 0 vs exists?

**Closed**

#### Associated revisions

##### Revision 16210 - 2017-01-16 19:11 - Jean-Philippe Lang

Use exists? instead of count (#24839).

##### Revision 16211 - 2017-01-16 19:12 - Jean-Philippe Lang

Use exists? instead of count (#24839).

Patch by Vincent Robert and Go MAEDA.

#### History

##### #1 - 2017-01-16 15:42 - Go MAEDA

- File *use-exists-instead-of-count.diff* added

Thank you for the patch.

I found three more count which can be replaced with exists?. This is an updated patch: attachment:use-exists-instead-of-count.diff

Although `.count > 0` can be found in `app/views/imports/show.html.erb` too, I have not changed because of cache efficiency (exactly the same query will be performed just after them).

**#2 - 2017-01-16 15:57 - Go MAEDA**

- File *deleted (use-exists-instead-of-count.diff)*

**#3 - 2017-01-16 15:58 - Go MAEDA**

- File *use-exists-instead-of-count.diff* added

Excluded `app/models/project.rb` from the patch because of cache efficiency.

**#4 - 2017-01-16 19:13 - Jean-Philippe Lang**

- Status changed from *New* to *Closed*

- Assignee set to *Jean-Philippe Lang*

- Target version set to *3.4.0*

Committed, thanks.

**#5 - 2018-07-01 06:48 - Go MAEDA**

- Related to Patch #26728: *count > 0 vs exists?* added

**Files**

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use-exists-instead-of-count.diff	1.54 KB	2017-01-16	Go MAEDA
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