Redmine - Patch #24839

Minor performance improvement - Replace count by exists?

2017-01-16 14:23 - Vincent Robert

Status:	Closed		**Start date:**	
Priority:	Normal		**Due date:**	
Assignee:	Jean-Philippe Lang		**% Done:**	0%
Category:	Performance		**Estimated time:**	0.00 hour
Target version:	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: <u>use-exists-instead-of-count.diff</u>

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

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