

## Redmine - Defect #35927

### Slow loading of /time\_entries/new

2021-09-28 13:05 - Mark J

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Go MAEDA	<b>% Done:</b>	0%
<b>Category:</b>	Performance	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	6.1.0	<b>Affected version:</b>	4.2.1
<b>Resolution:</b>	Fixed		
<b>Description</b>			
Opening /time_entries/new takes 10s, when we have 1000 users with 2 different groups that one has ~10 users and other has all other users.			
I have looked into code and it seems I have found the issue, attaching additional info via screens. Basically if project has a lot of users `assignable_users` enumerates each users permissions by one, creating 2*X (X=number users) sql queries.			
I'm hosting redmine with help of docker official image.			
Environment:			
Redmine version 4.2.1.stable			
Ruby version 2.7.4-p191 (2021-07-07) [x86_64-linux]			
Rails version 5.2.5			
Environment debug			
Database adapter SQLServer			
Mailer queue ActiveJob::QueueAdapters::AsyncAdapter			
Mailer delivery smtp			
SCM:			
Subversion 1.10.4			
Mercurial 4.8.2			
Bazaar 2.8.0			
Git 2.20.1			
Filesystem			
Redmine plugins:			
no plugin installed			

#### Associated revisions

##### Revision 23595 - 2025-04-02 11:22 - Go MAEDA

Improve performance of `TimeEntry#assignable\_users` by reducing SQL queries (#35927).

Patch by Go MAEDA (user:maeda).

#### History

##### #1 - 2021-10-03 07:41 - Marius BĂLTEANU

- Status changed from New to Confirmed

- Assignee set to Marius BĂLTEANU

##### #2 - 2025-02-02 14:09 - Go MAEDA

- File 35927.patch added

- Target version set to Candidate for next minor release

The attached patch should fixes the issue.

Below are the results tested on a project with 7 members.

Current code:

```
redmine-app(dev)> t = TimeEntry.first
TimeEntry Load (0.1ms)  SELECT "time_entries".* FROM "time_entries" ORDER BY "time_entries"."id" ASC LIMIT ?
[["LIMIT", 1]]
```

```
=>
#<TimeEntry:0x000000016c1f2df0
...
redmine-app(dev)> t.assignable_users
  Project Load (0.1ms)  SELECT "projects".* FROM "projects" WHERE "projects"."id" = ? LIMIT ?  [["id", 1], ["LIMIT", 1]]
    Member Load (0.1ms)  SELECT "members".* FROM "members" INNER JOIN "users" ON "users"."id" = "members"."user_id" WHERE "members"."project_id" = ? AND "users"."type" = ? AND "users"."status" = ? AND "users"."status" = ?
      [["project_id", 1], ["type", "User"], ["status", 1], ["status", 1]]
    User Load (0.1ms)  SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."id" IN (?, ?, ?, ?, ?, ?, ?)  [["type", "User"], ["id", 2], ["id", 3], ["id", 1], ["id", 4], ["id", 7], ["id", 8], ["id", 9]]
    EnabledModule Pluck (0.4ms)  SELECT "enabled_modules"."name" FROM "enabled_modules" WHERE "enabled_modules"."project_id" = ?  [["project_id", 1]]
    Member Load (0.1ms)  SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ?  [["user_id", 2], ["status", 9], ["project_id", 1], ["LIMIT", 1]]
    Role Load (0.1ms)  SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ?  [["member_id", 1]]
    Member Load (0.2ms)  SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ?  [["user_id", 3], ["status", 9], ["project_id", 1], ["LIMIT", 1]]
    Role Load (0.0ms)  SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ?  [["member_id", 2]]
    Member Load (0.0ms)  SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ?  [["user_id", 4], ["status", 9], ["project_id", 1], ["LIMIT", 1]]
    Role Load (0.0ms)  SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ?  [["member_id", 38]]
    Member Load (0.0ms)  SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ?  [["user_id", 7], ["status", 9], ["project_id", 1], ["LIMIT", 1]]
    Role Load (0.0ms)  SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ?  [["member_id", 39]]
    Member Load (0.0ms)  SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ?  [["user_id", 8], ["status", 9], ["project_id", 1], ["LIMIT", 1]]
    Role Load (0.0ms)  SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ?  [["member_id", 40]]
    Member Load (0.0ms)  SELECT "members".* FROM "members" INNER JOIN "projects" ON "projects"."id" = "members"."project_id" WHERE "members"."user_id" = ? AND "projects"."status" != ? AND "members"."project_id" = ? ORDER BY "members"."id" ASC LIMIT ?  [["user_id", 9], ["status", 9], ["project_id", 1], ["LIMIT", 1]]
    Role Load (0.0ms)  SELECT DISTINCT "roles".* FROM "roles" INNER JOIN "member_roles" ON "roles"."id" = "member_roles"."role_id" WHERE "member_roles"."member_id" = ?  [["member_id", 41]]
    AnonymousUser Load (0.1ms)  SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."lastname" = ? LIMIT ?  [["type", "AnonymousUser"], ["lastname", "Anonymous"], ["LIMIT", 1]]
```

With the patch applied:

```
redmine-app(dev)> t = TimeEntry.first
  TimeEntry Load (0.4ms)  SELECT "time_entries".* FROM "time_entries" ORDER BY "time_entries"."id" ASC LIMIT ?  [["LIMIT", 1]]
=>
#<TimeEntry:0x000000030b457f00
...
redmine-app(dev)> t.assignable_users
  Project Load (0.4ms)  SELECT "projects".* FROM "projects" WHERE "projects"."id" = ? LIMIT ?  [["id", 1], ["LIMIT", 1]]
    Member Load (0.3ms)  SELECT "members".* FROM "members" INNER JOIN "users" ON "users"."id" = "members"."user_id" WHERE "members"."project_id" = ? AND "users"."type" = ? AND "users"."status" = ? AND "users"."status" = ?
      [["project_id", 1], ["type", "User"], ["status", 1], ["status", 1]]
    MemberRole Load (0.1ms)  SELECT "member_roles".* FROM "member_roles" WHERE "member_roles"."member_id" IN (?, ?, ?, ?, ?, ?)  [["member_id", 1], ["member_id", 2], ["member_id", 37], ["member_id", 38], ["member_id", 39], ["member_id", 40], ["member_id", 41]]
    Role Load (0.1ms)  SELECT DISTINCT "roles".* FROM "roles" WHERE "roles"."id" IN (?, ?)  [["id", 1], ["id", 2]]
    User Load (0.1ms)  SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."id" IN (?, ?, ?, ?, ?, ?, ?)  [["type", "User"], ["id", 2], ["id", 3], ["id", 1], ["id", 4], ["id", 7], ["id", 8], ["id", 9]]
    AnonymousUser Load (0.1ms)  SELECT "users".* FROM "users" WHERE "users"."type" = ? AND "users"."lastname" = ? LIMIT ?  [["type", "AnonymousUser"], ["lastname", "Anonymous"], ["LIMIT", 1]]
```

### #3 - 2025-02-05 08:35 - Go MAEDA

- Target version changed from Candidate for next minor release to 5.1.7

Setting the target version to 5.1.7.

#4 - 2025-02-09 08:24 - Go MAEDA

- File 35927-v2.patch added

I have updated the patch to properly sort users.

#5 - 2025-03-02 08:28 - Go MAEDA

- Target version changed from 5.1.7 to 5.1.8

#6 - 2025-03-29 14:45 - Marius BĂLTEANU

- Assignee changed from Marius BĂLTEANU to Go MAEDA

#7 - 2025-04-02 11:23 - Go MAEDA

- Status changed from Confirmed to Closed
- Target version changed from 5.1.8 to 6.1.0
- Resolution set to Fixed

Committed the patch in [r23595](#).

#8 - 2025-04-15 08:13 - Go MAEDA

- Category changed from Time tracking to Performance

Files			
ConEmu64_UubTYutl5G.png	579 KB	2021-09-28	Mark J
Code_jzSYRAKaoR.png	77.2 KB	2021-09-28	Mark J
35927.patch	739 Bytes	2025-02-02	Go MAEDA
35927-v2.patch	746 Bytes	2025-02-09	Go MAEDA