Wrong issue counts and spent time on project overview

### Status: Closed
### Start date:
### Priority: Normal
### Assignee: Jean-Philippe Lang
### Category: Projects
### Target version: 3.4.1
### Resolution: Fixed
### Affected version: 3.4.0

### Description
After switching to 3.4.0 from 3.3.3 got the problem on project overview page. With non-admin user issue table is empty and total spent time is 0.0, even though "all issues" page and time report show correct data.

I saw related issues posted here but open new one because another version is affected and also because it seems to me that I found the reason.

I was able to trace the bug to the method `User#project_ids_by_role`, which returned wrong data. The actual reason lives in `.visible` scope of Project:

```ruby
scope :visible, lambda {[*args] where(Project.visible_condition(args.shift || User.current, *args)) }
```

Because of this method chain, any query to Project from `User#project_ids_by_role` adds condition for parent id. So even if you place break point inside that method and call `Project.first`, you will get something like

```sql
SELECT * FROM Project WHERE project.id = ? LIMIT 1
```

Looks like it's a bug affecting ActiveRecord 4.2.8, discussed here:

- [https://github.com/rails/rails/issues/29445](https://github.com/rails/rails/issues/29445)
- [https://github.com/rails/rails/issues/29338](https://github.com/rails/rails/issues/29338)

The actual problem with missing issues and time can be solved commenting first line in `User#project_ids_by_role` (result caching) but it's not a valid solution. Also 3.3.3 and 3.3.4 seem to do same things but the bug is not reproduced on our data so we stick with 3.3.4 for now.

### Related issues:
- Related to Redmine - Defect # 25828: Issue visibility problems on 3.3.1
- Duplicated by Redmine - Defect # 26084: In my Overview column didn't show bug...
- Duplicated by Redmine - Defect # 26389: summary issue list disappeared from p...

### Associated revisions
**Revision 16766 - 2017-07-08 09:20 - Jean-Philippe Lang**

Fixed that issue counts are 0 on project overview (#26376).

**Revision 16767 - 2017-07-08 14:15 - Jean-Philippe Lang**

Fixed `User#project_ids_by_role` when first called within chained scopes (#26376).
Revision 16768 - 2017-07-08 14:16 - Jean-Philippe Lang

Reverts change made to ProjectController in r16766 (#26376).

Revision 16771 - 2017-07-08 14:56 - Jean-Philippe Lang

Merged r16766 to r16768 (#26376).

History

#1 - 2017-07-07 12:12 - Serhiy Yefremenko

UPD: 3.3.4 is probably fine as it uses rails 4.2.7.1

#2 - 2017-07-08 03:48 - Go MAEDA

- Duplicated by Defect #26084: In my Overview column didn't show bugs count added

#3 - 2017-07-08 04:03 - Go MAEDA

Screenshots from #26084:

/attachments/download/18436/Selection_017.png
/attachments/download/18437/Selection_018.png

#4 - 2017-07-08 04:16 - Go MAEDA

- Target version set to 3.4.1

#5 - 2017-07-08 09:25 - Jean-Philippe Lang

- Subject changed from Project/Tracker visibility control fails, presumably because of ActiveRecord bug to Wrong issue counts and spent time on project overview
- Status changed from New to Resolved
- Assignee set to Jean-Philippe Lang
- Resolution set to Fixed

I was able to fix the problem on the project overview by loading visible subprojects (which poisons project_ids cache) at the end. I'll see if we can workaround this Rails bug with a more general solution.

#6 - 2017-07-08 11:02 - Serhiy Yefremenko

Isn't disabling cache safer? Or rolling back to rails 4.2.7, didn't have time to check if that version works but one of that github issues says it does.

#7 - 2017-07-08 14:18 - Jean-Philippe Lang

Serhiy Yefremenko wrote:

Isn't disabling cache safer? Or rolling back to rails 4.2.7
We can't stick to 4.2.7 for ever and the issue does not seem to be addressed in Rails 5.

I've committed a better fix in r16767 that ensures that User#project_ids_by_role always returns correct results.

#8 - 2017-07-08 14:57 - Jean-Philippe Lang
- Status changed from Resolved to Closed

I think we have to release a 3.4.1 ASAP.

#9 - 2017-07-10 07:56 - Go MAEDA
- Duplicated by Defect #26389: summary issue list disappeared from project overview page added

#10 - 2017-07-24 19:42 - Udo Hain

I just want to mention that I have the same problem with the following environment (on Ubuntu 16.04.2 LTS):

Environment:
- Redmine version: 3.2.1.stable
- Ruby version: 2.3.1-p112 [2016-04-26] [x86_64-linux-gnu]
- Rails version: 4.2.9
- Environment: production
- Database adapter: Mysql2

I have solved the problem with the empty list in the issue tracking table by a patch described in #25828, but the problem with the "Spent time" of 0.0 hours remains. Admin accounts see the correct time, the other users do not. It would be nice if there was a patch for 3.2.1 too!

#11 - 2017-08-05 05:33 - Toshi MARUYAMA
- Related to Defect #25828: Issue visibility problems on 3.3.1 added