Redmine - Defect #33290

Unnecessary database access when IssueQuery class is defined

2020-04-15 10:49 - Kevin Fischer

Status:	Closed	**Start date:**	
Priority:	Normal	**Due date:**	
Assignee:	Go MAEDA	**% Done:**	0%
Category:	Plugin API	**Estimated time:**	0.00 hour
Target version:	4.2.0		
Resolution:	Fixed	**Affected version:**	

Description

During plugin development I found out that the definition of the Query class accesses the database just by being defined.

The reason for this is the `groupable` method in the `TimestampQueryColumn` class which tries to access the current user.

https://github.com/redmine/redmine/blob/4.1.1/app/models/query.rb#L89-L93

This method is called during the constructor (which is called in the query column definitions in the class body of IssueQuery)

https://github.com/redmine/redmine/blob/4.1.1/app/models/issue_query.rb#L36-L51

Why is this a problem?

In case your database is not yet created and/or migrated, any source code which just references the IssueQuery class will raise an exception since it cannot find the database/table.

And in general I think it's not good to access the database just by defining a class.

Patch

I attached a patch which also acts as a code cleanup/refactoring. It moves the group by statement into its own method. Before the boolean property `groupable` was just redefined to contain the group by statement as well, which was confusing in the first place in my opinion.

I ran all tests locally and they passed.

Related issues:

Related to Redmine - Feature #2679: Ticket grouping	**Closed**	**2009-02-05**
Related to Redmine - Feature #13803: Implement grouping issues by date (start...	**Closed**	
Related to Redmine - Defect #35115: Time entries are broken if grouped by pro...	**Closed**	
Has duplicate Redmine - Defect #33121: IssueQuery not usable from plugins	**Closed**	

Associated revisions

Revision 20830 - 2021-03-19 06:20 - Go MAEDA

Unnecessary database access when IssueQuery class is defined (#33290).

Patch by Kevin Fischer.

History

#1 - 2020-04-15 10:59 - Go MAEDA

- Related to Feature #2679: Ticket grouping added

#2 - 2020-04-15 11:40 - Kevin Fischer

This only happens from Redmine 4.1 by the way.

The commit bringing the change was r17724

#3 - 2020-04-15 14:19 - Alexander Meindl

I can confirm this problem with Redmine 4.1. It is very difficult to test plugins with the bug.

#4 - 2020-04-15 16:03 - Go MAEDA

- Related to Feature #13803: Implement grouping issues by date (start, due, creation, update, closing dates) added

#5 - 2020-07-07 04:36 - Kevin Fischer

Is there any chance this change will be considered for the next version?

If you reference the IssueQuery class in a plugin's init.rb file (to include a module with new functionality) it becomes impossible to create a new database (which is very inconvenient when running for example tests on a CI system) since the system complains about the User table not yet existing.

A class definition should not need to access the database.

#6 - 2021-01-16 05:55 - Kevin Fischer

Trying the patch out with the most recent master, the tests don't seem to pass for SQLite.
I will fix the patch and post an updated version soon.

#7 - 2021-01-24 22:59 - Marius BĂLTEANU

- Related to Defect #33121: IssueQuery not usable from plugins added

#8 - 2021-01-24 22:59 - Marius BĂLTEANU

- Category set to Plugin API

- Assignee set to Jean-Philippe Lang

- Target version set to 4.1.2

Jean-Philippe, can you take a look on this and the related issue (#33121)?

#9 - 2021-02-05 11:55 - Kevin Fischer

- File 0001-stop-db-access-on-class-definition-v2.patch added

I fixed the patch so it works for SQLite, too. Also, I refactored the code around `groupable` a little bit more to make it more obvious that it is a boolean property.

#10 - 2021-03-15 22:23 - Marius BĂLTEANU

- Target version changed from 4.1.2 to 4.2.0

I'm assigning this to 4.2.0 because the changes are too big for a minor version.

#11 - 2021-03-18 19:21 - Marius BĂLTEANU

- Related to deleted (Defect #33121: IssueQuery not usable from plugins)

#12 - 2021-03-18 19:21 - Marius BĂLTEANU

- Has duplicate Defect #33121: IssueQuery not usable from plugins added

#13 - 2021-03-18 20:08 - Marius BĂLTEANU

- Tracker changed from Patch to Defect

- Status changed from New to Confirmed

- Assignee changed from Jean-Philippe Lang to Go MAEDA

I've confirmed the issue and the second patch posted by Kevin looks good to me. All tests pass:
https://gitlab.com/redmine-org/redmine/-/pipelines/272847174

#14 - 2021-03-19 06:21 - Go MAEDA

- Status changed from Confirmed to Closed

- Resolution set to Fixed

Committed the fix. Thank you for your contribution.

#15 - 2021-03-19 06:22 - Go MAEDA

- Subject changed from Stop DB access when IssueQuery class is defined to Unnecessary database access when IssueQuery class is defined

#16 - 2021-04-21 09:23 - Go MAEDA

- Related to Defect #35115: Time entries are broken if grouped by project and issue custom fields added

Files

0001-stop-db-access-on-class-definition.patch	1.65 KB	2020-04-15	Kevin Fischer
0001-stop-db-access-on-class-definition-v2.patch	3.08 KB	2021-02-05	Kevin Fischer