

## Redmine - Defect #24433

### The changeset display is slow when changeset\_issues has very many records

2016-11-22 14:27 - Hirokazu Onozato

<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	<b>Affected version:</b>	3.3.0
<b>Resolution:</b>	Fixed		

#### Description

In issue page, the changeset display is slow when changeset\_issues has very many records.

The following query is executed.

```
SELECT
  `changesets`.*
FROM
  `changesets`
  INNER JOIN `repositories`
    ON `repositories`.`id` = `changesets`.`repository_id`
  INNER JOIN `projects`
    ON `projects`.`id` = `repositories`.`project_id`
  INNER JOIN `changesets_issues`
    ON `changesets`.`id` = `changesets_issues`.`changeset_id`
WHERE
  `changesets_issues`.`issue_id` = 1
  ...
```

There is no INDEX in issue\_id of changesets\_issues table.

- db/schema.rb

```
create_table "changesets_issues", id: false, force: :cascade do |t|
  t.integer "changeset_id", null: false
  t.integer "issue_id", null: false
end
```

```
add_index "changesets_issues", ["changeset_id", "issue_id"], name: "changesets_issues_ids",
unique: true, using: :btree
```

As a result, this query may be slow if there are a very many records in the changesets\_issues table.

When the number of records in the changesets\_issues table was about 1 million, it took 2 or 3 seconds to execute this query. Adding INDEX to issue\_id improved the performance of this query to a few milliseconds.

#### Associated revisions

##### Revision 16007 - 2016-11-26 10:51 - Jean-Philippe Lang

Adds an index on issue\_id to changesets\_issues (#24433).

#### History

##### #1 - 2016-11-22 15:38 - Toshi MARUYAMA

- Target version set to 3.4.0

##### #2 - 2016-11-26 10:54 - Jean-Philippe Lang

- Status changed from New to Resolved

- Assignee set to *Jean-Philippe Lang*

Index added in [r16007](#).

Maybe we should also add an index on `changeset_id` to speed up the display of related issues on the changeset view. Do you have performance issues on the changeset view too?

**#3 - 2016-11-26 16:09 - Hirokazu Onozato**

Thank you for fixing.

Maybe we should also add an index on `changeset_id` to speed up the display of related issues on the changeset view. Do you have performance issues on the changeset view too?

There is no performance problem in changeset view.  
Multiple column INDEX of `changesets_id` and `issue_id` seems to be used.

**#4 - 2016-12-03 09:43 - Jean-Philippe Lang**

- *Status changed from Resolved to Closed*

- *Resolution set to Fixed*

OK, thanks for your feedback.