

Redmine - Patch #6159

Subversion: latest changesets performance improvement.

2010-08-17 16:28 - Go MAEDA

Status: New	Start date: 2010-08-17
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category: SCM	Estimated time: 0.00 hour
Target version:	
Description Redmine executes "svn log" command 2 times (Repository::Subversion#fetch_changesets and Repository::Subversion#latest_changesets) when performing repository/show action. As a result, it takes very long time to complete when the repository is on remote server. This patch improves performance of the Subversion#latest_changesets method by querying changesets table on the database instead of executing "svn log" command.	
Related issues:	
Related to Redmine - Defect #7984: Confusing revisions links on repository root	New 2011-03-24
Related to Redmine - Feature #7246: Handle "named branch" for mercurial	Closed 2011-01-07
Related to Redmine - Feature #1311: Subversion: Show revision histories for b...	New 2008-05-27
Related to Redmine - Defect #3943: Subversion: Directory revision list contain...	New 2009-09-29
Related to Redmine - Patch #7528: Fetch small initial set of repository chang...	New 2011-02-03
Related to Redmine - Feature #7719: SVN Start Revision	New 2011-02-25

Associated revisions

Revision 4797 - 2011-02-04 11:24 - Toshi MARUYAMA

scm: change key name of configurable command name (#7517, #6159, #7047).

Revision 4868 - 2011-02-18 06:55 - Toshi MARUYAMA

scm: mercurial: improvement latest_changesets without supporting tags and named branches (#4455).

Based on latest-changesets-improvements-2.diff of #6159.

<http://www.redmine.org/attachments/4332/latest-changesets-improvements-2.diff>

Contributed by Yuya Nishihara.

History

#1 - 2010-08-19 16:21 - Yuya Nishihara

- File latest-changesets-improvements.diff added

How about fixing Repository.latest_changesets, then makes use of it?

See [latest-changesets-improvements.diff](#)

app/models/repository.rb:

- filter by changes.path = "..." OR changes.path LIKE ".../%".
- JOIN changes for path condition; then SELECT DISTINCT changesets.* to strip duplicated records.
- ORDER BY statement are declared by has_many :changesets, :order => ..., so no need to specify explicitly.

app/models/repository/subversion.rb:

- use Repository.latest_changesets

#2 - 2010-08-19 17:10 - Yuya Nishihara

- File latest-changesets-improvements-2.diff added

Yuya Nishihara wrote:

See [latest-changesets-improvements.diff](#)

Oops, it has a bug on escaping LIKE pattern. Fixed as [latest-changesets-improvements-2.diff](#)

#3 - 2010-11-16 16:33 - Enrique Garcia

- File *latest-changesets-improvements-3.diff* added

Updated Yuya's patch so it uses relative paths for easy patching

(see [latest-changesets-improvements-3.diff](#))

Usage:

```
cd path/to/your/redmine
patch -p0 < latest-changesets-improvements-3.diff
```

#4 - 2010-11-30 07:18 - Toshi MARUYAMA

- File *latest-changesets-improvements-4.diff* added

- File *svn-before-patch.png* added

- File *svn-after-patch.png* added

- File *bazaar-before-patch.png* added

- File *bazaar-after-patch.png* added

I have updated Yuya's patch as [latest-changesets-improvements-4.diff](#).

Usage:

```
cd path/to/your/redmine
patch -p1 < latest-changesets-improvements-4.diff
```

The reasons of updating are following.

- Subversion latest_changesets switches "file://" or not.
- Add Mercurial ordering to resolve [#3449](#) and [#3567](#)

Subversion latest_changesets switches "file://" or not

Redmine 1.0.4 shows all revisions of **branch** and **tag**.

For example, <http://www.redmine.org/projects/redmine/repository/show/tags/1.0.4> shows [r4448](#) (tagged version 1.0.4), [r4447](#), [r4445](#)...

But Yuya's patch shows only [r4448](#).

- [svn-before-patch.png](#)
- [svn-after-patch.png](#)

I have updated as following.

- "file://": use "svn log"
- The others: use only database

It may be better to be configurable whether using "svn log" or "only database" such as [note-5](#) of [#6092](#).

Improvement of browsing sub directory for other SCMs

This patch improves other SCMs which does not override latest_changesets.

Other SCMs are CVS, Bazaar, Darcs and Mercurial.

Subversion and Git overrides latest_changesets.

Redmine 1.0.4 does not show "latest revisions" of sub directory.

This patch shows it.

Following images are Bazaar images of test repository ([source:tags/1.0.4/test/fixtures/repositories/bazaar_repository.tar.gz](#)).

- [bazaar-before-patch.png](#)
- [bazaar-after-patch.png](#)

Mercurial ordering

Yuya's [hg-changeset-order.patch](#) of [#4455](#) overrides Mercurial latest_changesets and add "order by id DESC" to resolve [#3449](#) and [#3567](#).

But, if we apply this patch, we do not need to override it.

#5 - 2010-11-30 09:26 - 00 0

000 00000.

#6 - 2010-11-30 09:27 - 00 0

00000 00000.

#7 - 2011-01-06 05:06 - Toshi MARUYAMA

- Subject changed from *Repository::Subversion#latest_changesets performance improvement.* to *Repository::Subversion#latest_changesets performance improvement.*

Fix subject typo.

#8 - 2011-03-29 06:25 - Toshi MARUYAMA

- Subject changed from *Repository::Subversion#latest_changesets performance improvement.* to *Subversion: latest changesets performance improvement.*

Files

svn_latest_changesets_improvement.diff	1.13 KB	2010-08-17	Go MAEDA
latest-changesets-improvements.diff	2.79 KB	2010-08-19	Yuya Nishihara
latest-changesets-improvements-2.diff	2.82 KB	2010-08-19	Yuya Nishihara
latest-changesets-improvements-3.diff	2.12 KB	2010-11-16	Enrique Garcia
latest-changesets-improvements-4.diff	2.94 KB	2010-11-30	Toshi MARUYAMA
svn-before-patch.png	124 KB	2010-11-30	Toshi MARUYAMA
svn-after-patch.png	105 KB	2010-11-30	Toshi MARUYAMA
bazaar-before-patch.png	51.3 KB	2010-11-30	Toshi MARUYAMA
bazaar-after-patch.png	61.1 KB	2010-11-30	Toshi MARUYAMA