The change from #21608 should be reverted because it's a speed regression:

1/ current version
   EXISTS (SELECT 1 AS one FROM enabled_modules em WHERE em.project_id = projects.id AND em.\name = 'issue_tracking')

2/ previous version (actually faster even without an index on enabled modules)
   projects.id IN (SELECT project_id FROM enabled_modules em WHERE em.project_id = projects.id AND em.\name = 'issue_tracking')

3/ fastest version (in some cases better indexes were used)
   INNER JOIN `enabled_modules` ON `enabled_modules`.`project_id` = `projects`.`id` WHERE `enabled_modules`.`name` = 'issue_tracking'
   or
   INNER JOIN `enabled_modules` ON `enabled_modules`.`project_id` = `projects`.`id` AND `enabled_modules`.`name` = 'issue_tracking'

Patches:
- revert of #21608, because the previous version was faster (about 30%)
- new index "enabled_modules_name", but it's not very helpful unless you have many projects (3000+)
- implementation of visible conditions with inner join instead of subselect, it passes all tests, but it should be refactored. I want to know what do you think about it first

Rails version             4.2.8
Ruby version              2.1.9-p490 (x64-mingw32)
RubyGems version          2.6.12
Rack version              1.6.8
Middleware                Rack::Sendfile, Rack::ContentLength, ActionDispatch::Static, Rack::Lock,
#<ActiveSupport::Cache::Strategy::LocalCache::Middleware::0x00000007745610>, Rack::Runtime, Rack::MethodOverride,
ActionDispatch::RequestId, Rails::Rack::Logger, ActionDispatch::ShowExceptions, ActionDispatch::DebugExceptions,
ActionDispatch::RemoteIp, ActionDispatch::Reload, ActionDispatch::Callbacks,
ActiveRecord::ConnectionAdapters::ConnectionManagement, ActiveRecord::QueryCache, ActionDispatch::Cookies,
ActionDispatch::Session::CookieStore, ActionDispatch::Flash, ActionDispatch::ParamsParser,
ActionDispatch::XmlParamsParser, Rack::Head, Rack::ConditionalGet, Rack::ETag, RequestStore::Middleware,
OpenIdAuthentication
Environment               development
Database adapter          mysql2
Database schema version   20170607051650

2020-10-21
History

#1 - 2017-06-08 13:29 - Pavel Rosický
- Status changed from New to Resolved

#2 - 2017-06-08 13:39 - Pavel Rosický
I did some additional benchmarking and I was wrong. Exists really performs better.

so the only relevant patch is joins_enabled_modules.patch

Issue.visible is faster on my environment with this patch about 10% compared to exists with all caching disabled. I don't think it's worth to use it on other places.

#3 - 2017-06-09 08:57 - Mischa The Evil
- Subject changed from revert #21608 to Implementation of visible conditions with inner join instead of subselect
- Description updated
- Status changed from Resolved to New

Edited issue properties based on the feedback and slightly improved the markup of the description.

#4 - 2017-06-29 15:51 - Toshi MARUYAMA
- Target version set to 3.4.0

#5 - 2017-06-29 16:02 - Toshi MARUYAMA
- Target version changed from 3.4.0 to 4.1.0

#6 - 2017-06-30 13:44 - Fernando Hartmann
As a speed regression, I suggest to put this on version#130

#7 - 2017-06-30 14:10 - Pavel Rosický
Well, it heavily depends on what filters and other conditions are used, it isn't easy to measure. For my long time observations using INNER JOINS is slightly faster (especially on big tables like issues) and mysql has better working plans with it.

On the other side, joins can't be passed directly into WHERE statement which is what allowed_to_condition should do - it increases code complexity. I want some opinions if you think it's worth to use it or not.

@Fernando - as discused before, it's not a speed regression just an improvement, so 3.5.0 is fine.

#8 - 2019-09-27 17:34 - Marius BALTEANU
- Target version changed from 4.1.0 to Candidate for next major release

Pavel Rosický wrote:

Well, it heavily depends on what filters and other conditions are used, it isn't easy to measure. For my long time observations using INNER JOINS is slightly faster (especially on big tables like issues) and mysql has better working plans with it.

On the other side, joins can't be passed directly into WHERE statement which is what allowed_to_condition should do - it increases code complexity.
complexity. I want some opinions if you think it's worth to use it or not.
@Fernando - as discussed before, it's not a speed regression just an improvement, so 3.5.0 is fine.

I'm removing this from version:"4.1.0" because it is not a simple change and without performance tests that can be run before and after on both mysql and postgres, it is hard to say if the code complexity added by the patch it's worth it or not. Please correct me if I am wrong.

#9 - 2019-09-27 18:22 - Pavel Rosicky
- Status changed from New to Resolved

No, I agree. Thanks for the feedback, this can be closed.

Files
20170607051650_add_index_on_enabled_modules_name.rb.patch 416 Bytes 2017-06-07 Pavel Rosicky
revert_exists.patch 959 Bytes 2017-06-07 Pavel Rosicky
joins_enabled_modules.patch 11 KB 2017-06-07 Pavel Rosicky