

## Redmine - Patch #37057

### Query optimization for attachments activity

2022-04-28 13:42 - Jens Krämer

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Go MAEDA	<b>% Done:</b>	0%
<b>Category:</b>	Performance	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	5.1.0		
<b>Description</b>			
<p>The LEFT JOIN with an OR in its clause in the first acts_as_activity_provider call in attachment.rb can cause very long query times for large numbers of attachments (on MySQL, at least).</p> <p>One example we observed was on Users#show, where the query for activity on version / project attachments took 30 seconds (and yielded zero results) for a user that authored over 100k attachments (but none of them were attached to versions or projects).</p> <p>This patch that was extracted from <a href="#">Planio</a> adds a `where` clause that limits the number of attachments that are at all considered for the joins to those that are actually attached to a version or project.</p>			

#### Associated revisions

##### Revision 21573 - 2022-05-14 09:38 - Go MAEDA

Attachment activity provider SQL optimization (#37057).

Patch by Jens Krämer.

#### History

##### #1 - 2022-04-28 18:23 - Pavel Rosický

- File attachment2.patch added

nice optimization, I think we could use the same trick on Documents

##### #2 - 2022-04-30 09:48 - Go MAEDA

- File 37057.patch added

- Target version set to 5.1.0

Setting the target version to 5.1.0.

##### #3 - 2022-05-02 17:14 - Holger Just

Pavel Rosický wrote:

nice optimization, I think we could use the same trick on Documents

Technically yes. However, as the joins used there are a straight line there (attachments -> documents -> projects), MySQL's query optimizer already chooses a fast query plan in this case. As such, we have not observed any significant speedup there when using the additional restriction.

With that being said, it likely won't hurt either :)

##### #4 - 2022-05-14 09:38 - Go MAEDA

- Subject changed from query optimization for attachments activity to Query optimization for attachments activity

- Status changed from New to Closed

- Assignee set to Go MAEDA

Committed the patch. Thank you.

#### Files

0001-Attachment-activity-provider-sql-optimization.patch	1.06 KB	2022-04-28	Jens Krämer
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attachment2.patch  
37057.patch

493 Bytes  
813 Bytes

2022-04-28  
2022-04-30

Pavel Rosický  
Go MAEDA