

## A inner join can be removed

2022/05/09 18:58 - Admin Redmine

<b>ステータス:</b>	New	<b>開始日:</b>	2022/05/09
<b>優先度:</b>	通常	<b>期日:</b>	
<b>担当者:</b>		<b>進捗率:</b>	0%
<b>カテゴリ:</b>		<b>予定工数:</b>	0.00時間
<b>対象バージョン:</b>		<b>作業時間:</b>	0.00時間
Redmineorg_URL:	https://www.redmine.org/issues/32610	status_id:	1
category_id:	0	tracker_id:	1
version_id:	0	plus1:	0
issue_org_id:	32610	affected_version:	
author_id:	306584	closed_on:	
assigned_to_id:	0	affected_version_id:	
comments:	0		
<b>説明</b>			
There is a query			
<pre>SELECT DISTINCT(issues.id) FROM issues INNER JOIN projects ON projects.id = issues.project_id INNER JOIN issue_statuses ON issue_statuses.id = issues.status_id LEFT OUTER JOIN users ON users.id = issues.assigned_to_id LEFT OUTER JOIN trackers ON trackers.id = issues.tracker_id LEFT OUTER JOIN enumerations ON enumerations.id = issues.priority_id AND enumerations.type IN ('IssuePriority') LEFT OUTER JOIN versions ON versions.id = issues.priority_id WHERE (projects.status &lt;&gt; 9 AND projects.id IN (SELECT em.project_id FROM enabled_modules em WHERE em.name='issue_tracking')) AND ((issues.status_id IN (SELECT id FROM issue_statuses WHERE is_closed=0)) AND projects.id = 3821) ORDER BY issues.id DESC LIMIT 501;</pre>			
<p>which actually can be simplified due to the foreign key and presence constraint</p> <ul style="list-style-type: none"> <li>-- remove LEFT OUTER JOIN (because of id being PK, already done by postgres)</li> <li>-- remove INNER JOIN (because of FK; no need to add issues.project_id IS NOT NULL / issues.status_id IS NOT NULL because of constraint)</li> <li>-- remove DISTINCT (FK)</li> </ul>			
After removing, the query becomes:			
<pre>SELECT issues.id FROM issues INNER JOIN projects ON projects.id = issues.project_id LEFT OUTER JOIN enumerations ON enumerations.id = issues.priority_id AND enumerations.type IN ('IssuePriority') WHERE (projects.status &lt;&gt; 9 AND projects.id IN (SELECT em.project_id FROM enabled_modules em WHERE em.name='issue_tracking')) AND ((issues.status_id IN (SELECT id FROM issue_statuses WHERE is_closed=0)) AND projects.id = 3821) ORDER BY issues.id DESC LIMIT 501;</pre>			
It can make the code easier to read and faster			