# Redmine - Defect #32610

## A inner join can be removed

2019-12-11 18:24 - jwjw yy

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|---|---|---|---|
| **Status:** | New | **Start date:** | |
| **Priority:** | Normal | **Due date:** | |
| **Assignee:** | | **% Done:** | 0% |
| **Category:** | | **Estimated time:** | 0.00 hour |
| **Target version:** | | | |
| **Resolution:** | | **Affected version:** | |

**Description**

There is a query

```
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 <> 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;
```

which actually can be simplied due to the foreign key and presence constraint
-- remove LEFT OUTER JOIN (because of id being PK, already done by postgres)
-- 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)
-- remove DISTINCT (FK)

After removing, the query becomes:

```
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 <> 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;
```

It can make the code easier to read and faster