

# Problem 3057: Employees Project Allocation

## Problem Information

Difficulty: **Hard**

Acceptance Rate: 67.02%

Paid Only: Yes

Tags: Database

## Problem Description

Table: `Project`

+-----+-----+ | Column Name | Type | +-----+-----+ | project\_id | int | | employee\_id | int | | workload | int | +-----+-----+ employee\_id is the primary key (column with unique values) of this table. employee\_id is a foreign key (reference column) to Employee table. Each row of this table indicates that the employee with employee\_id is working on the project with project\_id and the workload of the project.

Table: `Employees`

+-----+-----+ | Column Name | Type | +-----+-----+ | employee\_id | int | | name | varchar | | team | varchar | +-----+-----+ employee\_id is the primary key (column with unique values) of this table. Each row of this table contains information about one employee.

Write a solution to find the **employees** who are allocated to projects with a **workload** that exceeds the **average** workload of all employees for **their respective teams**

Return the result table ordered by `employee_id`, `project_id` in **ascending** order.

The result format is in the following example.

**Example 1:**

**Input:** Project table: +-----+-----+ | project\_id | employee\_id | workload | +-----+-----+ | 1 | 1 | 45 | | 1 | 2 | 90 | | 2 | 3 | 12 | | 2 | 4 | 68 |

```

+-----+-----+-----+ Employees table: +-----+-----+-----+ | employee_id |
name | team | +-----+-----+-----+ | 1 | Khaled | A | | 2 | Ali | B | | 3 | John | B | | 4 | Doe |
A | +-----+-----+-----+ **Output:** +-----+-----+-----+ |
employee_id | project_id | employee_name | project_workload |
+-----+-----+-----+-----+ | 2 | 1 | Ali | 90 | | 4 | 2 | Doe | 68 |
+-----+-----+-----+-----+ **Explanation:** - Employee with ID 1 has
a project workload of 45 and belongs to Team A, where the average workload is 56.50. Since
his project workload does not exceed the team's average workload, he will be excluded. -
Employee with ID 2 has a project workload of 90 and belongs to Team B, where the average
workload is 51.00. Since his project workload does exceed the team's average workload, he
will be included. - Employee with ID 3 has a project workload of 12 and belongs to Team B,
where the average workload is 51.00. Since his project workload does not exceed the team's
average workload, he will be excluded. - Employee with ID 4 has a project workload of 68 and
belongs to Team A, where the average workload is 56.50. Since his project workload does
exceed the team's average workload, he will be included. Result table orderd by employee_id,
project_id in ascending order.

```

## Code Snippets

### MySQL:

```
# Write your MySQL query statement below
```

### MS SQL Server:

```
/* Write your T-SQL query statement below */
```

### PostgreSQL:

```
-- Write your PostgreSQL query statement below
```