## 615. Average Salary Departments VS Company

## Description

Table: Salary

++	
Column Name   Type	
++	
id	
employee_id   int	
amount   int	
pay_date   date	
++	
In SQL, id is the primary key column for this table.	
Each row of this table indicates the salary of an employee in one month.	
employee_id is a foreign key (reference column) from the Employee table.	

Table: Employee

++	
Column Name   Type	
++	
employee_id	
department_id   int	
++	
In SQL, employee_id is the primary key column for this table.	
Each row of this table indicates the department of an employee.	

Find the comparison result (higher/lower/same) of the average salary of employees in a department to the company's average salary.

Return the result table in any order.

The result format is in the following example.

## **Example 1:**

	table			
id	employ	yee_id	amount	
1	1		   9000	2017/03/31
2 j	2		6000	2017/03/31
3	3		10000	2017/03/31
4	1		7000	2017/02/28
5	2		6000	2017/02/28
6	3		8000	2017/02/28
1 2 3		<del> </del>   1   2   2		<del>+</del>
pay_	_month	depart	tment_id	
 2017		+   1		   same
	L7-03   1			higher
2017	<b>/</b> –02	•		same
2017	7–03   2			lower

The average salary for department '1' is 9000, which is the salary of employee\_id '1' since there is only one employee in this department. So the comparison result is 'higher' since 9000 > 8333.33 obviously.

The average salary of department '2' is (6000 + 10000)/2 = 8000, which is the average of employee\_id '2' and '3'. So the comparison result is 'lower' since 8000 < 8333.33.

With he same formula for the average salary comparison in February, the result is 'same' since both the department '1' and '2' have the same average salary with the company, which is 7000.