

Problem 3338: Second Highest Salary II

Problem Information

Difficulty: **Medium**

Acceptance Rate: 86.32%

Paid Only: Yes

Tags: Database

Problem Description

Table: `employees`

+-----+-----+ | Column Name | Type | +-----+-----+ | emp_id | int | | salary | int | | dept | varchar | +-----+-----+ emp_id is the unique key for this table. Each row of this table contains information about an employee including their ID, salary, and department.

Write a solution to find the employees who earn the **second-highest salary** in each department. If **multiple employees have the second-highest salary**, **include** **all employees** with **that salary**.

Return **the result table** **ordered by** **`emp_id`** **in** **ascending** **order**.

The result format is in the following example.

Example:

Input:

employees table:

+-----+-----+-----+ | emp_id | salary | dept | +-----+-----+ | 1 | 70000 | Sales | | 2 | 80000 | Sales | | 3 | 80000 | Sales | | 4 | 90000 | Sales | | 5 | 55000 | IT | | 6 | 65000 | IT | | 7 | 65000 | IT | | 8 | 50000 | Marketing | | 9 | 55000 | Marketing | | 10 | 55000 | HR | +-----+-----+-----+

****Output:****

```
+-----+-----+ | emp_id | dept | +-----+-----+ | 2 | Sales | | 3 | Sales | | 5 | IT | | 8 |  
Marketing | +-----+-----+
```

****Explanation:****

* **Sales Department** : * Highest salary is 90000 (emp_id: 4) * Second-highest salary is 80000 (emp_id: 2, 3) * Both employees with salary 80000 are included * **IT Department** : * Highest salary is 65000 (emp_id: 6, 7) * Second-highest salary is 55000 (emp_id: 5) * Only emp_id 5 is included as they have the second-highest salary * **Marketing Department** : * Highest salary is 55000 (emp_id: 9) * Second-highest salary is 50000 (emp_id: 8) * Employee 8 is included * **HR Department** : * Only has one employee * Not included in the result as it has fewer than 2 employees

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
```