

Problem 3338: Second Highest Salary II

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

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
Sales	1	70000	
Sales	2	80000	Sales
Sales	3	80000	Sales
Sales	4	90000	Sales
Sales	5	55000	IT
IT	6	65000	
IT	7	65000	IT
IT	8	50000	Marketing
Marketing	9	55000	Marketing
Marketing	10	55000	HR

Output:

	emp_id	dept
Sales	2	Sales
Sales	3	Sales
IT	5	IT
Marketing	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
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def find_second_highest_salary(employees: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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