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**569. Median Employee Salary** Premium

Solved Hard Topics Companies Hint

SQL Schema > Pandas Schema >

Table: Employee

Column Name	Type
id	int
company	varchar
salary	int

id is the primary key (column with unique values) for this table.  
Each row of this table indicates the company and the salary of one employee.

Write a solution to find the rows that contain the median salary of each company. While calculating the median, when you sort the salaries of the company, break the ties by `id`.

Return the result table in **any order**.

The result format is in the following example.

**Example 1:**

**Input:**

id	company	salary
1	A	2341
2	A	341
3	A	15
4	A	15314
5	A	451
6	A	513
7	B	15
8	B	13
9	B	1154
10	B	1345
11	B	1221
12	B	234
13	C	2345
14	C	2645
15	C	2645
16	C	2652
17	C	65

**Output:**

id	company	salary
5	A	451
6	A	513
12	B	234
9	B	1154
14	C	2645

**Explanation:**

For company A, the rows sorted are as follows:

id	company	salary
3	A	15
2	A	341
5	A	451
6	A	513
1	A	2341
4	A	15314

For company B, the rows sorted are as follows:

id	company	salary
8	B	13
7	B	15
12	B	234
11	B	1221
9	B	1154
10	B	1345

For company C, the rows sorted are as follows:

id	company	salary
17	C	65
13	C	2345
14	C	2645
15	C	2645
16	C	2652

**Follow up:** Could you solve it without using any built-in or window functions?

Seen this question in a real interview before? 1/5

Yes No

Accepted 49,367 / 74.8K | Acceptance Rate 66.0%

Topics Companies Hint 1 Hint 2 Hint 3

Code

Pandas Auto

```

1 import pandas as pd
2
3 def median_employee_salary(employee: pd.DataFrame) -> pd.DataFrame:
4
5     employee['rank_asc'] = employee.sort_values(['salary','id'], ascending = [True,True]).groupby('company')['salary'].rank(method='first',ascending=True)
6     employee['rank_des'] = employee.sort_values(['salary','id'], ascending = [False,False]).groupby('company')['salary'].rank(method='first',ascending=False)
7
8     df = employee[abs(employee.rank_asc - employee.rank_des) <=1]
9
10    return df[['id','company','salary']]

```

Saved

Ln 10, Col 41

Testcase Test Result

Accepted Runtime: 268 ms

Case 1

Input

id	company	salary
1	A	2341
2	A	341
3	A	15
4	A	15314
5	A	451
6	A	513
7	B	15
8	B	13
9	B	1154
10	B	1345
11	B	1221
12	B	234
13	C	2345
14	C	2645
15	C	2645
16	C	2652
17	C	65

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5 A 451  
6 A 513