59_Department Highest Salary Medium - Solution

Source - https://leetcode.com/problems/department-highest-salary/description/

Running Notes:

- Write a solution to find employees who have the highest salary in each of the departments.

```
-- Write your PostgreSQL query statement below
WITH main_CTE AS (SELECT d.name AS Department,
e.name AS Employee,
e.salary,
MAX(salary) OVER(
    PARTITION BY d.name
)
FROM Employee e
INNER JOIN Department d
ON e.departmentId = d.id)

SELECT department,employee,salary
FROM main_CTE
WHERE salary=max
```

the above is the final code and in this my chain of thought is as follows:

So first I have partitioned by each Department name and I'm using a window function.

To find the maximum salary for each department. And since this is a window function.

So we are going to get the output for every row. In the table. Are joined a table. So basically the output is going to be like the name of the department. The name of

the employee and the salary and the maximum salary for employees in that department.

Now, to get the department name, I have used the join.

The only thing that is remaining is to get those rows where my salary is. The max salary. So as for the question, I need to get. I need to write a solution to find those employees who have the highest salary. In each department. So, to do that, I have to basically just find those rows where the maximum salary matches my salary.

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