LeetCode

50 Days 50 SQL Questions
Work In Progress

Day 46/50

46. Second Highest Salary

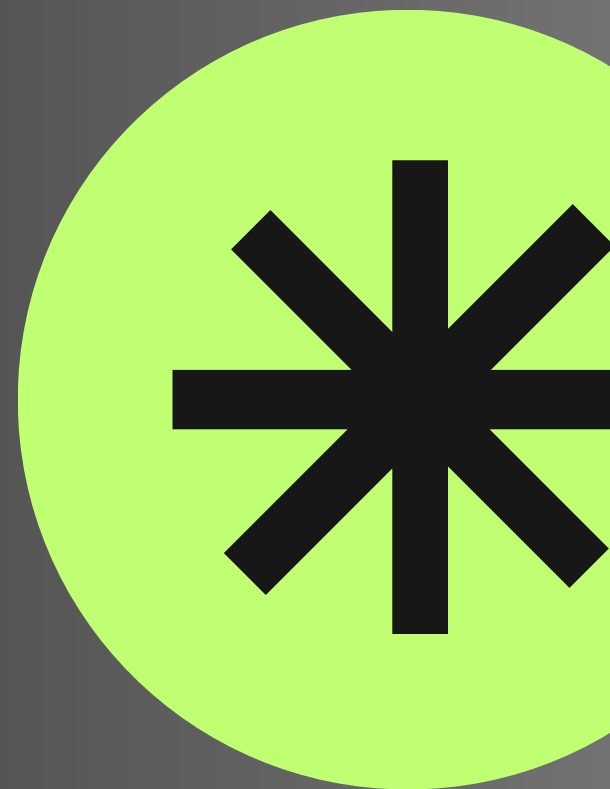# Question

Write a solution to find the second highest **distinct** salary from the `Employee` table. If there is no second highest salary, return `null (return None in Pandas)`.
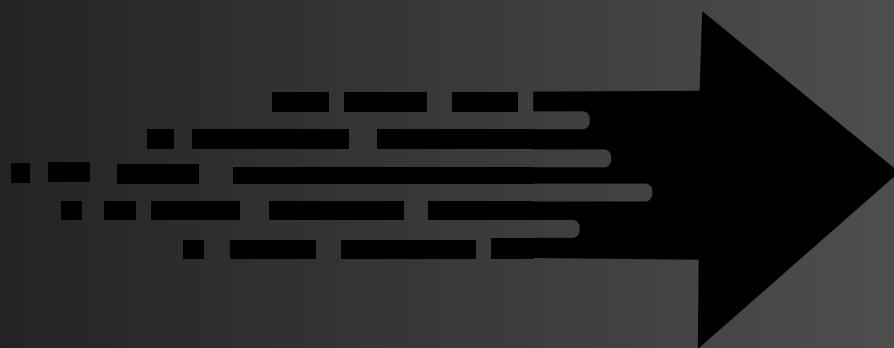
Table

```
Input:
Employee table:

+----+--------+
| id | salary |
+----+--------+
| 1  | 100    |
| 2  | 200    |
| 3  | 300    |
+----+--------+
```
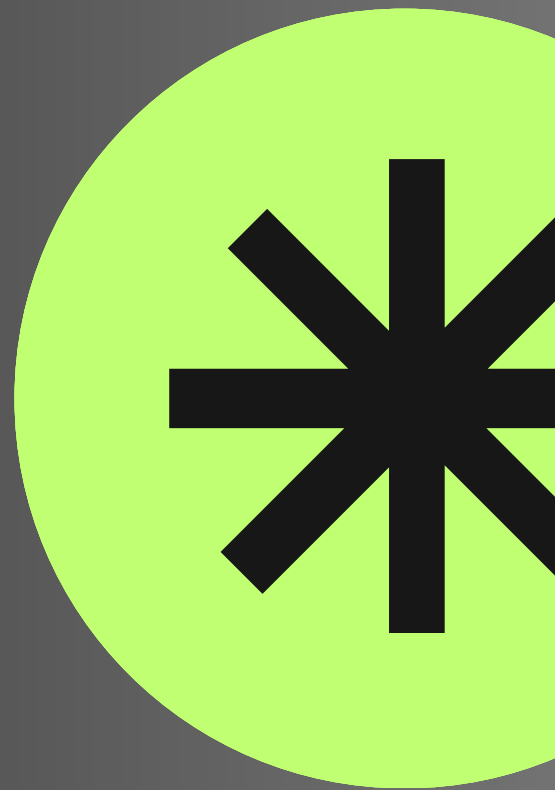
Approach

Used a subquery in coalesce func to get the distinct second highest salary with the help of ORDER BY DESC and the using LIMIT 1 OFFSET 1 to skip the first record as it will be the highest salary.

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Query

```sql
MySQL ∨    🔒 Auto

1    SELECT COALESCE(
2            (
3                SELECT DISTINCT salary
4                FROM Employee
5                ORDER BY salary DESC
6                LIMIT 1 OFFSET 1
7            ),
8            NULL
9        ) AS SecondHighestSalary;
```

Output

```
Output:

+---------------------------+
|                           |
| SecondHighestSalary       |
|                           |
+---------------------------+
|                           |
| 200                       |
|                           |
+---------------------------+
```

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Thank You :)