176. Second Highest Salary 🗗

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Write a SQL query to get the second highest salary from the Employee table.

```
+----+
Id | Salary
1 | 100
2 200
3 300
+----+
```

there is no second highest salary, then the query should return null.

For example, given the above Employee table, the query should return 200 as the second highest salary. If

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

Solution

Approach: Using sub-query and LIMIT clause [Accepted]

Algorithm Sort the distinct salary in descend order and then utilize the LIMIT clause to get the second highest salary.

```
SELECT DISTINCT
      Salary AS SecondHighestSalary
  FROM
      Employee
  ORDER BY Salary DESC
  LIMIT 1 OFFSET 1
However, this solution will be judged as 'Wrong Answer' if there is no such second highest salary since there
```

might be only one record in this table. To overcome this issue, we can take this as a temp table. MySQL

```
SELECT
    (SELECT DISTINCT
            Salary
        FROM
            Employee
        ORDER BY Salary DESC
        LIMIT 1 OFFSET 1) AS SecondHighestSalary
```

Another way to solve the 'NULL' problem is to use IFNULL funtion as below.

Approach: Using IFNULL and LIMIT clause [Accepted]

MySQL

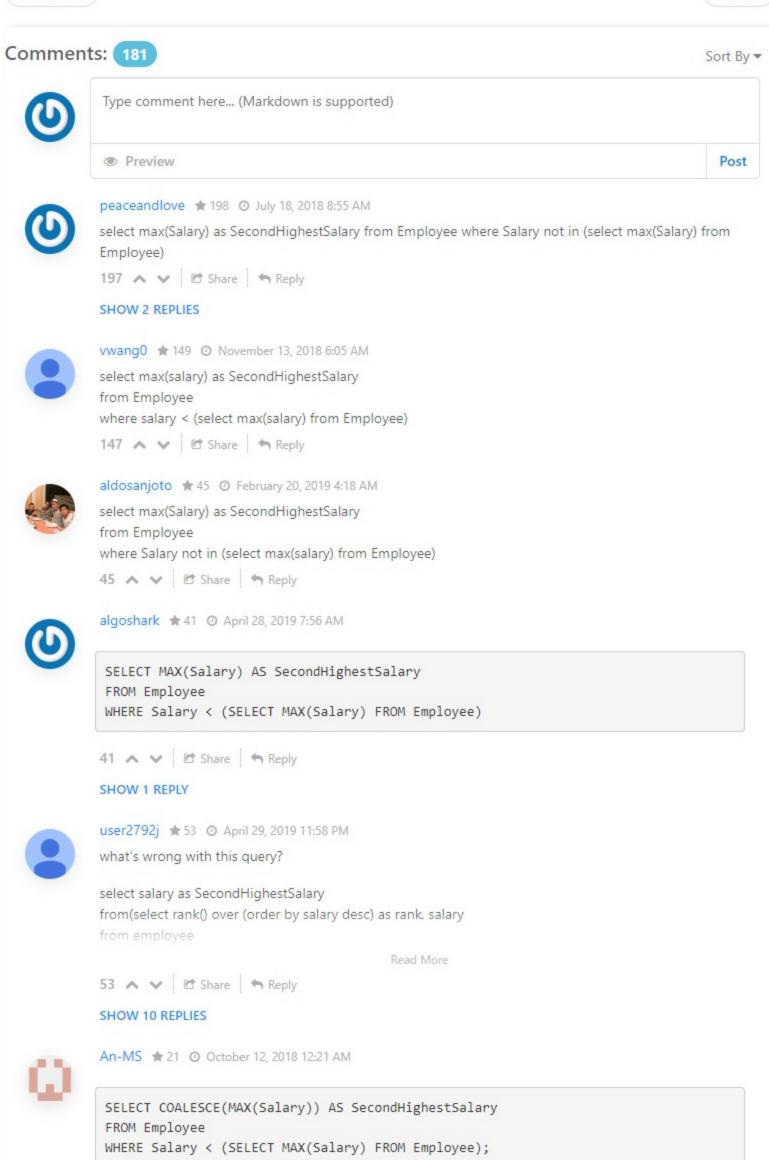
SELECT

IFNULL(

```
(SELECT DISTINCT Salary
         FROM Employee
         ORDER BY Salary DESC
         LIMIT 1 OFFSET 1),
     NULL) AS SecondHighestSalary
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```

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FROM Employee WHERE Salary NOT IN (SELECT MAX(Salary) FROM Employee) 18 A V 🗗 Share 🦘 Reply

SELECT MAX(SALARY) as SecondHighestSalary

silviachen 🖈 16 🗿 September 26, 2018 5:10 PM SELECT MAX(Salary) as SecondHighestSalary

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FROM Employee

WHERE Salary <









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