## **6 9 6**

176. Second Highest Salary 💆

July 11, 2017 | 178.6K views

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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
```

For example, given the above Employee table, the query should return 200 as the second highest salary. If there is no second highest salary, then the query should return **null**.

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

# 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
```

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

However, this solution will be judged as 'Wrong Answer' if there is no such second highest salary since there

```
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]

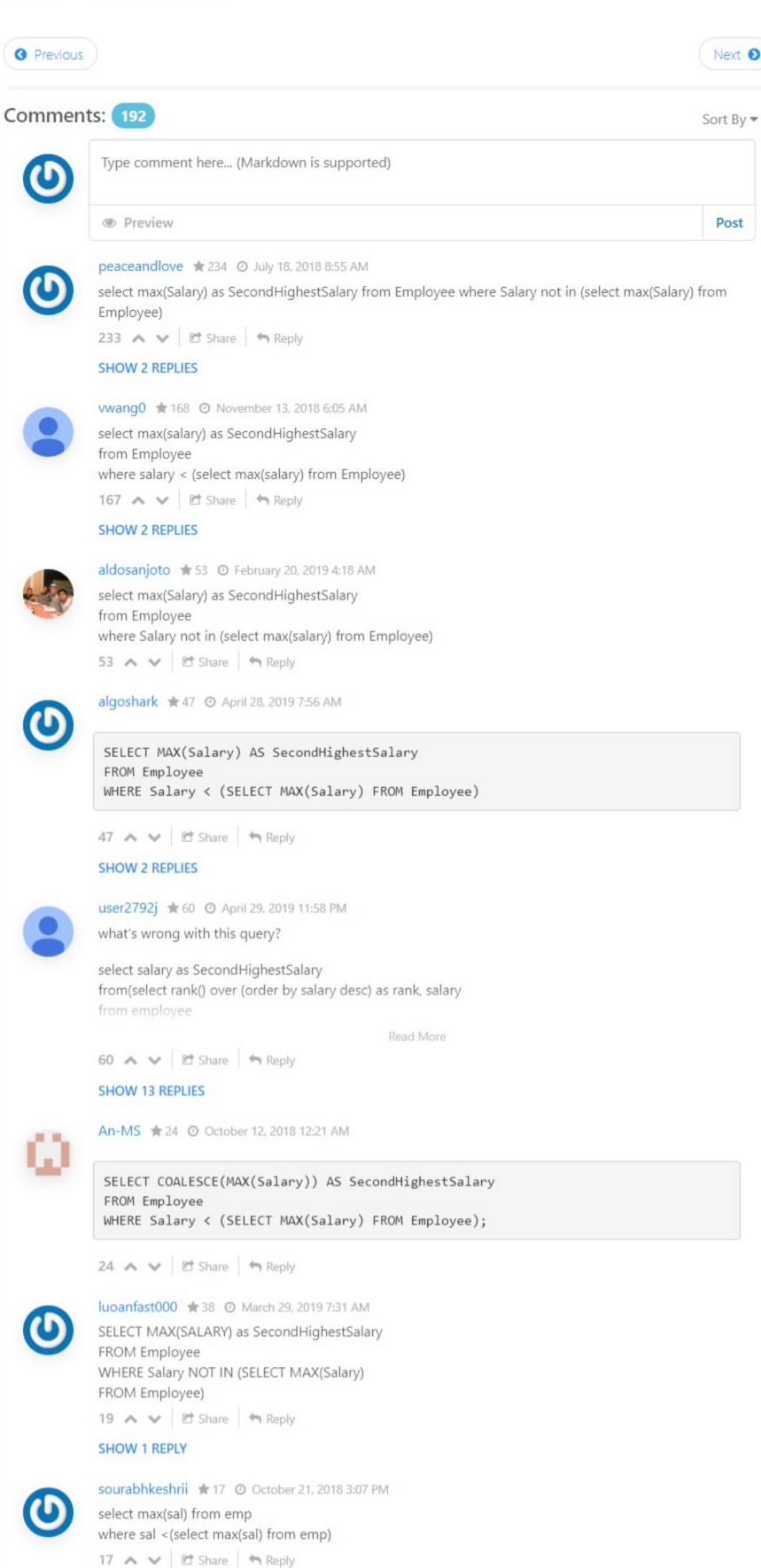
MySQL

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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silviachen 🛊 17 🗿 September 26, 2018 5:10 PM

SELECT MAX(Salary) as SecondHighestSalary

tehseen ★ 14 ② February 17, 2019 4:43 PM

SELECT MAX(Salary) as SecondHighestSalary

( 1 2 3 4 5 6 ... 19 20 >

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WHERE Salary < (SELECT MAX(Salary) FROM Employee)

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FROM Employee WHERE Salary <

(SELECT MAX(Salary) FROM Employee);