

Second Highest Salary

Question:

<https://leetcode.com/problems/second-highest-salary/>

EMPLOYEE	
Column	Type
id	int
salary	int

id is the primary key column for this table.

Each row of this table contains information about the salary of an employee.

Write an SQL query to report the second highest salary from the Employee table. If there is no second highest salary, the query should report null.

Query 1(Accepted)

Using a **Subquery** to find the **max** and then just selecting the maximum salary less than the global **max** we found through the **Subquery**.

```
SELECT  
  
    MAX(Salary) AS SecondHighestSalary  
  
FROM Employee  
  
WHERE Salary < (SELECT  
  
                MAX(Salary)  
  
                FROM Employee)
```

Query 2(Accepted)

Using an **OFFSET** to remove the maximum salary from the sorted table.

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

NOTE: The reason for using 2 **SELECT** is to avoid the issue of **NULL** if there is no Second Maximum Salary.

Using the filter as a **Subquery**, we return **NULL** if no Second Highest Salary is present in the table.