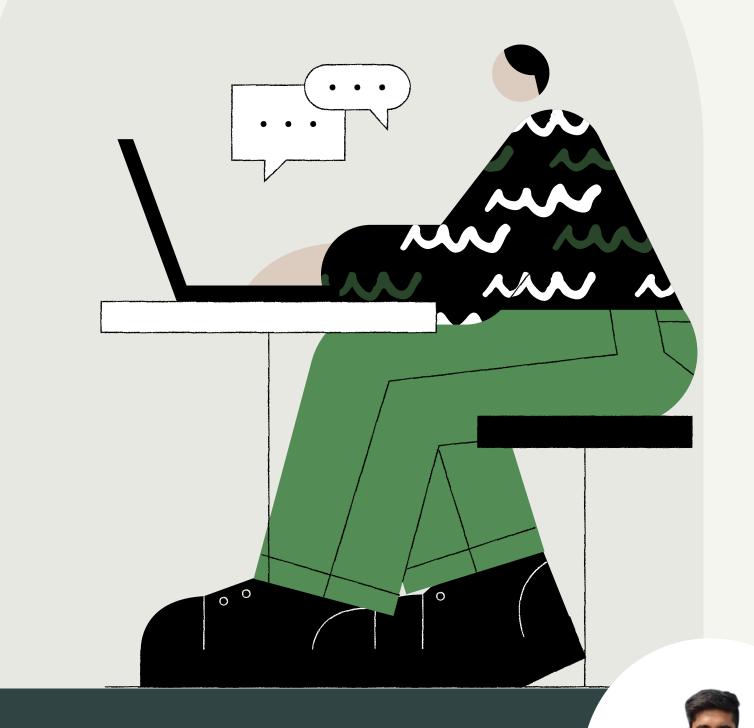


Interesting SQL Interview Question



Recently asked interview questions at one of the startups.

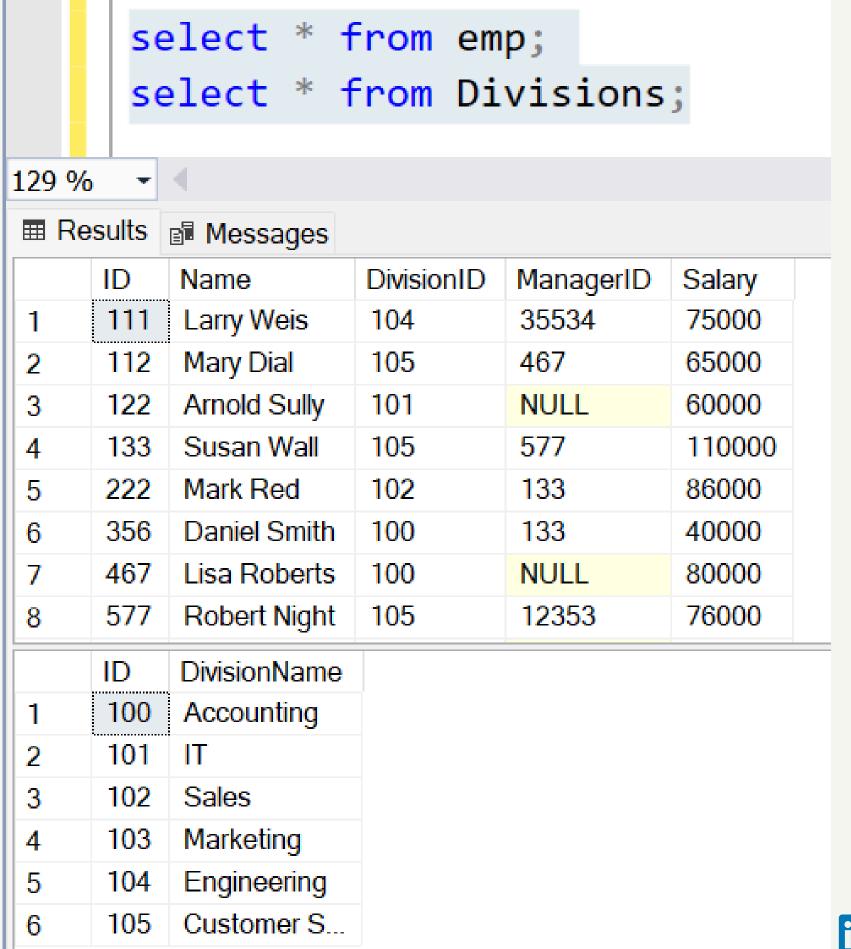


Questions

Q1. Your query should return the information for the employee with the third highest salary. Write a query that will find this employee and return that row, but then replace the DivisionID column with the corresponding DivisionName from the table cb_companydivisions. You should also replace the ManagerID column with the ManagerName if the ID exists in the table and is not NULL.

Q2. Your query should identify employees who have a higher salary than their manager. Display each employee's Name, Salary, and ManagerName. If the employee does not have a manager, the ManagerName should be displayed as "No Manager". The result should be ordered by the difference between the employee's and manager's salaries in descending order. Additionally, include a column titled PromotionOpportunity that indicates "Yes" if the employee's salary is higher than their manager's and "No" otherwise.

Input Dataset





Solution: Q1

```
with cte as (
SELECT m1.id as ID ,m1.name as Name,
 c.DivisionName as DivisionName,
 m2.name as ManagerName,m1.Salary as Salary,
  row_number() over (order by m1.Salary) as rnk
FROM emp m1
inner join emp m2 on m1.ManagerID = m2.id
inner join divisions c on m1.DivisionID = C.ID
select ID, Name, DivisionName, ManagerName, Salary
from cte
where rnk= 3;
```

Solution: Q2

```
SELECT m1.Name as Name, m1.Salary as Salarys,
  coalesce(m2.Name, 'No Manager') as ManagerName,
  case when m1.salary > m2.salary then
    'Yes' else 'No' end
  as Promotionopportunity
FROM emp m1
left join emp m2
on m1.ManagerID = m2.ID
order by (m1.salary - m2.salary) desc;
```

Output

Output: Q1

```
⊟with cte as (
  SELECT m1.id as ID ,m1.name as Name,
  c.DivisionName as DivisionName,
  m2.name as ManagerName, m1.Salary as Salary,
  row number() over (order by m1.Salary) as rnk
  FROM emp m1
  inner join emp m2 on m1.ManagerID = m2.id
  inner join divisions c
  on m1.DivisionID = C.ID)
  select ID, Name, DivisionName, ManagerName, Salary
  from cte
  where rnk= 3;
sults Messages
           DivisionName
                    ManagerName
                              Salary
    Name
    Mark Red Sales
                    Susan Wall
                              86000
```

Output: Q2

```
SELECT m1.Name as Name, m1.Salary as Salarys,
           coalesce(m2.Name, 'No Manager') as ManagerName,
           case when m1.salary > m2.salary then
                'Yes' else 'No' end
           as Promotionopportunity
      FROM emp m1
      left join emp m2
      on m1.ManagerID = m2.ID
      order by (m1.salary - m2.salary) desc;
129 % -
ManagerName
                                Promotionopportunity
    Name
              Salarys
    Susan Wall
              110000 Robert Night
                                Yes
    Mary Dial
              65000
                     Lisa Roberts
                                No
    Mark Red
              86000
                     Susan Wall
                                No
     Daniel Smith
              40000
                     Susan Wall
                                No
    Lisa Roberts
                     No Manager
              80000
                                No
    Robert Night
                     No Manager
              76000
                                No
    Dennis Front
              90000
                     No Manager
                                No
    Arnold Sully
              60000
                     No Manager
                                No
    Larry Weis
              75000
                     No Manager
                                No
```



Thanks for Watching Follow for More

Comment down your solutions

