181. Employees Earning More Than Their Managers 4 July 11, 2017 | 73.2K views

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also a column for the manager Id.

The Employee table holds all employees including their managers. Every employee has an Id, and there is

```
| Id | Name | Salary | ManagerId |
 +----+
  | 1 | Joe | 70000 | 3
     | Henry | 80000 | 4
     | Sam | 60000 | NULL
 4 | Max | 90000 | NULL
Given the Employee table, write a SQL query that finds out employees who earn more than their managers.
```

For the above table, Joe is the only employee who earns more than his manager.

```
Employee
Joe
+----+
```

Approach I: Using WHERE clause [Accepted]

Solution

As this table has the employee's manager information, we probably need to select information from it twice.

Note: The keyword 'AS' is optional.

SELECT *

SELECT

MySQL

SELECT

WHERE

Employee AS b

a.ManagerId = b.Id

a.NAME AS Employee

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ON a.ManagerId = b.Id AND a.Salary > b.Salary

FROM Employee AS a JOIN Employee AS b

AND a.Salary > b.Salary

Algorithm

FROM Employee AS a, Employee AS b

```
Managerld
Id
                                  Salary
                                          Managerld
                                                            Name
                                                                     Salary
                         Name
1
                                          3
                                                                             3
                         Joe
                                  70000
                                                       1
                                                            Joe
                                                                     70000
2
                         Henry
                                  80000
                                          4
                                                       1
                                                                     70000
                                                                             3
                                                            Joe
3
                                  60000
                                                       1
                                                                     70000
                                                                             3
                         Sam
                                                            Joe
4
                                  90000
                                                                     70000
                         Max
                                                            Joe
1
                                  70000
                                                       2
                                                                     80000
                         Joe
                                                            Henry
```

	Joe	70000	5	_	пепту	80000	4
2	Henry	80000	4	2	Henry	80000	4
3	Sam	60000		2	Henry	80000	4
4	Max	90000		2	Henry	80000	4
1	Joe	70000	3	3	Sam	60000	
2	Henry	80000	4	3	Sam	60000	
3	Sam	60000		3	Sam	60000	
4	Max	90000		3	Sam	60000	
1	Joe	70000	3	4	Max	90000	
2	Henry	80000	4	4	Max	90000	
3	Sam	60000		4	Max	90000	
4	Max	90000		4	Max	90000	
> The first 3 columns are from a and the last 3 ones are from b.							

FROM Employee AS a, Employee AS b WHERE

```
a.ManagerId = b.Id
           AND a.Salary > b.Salary
 ld
                                Managerld
                                                                                 Managerld
        Name
                    Salary
                                                  Id
                                                         Name
                                                                     Salary
 1
                    70000
                                3
                                                  3
                                                                     60000
        Joe
                                                         Sam
As we only need to output the employee's name, so we modify the above code a little to get a solution.
```

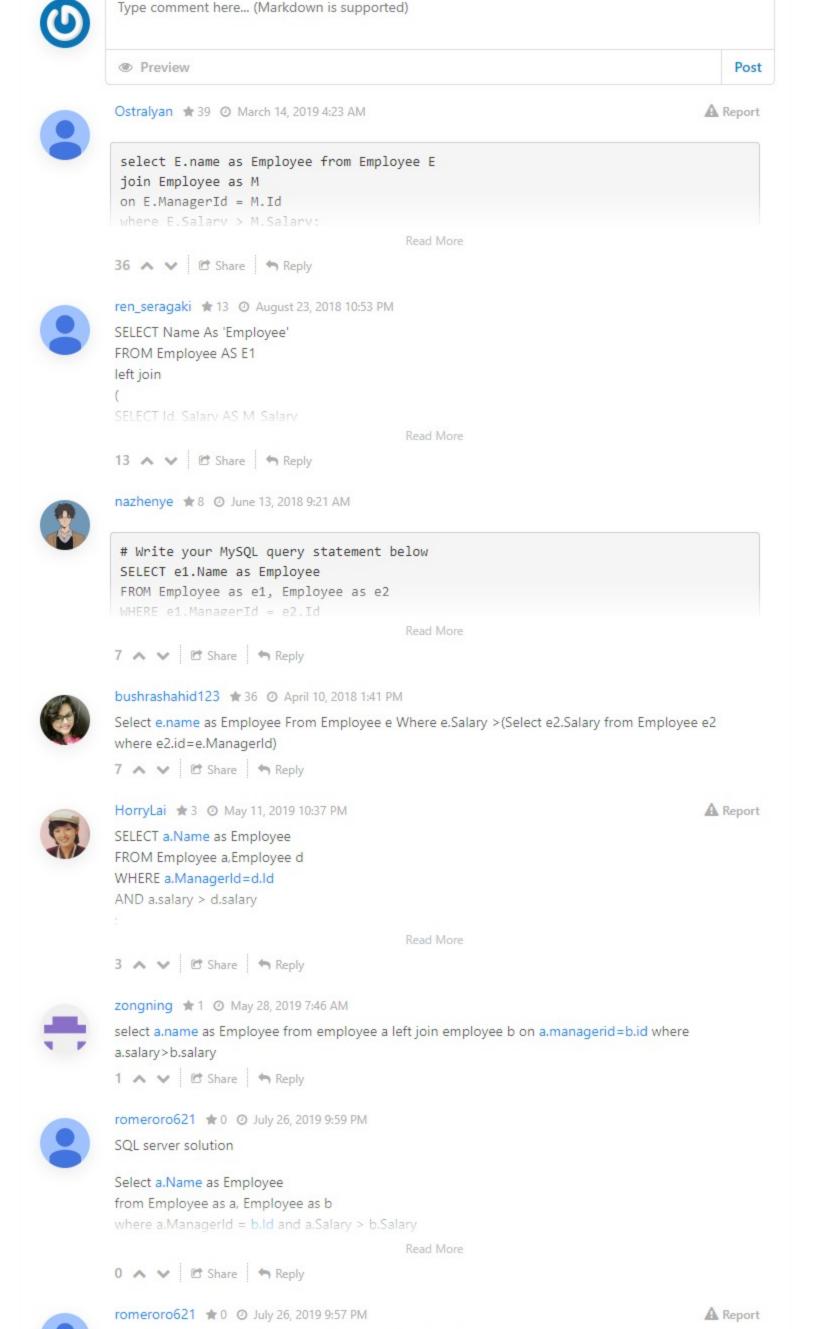
a.Name AS 'Employee' FROM Employee AS a,

```
Approach I: Using JOIN clause [Accepted]
Algorithm
Actually, JOIN is a more common and efficient way to link tables together, and we can use ON to specify
some conditions.
  SELECT
```

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Mysql solution.. without error msg"test.employee doesn't exist"

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select emp1.Name Employee from Employee emp1 where Salary > (select Salary from Employee emp2

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from (select * from Employee) a, (select * from Employee) b

where a.Managerid = b.ld and a.Salary > b.Salary

Select a.Name as Employee

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where emp2.ID=emp1.Managerld)

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Select Tb.Name as employee

(1234567)

from Employee as Ta Join employee as Tb on Ta.id=Tb.ManagerID where Tb.salarv > Ta.salarv

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