Given “**Employee**” table below, please write the following ***SQL statements*** :

**Employee**

|  |  |  |  |
| --- | --- | --- | --- |
| id | name | salary | manager\_id |
| 1 | John | 300 | 3 |
| 2 | Mike | 200 | 3 |
| 3 | Sally | 550 | 4 |
| 4 | Jane | 500 | 7 |
| 5 | Joe | 600 | 7 |
| 6 | Dan | 600 | 3 |
| 7 | Phil | 550 | NULL |
| … | … | … | … |

1. Give the names of employees, whose salaries are greater than their immediate managers’:

SELECT emp.id as EmpId

, emp.Salary as EmpSalary

, emp.Name as EmpName

, mEmp.id AS ManagerEmpID

, mEmp.Salary AS ManagerSalary

, mEmp.Name as ManagerName

FROM tEmp emp

INNER JOIN tEmp mEmp ON emp.managerId = mEmp.id

AND mEmp.Salary < emp.Salary;

1. What is the average salary of employees who do not manage anyone? In the sample above, that would be John, Mike, Joe and Dan, since they do not have anyone reporting to them.

SELECT avg(emp.Salary) as AvgSalary

FROM tEmp emp

LEFT OUTER JOIN tEmp mEmp ON emp.id = mEmp.managerId

WHERE mEmp.managerId IS NULL