LeetCode

50 Days 50 SQL Questions
Work In Progress

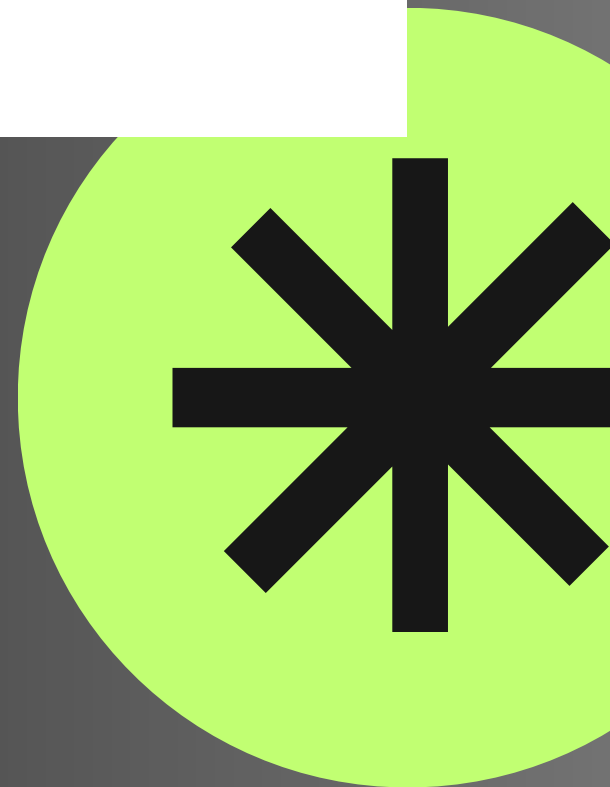**Day 30/50**

30. The Number of Employees which Report to each Employee

Question

For this problem, we will consider a **manager** an employee who has at least 1 other employee reporting to them.

Write a solution to report the ids and the names of all **managers**, the number of employees who report **directly** to them, and the average age of the reports rounded to the nearest integer.

Return the result table ordered by `employee_id`.

Table

```
Input:
Employees table:
+-------------+----------+-------------+------+
| employee_id | name     | reports_to  | age  |
+-------------+----------+-------------+------+
| 9           | Hercy    | null        | 43   |
| 6           | Alice    | 9           | 41   |
| 4           | Bob      | 9           | 36   |
| 2           | Winston  | null        | 37   |
+-------------+----------+-------------+------+
```
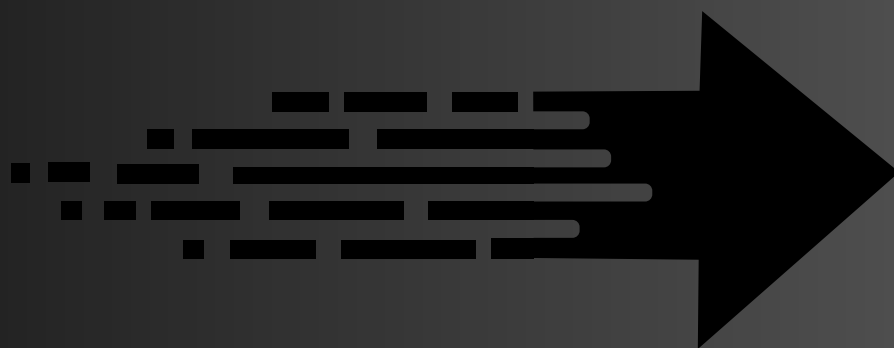
Approach

Used a Self Join where first table is treated as Managers and second as Employees, group the result by reqd. columns and order it by employee_id.

Query

```mysql
# Write your MySQL query statement below
SELECT
    e1.employee_id,
    e1.name,
    COUNT(e2.reports_to) AS reports_count,
    ROUND(AVG(e2.age),0) AS average_age
FROM Employees e1 JOIN Employees e2
    ON e1.employee_id = e2.reports_to
GROUP BY employee_id,name
ORDER BY e1.employee_id;
```

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Output

```
Output:
+-------------+--------+---------------+-------------+
| employee_id | name   | reports_count | average_age |
+-------------+--------+---------------+-------------+
| 9           | Hercy  | 2             | 39          |
+-------------+--------+---------------+-------------+
```

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Thank You :)