# **DESCRIPTION**

Table: Employee
<del>+</del>
Column Name   Type
++
id
name   varchar
department   varchar
managerId   int
++
id is the primary key (column with unique values) for this table.
Each row of this table indicates the name of an employee, their department, and the id of their manager.
If managerId is null, then the employee does not have a manager.
No employee will be the manager of themself.
Write a solution to find managers with at least <b>five direct reports</b> .
Return the result table in <b>any order</b> .
The result format is in the following example.
Example 1:
Input:
Employee table:
++
id   name   department   managerId
++
101   John   A   null
102   Dan   A   101

| 101

| 101 |

| 103 | James | A

| 104 | Amy | A

# **SOLUTION**

# MySQL:

#### Option 1:

- Select managerId and direct report counts (>= 50) using COUNT(), GROUPBY AND HAVING
- Create a subquery table t using WITH
- JOIN Employee and t tables ON e.Id = t.managerId and SELECT name

```
WITH t AS (

SELECT managerId, COUNT(managerId) reports
FROM Employee
GROUP BY managerId
HAVING COUNT(managerId) >= 5)

SELECT e.name
FROM t

JOIN Employee e
ON e.id = t.managerId;
```

## Option 2:

- Select managerId and direct report counts using COUNT() and GROUPBY
- Create a subquery table t using WITH
- JOIN Employee and t tables ON e.Id = t.managerId AND t.reports >= 5 and SELECT name

```
WITH t AS (

SELECT managerId, COUNT(managerId) reports
FROM Employee
GROUP BY managerId)

SELECT e.name
FROM t

JOIN Employee e
ON e.id = t.managerId AND t.reports >= 5;
```

## Option 3:

- Select managerId and direct report counts using COUNT() and GROUPBY
- Create a subquery and SELECT manager Id having direct report counts >= 5 using HAVING and COUNT()
- SELECT name with id from the subquery using WHERE

```
SELECT name

FROM Employee

WHERE id IN

(SELECT managerId

FROM Employee

GROUP BY managerId

HAVING COUNT(managerId) >= 5);
```

#### PostgreSQL:

- Select managerId and direct report counts (>= 5) using COUNT(), GROUPBY and HAVING
- Create a subquery table t using WITH
- JOIN Employee and t tables ON e.Id = t.managerId and SELECT name

```
WITH t AS(

SELECT managerId, COUNT(managerId) reports_count

FROM Employee e

GROUP BY 1

HAVING COUNT(managerId) >= 5)

SELECT e.name

FROM t

JOIN Employee e

ON e.id = t.managerId;
```