

# Problem 1270: All People Report to the Given Manager

## Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

Table:

Employees

+-----+-----+ | Column Name | Type | +-----+-----+ | employee\_id | int || employee\_name | varchar || manager\_id | int | +-----+-----+ employee\_id is the column of unique values for this table. Each row of this table indicates that the employee with ID employee\_id and name employee\_name reports his work to his/her direct manager with manager\_id. The head of the company is the employee with employee\_id = 1.

Write a solution to find

employee\_id

of all employees that directly or indirectly report their work to the head of the company.

The indirect relation between managers

will not exceed three managers

as the company is small.

Return the result table in

any order

The result format is in the following example.

Example 1:

Input:

```
Employees table: +-----+-----+-----+ | employee_id | employee_name |  
manager_id | +-----+-----+-----+ | 1 | Boss | 1 || 3 | Alice | 3 || 2 | Bob | 1 || 4  
| Daniel | 2 || 7 | Luis | 4 || 8 | Jhon | 3 || 9 | Angela | 8 || 77 | Robert | 1 |  
+-----+-----+-----+
```

Output:

```
+-----+ | employee_id | +-----+ | 2 || 77 || 4 || 7 | +-----+
```

Explanation:

The head of the company is the employee with employee\_id 1. The employees with employee\_id 2 and 77 report their work directly to the head of the company. The employee with employee\_id 4 reports their work indirectly to the head of the company 4 --> 2 --> 1. The employee with employee\_id 7 reports their work indirectly to the head of the company 7 --> 4 --> 2 --> 1. The employees with employee\_id 3, 8, and 9 do not report their work to the head of the company directly or indirectly.

## Code Snippets

**MySQL:**

```
# Write your MySQL query statement below
```

**MS SQL Server:**

```
/* Write your T-SQL query statement below */
```

**PostgreSQL:**

```
-- Write your PostgreSQL query statement below
```

**Oracle:**

```
/* Write your PL/SQL query statement below */
```

**Pandas:**

```
import pandas as pd

def find_reporting_people(employees: pd.DataFrame) -> pd.DataFrame:
```

## Solutions

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