Problem 1270: All People Report to the Given Manager

Problem Information

Difficulty: Medium
Acceptance Rate: 84.16%
Paid Only: Yes
Tags: Database

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
```