## **Well Paid Employees**

Companies often perform salary analyses to ensure fair compensation practices. One useful analysis is to check if there are any employees earning more than their direct managers.

As a HR Analyst, you're asked to identify all employees who earn more than their direct managers. The result should include the employee's ID and name.

employee Schema:				
column_name	type	description		
employee_id	integer	The unique ID of the employee.		
name	string	The name of the employee.		
salary	integer	The salary of the employee.		
department_id	integer	The department ID of the employee.		
manager_id	integer	The manager ID of the employee.		

## employee Example Input:

employee_id	name	salary	department_id	manager_id
1	Emma Thompson	3800	1	6
2	Daniel Rodriguez	2230	1	7
3	Olivia Smith	7000	1	8
4	Noah Johnson	6800	2	9
5	Sophia Martinez	1750	1	11
6	Liam Brown	13000	3	NULL
7	Ava Garcia	12500	3	NULL
8	William Davis	6800	2	NULL

SELECT e.employee\_id, e.name as employee\_name FROM employee e inner join employee m on e.manager\_id = m.employee\_id where e.salary>m.salary

## **Average Post Hiatus (Part 1)**

Given a table of Facebook posts, for each user who posted at least twice in 2021, write a query to find the number of days between each user's first post of the year and last post of the year in the year 2021. Output the user and number of the days between each user's first and last post.

## posts Table: Column Name Type user\_id integer post\_id integer post\_content text post\_date timestamp posts Example Input: user\_id post\_id post\_content post\_date 07/10/2021 151652 599415 Need a hug 12:00:00 Bed. Class 8-12. Work 12-3. Gym 3-5 or 6. Then class 07/29/2021 661093 624356 6-10. Another day that's gonna fly by. I miss my 13:00:00 girlfriend 07/04/2021 004239 784254 Happy 4th of July! 11:00:00 Just going to cry myself to sleep after watching 07/08/2021 661093 442560 Marley and Me. 14:00:00 07/12/2021 151652 111766 I'm so done with covid - need travelling ASAP! 19:00:00

```
WITH count_user AS (
    SELECT user_id, COUNT(post_id) AS post_count
    FROM posts
    WHERE post_date < '2022-01-01'
    GROUP BY user_id
    HAVING COUNT(post_id) > 1
)

SELECT p.user_id,
    EXTRACT(DAY FROM (MAX(p.post_date) - MIN(p.post_date))) AS days_between
FROM posts p
INNER JOIN count_user cu ON p.user_id = cu.user_id
GROUP BY p.user_id
ORDER BY p.user_id;
```