NAMASTESQL - DAY 4

100 DAY CODING PROBLEMS

Step - 1 : Problem Statement

🤔 **Problem Statement:**

You are given a table of list of lifts , their maximum capacity and people along with their weight who wants to enter into it. You need to make sure maximum people enter into the lift without lift getting overloaded.

For each lift find the comma separated list of people who can be accommodated. The comma separated list should have people in the order of their weight in increasing order, display the output in increasing order of id.

🚩 **Difficult Level : HARD**

Step - 2 : Identifying The Input Data And Expected

INPUT

lifts	
ID	**CAPACITY_KG**
1	300
2	350

lift_passengers		
PASSENGER_NAME	**WEIGHT_KG**	**LIFT_ID**
Rahul	85	1
Adarsh	73	1
Riti	95	1
Dheeraj	80	1
Vimal	83	2
Neha	77	2
Priti	73	2
Himanshi	85	2

OUTPUT

ID	PASSENGER_LIST
1	Adarsh,Dheeraj,Rahul
2	Himanshi,Neha,Priti,Vimal

Step - 3 : Writing the sql query to solve the

```sql

WITH CTE
AS (
    SELECT l.id
        ,lp.passenger_name
        ,lp.weight_kg
        ,l.capacity_kg
        ,sum(lp.weight_kg) OVER (
            PARTITION BY l.id ORDER BY lp.weight_kg rows BETWEEN unbounded preceding
                    AND CURRENT row
            ) AS running_sum
    FROM lifts l
    INNER JOIN lift_passengers lp ON l.id = lp.lift_id
    )
SELECT id
    ,GROUP_CONCAT(DISTINCT passenger_name ORDER BY weight_kg SEPARATOR ',') AS passenger_list
FROM CTE
WHERE running_sum < capacity_kg
GROUP BY id
ORDER BY id;

```

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