NAMASTESQL - DAY 2

100 DAY CODING PROBLEMS

Step - 1 : Problem Statement

🤔 Problem Statement:

7 - Airbnb Top Hosts

SUPPOSE YOU ARE A DATA ANALYST WORKING FOR A TRAVEL COMPANY THAT OFFERS VACATION RENTALS SIMILAR TO AIRBNB. YOUR COMPANY WANTS TO IDENTIFY THE TOP HOSTS WITH THE HIGHEST AVERAGE RATINGS FOR THEIR LISTINGS. THIS INFORMATION WILL BE USED TO RECOGNIZE EXCEPTIONAL HOSTS AND POTENTIALLY OFFER THEM INCENTIVES TO CONTINUE PROVIDING OUTSTANDING SERVICE.

YOUR TASK IS TO WRITE AN SQL QUERY TO FIND THE TOP 2 HOSTS WITH THE HIGHEST AVERAGE RATINGS FOR THEIR LISTINGS. HOWEVER, YOU SHOULD ONLY CONSIDER HOSTS WHO HAVE AT LEAST 2 LISTINGS, AS HOSTS WITH FEWER LISTINGS MAY NOT BE REPRESENTATIVE.
DISPLAY OUTPUT IN DESCENDING ORDER OF AVERAGE RATINGS AND ROUND THE AVERAGE RATINGS TO 2 DECIMAL PLACES.

🚩 **Difficult Level : MEDIUM**

Step - 2 : Identifying The Input Data And Expected

INPUT

listings					
LISTING_ID	HOST_ID	NEIGHBORHOOD	ROOM_TYPE	PRICE	MINIMUM_NIGHTS
1	101	Downtown	Entire home/apt	150	2
2	101	Downtown	Private room	80	1
3	101	Downtown	Entire home/apt	200	3
4	102	Downtown	Entire home/apt	120	2
5	102	Downtown	Private room	100	1
6	102	Midtown	Entire home/apt	250	2
7	103	Midtown	Private room	70	1
8	103	Queens	Private room	90	1
9	104	Midtown	Private room	170	1

reviews			
REVIEW_ID	LISTING_ID	REVIEW_DATE	RATING
1	1	2023-01-05	4
2	1	2023-01-10	5
3	2	2023-01-15	4
4	3	2023-01-20	5
5	3	2023-01-25	3
6	3	2023-01-30	4
7	4	2023-02-05	5
8	5	2023-02-10	4
9	6	2023-02-15	5
10	6	2023-02-20	4
11	7	2023-02-25	5
12	8	2023-03-05	5
13	9	2023-03-05	5

OUTPUT

HOST_ID	NUMBER_OF_LISTING	AVG_RATING
103	2	5
102	3	4.5

Step - 3 : Writing the sql query to solve the

```sql
WITH CTE
AS (
    SELECT listing_id
        ,host_id
        ,count(*) OVER (PARTITION BY host_id) AS number_of_listing
    FROM listings L QUALIFY number_of_listing > 1
    )
SELECT C.host_id
    ,number_of_listing
    ,avg(RATING) AS avg_rating
FROM CTE C
JOIN reviews R ON C.listing_id = R.listing_id
GROUP BY C.host_id
    ,C.number_of_listing
ORDER BY avg(RATING) DESC limit 2;
```

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Save

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follow for more!

Akash Mahindrakar
Data Engineer
akashsjce8050@gmail.com

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