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100 Coding Problems



Akash Mahindrakar

Data Engineer

akashsjce8050@gmail.com

100 DAY CODING PROBLEMS

Step - 1 : Problem Statement

 **Problem Statement:**

9 - NEW AND REPEAT CUSTOMERS

Flipkart wants to build a very important business metrics where they want to track on daily basis how many new and repeat customers are purchasing products from their website. A new customer is defined when he purchased anything for the first time from the website and repeat customer is someone who has done at least one purchase in the past.

Display order date , new customers , repeat customers in ascending order of repeat customers.

 **Difficult Level : HARD**

NAMASTE SQL - DAY 18

Step - 2 : Identifying The Input Data And Expected

INPUT

ORDER_ID	CUSTOMER_ID	ORDER_DATE	ORDER_AMOUNT
1	100	2022-01-01	2000
2	200	2022-01-01	2500
3	300	2022-01-01	2100
4	100	2022-01-02	2000
5	400	2022-01-02	2200
6	500	2022-01-02	2700
7	100	2022-01-03	3000
8	400	2022-01-03	1000
9	600	2022-01-03	3000

OUTPUT

ORDER_DATE	NEW_CUSTOMERS	REPEAT_CUSTOMERS
2022-01-01	3	0
2022-01-02	2	1
2022-01-03	1	2

Step - 3 : Writing the sql query to solve the

```
WITH CTE
AS (
    SELECT *
        ,min(order_date) OVER (
            PARTITION BY customer_id ORDER BY order_date
        ) AS first_order_date
    FROM customer_orders
)
SELECT order_date
    ,sum(CASE WHEN order_date = FIRST_ORDER_DATE THEN 1 ELSE 0 END) new_customers
    ,sum(CASE WHEN order_date > FIRST_ORDER_DATE THEN 1 ELSE 0 END) repeat_customers
FROM CTE
GROUP BY order_date
```



Save

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