

## Learn with Ankit Bansal



**100 Coding Problems**



**Akash Mahindrakar**

**Data Engineer**

**akashsjce8050@gmail.com**

**100 DAY CODING PROBLEMS**

### Step - 1 : Problem Statement

#### Problem Statement:

### 64 - PENULTIMATE ORDER

You are a data analyst working for an e-commerce company, responsible for analysing customer orders to gain insights into their purchasing behaviour. Your task is to write a SQL query to retrieve the details of the penultimate order for each customer. However, if a customer has placed only one order, you need to retrieve the details of that order instead, display the output in ascending order of customer name.

 **Difficult Level : EASY**

# NAMASTE SQL - DAY 11

## Step - 2 : Identifying The Input Data And Expected

### INPUT

ORDER_ID	ORDER_DATE	CUSTOMER_NAME	PRODUCT_NAME	SALES
1	2023-01-01	Alexa	iphone	100
2	2023-01-02	Alexa	boAt	300
3	2023-01-03	Alexa	Rolex	400
4	2023-01-01	Ramesh	Titan	200
5	2023-01-02	Ramesh	Shirt	300
6	2023-01-03	Neha	Dress	100

### OUTPUT

ORDER_ID	ORDER_DATE	CUSTOMER_NAME	PRODUCT_NAME	SALES
2	2023-01-02	Alexa	boAt	300
6	2023-01-03	Neha	Dress	100
4	2023-01-01	Ramesh	Titan	200

# NAMASTE SQL - DAY 11

## Step - 3 : Writing the sql query to solve the

```
WITH CTE
AS (
    SELECT *
        ,rank() OVER (
            PARTITION BY CUSTOMER_NAME ORDER BY ORDER_DATE DESC
        ) rk
        ,count(CUSTOMER_NAME) OVER (PARTITION BY CUSTOMER_NAME) total_cnt
    FROM orders
)
SELECT ORDER_ID
    ,ORDER_DATE
    ,CUSTOMER_NAME
    ,PRODUCT_NAME
    ,SALES
FROM CTE
WHERE total_cnt = 1
    OR rk = 2
ORDER BY CUSTOMER_NAME
```



Save

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