

Learn with Ankit Bansal



100 Coding Problems



Akash Mahindrakar

Data Engineer

akashsjce8050@gmail.com

100 DAY CODING PROBLEMS

Step - 1 : Problem Statement

 **Problem Statement:**

18 - HERO PRODUCTS

FLIPKART AN ECOMMERCE COMPANY WANTS TO FIND OUT ITS TOP MOST SELLING PRODUCT BY QUANTITY IN EACH CATEGORY. IN CASE OF A TIE WHEN QUANTITIES SOLD ARE SAME FOR MORE THAN 1 PRODUCT, THEN WE NEED TO GIVE PREFERENCE TO THE PRODUCT WITH HIGHER SALES VALUE.

DISPLAY CATEGORY AND PRODUCT IN OUTPUT WITH CATEGORY IN ASCENDING ORDER.

 **Difficult Level : EASY**

Step - 2 : Identifying The Input Data And Expected

INPUT

| ORDER_ID | PRODUCT_ID | CATEGORY | UNIT_PRICE | QUANTITY |
|----------|---------------|-----------|------------|----------|
| 100 | Chair-1221 | Furniture | 1500 | 1 |
| 101 | Table-3421 | Furniture | 2000 | 3 |
| 102 | Chair-1221 | Furniture | 1500 | 2 |
| 103 | Table-9762 | Furniture | 7000 | 2 |
| 104 | Shoes-1221 | Footwear | 1700 | 1 |
| 105 | floaters-3421 | Footwear | 2000 | 1 |
| 106 | floaters-3421 | Footwear | 2000 | 1 |
| 107 | floaters-9875 | Footwear | 1500 | 2 |

OUTPUT

| CATEGORY | PRODUCT_ID |
|-----------|---------------|
| Furniture | Table-3421 |
| Footwear | floaters-3421 |

Step - 3 : Writing the sql query to solve the

```
1
2 WITH CTE
3 AS (
4     SELECT CATEGORY
5           ,PRODUCT_ID
6           ,sum(QUANTITY) AS total_QUANTITY
7           ,sum(UNIT_PRICE * QUANTITY) AS total_sales
8     FROM orders
9     GROUP BY CATEGORY
10           ,PRODUCT_ID
11 )
12 SELECT CATEGORY
13           ,PRODUCT_ID
14 FROM CTE
15 qualify rank() OVER ( PARTITION BY CATEGORY ORDER BY TOTAL_QUANTITY DESC ,TOTAL_SALES DESC) = 1
16
```



Save

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helpful?**
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