

NAMASTESQL - DAY 1

Learn with Ankit Bansal



100 Coding Problems



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100 DAY CODING PROBLEMS

Step - 1 : Problem Statement

Problem Statement:

2 - PRODUCT CATEGORY

You are provided with a table named Products containing information about various products, including their names and prices. Write a SQL query to count number of products in each category based on its price into three categories below. Display the output in descending order of no of products.

- 1- "Low Price" for products with a price less than 100
- 2- "Medium Price" for products with a price between 100 and 500 (inclusive)
- 3- "High Price" for products with a price greater than 500.

Tables: Products

 **Difficult Level : EASY**

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Step - 2 : Identifying The Input Data And Expected

INPUT

PRODUCT_ID	PRODUCT_NAME	PRICE
1	Laptop	800
2	Smartphone	600
3	Headphones	50
4	Tablet	400
5	Keyboard	30
6	Mouse	15
7	Monitor	350
8	Printer	120
9	USB Drive	10
10	External Hard Drive	150
11	Wireless Router	80
12	Bluetooth Speaker	70
13	Webcam	45
14	Microphone	25
15	Gaming Mouse	50

OUTPUT

CATEGORY	NO_OF_PRODUCTS
Low Price	9
Medium Price	4
High Price	2

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Step - 3 : Writing the sql query to solve the

```
with cte as (  
  SELECT  
    product_id, product_name, price,  
    CASE  
      WHEN price < 100 THEN 'Low Price'  
      WHEN price between 100 and 500 THEN 'Medium Price'  
      ELSE 'High Price'  
    END AS category  
  FROM Products  
)  
select  
  category , count(*) as no_of_products  
from cte  
group by category  
ORDER BY no_of_products DESC;
```



Save

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