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100 Coding Problems



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100 DAY CODING PROBLEMS

Step - 1 : Problem Statement

 **Problem Statement:**

55 - LOWEST PRICE

You own a small online store, and want to analyze customer ratings for the products that you're selling. After doing a data pull, you have a list of products and a log of purchases. Within the purchase log, each record includes the number of stars (from 1 to 5) as a customer rating for the product.

For each category, find the lowest price among all products that received at least one 4-star or above rating from customers.

If a product category did not have any products that received at least one 4-star or above rating, the lowest price is considered to be 0. The final output should be sorted by product category in alphabetical order.

 **Difficult Level : MEDIUM**

NAMASTE SQL - DAY 8

Step - 2 : Identifying The Input Data And Expected

INPUT

products			
ID	NAME	CATEGORY	PRICE
1	Cripps Pink	apple	10
2	Navel Orange	orange	12
3	Golden Delicious	apple	6
4	Clementine	orange	14
5	Pinot Noir	grape	20
6	Bing Cherries	cherry	36

purchases		
ID	PRODUCT_ID	STARS
1	1	2
2	3	3
3	2	2
4	4	4
5	6	5
6	6	4

OUTPUT

CATEGORY	PRICE
apple	0
cherry	36
grape	0
orange	14

Step - 3 : Writing the sql query to solve the

```
1
2 SELECT P.category
3     ,coalesce(min(CASE
4                 WHEN PC.product_id IS NOT NULL
5                 THEN price
6                 END), 0) AS price
7 FROM products P
8 LEFT JOIN purchases PC ON P.id = PC.product_id
9     AND PC.stars IN (4,5)
10 GROUP BY P.category
11 ORDER BY category;
12
```



Save

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