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Fill Missing Client Data

Description	Solution	Discussion	Submissions

Medium   Accenture

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When you log in to your retailer client's database, you notice that their product catalog data is full of gaps in the `category` column. Can you write a SQL query that returns the product catalog with the missing data filled in?

Assumptions

- Each category is mentioned only once in a category column.
- All the products belonging to same category are grouped together.
- The first product from a product group will always have a defined category.
  - Meaning that the first item from each category will not have a missing `category` value.

`products` **Table:**

Column Name	Type
product_id	integer
category	varchar
name	varchar

`products` **Example Input:**

product_id	category	name
1	Shoes	Sperry Boat Shoe
2		Adidas Stan Smith
3		Vans Authentic
4	Jeans	Levi 511
5		Wrangler Straight Fit
6	Shirts	Lacoste Classic Polo
7		Nautica Linen Shirt

Example Output:

product_id	category	name
1	Shoes	Sperry Boat Shoe
2	Shoes	Adidas Stan Smith
3	Shoes	Vans Authentic
4	Jeans	Levi 511
5	Jeans	Wrangler Straight Fit

```
1  SELECT product_id,FIRST_VALUE(category)
2  OVER (PARTITION BY category_group ORDER BY product_id)
3  as category,name
4  FROM
5  (SELECT product_id,category,name,
6  SUM(CASE WHEN category IS NULL THEN 0 ELSE 1 END)
7  OVER (ORDER BY product_id) as category_group FROM products
8  ORDER BY product_id ASC) as pro;
9
10
```

PostgreSQL 14   [**Run Code**]   Submit