Fill Missing Client Data [Accenture SQL Interview Question]

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 catalog 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
6	Shirts	Lacoste Classic Polo
7	Shirts	Nautica Linen Shirt

Explanation:

Shoes will replace NULL values below the product Sperry Boat Shoe until Jeans appears. Similarly, Jeans will replace NULL s for the product Wrangler Straight Fit, and so on.