

```
SELECT Product.Name, Category.Name  
FROM Product  
LEFT OUTER JOIN ProdCat  
ON Product.ID = ProdCat.Product_ID  
LEFT OUTER JOIN Category  
ON ProdCat.Category_ID = Category.ID
```

(In the given image you can see the tables and the relationship, and here is SQL query to select all pairs of "Product Name - Category Name". If a product has no categories, then its name should still be displayed)