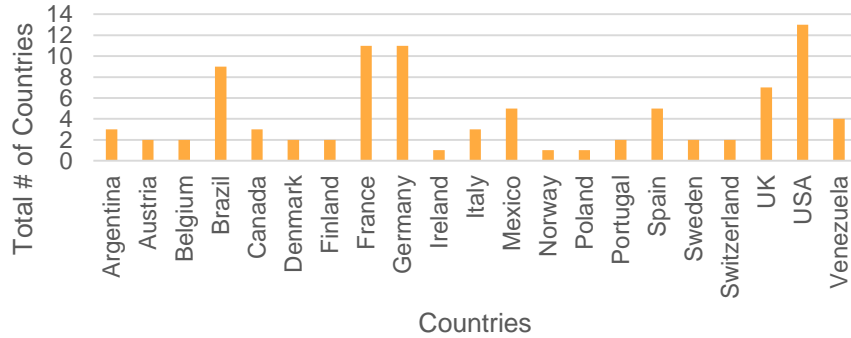


PROJECT 2.2 – CREATE REPORTS FROM A DATABASE

ANTHONY NGUYEN

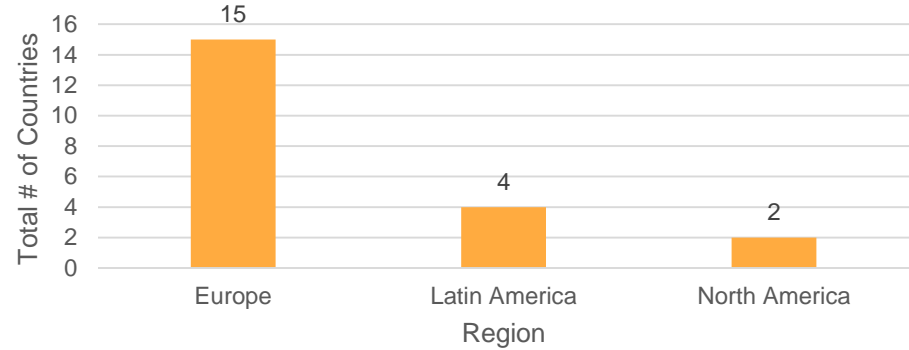
Country and Regions Customers are Located

Number of Customers Per Country



The **country** that holds the largest number of customers = **United States**

Country Count by Region



The **region** which holds the largest number of customers = **Europe**

Total Orders Per Product Category



The 2 **highest orders** product categories = **Dairy Products + Beverages**

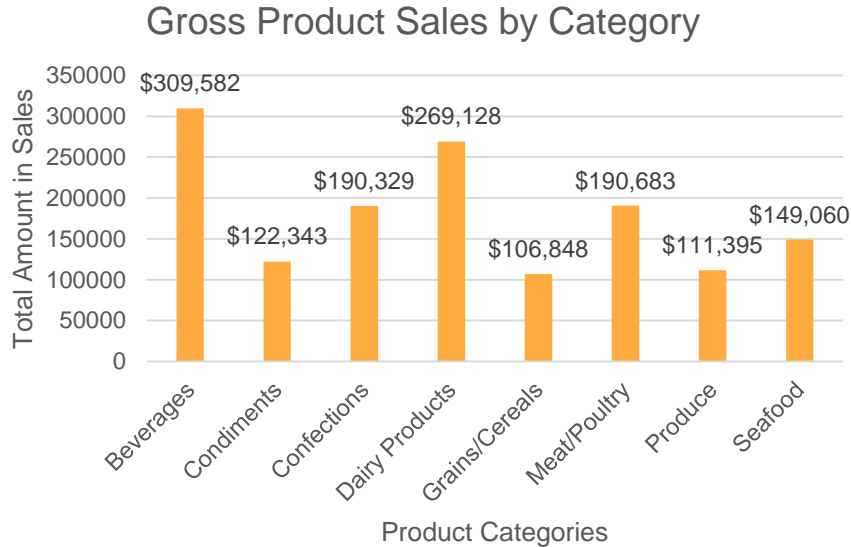
The 2 **lowest order** product categories = **Meat/Poultry + Produce**

```
SELECT COUNT (category_name) category_count,  
category_name  
FROM (
```

```
SELECT cat.CategoryName category_name,  
o.ShipCountry ship_country, o.OrderID  
FROM Categories cat  
JOIN Products p  
ON cat.categoryID = p.categoryID  
JOIN OrderDetails od  
ON p.productID = od.productID  
JOIN Orders o  
ON od.orderID = o.orderID  
JOIN Customers c  
ON o.customerID = c.customerID  
GROUP BY 3  
ORDER BY 1
```

```
)  
GROUP BY 2  
ORDER BY 1 DESC;
```

Gross Product Sales by Category



```
SELECT category_name, ROUND(SUM (unit_price * quantity),0)
gross_product_sales
FROM (
```

```
SELECT p.productname product_name, p.unitprice unit_price,
cat.categoryname category_name, od.orderid, od.quantity
FROM Categories cat
JOIN Products p
ON cat.categoryID = p.categoryID
JOIN OrderDetails od
ON p.productID = od.productID
JOIN Orders o
ON od.orderID = o.orderID
JOIN Customers c
ON o.customerID = c.customerID
GROUP BY 1,4
ORDER BY 5 DESC
```

```
)
GROUP BY 1
ORDER BY 2 DESC;
```

The 2 **highest grossing** product sales by category = **Beverages + Dairy Products**

Highest Number of Products Ordered by Quantity



The highest ordered products by quantity in the highest grossing product category: Beverages + Dairy Products

Confirming that sales of the highest ordered products in the highest grossing product category are being purchased by the largest single country of customers and the largest country region = USA + Europe

```
WITH country_region AS (  
    SELECT c.country,  
           case  
             WHEN c.country IN ('USA', 'Canada') THEN 'North America'  
             WHEN c.country IN ('Mexico', 'Argentina', 'Brazil', 'Venezuela') THEN  
               'Latin America'  
             ELSE 'Europe' END AS country_region  
    FROM Customers c  
    GROUP BY 1  
    ORDER BY 1 DESC),  
  
product_name AS (  
    SELECT p.productname product_name, p.unitprice unit_price, cat.categoryname  
           category_name, od.orderid, od.quantity, c.country  
    FROM Categories cat  
    JOIN Products p  
      ON cat.categoryID = p.categoryID  
    JOIN OrderDetails od  
      ON p.productID = od.productID  
    JOIN Orders o  
      ON od.orderID = o.orderID  
    JOIN Customers c  
      ON o.customerID = c.customerID  
    GROUP BY 1,4  
    ORDER BY 5 DESC)  
  
SELECT product_name, category_name, quantity, country_region, product_name.country  
FROM country_region  
JOIN product_name  
  ON country_region.country = product_name.country  
WHERE quantity >= 100 AND category_name IN ('Beverages', 'Dairy Products')  
GROUP BY 1,2,3,4,5  
ORDER BY 3 DESC;
```