1. **Write SQL commands** that capture specific, usable datathat can be used in your analysis.

SELECT State, Count(\*) FROM Customers GROUP BY State ORDER BY COUNT(\*);

SELEC Orders.SKU, COUNT(\*) FROM Orders GROUP BY Orders.SKU ORDER BY COUNT(\*) DESC;

SELECT Orders.SKU, COUNT(\*) FROM Orders

INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID

Where Customers.State IN (‘North Carolina’,’South Carolina’,’Georgia’,’Virgina’)

GROUP BY ORDERS.SKU

ORDER BY COUNT(\*) DESC;

SELECT Orders.SKU, COUNT(\*) FROM Orders INNER JOIN RMA ON RMA.OrderID = Orders.OrderID

GROUP BY Orders.SKU

ORDER BY COUNT(\*) DESC;

SELECT Orders.SKU, COUNT(\*) FROM Customers

INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID

INNER JOIN RMA ON Orders.OrderID = RMA.OrderID

WHERE Customers.State IN (‘Washtinton’,’Oregon’,’Idaho’,Montana’)

GROUP BY Orders.SKU

ORDER BY CIUNT(\*) DESC;

1. **Analyze the results of queries** to identify specific information that can be presented in your summary.
   1. Sales by region:
      1. Analyze sales data by state to determine where the company has the largest customer base. MASSACHUSETTSA computer screen capture

         Description automatically generated with medium confidence
      2. Analyze the data to determine the top three products sold in the United States.

BAS-48-1 C | 8385

ENT-48-40F | 6186

ENT-48-10F | 4329A screenshot of a computer

Description automatically generated

* + 1. Analyze the data to determine the top three products sold in the southeastern region of the United States.
       - Southeastern states to include in your analysis: Virginia, North Carolina, South Carolina, and Georgia

| BAS-48-1 C | 329 |

| ENT-48-40F | 232 |

| ADV-48-10F | 173 |A screenshot of a computer

Description automatically generated

* 1. Returns by region:
     1. Analyze the data to determine the top three products returned in the United States.

BAS-48-1 C | 8422 |

ENT-48-40F | 6213 |

ENT-48-10F | 4345 |

A screenshot of a computer

Description automatically generated

* + 1. Analyze the data to determine the top three products returned in the northwestern region of the United States.
       - Northwestern states to include in your analysis: Washington, Oregon, Idaho, and Montana

BAS-48-1 C | 714 |

| ENT-48-40F | 544 |

| BAS-08-1 C | 382 |

* + - * A computer screen capture

        Description automatically generated with medium confidence

1. **Write a report** to the Quantigration product manager that explains your findings in a way nontechnical stakeholders can digest and use.
   1. This report should include an effective summary of the analysis of the captured data.
      1. Sales data by region: Provide a well-written summary of your analysis on Part A.
         * The top sales done in Massachusetts are BAS-48-1 C 8385, ENT-48-40F 6186, ENT-48-10F 4329. While the top items sold in Virginia, North Carolina, South Carolina, and Georgia is BAS-48-1 C 329, ENT-48-40F 232, ADV-48-10F 173, these items sold are not nearly as high as Massachusetts.
      2. Returns data by region: Provide a well-written summary of your analysis of Part B.

As shown by the chart it tells us that the products BAS-48-1 C, ENT-48-40F, and BAS-08-1 C have the most returns being the top 3. Meaning the product must have some form of errors or the product is defective in general.