# **Lesson 4.1 - Exercise 4.1: Filtering Data**

#### **Business Scenario**

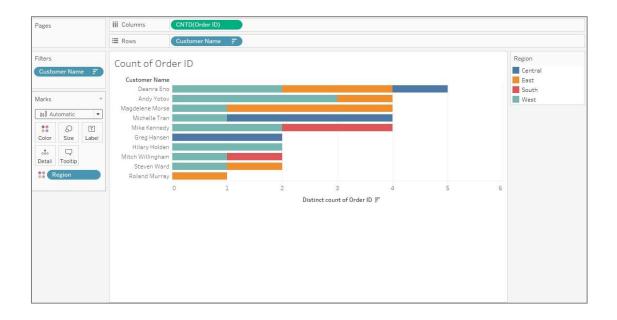
The general manager of an e-commerce company is planning to create a list of customers who have returned most of the orders they had placed. To take substantial measures for upcoming orders, he needs to create a list visualization for customers who have returned more than half of their distinct orders in each region. Create a visualization and answer the following questions:

- Which region has the highest number of products returned by the customers? (**Hint:** Change the view to text)
- How many customers do you have on your list?

### Overview

- Use a left join between **Orders** and **Returns** tables.
- Create a List of Customer Name.
- Apply a filter on Customer Name with the formula
  COUNTD([Order ID (Returns)]) >= COUNTD([Order ID])/2.
- Use Order ID in the text shelf with **Distinct Count** aggregation.
- Sort the view in descending order of count of orders.

The result should resemble the image below:



## **Detailed Instructions**

- 1. Open **Tableau 10.x** (You can go to Start Menu -> All Programs -> Tableau 10.x).
- 2. On the home page, under **Connect**, under **To a file**, click **Excel**.
- 3. Browse and connect to the **Sample Superstore** Excel file.
- 4. Drag and drop **Orders** and **Returns** table to the canvas area.
- 5. Change the join type to **Left** join.
- 6. Go to **Sheet 1**.
- 7. Place the **Customer Name** dimension in the Rows shelf.
- 8. Place the **Customer Name** dimension in the Filters shelf.
- 9. Go to the **Condition** tab.
- Click the By formula radio button and enter the formula:
  COUNTD([Order ID (Returns)]) >=COUNTD([Order ID])/2
- 11. Click **OK**.
- 12. In the Data pane, drag **Order ID** to the Text shelf and change the aggregation function to **Distinct Count**.
- 13. Sort the view in descending order of count of orders.
- 14. From Dimensions, place the **Region** field in color.
- 15. Rename the sheet as Filtering.
- 16. Save the workbook as **Lesson 4 Exercises**.

# Keep the workbook open to perform next exercise.

#### Answers

Based on the view, these are the answers to the questions in the problem statement:

• Which region has the highest number of products returned by the customers?

Answer- **West** 

How many customers do you have on your list?
 Answer - 10