**Lesson 03 Demo 01**

**Joins**

**Business Scenario:**

Rollin Ford, the regional manager of a retail chain, has to redesign distribution and production strategies. He wants to look at each state's profits along with the managers' names. He also wants to see the number of products returned by customers in each state. You have to combine the data that is stored across different tables and create a visualization to satisfy the above requirement. Rollin wants refresh to happen incrementally based on the date.

* Which is the least profitable state?
* Customers from which state have returned the highest number of products?

**Overview:**

* Combine the Orders, Returns, and People tables
* Use inner join to combine Orders and People tables
* Use the left join between Orders and Returns table
* Create the required view
* Enable mark labels

The result should resemble the following image:

Graphical user interface

Description automatically generated

**Detailed Instructions**



1.Open **Tableau 2021.4** (You can go to **Start Menu** -> **Tableau 2021.4**)**A screenshot of a computer

Description automatically generated with medium confidence**

2.On the home page, under **Connect**, under **To a File**, click **Excel**

Graphical user interface, text, application

Description automatically generated

3.Browse and connect to the **Sample - Superstore Excel file**

Graphical user interface, application

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4. Drag and drop **Orders** and **People** tables to the canvas area

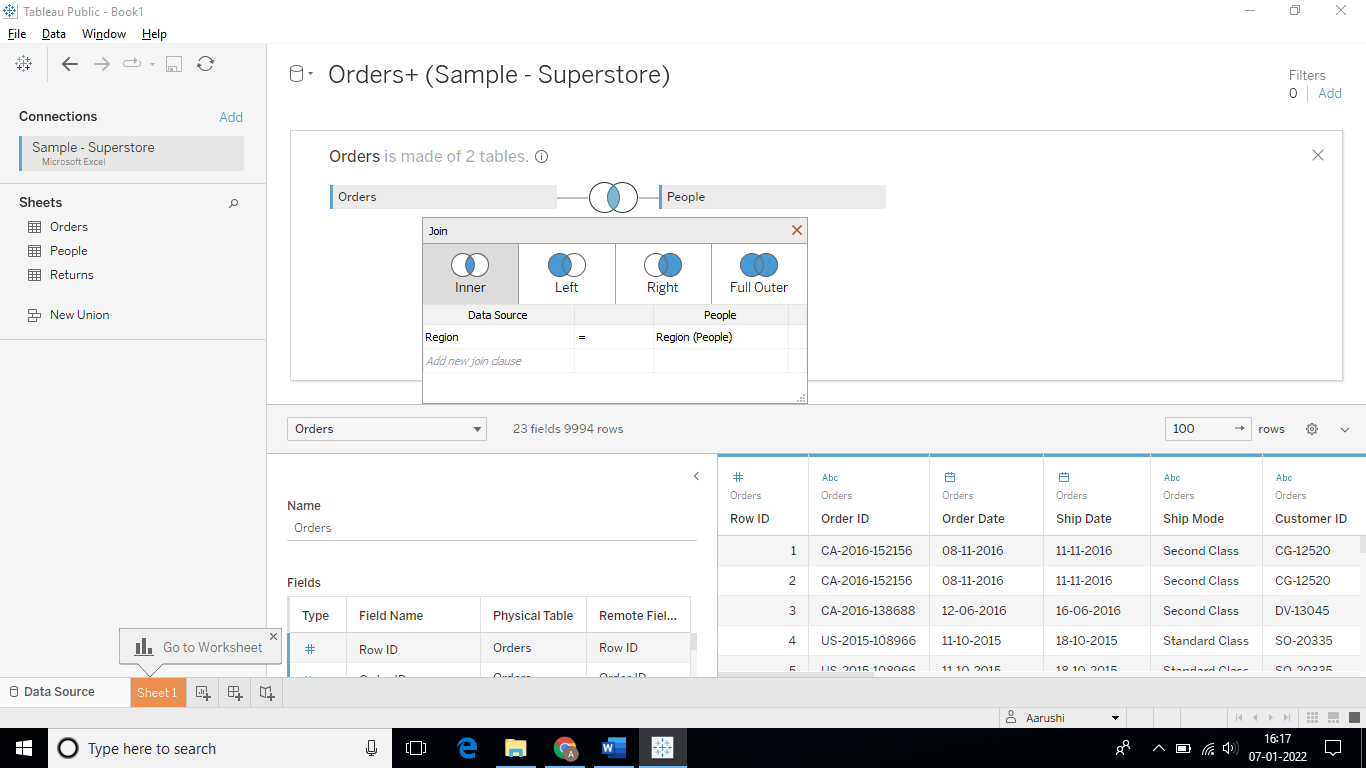
Graphical user interface

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Graphical user interface, text, application

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5.Make sure the **Inner join** is selected

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6.Place the **Returns table** in the canvas area and select **Left Join**

A screenshot of a computer

Description automatically generated

7.To create a view, go to **Sheet 1**

**Graphical user interface, text, application

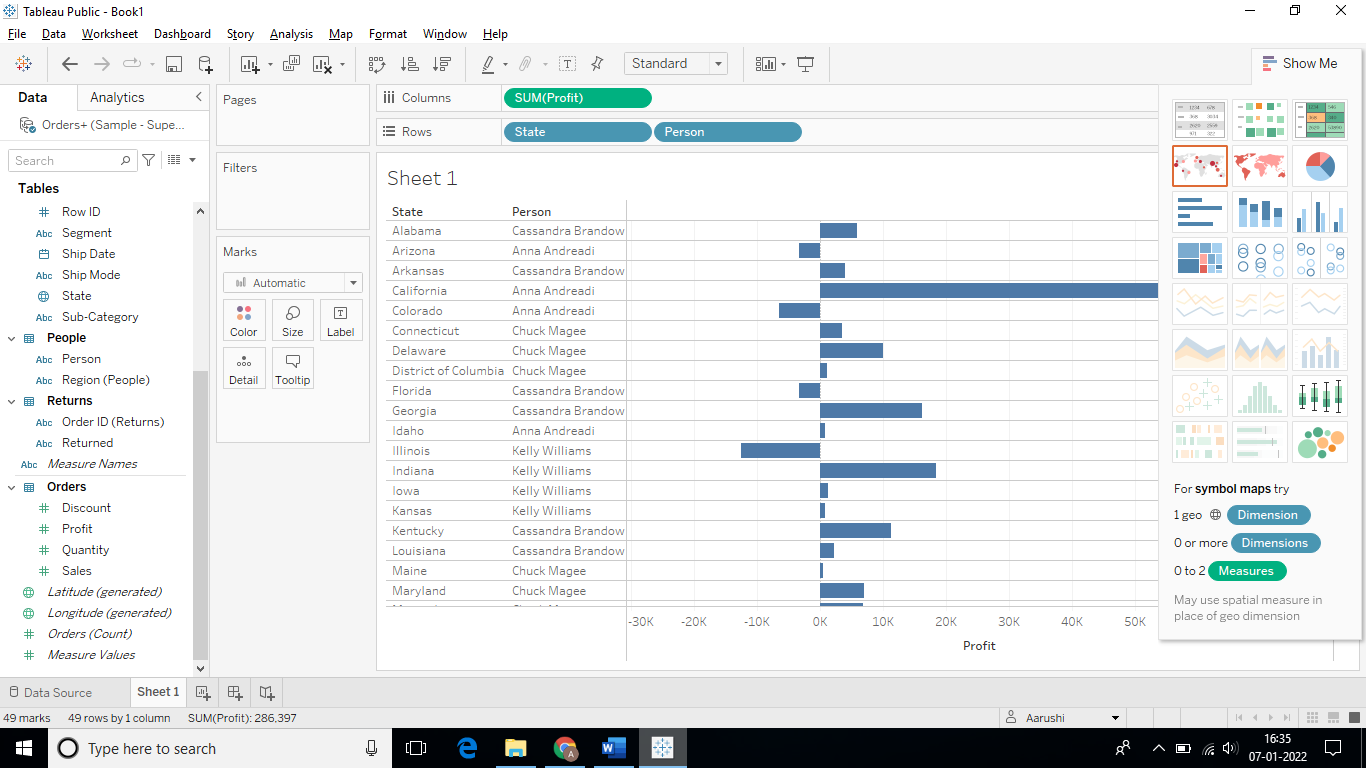
Description automatically generated**

8.From Dimensions, locate **State** and **Person** and place them on rows

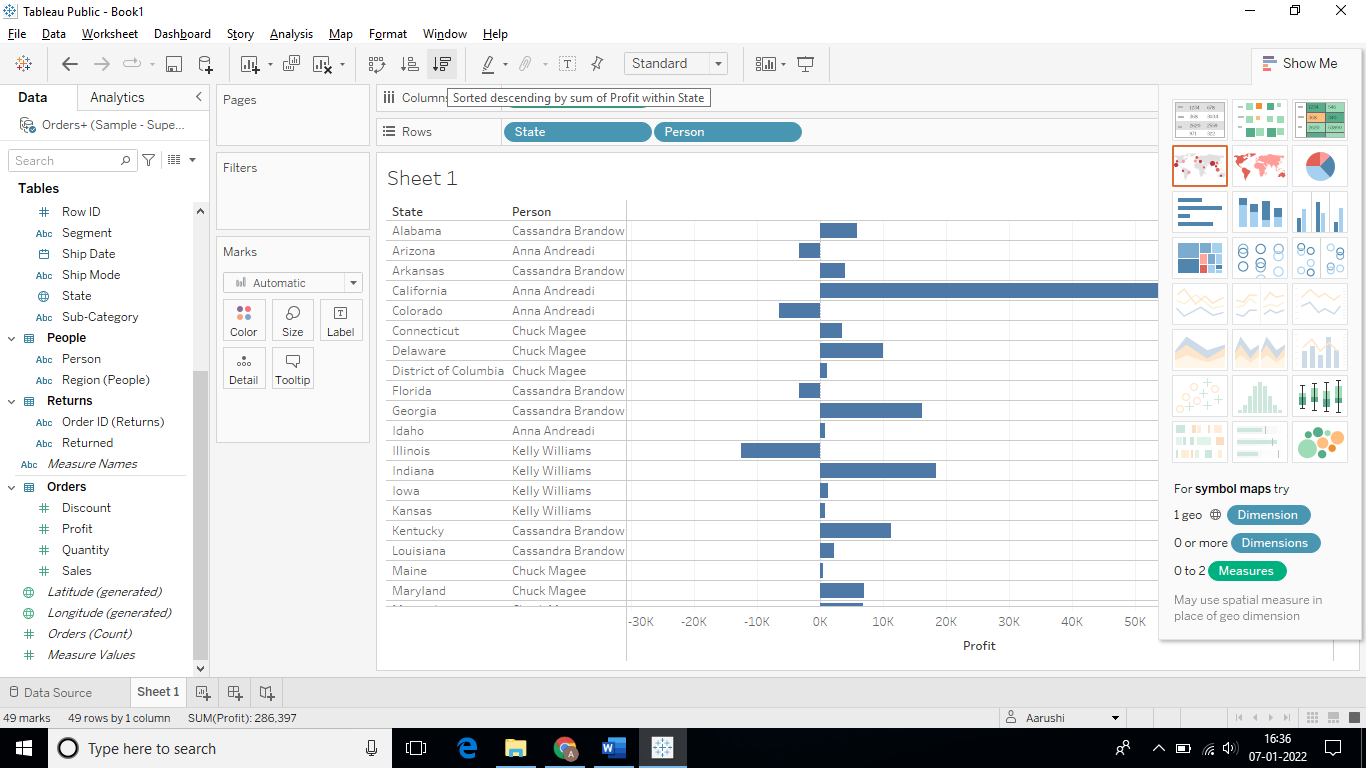
Graphical user interface, application

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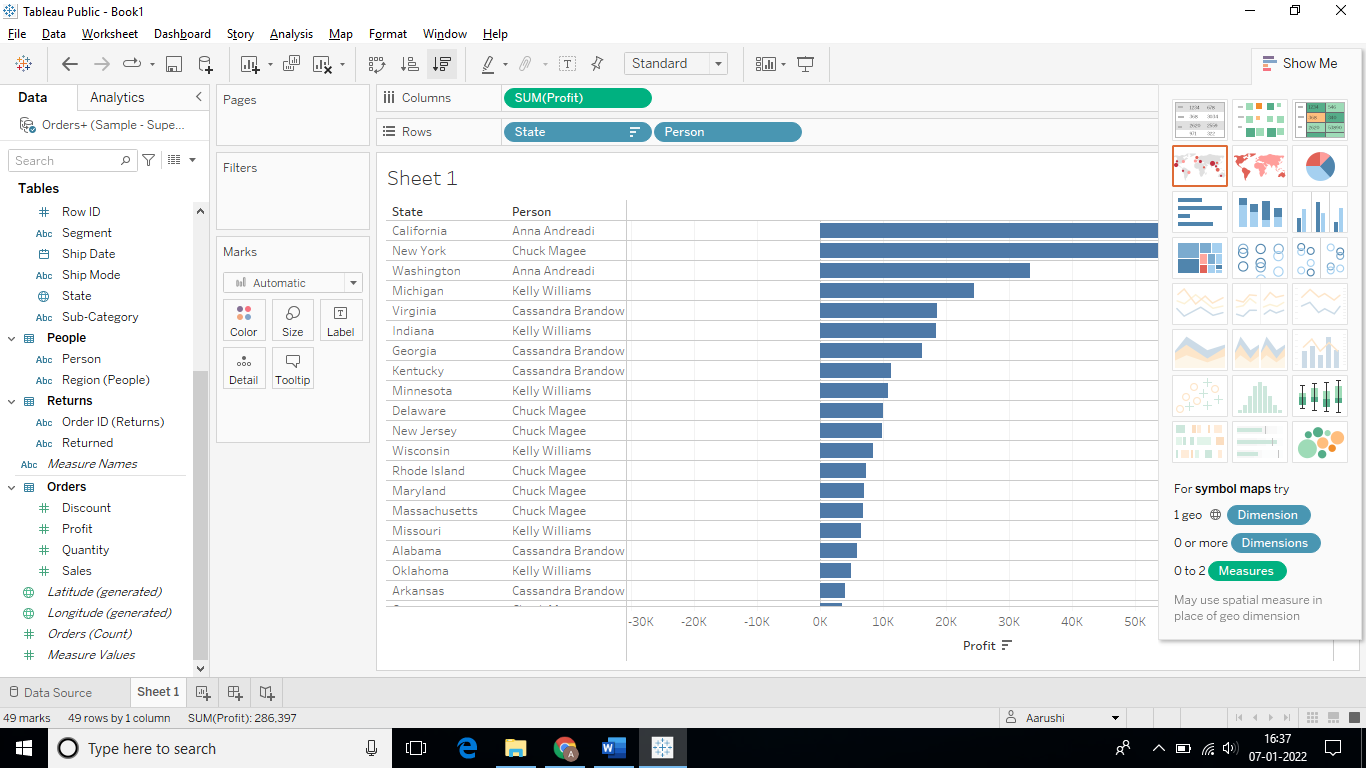
9.From Measures, locate **Profit** andplace it on columns

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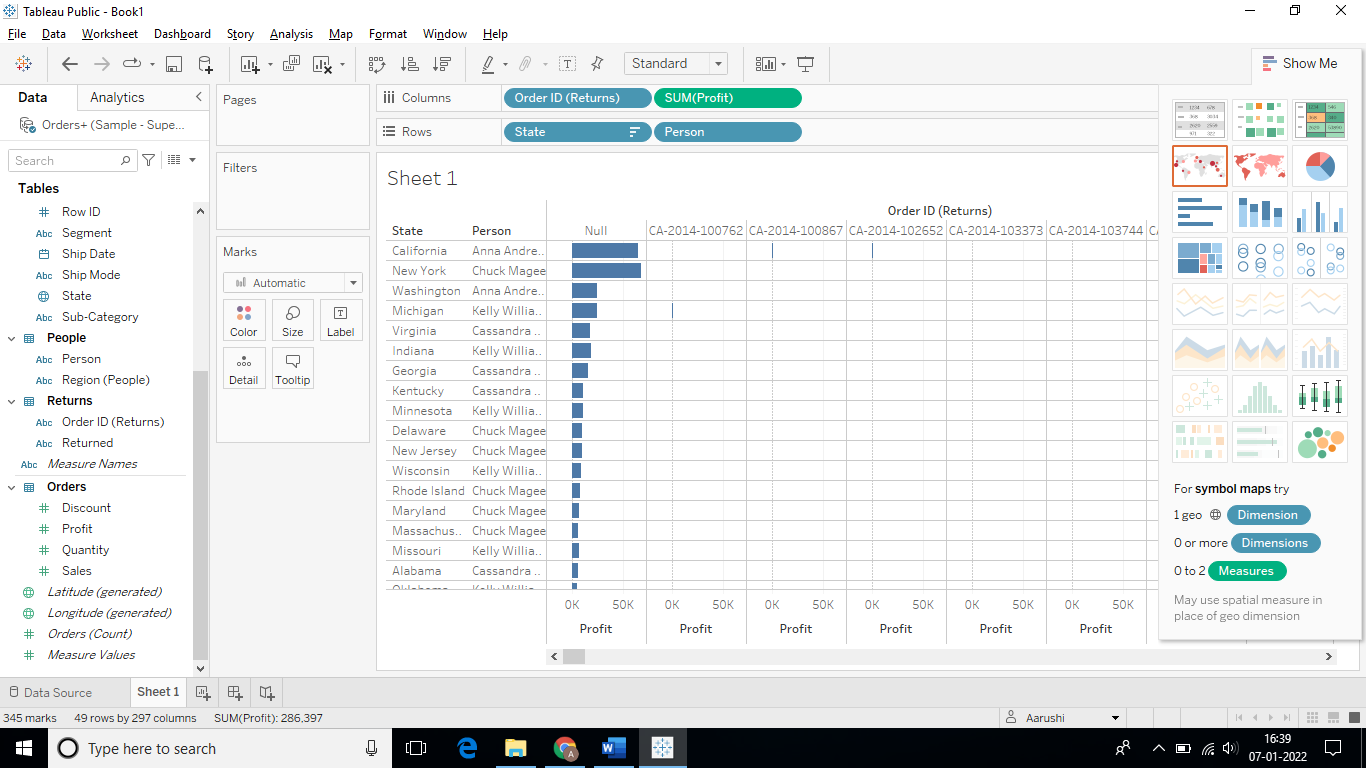
10.On the toolbar, use the **Sort icon** to sort the view in descending order

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The sorted view is as follows:



11.To count the number of orders placed, locate **Order ID (Returns)** from Dimensions and place them on columns

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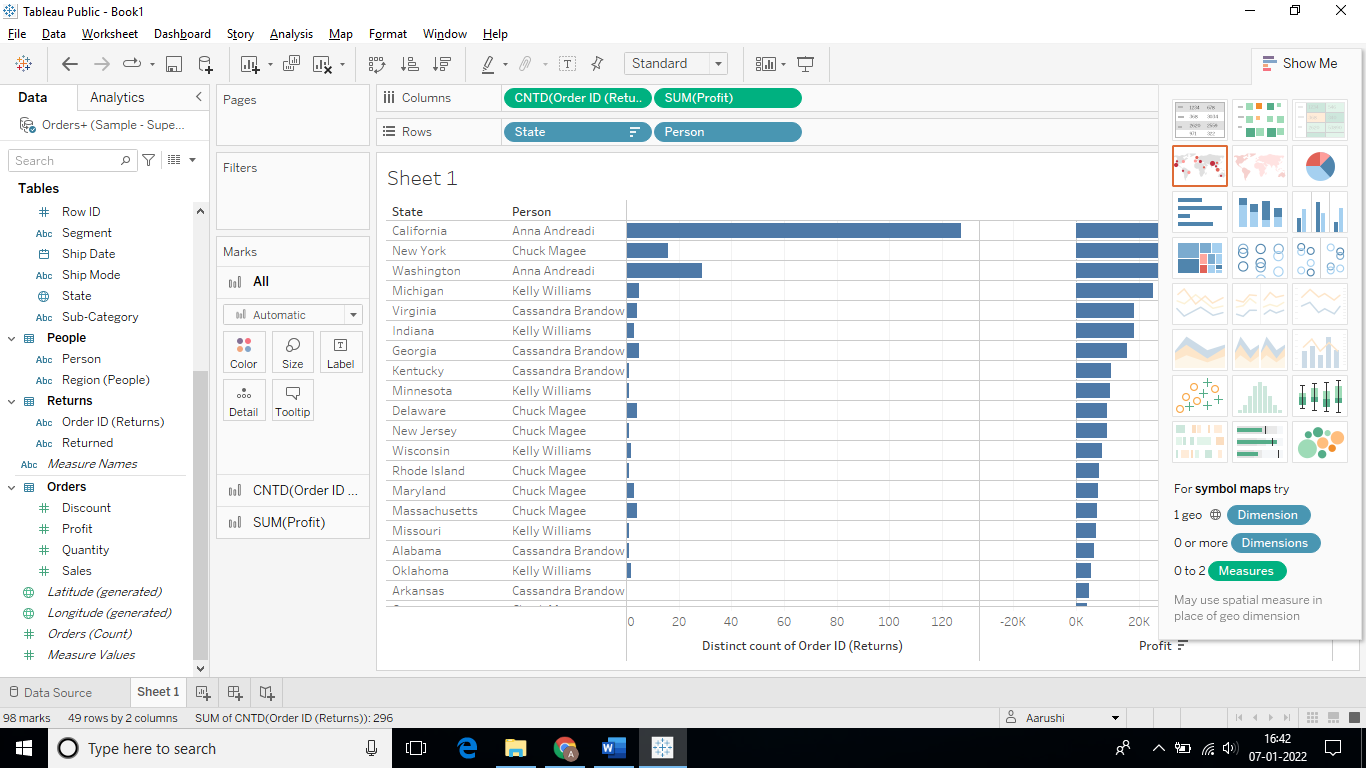
12.Select aggregation as **Count Distinct**

(Right click on **Order ID (Returns)** in **Columns** -> **Measure** -> **Count Distinct)**

A screenshot of a computer

Description automatically generated

The result will be as follows:



14. Save the workbook as **Lesson 3 – Exercises**

Keep the workbook open to perform the next exercise.

**Answers:**

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

* Which is the least profitable state?

Answer: **Texas**

* Customers from which state have returned the highest number of products?

Answer: **California**