Reversing the Bars:

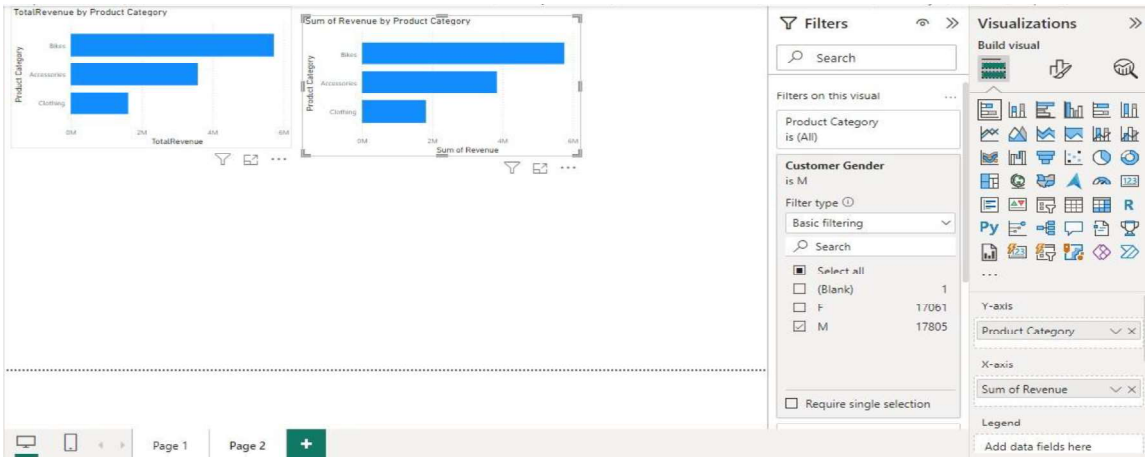
- To create the butterfly effect, you need to reverse one of the bar charts. This involves adjusting the direction of the bars so that they face opposite directions from the center.

o Reverse the Bars:

- For one of the charts (e.g., Male revenue), you will need to use a calculated column or measure to make the bars extend in the opposite direction. In Power BI, this can be achievedby adjusting the data in the chart's settings or using custom visualizations if necessary.

Add Titles and Labels:

- Add clear titles and labels to each chart to indicate what data they represent (e.g., "Female Revenue" and "Male Revenue").
- Customize the chart's appearance to enhance readability.



Question 6:Create a calculated field to show the average revenue per state & display profitable & non-profitable state.

Step1: Create a New Measure

- Go to the Modeling tab and select "New Measure".
- Create the Average Revenue Measure:
- Enter the following DAX formula to calculate the average revenue per state:

```
AverageRevenuePerState =
        AVERAGEX(
           VALUES(SalesTable[State]),
           CALCULATE(SUM(SalesTable[Revenue]))
        )
```

Step2: Create a Calculated Column to Categorize States

Next, create a calculated column to classify states as profitable or non-profitable based on the average revenue.

1. **Go to the Modeling tab** and select **"New Column"**.

2. **Create the Profitability Column**:

enter the following DAX formula to create a column that categorizes states as profitable or non-profitable:

```
ProfitabilityStatus =
IF(SalesTable[AverageRevenuePerState] > 1000,
   "Profitable",
   "Non-Profitable"
)
```

Step 3: Display the Results

1. **Add a Table and select state, AverageRevenueState and ProfitablitiyStatus.**

State	AverageRevenuePerState	ProfitabilityStatus
	642.00	Non-Profitable
Alabama	59.00	Non-Profitable
Alabama	1,155.00	Profitable
Arizona	71.00	Non-Profitable
Arizona	1,949.00	Profitable
Bayern	1,63,271.00	Non-Profitable
Bayern	3,74,137.00	Profitable
Brandenburg	20,497.00	Non-Profitable
Brandenburg	67,941.00	Profitable
California	24,92,858.00	Non-Profitable
California	35,84,058.00	Profitable
Charente-Maritime	16,993.00	Non-Profitable
Charente-Maritime	20,874.00	Profitable
England	14,97,497.00	Non-Profitable
England	27,78,723.00	Profitable
Essonne	1,06,052.00	Non-Profitable
Essonne	2,31,515.00	Profitable
Florida	1,653.00	Non-Profitable
Florida	1,908.00	Profitable
Garonne (Haute)	21,192.00	Non-Profitable
Garonne (Haute)	48,495.00	Profitable
Total	**4,85,765.61**	

Extra : To get the Total value or single value

In Power BI, a **Card** visualization is used to display a single, important piece of data, such as a key metric or a number. It is commonly used to show aggregate values like:

- Total Sales
- **Average Profit**
- Total Units Sold
- **Number of Customers**

The Card provides a clean and simple way to highlight critical metrics that are important for decision-making. It's ideal for dashboard views where quick insights are needed.

To show the total revenue

Steps : 1.Select the card in the visualization pane.

2.Drag the Revenue field into the field well

To Add filter or Slicer

Filter Data: Slicers filter data across multiple charts and visuals in a report. For example, selecting a specific region or product category in a slicer can update all connected visuals to reflect data only for that selection**.**

Steps : 1. Select slicer from the Visual pane

2. Drag the Country field into the field well

Question 7: Build a dashboard.