

# Experiment 9 – Power BI

## Page 1 – Map

1. Select “filled map” from “visual pane” and drag “state” to “location” & “revenue” to “legend”
2. Similarly, select normal map and add “revenue” to bubble size and “state” to “location”

## Page 2 – Line Chart

1. Select “line chart” from the visuals
2. Drag “month” to “x-axis” and “revenue” to “y-axis”
3. You will get the line chart, but we need to beautify it and hence select “format visual” and there we can format “x-axis” and “y-axis” separately and then the “line” itself

## Page 3 – Stacked Column Chart

1. Create Customer Age (bins) by right clicking on “customer age” and select “new group” then in “bin size” enter 10.
2. Now drag “customer age (bins)” to the x-axis and “revenue” to y – axis

## Page 4 – Donut Chart

1. Select “Donut Chart” from the visuals
2. Drag “state” to legend and “revenue” to “values”
3. Go to format visual and select “detail labels”, go to “options” and then select position as “inside”

## Page 5 – Butterfly

1. Select 2 Stacked Column Chart, side by side

2. Drag “product category” to y – axis and “revenue” to x – axis for both the charts
3. Add “customer gender” in the filters pane for both the charts and select “F” and “M” for the 1<sup>st</sup> and 2<sup>nd</sup> chart respectively
4. Now select the 1<sup>st</sup> chart and go to “format visuals” and select “x - axis” and enable “invert range”
5. Similarly for the 2<sup>nd</sup> chart in the format pane select “y - axis” and enable “switch axis position”

#### Page 6 – New Measure

1. Create a new measure, “Average Revenue Per State”, formula:  

$$\text{Average Revenue Per State} = \text{AVERAGEX}(\text{VALUES}(\text{SalesTable}[State]), \text{CALCULATE}(\text{SUM}(\text{SalesTable}[Revenue])))$$
2. Create a new measure, “Profitability status”, formula:  

$$\text{ProfitabilityStatus} = \text{IF}(\text{SalesTable[Average Revenue Per State]} > 1000, \text{"Profitable"}, \text{"Non- Profitable"})$$
3. Select “table” from visuals and drag “state”, “average revenue per state” and “profitability status” in the column

#### Page 7 – Dashboard

1. Go to every single page previously made and right click on the charts, select “copy visuals” and paste it in this page
2. Format it properly, and keep the sizes proper for every chart.