

Visual Analytics with Power BI

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Course Deliverables

- This course will help you learn to visualize data using one of the most widely used tool – Power BI
 - Get data
 - Explore Data
 - Prepare Data
 - Visualize Data
 - Publish Reports
- Learn DAX to create advanced Measures in reports
- Similarities and Differences in Tableau and Power BI
- Resume and Interview questions

Day 1

Get Data

- Large options for connecting to different data sources
- Refresh data with every load or periodic refresh
- Use data from different sources simultaneously

Transform/Clean Data

- Applied steps
- Rename table, columns
- Column Headers, Data types
- Null values, unique values
- Split columns
- Replace values

Analyse Data

- Model Relations
- Fields, Visualization and Filter Pane
- Geo location analysis
- Measures and Calculated Columns

Report/Visualization

- Charts – Fields and formatting
- Text boxes
- Sorting, Tooltips,
- Drop downs
- Drill up, Drill down
- Visual interactions
- Slicing, buttons
- Hierarchy

Challenge - 01

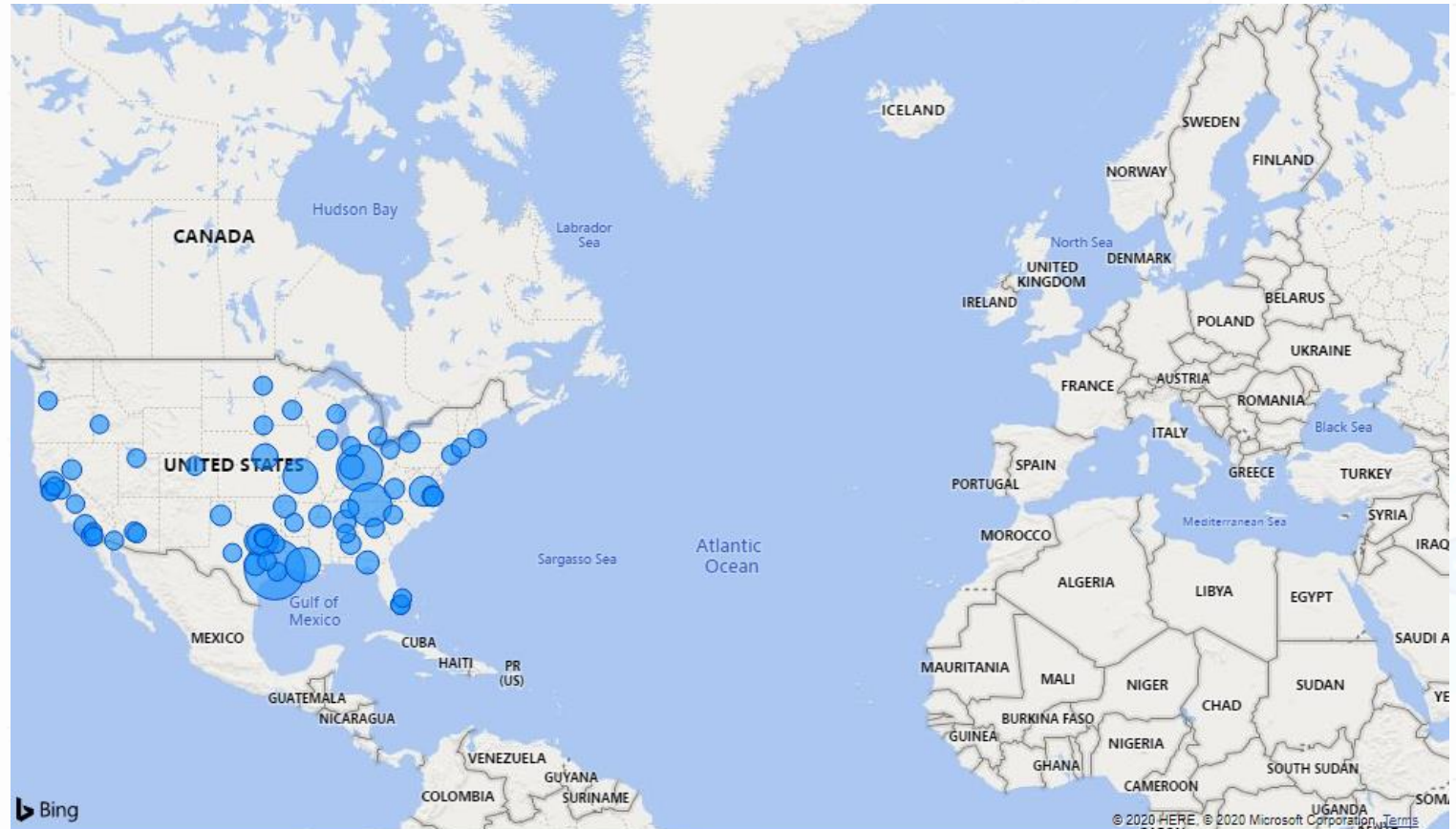
• Instructions –

- Data Set – SuperStore
- Display sales for different cities on map
- Size of the city marker should be proportional to the total sales in the city

Note that the data consists of cities only in US and map should display accordingly.

(<https://www.latlong.net/category/cities-236-15.html>)

Desired Report

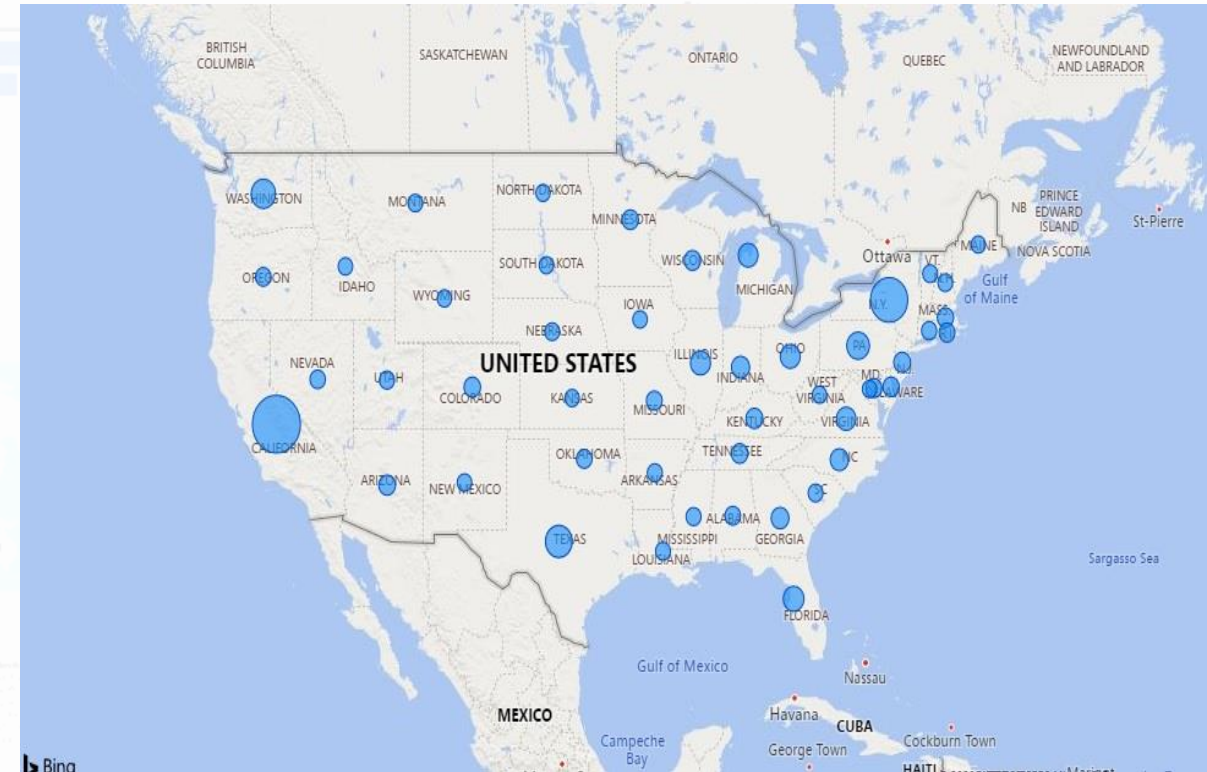
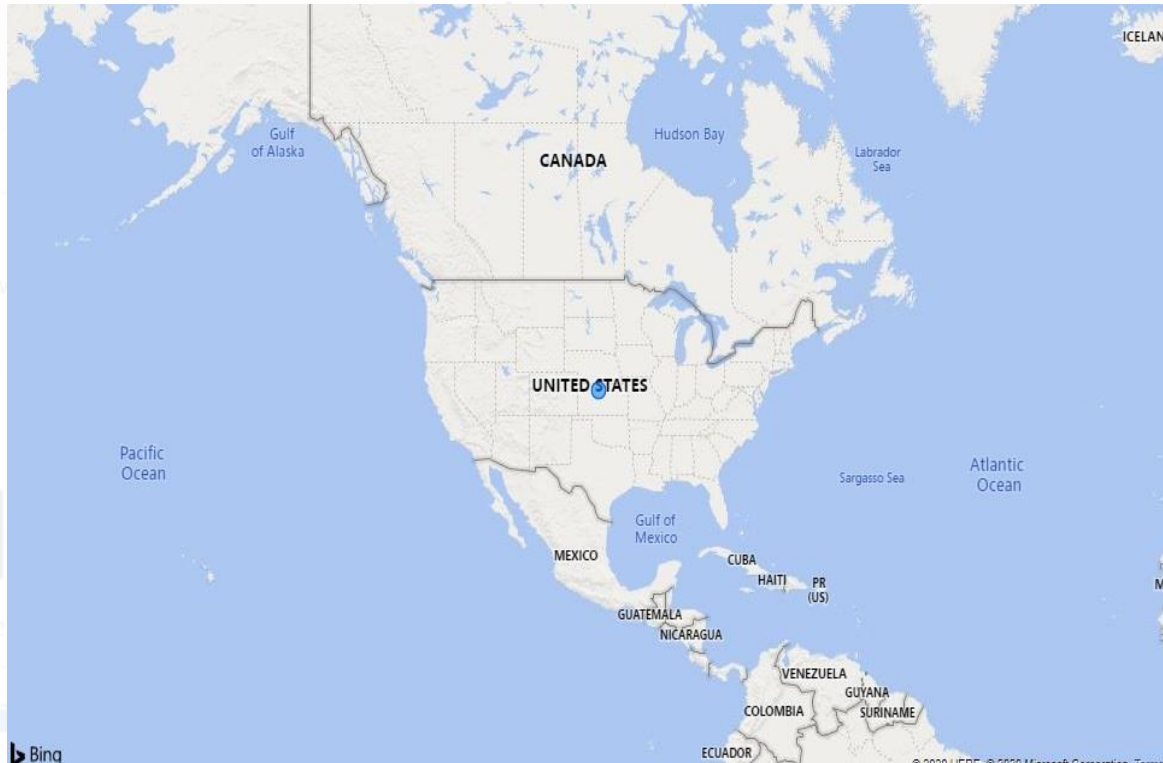


Challenge - 02

- Instructions –

- Data Set – SuperStore
- Display sales for country on map. There should be drill down and drill up option to view state and city sales

Desired Report



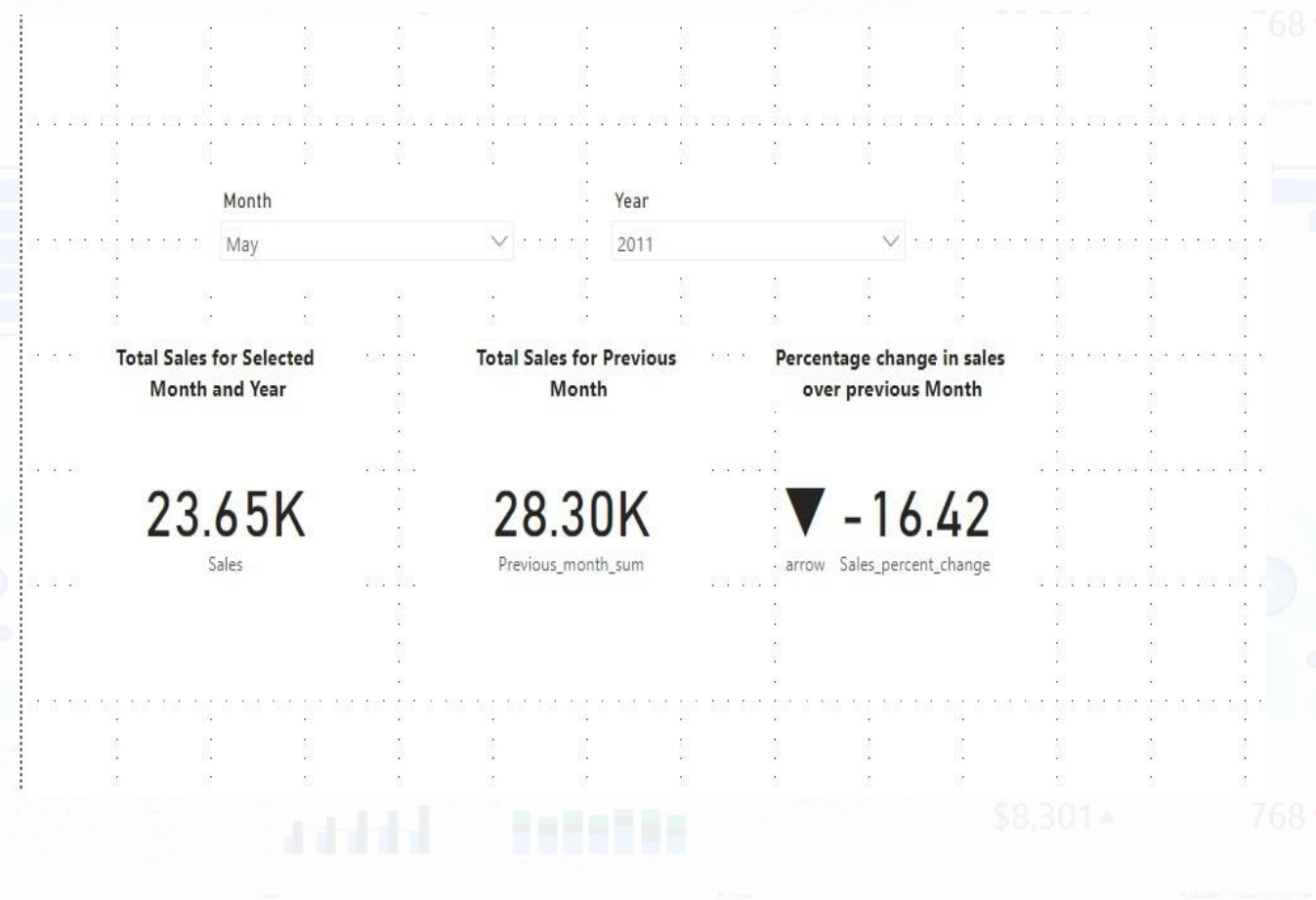
Challenge - 03

• Instructions –

- Data Set – SuperStore
- A Select Month parameter to choose the month
- A Select Year parameter to choose the year
- Total Sales for that selected month and year
- The delta from the previous month expressed as a KPI

hint: the downward arrow is a UTF-8 character and not a shape or image

Desired Report

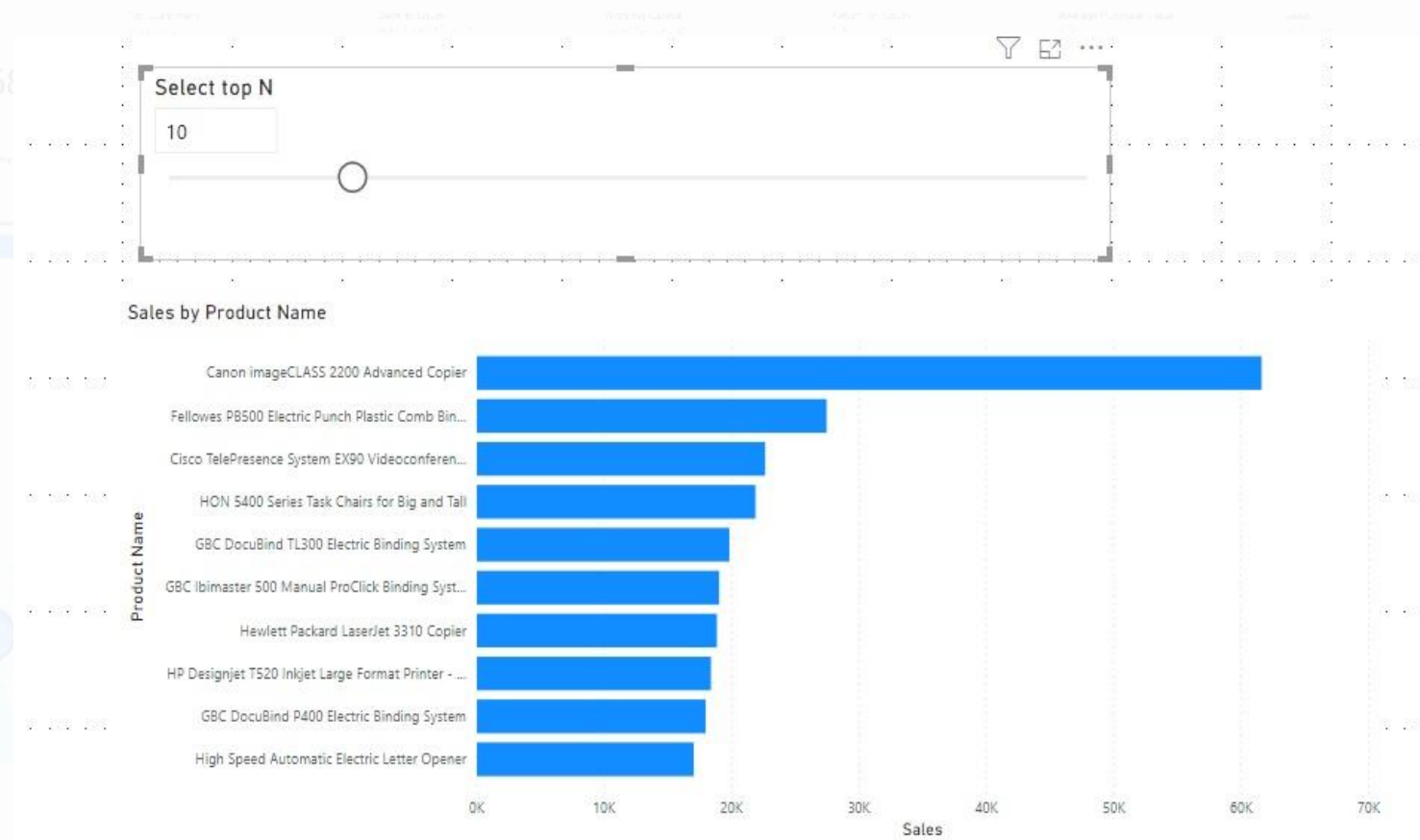


Challenge - 04

- Instructions –

- Data Set – SuperStore
- Create a parameter called Top N
- Create a bar chart to rank the top selling Product Names by sales
- Rank them in descending order
- The dynamic Top N parameter should filter the visualization dynamically, whether I toggle between Top 1 to 30

Desired Report



Challenge - 05

• Instructions –

- Data Set – SuperStore
- Create 2 measures (Total Sales and Average Transaction Size per Order)
- Create a parameter so I can dynamically sort in descending order the customers based on either of the 2 measures (the screenshots shows that average transaction size is selected and so report is sorted by Average Transaction Size)

Desired Report

