

Summer Internship Project
Presentation

on

“Power BI”

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INTRODUCTION

Power BI is a tool for data visualization that converts data from sources like Excel and SQL to interactive dashboards and reports. It is very helpful to learn how to create such dashboards for better insights.

OBJECTIVES

1. The objective of this project is to learn how to create attractive visualized dashboards in Power BI Desktop.
2. The dashboards should give a clear insight to the company by analyzing its data.
3. The dashboards should be informative and rich enough for a business to monitor itself closely and get instant answers.

EXPECTED OUTCOME

- Better insights to business metrics.
- Creation and deployment of dashboards.
- Spend time on studying the insights than on pulling the data.
- Secured approach to report on your data source.

TOOLS AND TECHNOLOGY

The tools I needed to use to create the dashboards are:

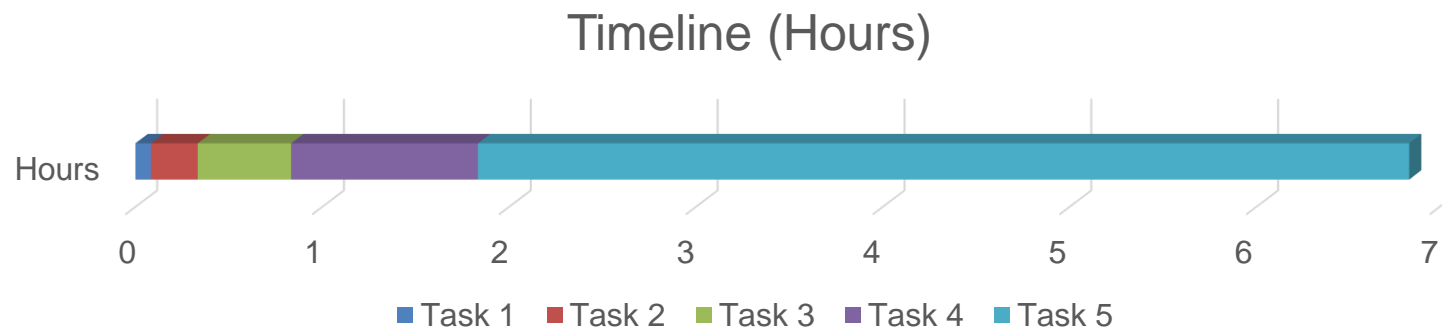
- Microsoft Excel
- Microsoft Power BI

MODULES

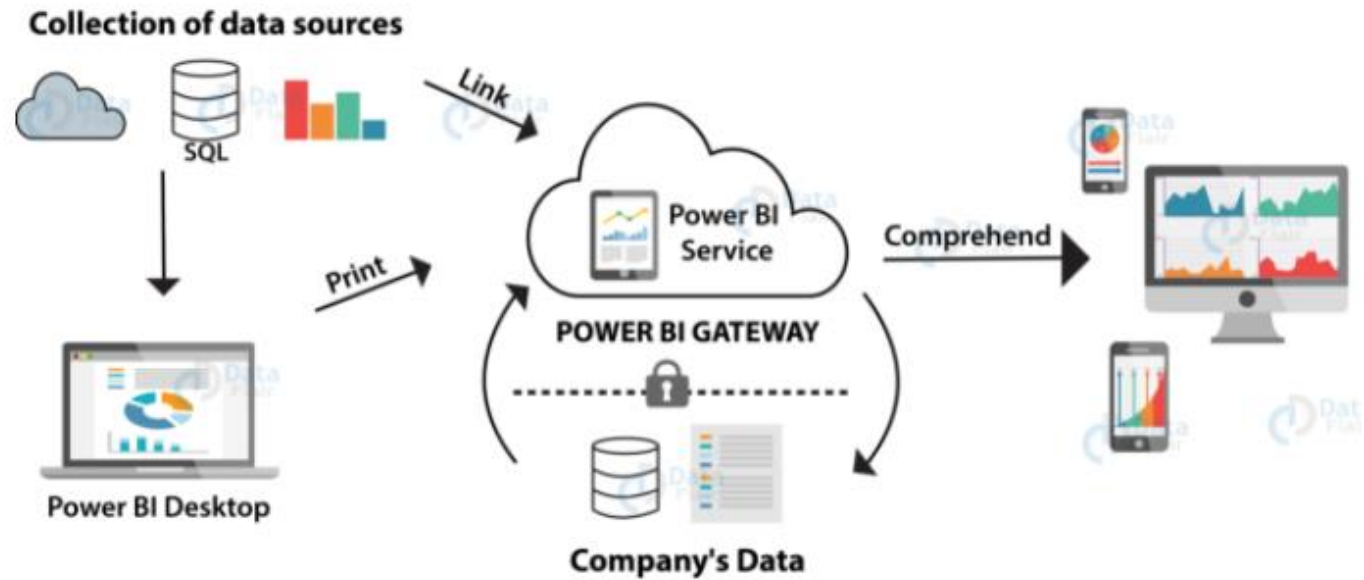
- Module 1: Download Power BI Desktop
- Module 2: Install Power BI Desktop
- Module 3: Import data to Power BI Dashboard
- Module 4: Format and clean the data in Power BI Dashboard
- Module 5: Create Data Visualization in Power BI Dashboard

TIMELINE

- Task 1 - Download: Less than an hour
- Task 2 - Install: Less than an hour
- Task 3 - Import Data: 0.5 hours
- Task 4 - Format Data: 1 hour (depends on the size of data)
- Task 5 - Create Visualizations: 4-5 hours (depends on the requirements of client)



PROCESS FLOW



Dashboard 1

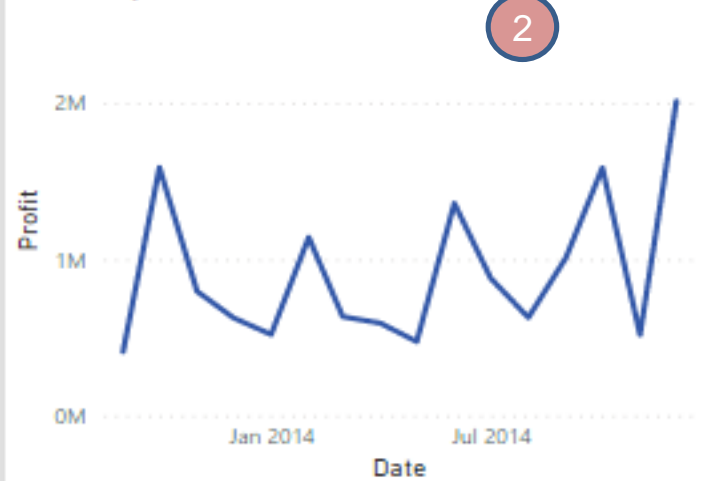
Executive Summary - Finance Report

Year, Month

- ☐ Select all
- ^ ☐ 2013
- ☐ January
 - ☐ February
 - ☐ March
 - ☐ April
 - ☐ May
 - ☐ June
 - ☐ July
 - ☐ August
 - ☐ September
 - ☐ October
 - ☐ November
 - ☐ December
- ^ ☐ 2014
- ☐ January
 - ☐ February
 - ☐ March
 - ☐ April
 - ☐ May
 - ☐ June
 - ☐ July
 - ☐ August
 - ☐ September
 - ☐ October
 - ☐ November
 - ☐ December

Initial State

Profit by Month and Year

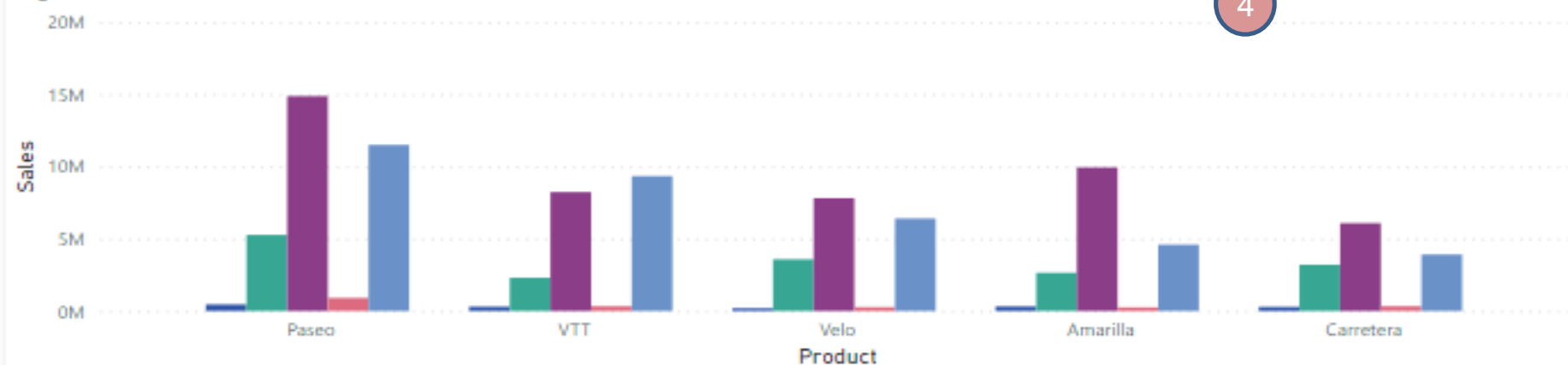


Profit by Country



Sales by Product and Segment

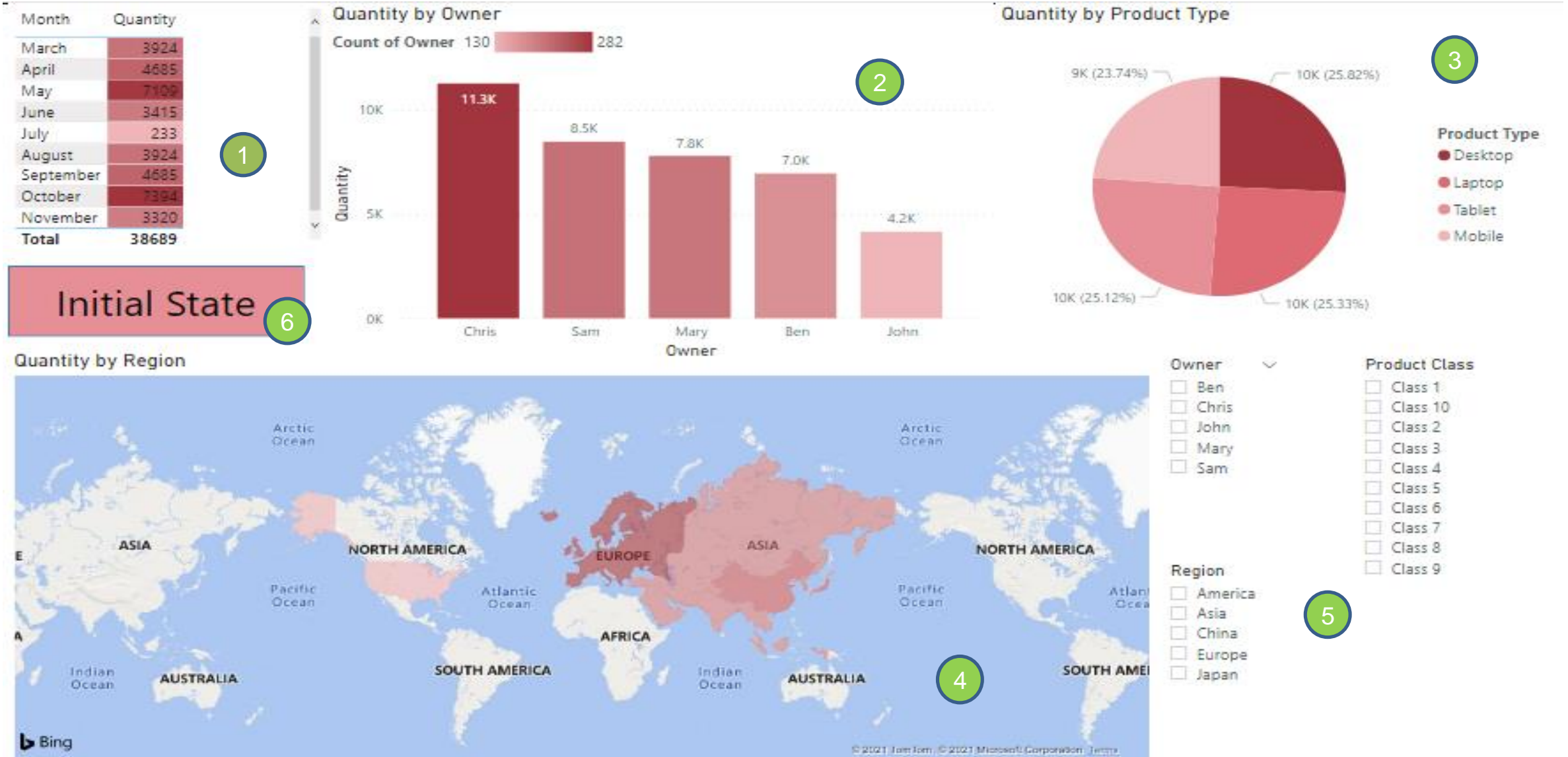
Segment ● CHANNEL PARTNERS ● ENTERPRISE ● GOVERNMENT ● MIDMARKET ● SMALL BUSINESS



Dashboard 1

1. A **Slicer** that displays **Years** and their **Months**
2. A **Line Chart** that displays **Profit by Month and Year**
3. A **Map** that displays **Profit by Country**
4. A **Clustered Column Chart** that displays **Sales by Product and Segment**
5. A **Button** created which will take us to the initial state of the dashboard by pressing **Ctrl + Click**

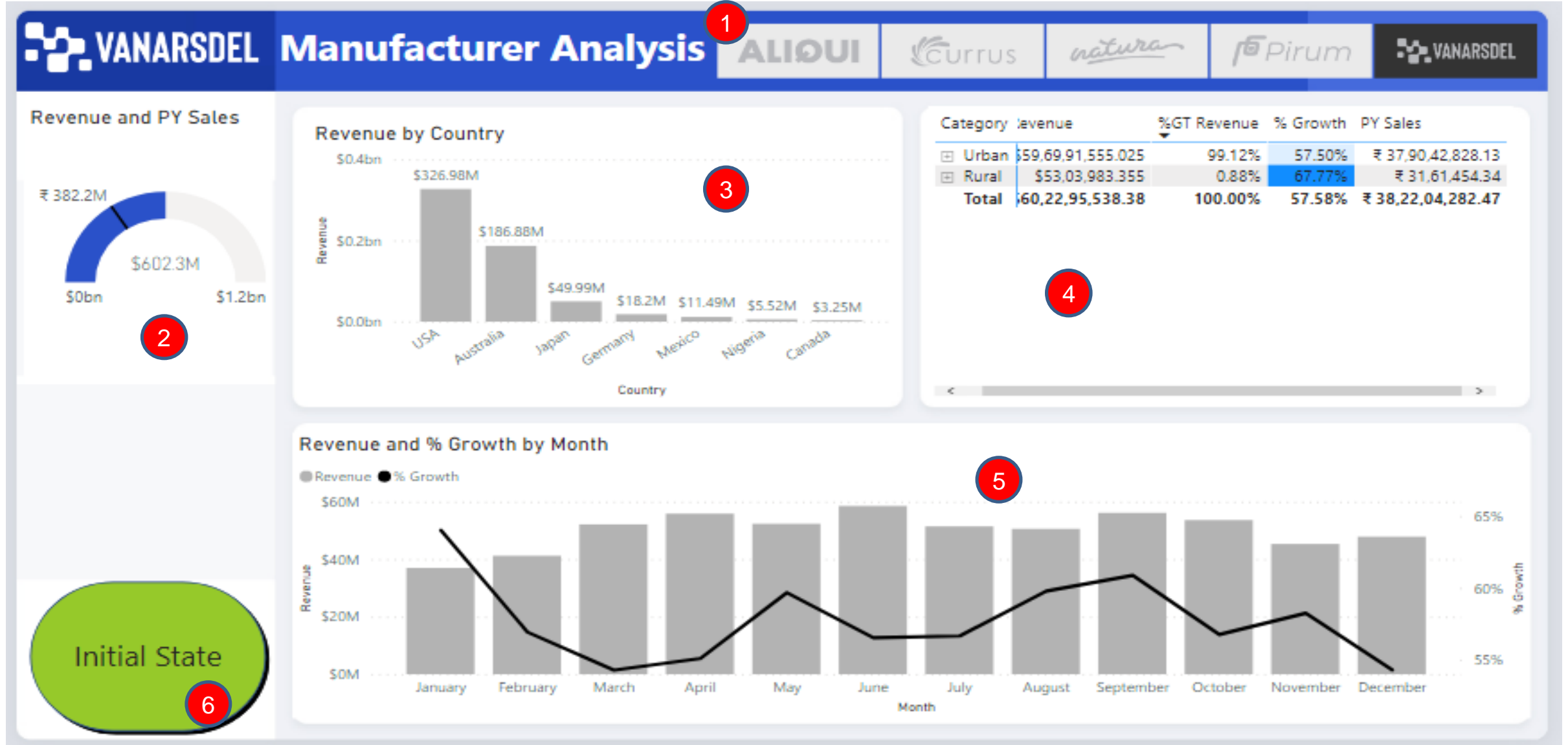
Dashboard 2



Dashboard 2

1. A **Table** that displays the **Quantity according to Month**.
2. A **Stacked Column Chart** displaying **Quantity by Owner**.
3. A **Pie Chart** displaying **Quantity by Product Type**.
4. A **Filled Map** that displays **Quantity by Region**.
5. **Slicers** that provides options to select among **Owners, Product Classes** and **Regions**.
6. A **Button** created which will take us to the initial state of the dashboard by pressing **Ctrl + Click**

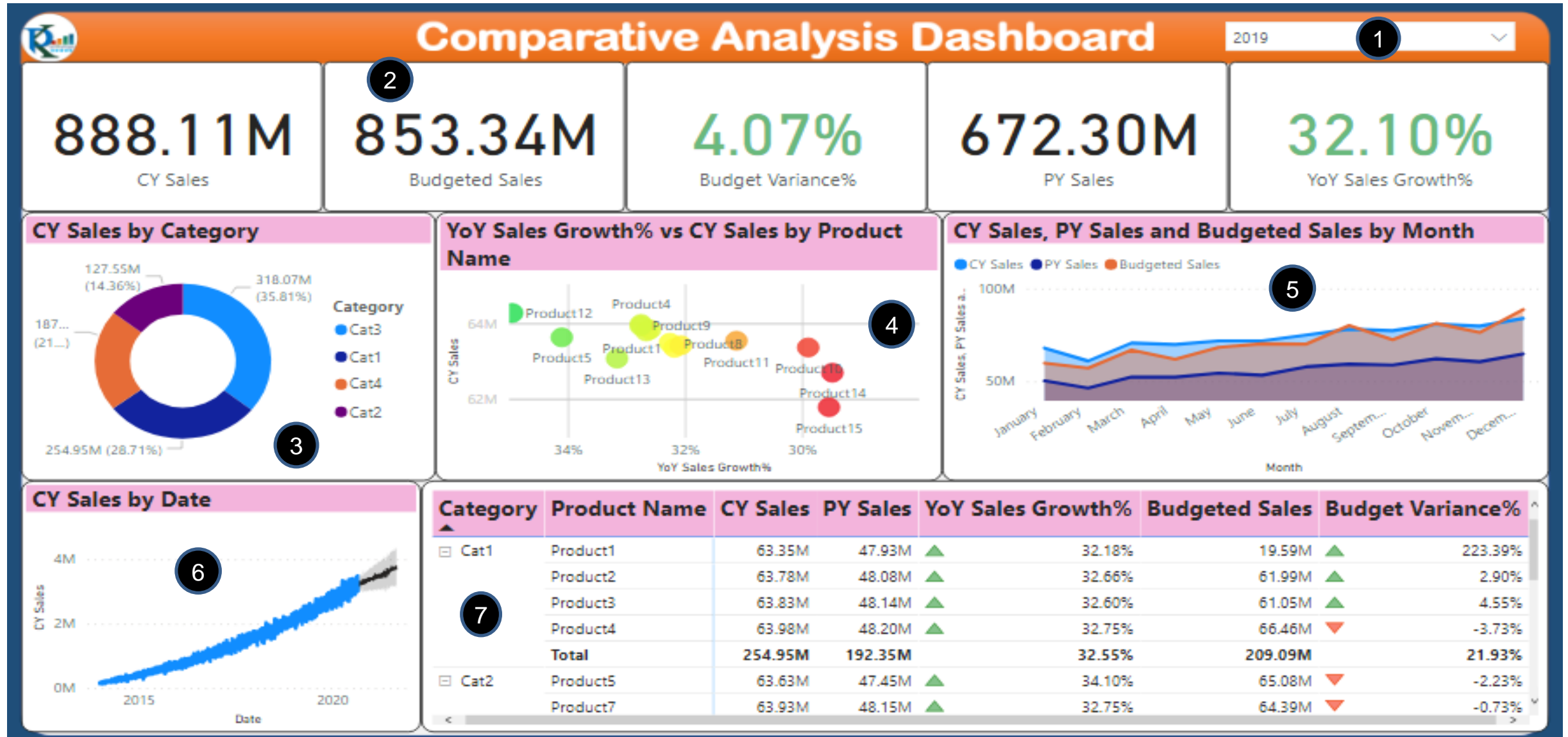
Dashboard 3



Dashboard 3

1. A **Slicer** which displays **companies' logos**.
2. A **Gauge** which is used to display **Revenue and PY Sales**.
3. A **Stacked Column Chart** which is used to display **Revenue by Country**.
4. A **Matrix** used to display Categories such as **Urban, Rural, Youth and Mix**.
5. A **Line and Clustered Column Chart** which displays **Revenue and % Growth by Month**.
6. A **Button** created which will take us to the initial state of the dashboard by pressing **Ctrl + Click**

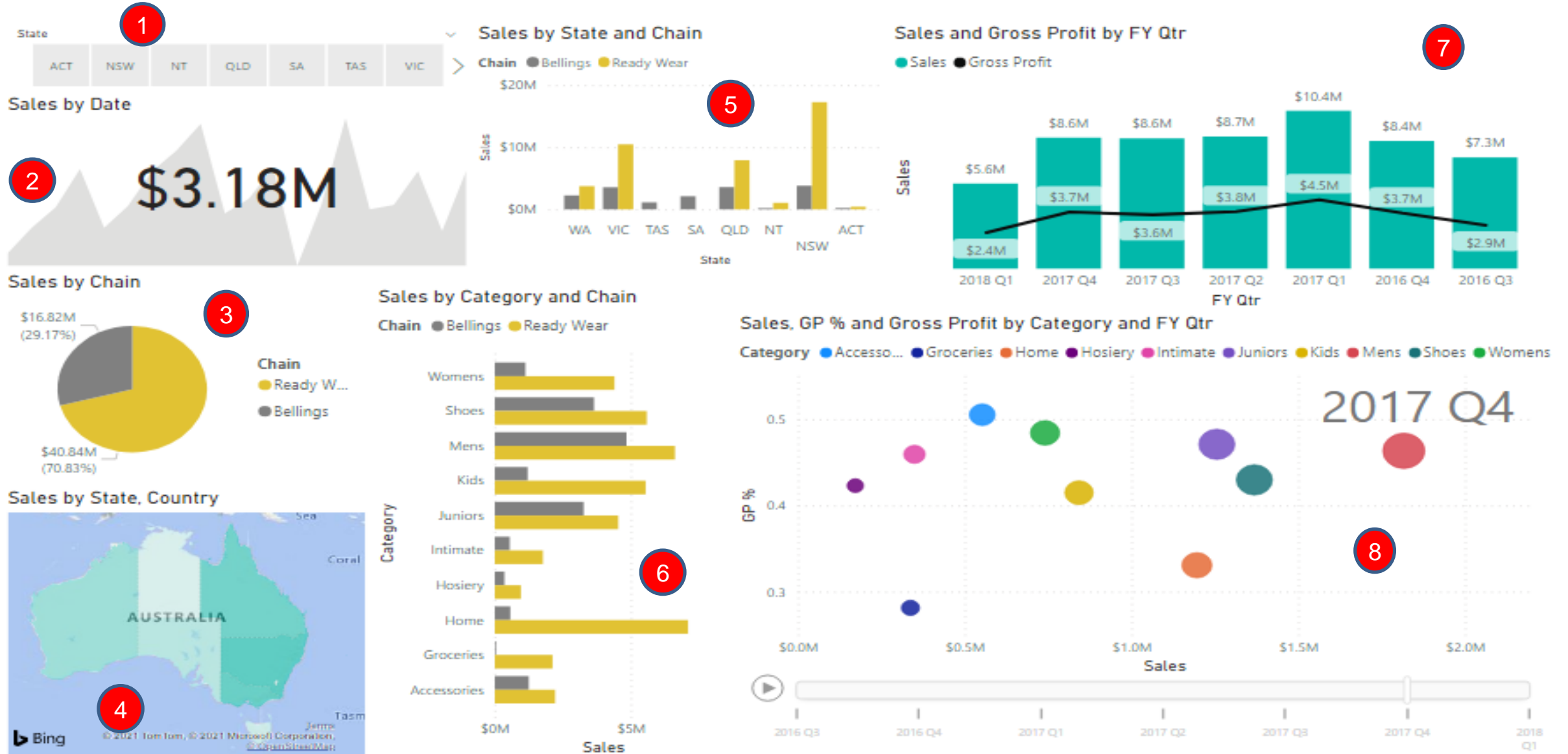
Dashboard 4



Dashboard 4

1. A **drop-down slicer** used for selecting which year's data needs to be shown.
2. 5 different **Cards** used for displaying various values: CY Sales, Budgeted Sales, Budget Variance %, PY Sales, YoY Sales Growth %; Loss will be displayed by red font and profit will be displayed by green font
3. A **Donut Chart** used to display **CY Sales by Category**.
4. A **Scatter Chart** used to display **YoY Sales Growth % vs CY Sales by Product Name**.
5. An **Area Chart** used to display **CY Sales, PY Sales and Budgeted Sales by Month**.
6. A **Line Chart** used to display **CY Sales by Date**.
7. A **Matrix** containing 4 categories. It displays **Category, Product Name, CY Sales, PY Sales, YoY Sales Growth %, Budgeted Sales and Budget Variance %**. Loss will be displayed by **red arrow** and profit will be displayed by **green arrow**.

Dashboard 5A



Dashboard 5A

1. A **Horizontal Slicer** having **State** in **Field**.
2. A **KPI** that shows us **Sales by Date**.
3. A **Pie Chart** which shows us **Sales by Chain**.
4. A **Filled Map** which shows us **Sales by State and Country**.
5. A **Clustered Column Chart** which displays **Sales by State and Chain**.
6. A **Clustered Bar Chart** which displays **Sales by Category and Chain**.
7. A **Line and Clustered Column Chart** which shows **Sales and Gross Profit by FY Qtr**.
8. A **Scatter Chart** showing **Sales, GP% and Gross Profit by Category and FY Qtr**. By clicking on this **Play button**, the bubbles start to move and hence, create a motion.

Dashboard 5B

Chain
Bellings
Ready Wear

1

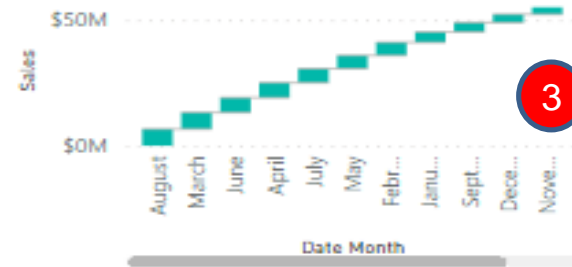
\$5,76,58,857.620000958
Sales
\$2,44,80,986.120000172
Gross Profit
0.42
GP %

2

State
ACT
NSW
NT
QLD
SA
TAS
VIC
WA

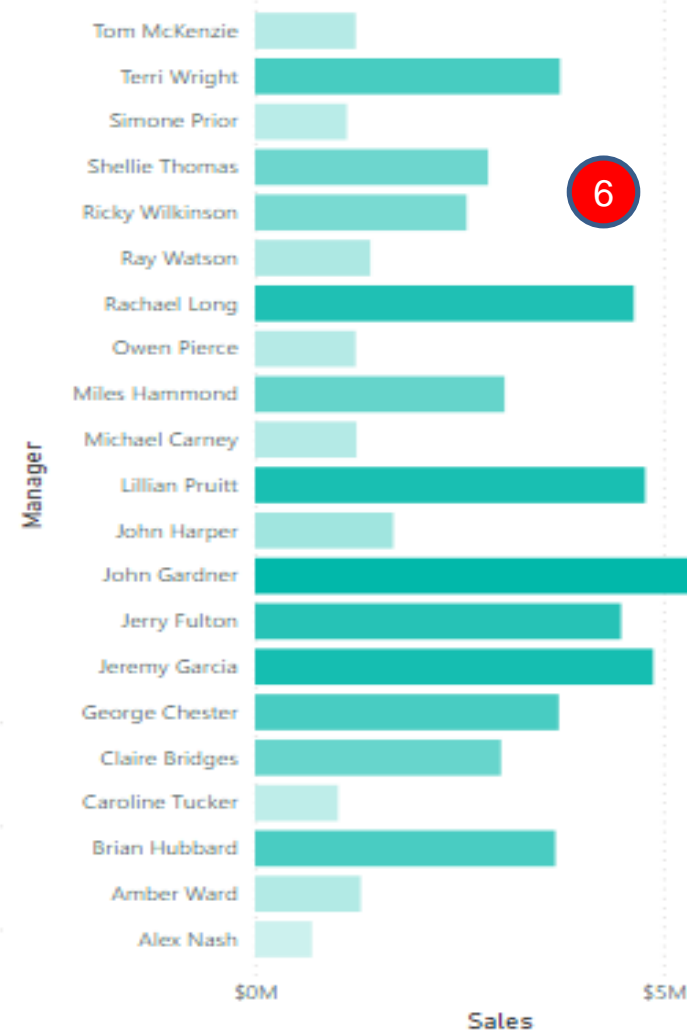
Sales by Month

Increase Decrease Total



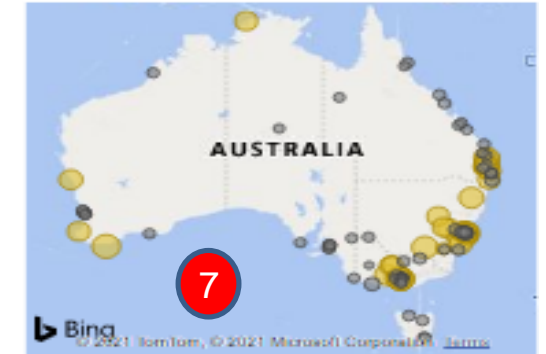
Sales and GP % by Manager

Sales \$0.7M \$5.32M



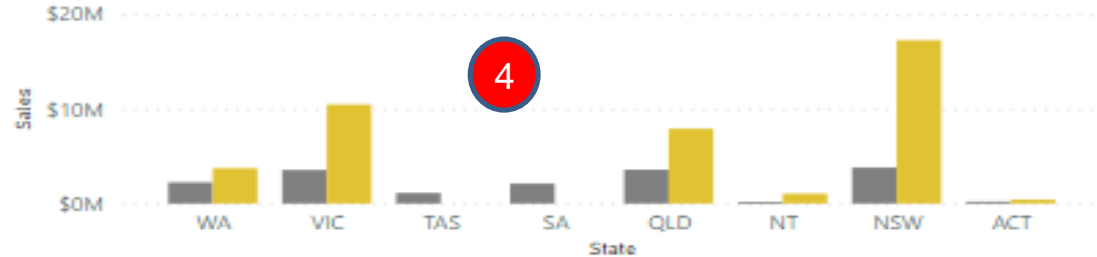
Sales by Postcode, Suburb, Country and Chain

Chain Bellings Ready Wear



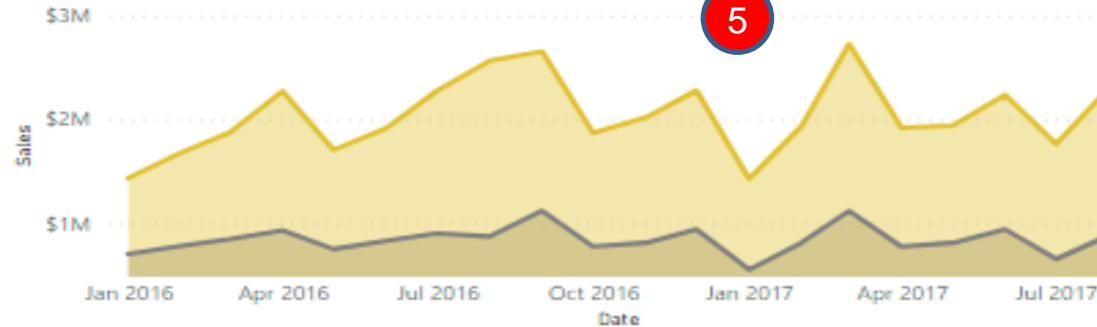
Sales by State and Chain

Chain Bellings Ready Wear

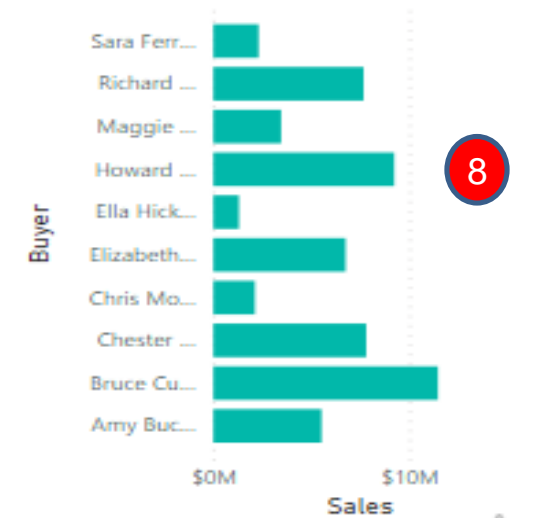


Sales by Date and Chain

Chain Bellings Ready Wear



Sales by Buyer



Dashboard 5B

1. **Slicers** displaying **Chain** and **State**.
2. A **Multi-row Card** showing **Sales**, **Gross Profit** and **GP %** and has them as **Fields** as well.
3. A **Waterfall Chart** showing **Sales by Month**.
4. A **Clustered Column Chart** showing **Sales by State** and **Chain**.
5. An **Area Chart** that shows **Sales by Date** and **Chain**.
6. A **Clustered Bar Chart** that displays **Sales** and **GP%** by **Manager**.
7. A **Map** that shows **Sales by Postcode**, **Suburb**, **Country** and **Chain**.
8. A **Clustered Bar Chart** which shows **Sales by Buyer**.

CONCLUSION

- Dashboards in Power BI are blank canvases to implement visualizations and here I created 6 of them which show various details according to individual requirements. I have learnt how to use various visualizations provided by Power BI and analyze the data.

References

- <https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-excel-stunning-report>
- <https://www.youtube.com/watch?v=BsXliHbOFDM>
- <https://www.youtube.com/watch?v=X7DsnK5bD-0>

Thank You !!