## Summer Internship Project Report On Power BI

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Guided By:Prof. Aniket Patel (Internal)
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### Submitted to Department of Computer Science & Engineering Institute of Computer Technology



**Year: 2021** 



### **CERTIFICATE**

This is to certify that the Summer Internship Project work entitled "Power BI" by Dishwa Shah (19162121038) of Ganpat University, towards the fulfillment of requirements of the degree of Bachelor of Technology – Computer Science and Engineering, carried out by her in the CSE (BDA) Department at Intas Pharmaceutical Ltd. The results/findings contained in this Project have not been submitted in part or full to any other University / Institute for award of any other Degree/Diploma.

Name & Signature of Internal Guide

Name & Signature of Head

Place: ICT - GUNI

Date:

### **ACKNOWLEDGEMENT**

Summer Internship project is a golden opportunity for learning and self-development. I consider myself very lucky and honored to have so many wonderful people lead me through in completion of this project. First and foremost, I would like to thank **Dr. Hemal Shah,** Principal, ICT, and Prof. Dharmesh Darji, Head, ICT who gave us an opportunity to undertake this project. My grateful thanks to **Prof. Aniket Patel & Mr. Sanjay Shukla (Internal & External Guides)** for their guidance in project work **Power BI**, who despite being extraordinarily busy with academics, took time out to hear, guide and keep us on the correct path. We do not know where would have been without his help. CSE department monitored our progress and arranged all facilities to make life easier. We choose this moment to acknowledge their contribution gratefully.

DISHWA SHAH (Enrollment No: 19162121038)

### **ABSTRACT**

By creating dashboards using Power BI which is a business analytics service by Microsoft, we can analyze the data and tell a story through visualizations which is exactly what I have done through this internship. It has helped me a lot and has taken the world of BI and Data Visualization. It has become a serious platform for use in small and medium organizations. Its Quick Insights feature is one of the best features. The entire platform is built on growing a set of advanced analytical algorithms. It can build multiple reports without any need of human intervention. This report is meant to show how effortlessly a dataset can be transferred visualized dashboard which can also be shared with to ease.

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**CHAPTER 1: INTRODUCTION** 

### **CHAPTER 1: INTRODUCTION**

Power BI is a tool for data visualization that converts data from sources like Excel and SQL to interactive dashboards and reports. Being a data science student, I found it very helpful to learn how to create such dashboards and I have created 6 of them which will be explained in detail in this report.

The tools we had to use to make this report are:

- Microsoft Excel
- Microsoft Power BI

**CHAPTER 2: PROJECT SCOPE** 

### **CHAPTER 2: PROJECT SCOPE**

The project is limited to only Microsoft Power BI. It can be used to create dashboards, reports and analyzing and organizing datasets.

Power BI developers can be recruited as data analysts, software engineers and developers and business analysts as well.

CHAPTER	3: SOFTWARE A	AND HARDWAR	RE REQUIREMENTS

### **CHAPTER 3: SOFTWARE AND HARDWARE REQUIREMENTS**

### **Minimum Hardware Requirements**

Processor	1.0 GHz x64
RAM	2GB
HDD	1GB

Table 3.1 Minimum Hardware Requirements

### **Minimum Software Requirements**

Operating System	Windows 7 / Windows Server 2008 R2, or later
Programming language	DAX, M and R for users who want to go beyond the options presented by GUI
Other tools & tech	Microsoft Power BI

Table 3.2 Minimum Software Requirements

**CHAPTER 4: PROCESS MODEL** 

### **CHAPTER 4: PROCESS MODEL**

# Power Bi Desktop Company's Data

**CHAPTER 5: PROJECT PLAN** 

### **CHAPTER 5: PROJECT PLAN**

### **5.1 List of Major Activities**

Task: 1. Download Power BI Desktop

Task: 2. Install Power BI Desktop

Task: 3. Import data to Power BI Dashboard

Task: 4. Format and clean the data in Power BI Dashboard Task: 5. Create Data Visualization in Power BI Dashboard

### **5.2 Estimated Time Duration in Hours**

Task: 1. Less than an hour

Task: 2. Less than an hour

Task: 3. 0.5 hours

Task: 4. 1 hour (depends on the size of data)

Task: 5. 4-5 hours (depends on the requirements of client)

**CHAPTER 6: DASHBOARDS** 

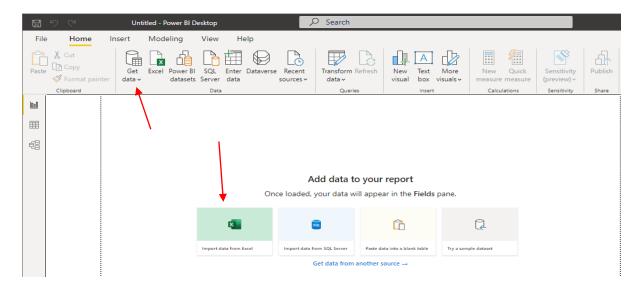
### HOW TO DOWNLOAD AND INSTALL POWER BI DESKTOP?

To download Power BI Desktop, visit the following link: <a href="https://www.microsoft.com/store/productId/9NTXR16HNW1T">https://www.microsoft.com/store/productId/9NTXR16HNW1T</a>

Once the download is completed, install the tool on your device to use it for free. You can also get the licensed version if you want to use some exclusive graphics.

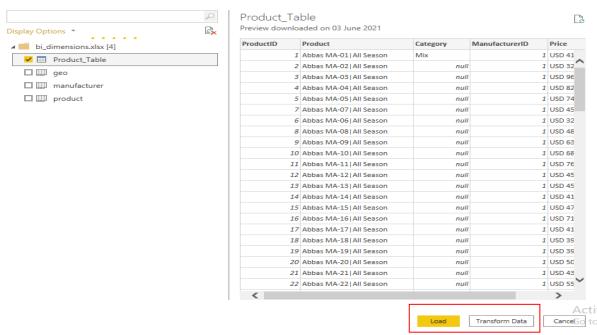
### HOW TO IMPORT DATA FROM EXCEL?

Step 1: To import data from Excel, you can either click on 'Get data' on the ribbon or on 'Import data from Excel' on the workspace.



Step 2: Once you select .xlsx file you want to open, it will redirect you to the following page.

Navigator



Step 3: If you want to clean or format the data, click on 'Transform Data', otherwise click on 'Load' to start working on the connections and visualizations.

### FORMATTING/CLEANING THE DATA:

Deleting unnecessary items or columns from the tables is called cleaning the data. It includes:

- Deleting unnecessary columns
- Changing data types of various columns
- Changing format of date
- Filtering data according to the requirements
- Hiding columns from the report and many more...

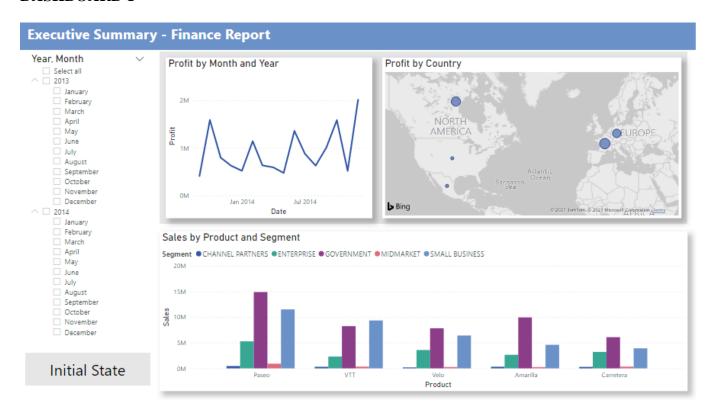
•

Renaming or adding rows and measures and various other functions are included in formatting the data. It includes:

- Adding and renaming columns
- Using DAX to add new columns or measures
- Creating new tables
- Adding currency to values and many more...

In each dashboard, hierarchy, filters, connection models, themes, backgrounds and logos have been applied.

### **DASHBOARD 1**



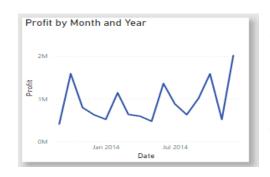
To create this dashboard, we have these 2 tables and their columns:

- i. Calendar
  - Date
- ii. Financials
  - Segment
  - Country
  - Product
  - Discount Band
  - Units Sold
  - Manufacturing Price
  - Sale Price
  - Gross Sales
  - Discounts
  - Sales
  - COGS
  - Profit
  - Date
  - Month Number
  - Month
  - Year

Now, let us get into the details of the content of this dashboard:

Select all   2013   In Field section of Visualizations, Year and Month are placed.	Year, Month $\vee$	1) This is a <b>Slicer</b> that displays <b>Years</b> and their <b>Months</b> .
January   February   March   April   July   Lanuary   September   December   December   Danuary   February   March   April   May   June   July   June   July   August   September   December   Decem	Select all	in the stable of that displays reals and then months.
February   March   April   May   June   December   December   December   April   January   February   March   April   June   J	^ □ 2013	
March   April   This is how other content will get affected if we focus only on March of 2014 in this slicer:   August   September   October   November   December   December   December   January   February   March   April   May   June   July   August   September   Sep	☐ January	In Field section of Visualizations, Voor and Month are placed
April May This is how other content will get affected if we focus only on March of 2014 in this slicer:    June	☐ February	in <b>Field</b> section of Visualizations, <b>Fear</b> and <b>Worth</b> are placed.
May   This is how other content will get affected if we focus only on March of 2014 in this slicer:   July   September   October   November   December     December   January   February   March   April   May   June   July   August   September     September	☐ March	
June   Slicer:   July   Slicer:   September   October   December   December   December   Junary   February   March   April   May   June   July   August   September   Septem	☐ April	TI: 1 4 4 11 4 66 4 1 6 6 1 1 M 1 60014 11
July   SIICET:   August   September   October   November   December     December   Department   December   December     January   February   March   April   May   June   July   August   September     SIICET:		This is now other content will get affected if we focus only on March of 2014 in this
August   September   October   November   December   December   January   February   March   April   May   June   July   August   September   Septem		clicer.
September   October   November   December   December		Sheer.
October	☐ August	
November   December   December		
December		
2014		
January     February     March     May   June   July   August   September		
February		
March     April       May       July     August     September		
April     May     June     July     August     September	-	
May		
June   July   August   September		
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☐ August ☐ September		
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	_	
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November		
December		
received	becember	

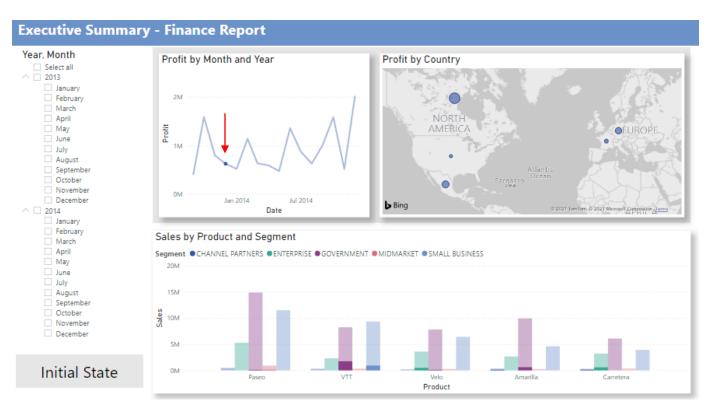




### 2) This is a **Line Chart** that displays **Profit by Month and Year.**

In **Axis** section of Visualizations, **Date** is placed and in **Values** section, **Profit** is placed.

This is how other content will get affected if we focus only on this time period in this chart:

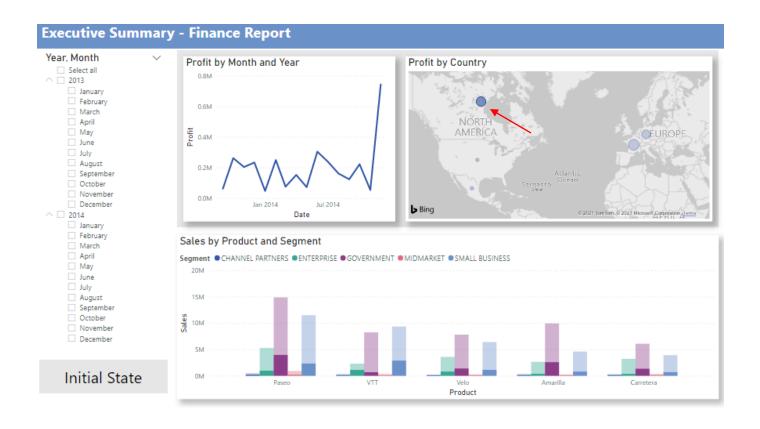




### <u>3)</u> This is a **Map** that displays **Profit by Country**.

In **Location** section of Visualizations, **Country** is placed and in **Size** section, **Profit** is placed.

This is how other content will get affected if we focus only on this region in this chart:

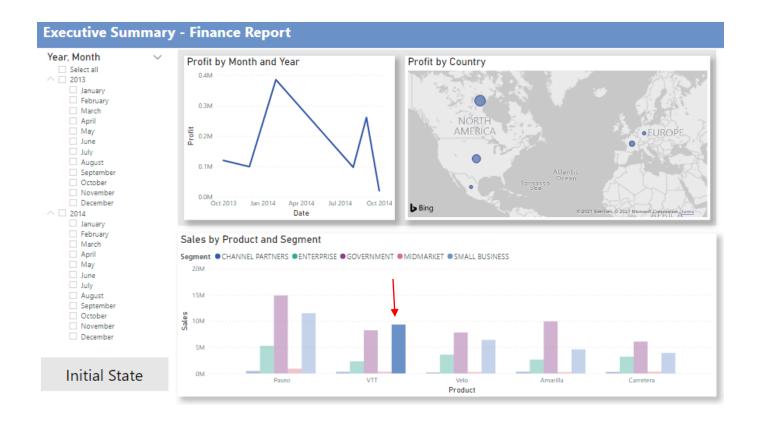


### 4) This is a Clustered Column Chart that displays Sales by Product and Segment.



In **Axis** section of Visualizations, **Product** is placed; in **Legend** section, **Segment** is placed and in **Values** section, **Sales** is placed.

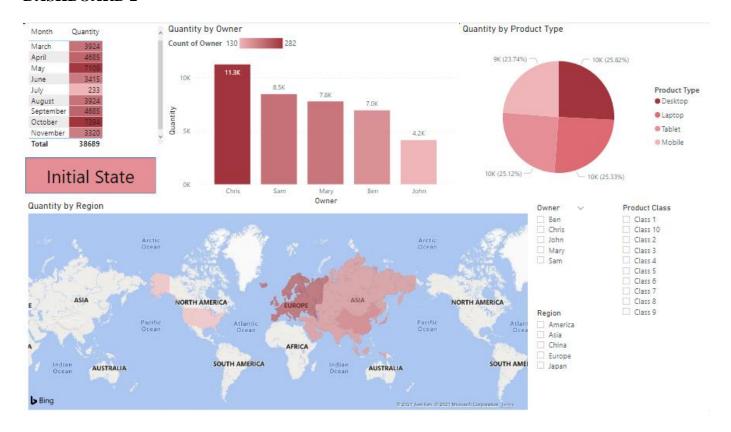
This is how other content will get affected if we focus only on Small Business of VTT in this chart:



**Initial State** 

<u>5)</u> This is button created using 'Shapes' which will take us to the initial state of the dashboard by pressing 'Ctrl + Click'. Create a **bookmark** at initial state and set it as an **Action** in the shape.

### **DASHBOARD 2**



To create this dashboard, we have this table and its columns:

- i. Data
  - Product Type
  - Part Number
  - Month of Order
  - Date of Order
  - Product Class
  - Region
  - Owner
  - Worldwide Customer Name
  - Quantity
  - Date of Delivery

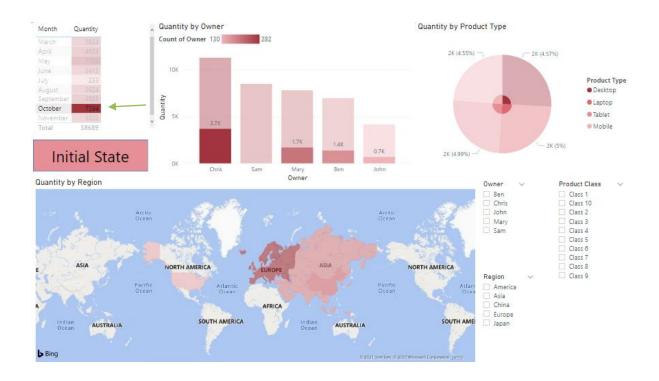
Now, let us get into the details of the content of this dashboard:

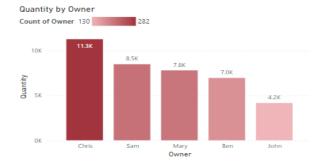
Month	Quantity
March	3924
April	4685
May	7109
June	3415
July	233
August	3924
September	4685
October	7394
November	3320
Total	38689

1) This is a **Table** that displays the **Quantity according to Month**.

In Values section of Visualizations, Month of Order (Month) and Quantity are placed.

This is how other content will get affected if we focus only on October in this table:





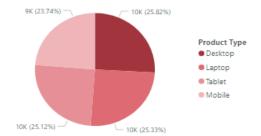
### <u>2)</u> This is a **Stacked Column Chart** displaying **Quantity by Owner.**

In **Axis** section of Visualizations, **Owner** and in **Values** section, **Quantity** is placed.

This is how other content will get affected if we focus only on Ben:



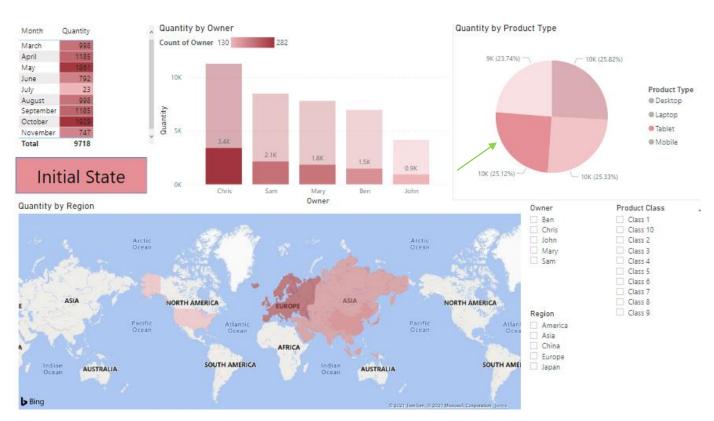
### Quantity by Product Type



This is a Pie Chart displaying Quantity by Product Type.

In **Legend** section of Visualizations, **Product Type** is placed and in **Values** section, **Quantity** is placed.

This is how other content will get affected if we focus only on Tablet:

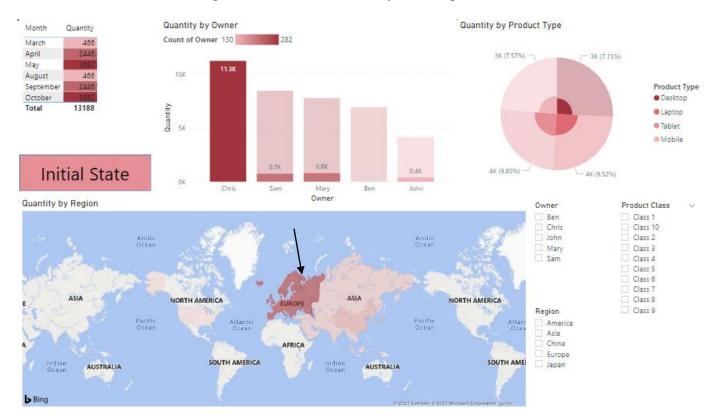


### 3) This is a Filled Map that displays Quantity by Region.



In **Location** section of Visualizations, **Region** is placed and in **Tooltips** section, **Quantity** is placed.

This is how other content will get affected if we focus only on Europe:

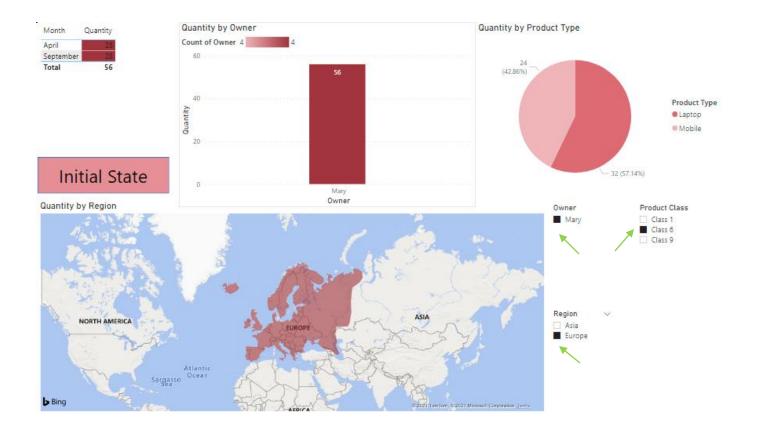


Owner ∨	Product Cla
Ben	Class 1
Chris	Class 10
John	Class 2
☐ Mary	Class 3
Sam	Class 4
	Class 5
	Class 6
	Class 7
	Class 8
Region	Class 9
<ul> <li>America</li> </ul>	
Asia	
China	

☐ Europe ☐ Japan <u>4)</u> These are **Slicers** that provides options to select among **Owners**, **Product Classes** and **Regions**.

In **Field** section of Visualizations, **Owner**, **Region** and **Product Class** are placed.

This is how other content will get affected if we select Mary as an owner, Europe as region and Class 6 as a Product Class:



Initial State

<u>5)</u> This is button created using 'Shapes' which will take us to the initial state of the dashboard by pressing 'Ctrl + Click'. Create a **bookmark** at initial state and set it as an **Action** in the shape.

### **DASHBOARD 3**



To create this dashboard, we have these 5 tables and their columns:

- i. Date
  - Date
- ii. Geography
  - Zip
  - City
  - State
  - Region
  - District
  - Country
  - ZipCountry
- iii. Manufacturer
  - Manufacturer ID
  - Manufacturer
  - Logo
  - Manufacturer (groups)
- iv. Product
  - Product ID
  - Category
  - Product
  - Segment
  - MSRP
  - Currency
- v. Sales
  - Product ID
  - Date

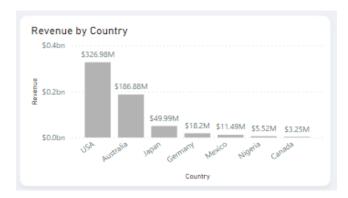
- Zip
- Units
- Revenue
- Country
- ZipCountry

Now, let us get into the details of the content of this dashboard:



1) This is a Gauge which is used to display Revenue and PY Sales.

In **Value** section of Visualizations, **Revenue** is placed. In **Target Value** section of Visualizations, **PY Sales** is placed.



<u>2)</u> This is a Stacked Column Chart which is used to display Revenue by Country.

In **Axis** section of Visualizations, **Country, State** and **District** are placed.

In **Values** section of Visualizations, **Revenue** is placed.

This is how other content will get affected if we focus only on Japan in this chart:



Category	levenue	%GT Revenue	% Growth	PY Sales
⊕ Urban	59,69,91,555.025	99.12%	57.50%	₹ 37,90,42,828.13
⊕ Rural	\$53,03,983.355	0.88%	67.77%	₹ 31,61,454.34
Total	60,22,95,538.38	100.00%	57.58%	₹38,22,04,282.47

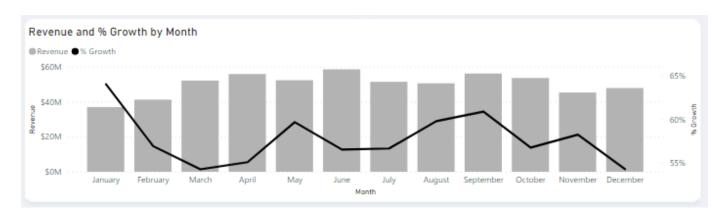
<u>3)</u> This is a **Matrix** used to display Categories such as **Urban**, **Rural**, **Youth** and **Mix**.

It displays and contains hierarchy of Category, Segment and Product and contains values as Revenue, % GT Revenue, % Growth and PY Sales.

This is how other content will get affected if we focus only on Extreme under Urban in this matrix:

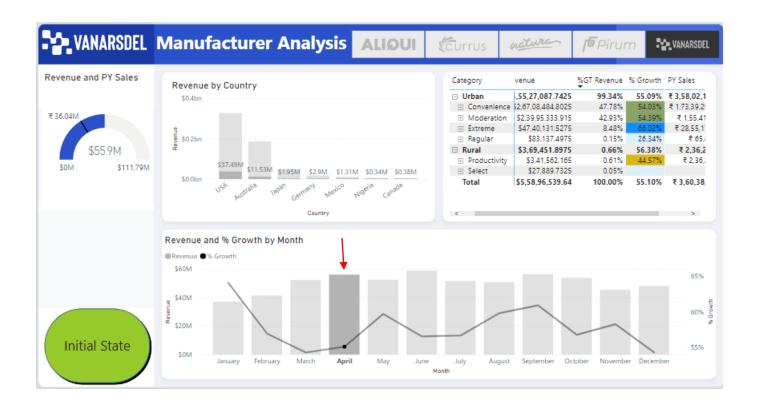


4) This is Line and Clustered Column Chart which displays Revenue and % Growth by Month.



In **Shared Axis** section of Visualizations, **Date (Year, Quarter, Month, Day)** is placed. In **Column Values and Line Values** sections of Visualizations, **Revenue and % Growth** are placed respectively.

This is how other content will get affected if we focus only on April in this chart:



5) This is a slicer which displays companies' logos.



In  $\boldsymbol{Fields}$  section of Visualizations,  $\boldsymbol{Logo}$  is placed.

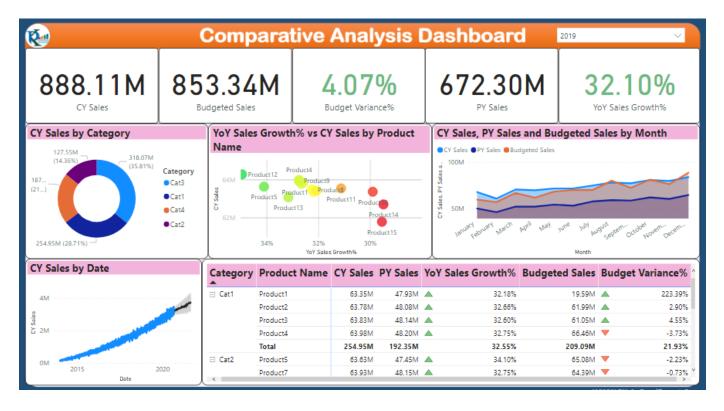
This is how other content will get affected if we focus only on Natura in this sicer:





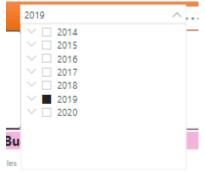
<u>6)</u> This is button created using 'Shapes' which will take us to the initial state of the dashboard by pressing 'Ctrl + Click'. Create a **bookmark** at initial state and set it as an **Action** in the shape.

### **DASHBOARD 4**



To create this dashboard, we have these 4 tables and their columns:

- i. Budget
  - Month
  - ProductId
  - Budgeted Amt
- ii. Date Dimension
  - Date
  - Year
  - Month
  - Qtr
  - Month No.
- iii. Product Master
  - ProductId
  - Product Name
  - Category
- iv. Sales
  - Date
  - ProductId
  - Sale Amount

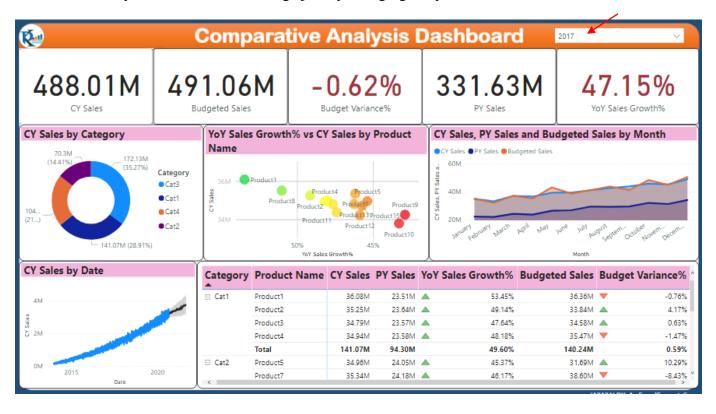


Now, let us get into the details of the content of this dashboard:

<u>1</u>) This is a **drop-down slicer** used for selecting which year's data needs to be shown.

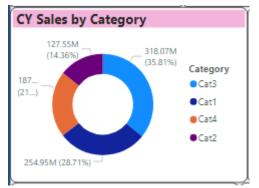
In the **Field** section of Visualizations, **Year**, **Qtr** and **Month** are placed.

Here is how every other content will change just by changing the year from 2019 to 2017:



- 2) These are 5 different Cards used for displaying various values:
  - CY Sales: Field section in Visualizations is occupied by CY Sales.
  - Budgeted Sales: Field section in Visualizations is occupied by Budgeted Sales.
  - Budget Variance %: **Field** section in Visualizations is occupied by **Budget Variance** %. Loss will be displayed by red font and profit will be displayed by green font
  - PY Sales: Field section in Visualizations is occupied by PY Sales.
  - YoY Sales Growth %: Field section in Visualization is occupied by YoY Sales Growth %.
     Loss will be displayed by red font and profit will be displayed by green font

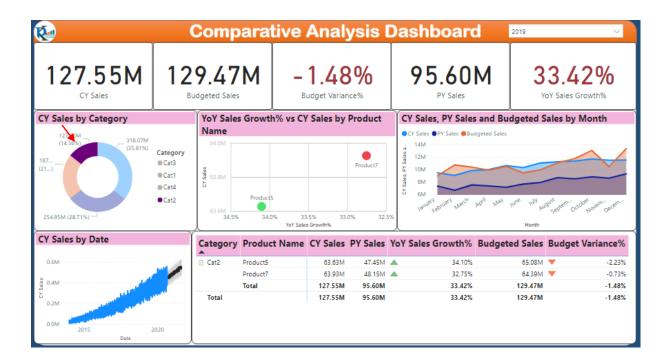


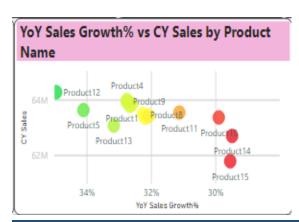


### 3) This is a **Donut Chart** used to display **CY Sales by Category.**

In the **Legend** section of Visualizations, **Category** is placed. In the **Values** section of Visualizations, **CY Sales** is placed.

Here is how every other content will change just by focusing on Cat2 of Donut Chart:





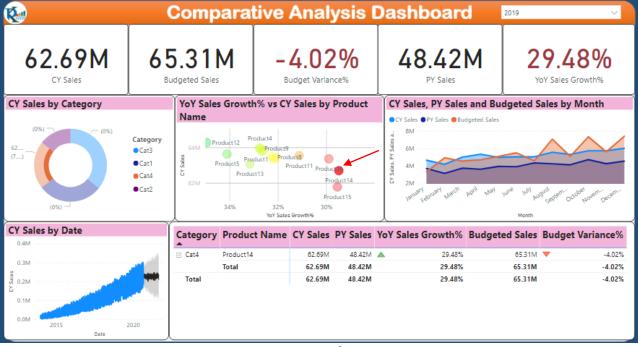
<u>4)</u> This is a **Scatter Chart** used to display **YoY Sales Growth % vs CY Sales by Product Name**.

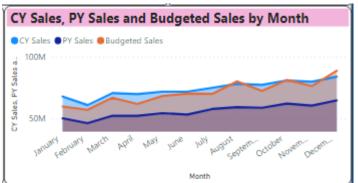
In the **Details** section of Visualizations, **Product Name** is placed.

In the **X** Axis section of Visualizations, **YoY** Sales Growth % is placed.

In the Y Axis section of Visualizations, CY Sales is placed.

Here is how every other content will change just by focusing on Product14 of Scatter Chart:



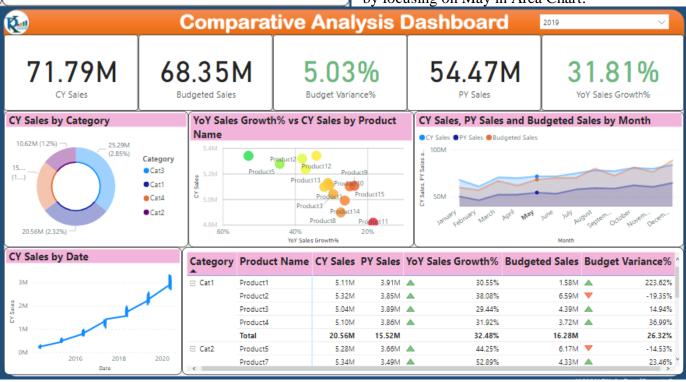


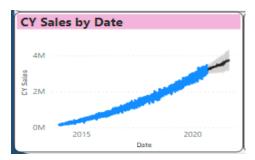
<u>5)</u> This is an **Area Chart** used to display **CY Sales**, **PY Sales and Budgeted Sales by Month**.

In the **Axis** section of Visualizations, **Month** is placed.

In the Values section of Visualizations, CY Sales, PY Sales and Budgeted Sales are placed.

Here is how every other content will change just by focusing on May in Area Chart:

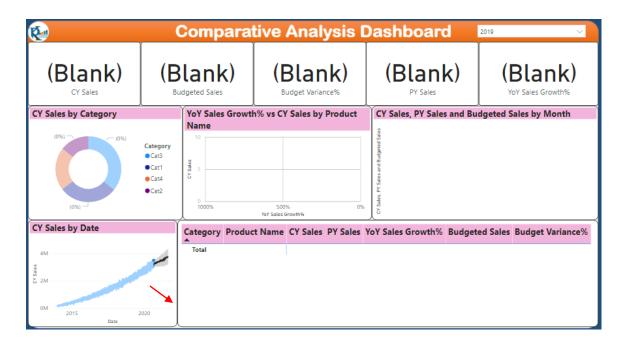




<u>6</u>) This is a **Line Chart** used to display **CY Sales by Date**.

In the **Axis** section of Visualizations, **Date** is placed. In the **Values** section of Visualizations, **CY Sales** is placed. There is no filter according to year slicer.

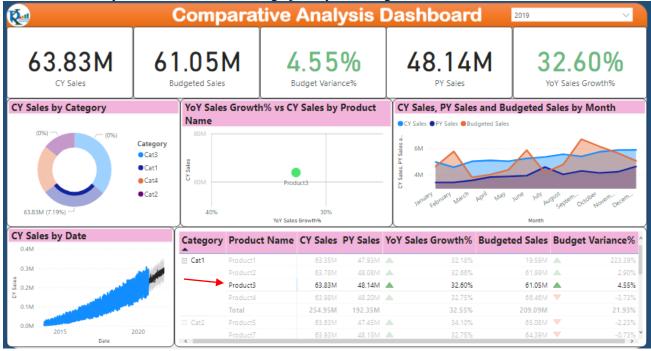
Here is how every other content will change just by focusing on a year other than 2019 in Line Chart:



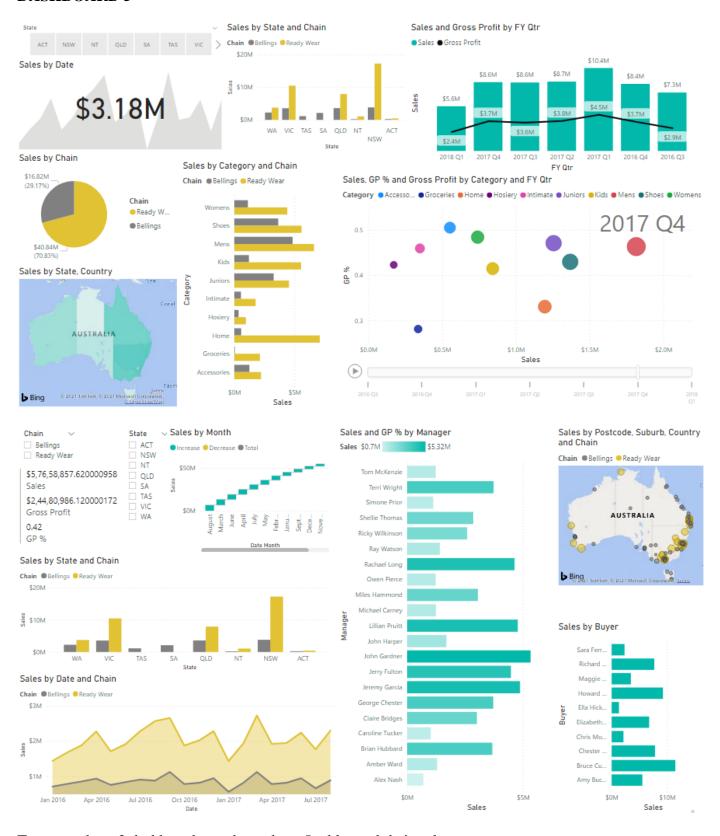
7) This is a Matrix containing 4 categories. It displays Category, Product Name, CY Sales, PY Sales, YoY Sales Growth %, Budgeted Sales and Budget Variance %.



Here is how every other content will change just by focusing on Product3 of Cat1 in Matrix:



### **DASHBOARD 5**



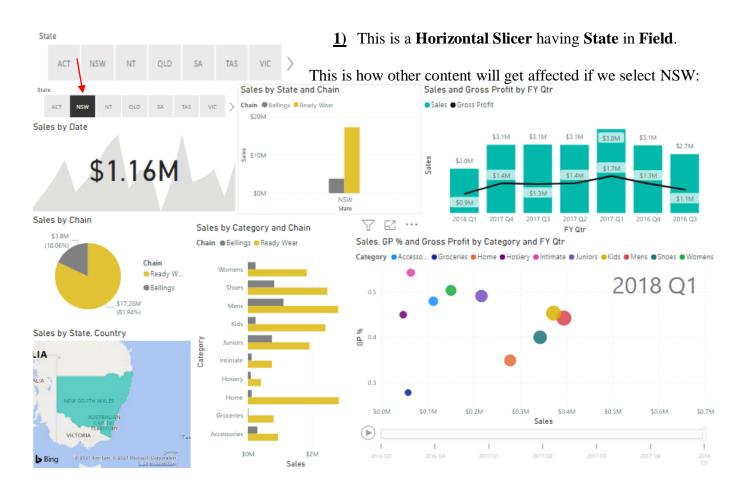
To create these 2 dashboards, we have these 5 tables and their columns:

- i. Buyers
  - Category

- Buyer
- ii. Dates
  - Date
  - Financial Year
  - FY Qtr
  - FY Month
- iii. Managers
  - Suburb
  - Postcode
  - Manager
- iv. Regions
  - State
  - Suburb
  - Postcode
  - State, Country
  - Postcode, Suburb, Country
- v. Sales
  - Date
  - Chain
  - Postcode
  - Category
  - Total Units
  - Sale Price
  - Cost Price
  - Sales
  - Cost
  - Gross Profit

Now, let us get into the details of the content of these dashboards:

### **DASHBOARD 5A: SUMMARY**



\$3.18M

2) This is **KPI** that shows us **Sales by Date**.

It has **Sales** in **Indicator** and **Date** in **Trend Axis** in Visualizations section.

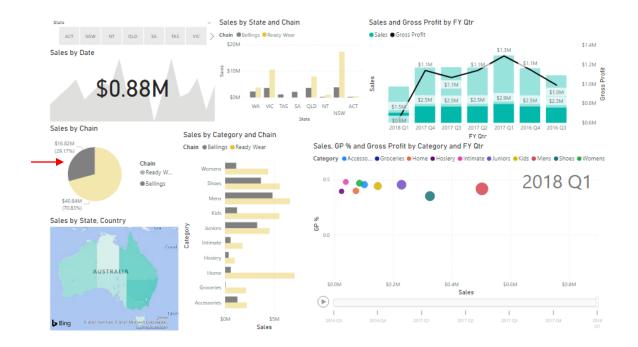
\$16.82M (29.17%) Chain Ready W... Bellings

(70.83%)

<u>3)</u> This is a **Pie Chart** which shows us **Sales by Chain**.

It has **Chain** in **Legend** and **Sales** in **Values** in Visualizations section.

This is how other content will get affected if we select Bellings:

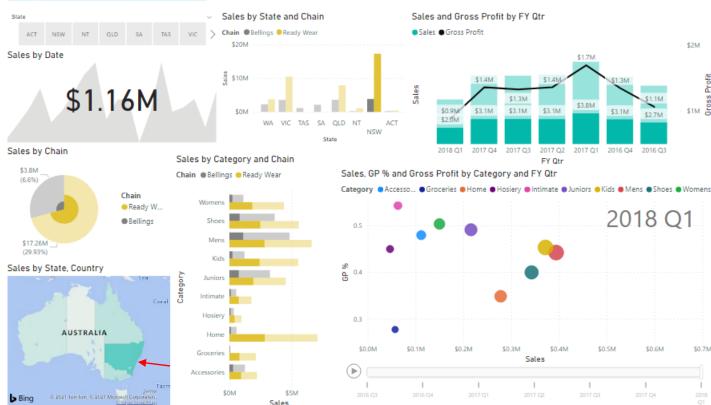


# Sales by State, Country See Coral AUSTRALIA Particular See Coral AUSTRALIA Description (Corporation) Countries (C

# <u>4)</u> This is a **Filled Map** which shows us **Sales by State and Country.**

It has **State** and **Country** in **Location** and **Sales** in **Tooltip** in Visualizations section.

This is how other content will get affected if we select this region:



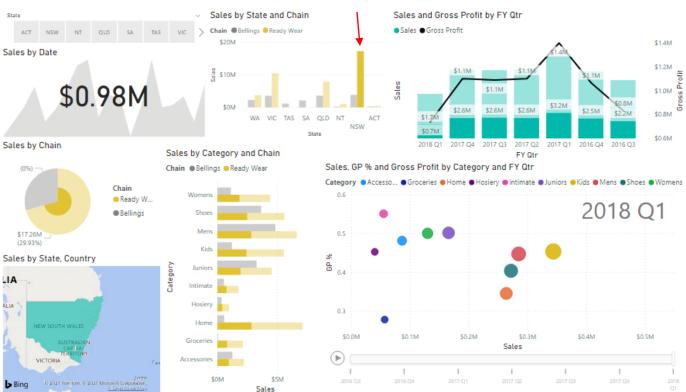
### Sales by State and Chain

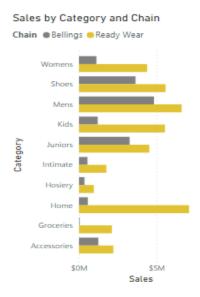


# <u>5)</u> This is a **Clustered Column Chart** which displays **Sales by State and Chain.**

It has **State** in **Axis**, **Chain** in **Legend** and **Sales** in **Values** in Visualizations section.

This is how other content will get affected if we select Ready Wear in NSW:

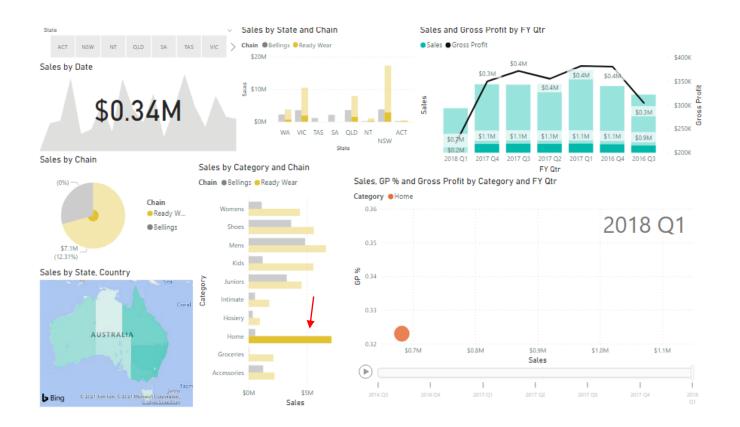




# <u>6)</u> This is a **Clustered Bar Chart** which displays **Sales by Category** and **Chain**.

It has **Category** in **Axis**, **Chain** in **Legend** and **Sales** in **Values** in Visualizations section.

This is how other content will get affected if we select Ready Wear in Home:

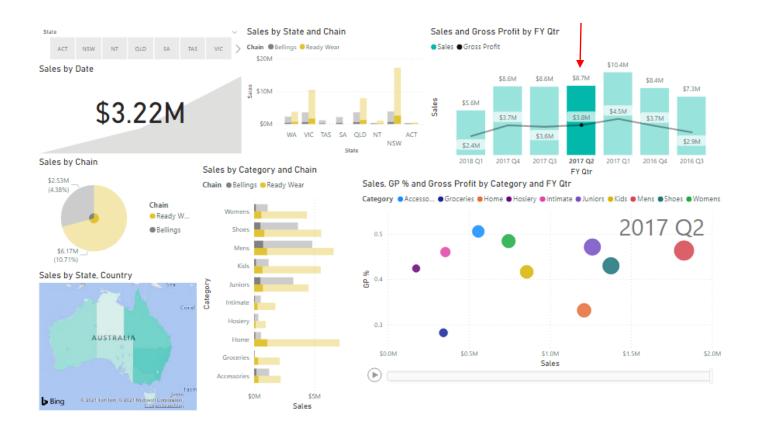




7) This is a Line and Clustered Column Chart which shows Sales and Gross Profit by FY Qtr.

It has **FY Qtr** in **Shared Axis**, **Sales** in **Column Values** and **Gross Profit** in **Line Values** in Visualizations section.

This is how other content will get affected if we select 2017 Qtr2:





**8)** This is a Scatter Chart showing Sales, GP% and Gross Profit by Category and FY Qtr.

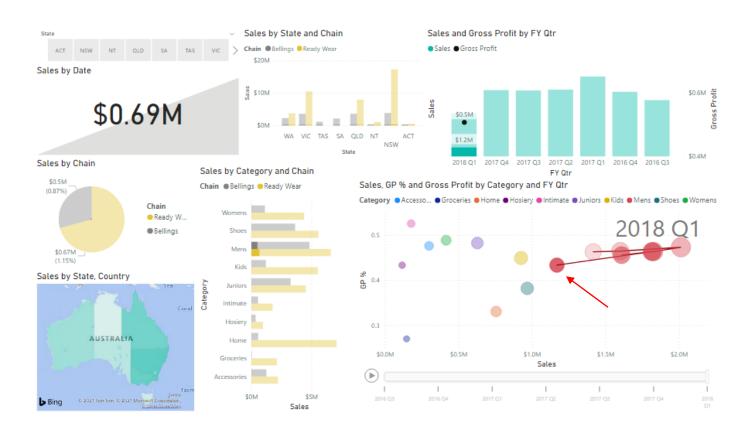
It has Category in Legend, Sales in X Axis, and GP % in Y Axis, Gross Profit in Size and FY Qtr in Play Axis in Visualizations section.

By clicking on this Play button, the bubbles start to move and hence, create a motion.

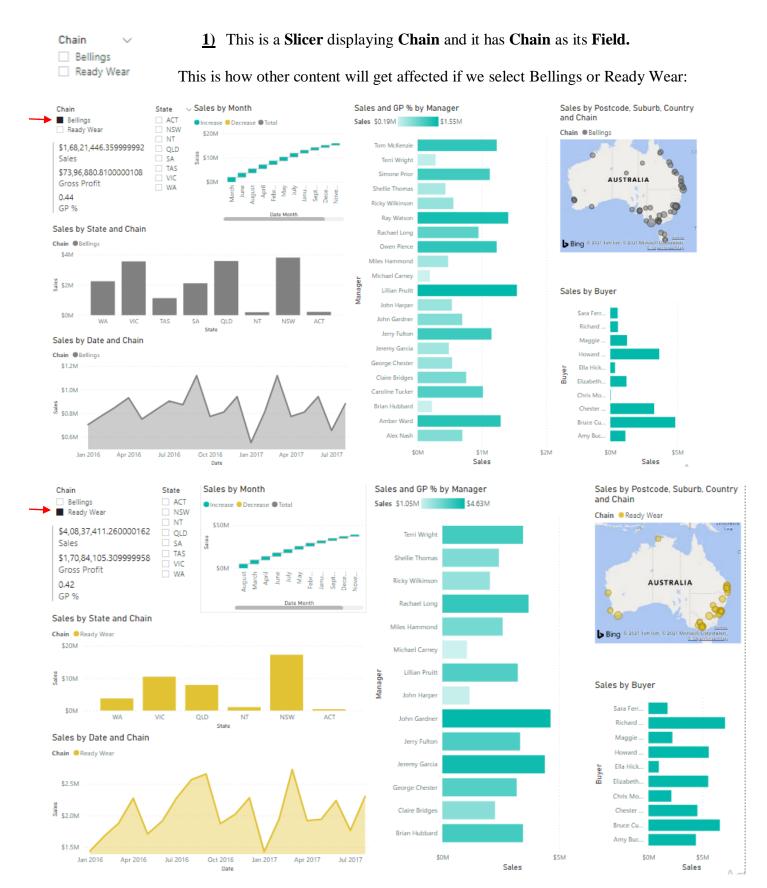
This is what it looks like after some motion:

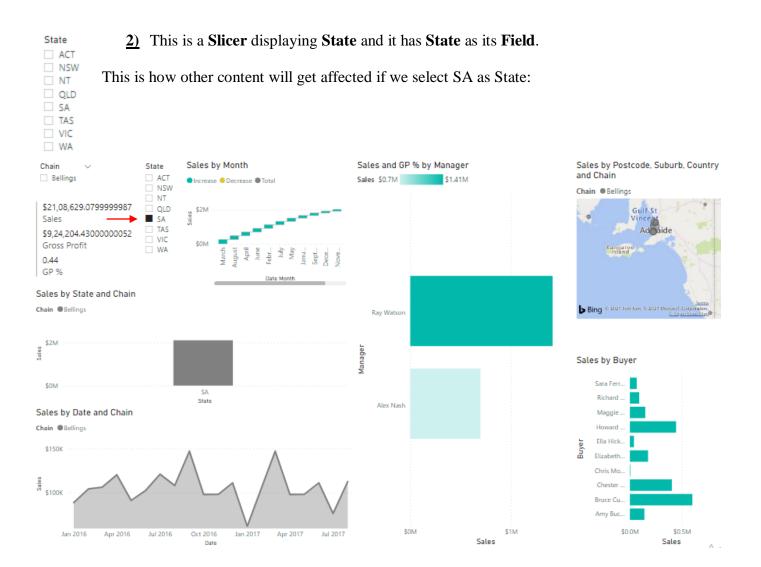


# This is how other content will get affected if we select Men:



# **DASHBOARD 5B: REGIONS AND CHAINS**





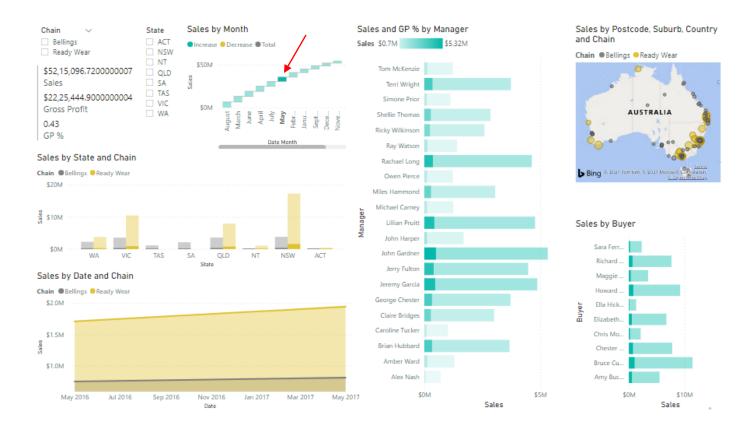
\$5,76,58,857.620000958 Sales \$2,44,80,986.120000172 Gross Profit 0.42 GP % <u>3)</u> This is a **Multi-row Card** showing **Sales, Gross Profit** and **GP** % and has them as **Fields** as well.

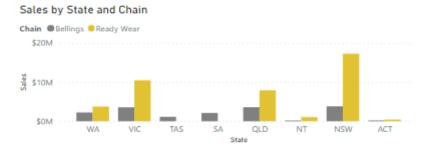


<u>4)</u> This is a Waterfall Chart showing Sales by Month.

It has **Date** (**Year**, **Quarter**, **Month**, **Day**) in **Category** and **Sales** in **Values**.

This is how other content will get affected if we select May:



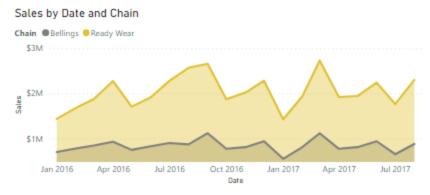


<u>5)</u> This is a **Clustered Column Chart** showing **Sales by State an Chain**.

It has **State** in **Axis**, **Chain** in **Legend** and **Sales** in **Values** in Visualizations section.

This is how other content will get affected if we select Ready Wear in NSW:

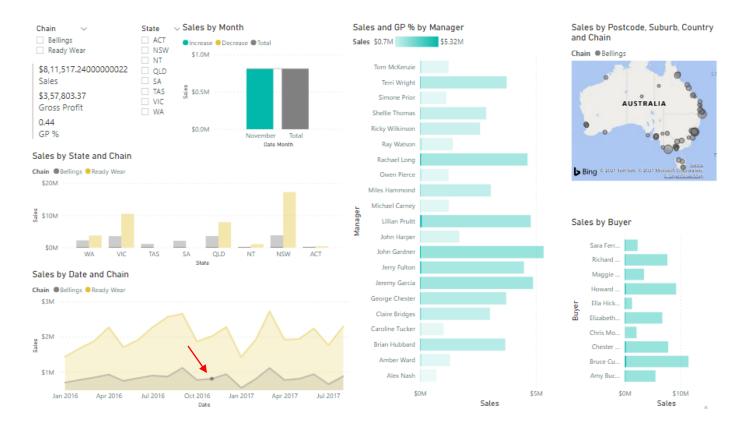


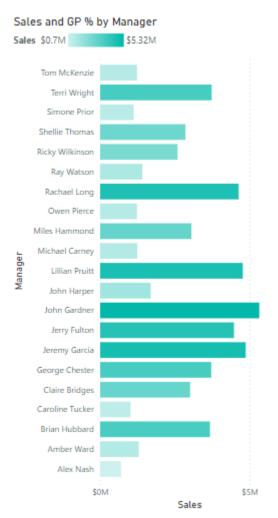


<u>6)</u> This is an **Area Chart** that shows **Sales by Date and Chain**.

It has **Date** in **Axis**, **Chain** in **Legend** and **Sales** in **Values** in Visualizations section.

This is how other content will get affected if we select this date:

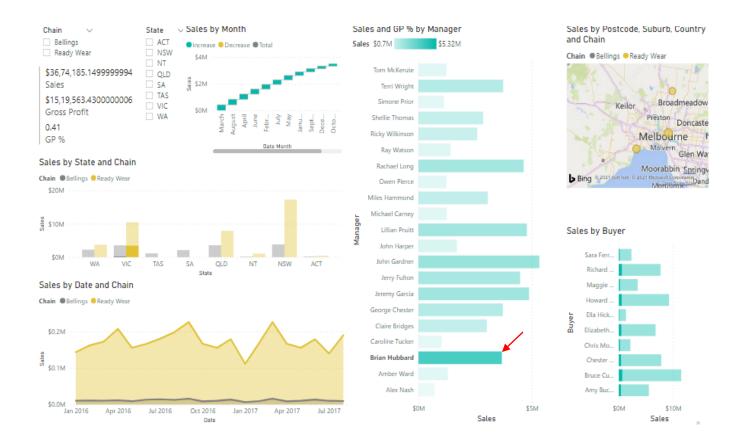




# <u>7)</u> This is a **Clustered Bar Chart** that displays **Sales and GP% by Manager**.

It has **State** and **Manager** in **Axis**, **Sales** in **Values** and **GP%** in **Tooltips** in Visualizations section.

This is how other content will get affected if we select Brian Hubbard:



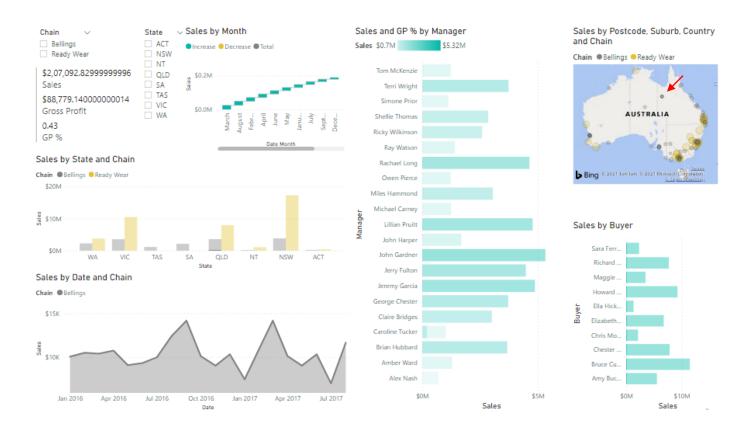
# Sales by Postcode, Suburb, Country and Chain



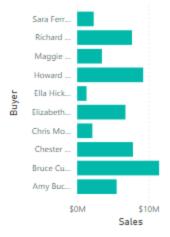
**8)** This is a **Map** that shows **Sales by Postcode**, **Suburb**, **Country and Chain**.

It has **Postcode**, **Suburb**, **Country** in **Location**, **Chain** in **Legend** and **Sales** in **Size** in Visualizations section.

This is how other content will get affected if we select this region:



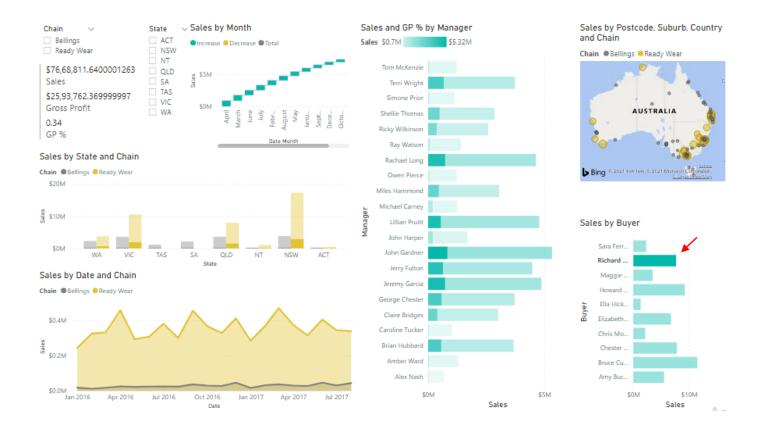




# 9) This is a Clustered Bar Chart which shows Sales by Buyer.

It has Buyer in Axis and Sales in Values in Visualizations section.

This is how other content will get affected if we select Richard as a buyer:



**CHAPTER 7: CONCLUSION AND FUTURE WORK** 

# **CHAPTER 7: CONCLUSION AND FUTURE WORK**

### **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 clean the data and how to use various visualizations like charts and slicers provided by Power BI.

# **Future work**

We have created 6 dashboards using the data from different Excel sheets. Following tasks need to be implemented ahead:

- Publishing and Accessing these Power BI reports
- Collaborating with manager and clients

**CHAPTER 8: REFERENCES** 

# **CHAPTER 8: REFERENCES**

- a. <a href="https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-excel-stunning-report">https://docs.microsoft.com/en-us/power-bi/create-reports/desktop-excel-stunning-report</a>
- b. https://www.youtube.com/watch?v=BsXliHbOFDM
- c. <a href="https://www.youtube.com/watch?v=X7DsnK5bD-0">https://www.youtube.com/watch?v=X7DsnK5bD-0</a>
- d. https://www.tutorialspoint.com/power\_bi/power\_bi\_introduction.htm
- e. https://data-flair.training/blogs/power-bi-tutorial/
- f. <a href="https://insightwhale.com/creating-a-power-bi-dashboard-a-step-by-step-guide/">https://insightwhale.com/creating-a-power-bi-dashboard-a-step-by-step-guide/</a>

PLAGIARISM REPORT

# Internship Report

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