

SHRI VAISHNAV INSTITUTE OF MANAGEMENT INDORE(M.P.)



Choosing the Right Tool: Power BI vs. Tableau for Data Insights

In partial Fulfillment of the degree of

Master of Business Administration

(FULL TIME)

Session:2022-2024

Submitted To:

Dr. Sanjay Pandit

Submitted By:

Chetan Malviya

MBA (III) SEM

“A”



VS



Chetan Malviya
Data Analyst



What is Power BI And Tableau

Power BI and Tableau are two important Business Intelligence (BI) technologies for the collection, integration, analysis, and presentation of business information. They help you perform data analysis, data manipulation, and data visualization to make sense of business data and draw insights.

When was Power BI and Tableau launched?



Power BI was first released to the general public on 24 July 2015.



Tableau was first released to the general public on 2003.

Why do you use Power bi and Tableau



Microsoft Power BI and Tableau is used to find insights within an organization's data. Power BI can help connect disparate data sets, transform and clean the data into a data model and create charts or graphs to provide visuals of the data. All of this can be shared with other users within the organization.

Uses Of Power BI and Tableau



Power BI is a business analytics service provided by Microsoft that can analyze and visualize data, extract insights, and share it across various departments within your organization.



While Tableau is a powerful Business Intelligence tool that manages the data flow and turns data into actionable information.

Microsoft Power Bi and Tableau is used to find insights within an organization data.

- Finance
- Sales
- HR Manager
- Marketing
- Operation & Production
- Hospitality etc.

How is Power BI and Tableau Used in Finance?

Power BI and Tableau is a data analytics tool that is used by financial professionals to manage and analyze financial-related data, charts, and financial KPI.

Here are some ways Power BI and Tableau is used in finance:

- To monitor sales and overhead expenditures
- To implement fund management strategies
- For reporting
- For sales monitoring
- For cash control

Turtle Co. Profit & Loss Statement For the year end 31 Dec 2020

Region
All

Country
All

Quarter

- ☒ Qtr 1
- ☒ Qtr 2
- ☒ Qtr 3
- ☒ Qtr 4

Gross Profit

2018	2019	2020
7,751,604	10,724,588	6,163,810

Month
All

Operating Profit

2018	2019	2020
7,751,604	10,724,588	6,163,810

EBITDA

2018	2019	2020
7,751,604	10,724,588	6,163,810

Net Profit

2018	2019	2020
7,751,604	10,724,588	6,163,810

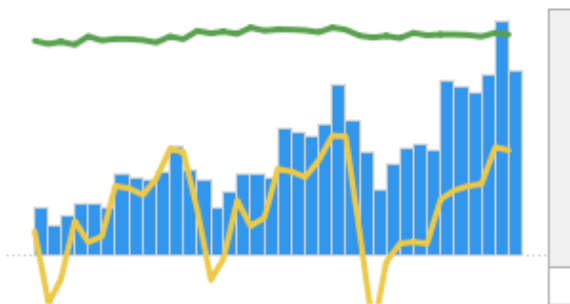
PBIT

2018	2019	2020
7,751,604	10,724,588	6,163,810

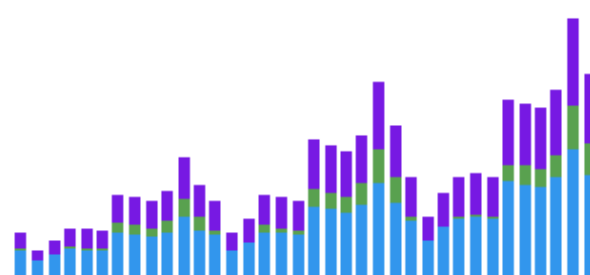
Profit & Loss Statement

				2018	2019	2020
Trading account	Sales	Sales	Sales	3,694,374	5,856,210	8,005,347
			Sales Return	-118,946	-158,365	-169,978
	Cost of Sales	Cost of Sales	Cost of Sales	-1,192,182	-1,729,299	-2,494,009
	Total			2,383,246	3,968,546	5,341,360
Operating account	Operating Expenses	Administration	Entertainm..	-135,167	-214,247	-345,168
			Office Supp..	-63,921	-101,655	-163,552
			Other Expe..	-123,158	-195,259	-314,548
			Profession..	-88,439	-141,053	-226,663
			Telephone	-76,018	-120,765	-194,380
			Travel	-94,728	-151,157	-242,865
			Utilities	-50,918	-81,331	-130,614
		Marketing	Advertisem..	-52,539	-83,555	-134,431
			Commissio..	-290,549	-497,368	-824,697
		Sales & Distribut..	Staff Costs	-260,004	-374,412	-527,436
	Depreciatio..	Amortization	Amortizati..	-19,008	-15,456	-15,960
		Depreciation	Equipment	-387,996	-516,600	-698,880
	Total			-1,642,445	-2,492,858	-3,819,194
Non-oper..	Dividend In..	Dividend Income	Dividend In..	15,917	21,751	30,030
	Exchange L..	Exchange Loss/G..	Exchange L..	2,214	3,705	5,016
	Gain/Loss o..	Gain/Loss on Sal..	Gain/Loss o..	4,850	5,085	6,351

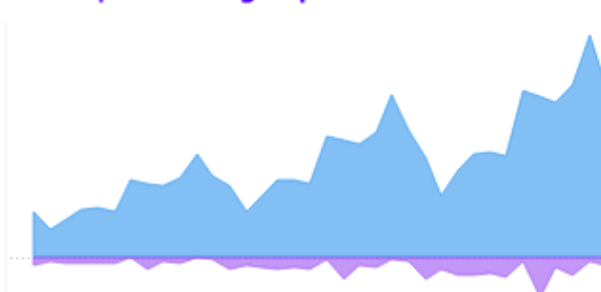
Sales | GP Margin | NP Margin



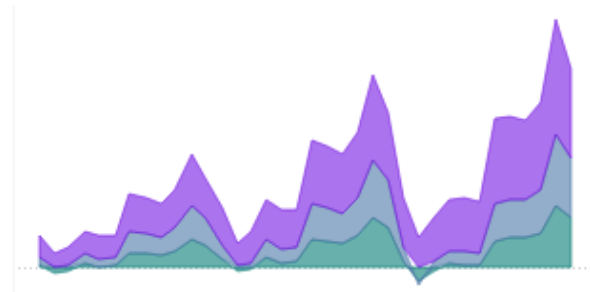
Sales | Gross Profit | Net Profit



Sales | Marketing Expense



Gross Profit | EBITDA | Operating Profit



How is Power BI and Tableau Used in Sales?

Sales analysis using Power BI and Tableau is a process of creating reports and dashboards that show the performance and trends of sales data

Here are some ways Power BI and Tableau is used in Sales

- Power BI and Tableau can also display sales metrics, such as sales growth, budget, segments, representatives, and account details, in various charts and tables.
- Sales analysis using Power BI and Tableau can help businesses to monitor and improve their sales strategies and outcomes.

India Diwali Sales

Total Order
28,007

Total Customer
11,251

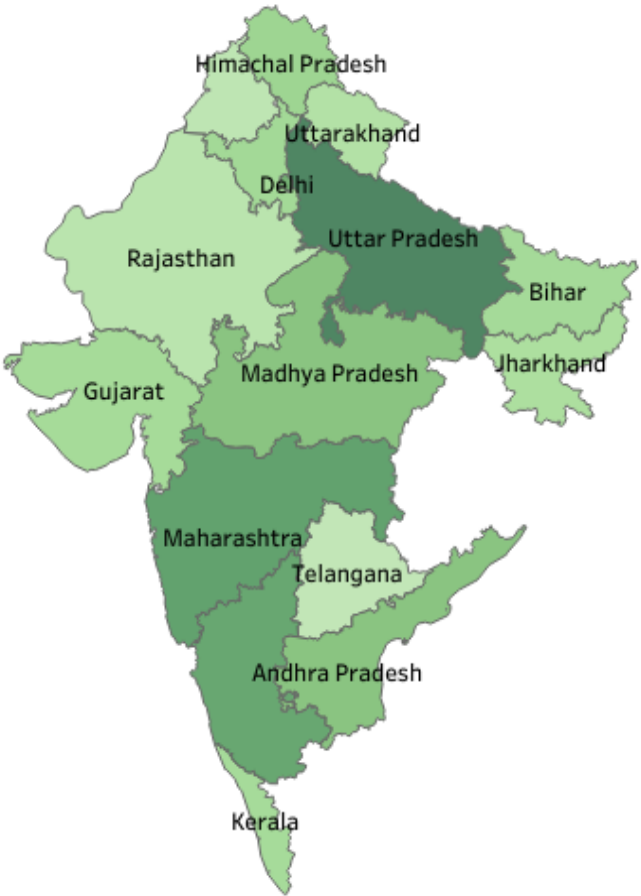
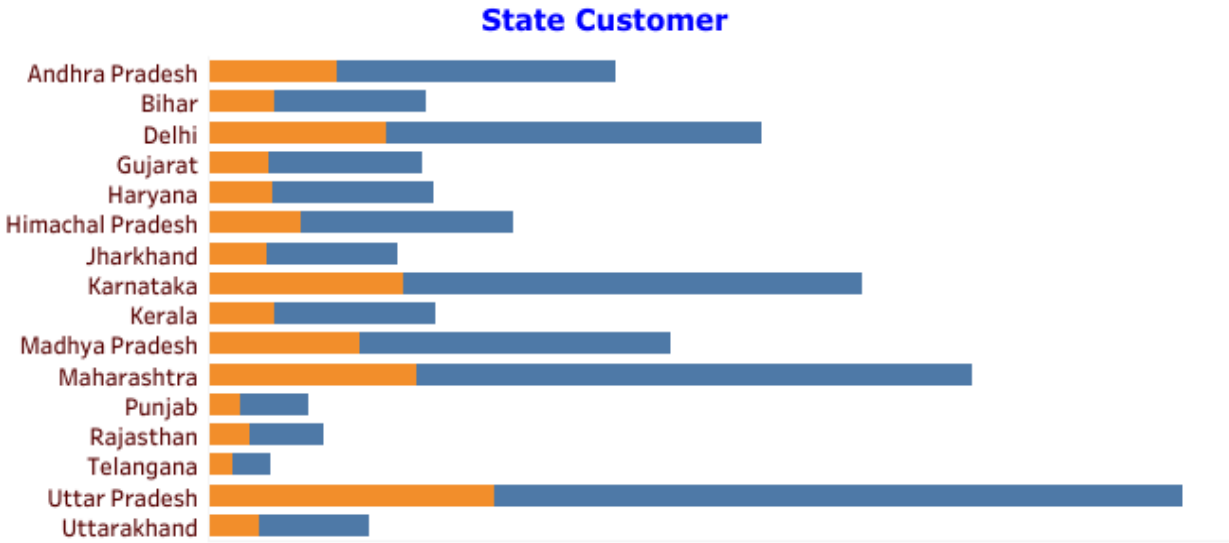
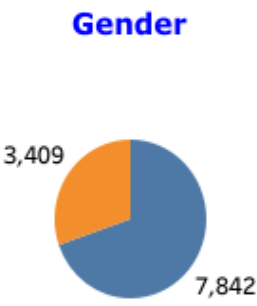
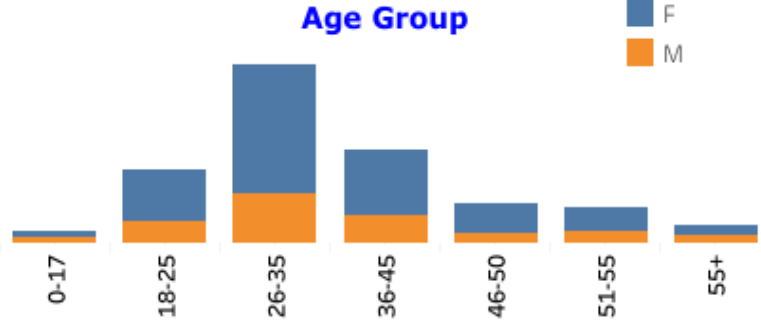
Total Revenue
106,249.13K

India Map

- Occupation
- ☒ Agriculture
 - ☒ Automobile
 - ☒ Aviation
 - ☒ Banking
 - ☒ Chemical
 - ☒ Construction
 - ☒ Food Processing
 - ☒ Govt

- Product Category
- ☒ Auto
 - ☒ Beauty
 - ☒ Books
 - ☒ Clothing & Apparel
 - ☒ Decor
 - ☒ Electronics & Gadgets

Zone
All



How is Power BI and Tableau Used in HR Manager?

Power BI can be used to bring together data from other systems and transform it in ways that are useful to employees

Here are some ways Power BI and Tableau is used in HR Manager

- HR teams can quickly import and analyze data using Excel.
- They can use the Get & Transform function to import data from multiple HR systems, then use formatting, charts, and graphs to filter data and understand the variables they need to present.
- The Power BI service also provides a Human Resources sample report that can be used to analyze HR data.

HR ANALYTICS DESHBOARD

Human Resources

Research & Development

Sales

Count Of Employee ID

1470

Count Attrition

1470

Attrition Rate

16,1 %

Average Age

37

Average Salary

6,5K

Average Year

7,0

Attrition by Education

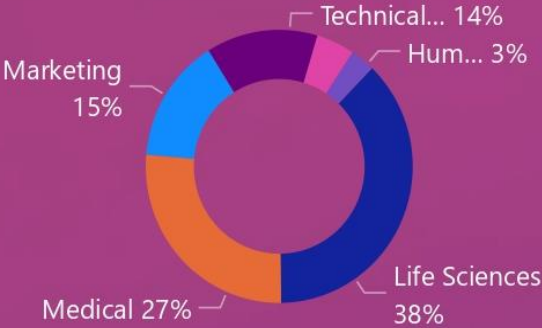
Male

Female

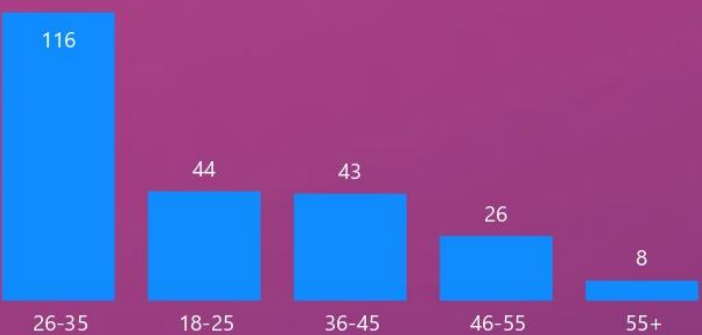
150

87

Attrition by Education



Attrition by Age Group



JobRole

	1	2	3	4	Total
Laboratory Technician	20	8	21	13	62
Sales Executive	16	9	18	14	57
Research Scientist	13	10	15	9	47
Sales Representative	7	10	9	7	33
Human Resources	5	2	3	2	12
Manufacturing Director	2	2	4	2	10
Healthcare Representative	2	2	1	4	9
Manager	1	2	1	1	5
Research Director	0	1	1	0	2
Total	66	46	73	52	237

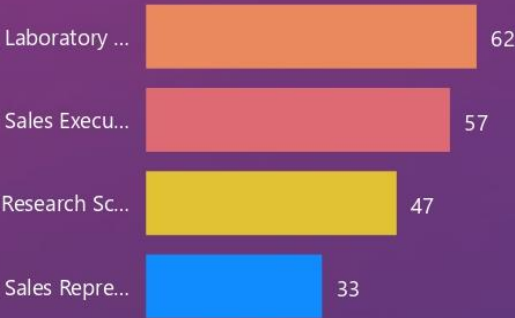
Attrition by Salary



Attrition By Years At Company



Attrition by Job Role



Difference Between Power BI and Tableau



Vs



1. Number of Function Available



1300 +

Vs



180 +

2. Types of function Available



Vs



**M
Language**



Data Cleaning

900+

**Dax
Function**



**Data
Modeling**

400 +

**LOD (Level of
Expression)**



- Number functions
- String functions
- Date functions and time function
- Logical functions
- Aggregate functions

3. Data Visualization



41 Default Visuals

Vs



24 Default Visuals

4. Advance Visuals



521 Adv. Visuals

Vs



50 + Adv. Visuals

5. Number Of Data Sources



Vs



185

**Data
Sources**



80 +

**Data
Sources**

6. Getting Data From Websites



Vs



**Getting Data from
multiple Websites**

**Getting Data from
single Websites**



7. Getting Data from E-mail



Vs



**1000 Email Attachment
power Automate**



- Open
- Clean
- Combine

**Diffcult to pickup
Email Attachment**



**Other Software
Use Tableau**

alteryx

8. Microsoft Compatibility



**Can Connect with
Microsoft product like**

Vs



9. Data Cleaning

What is Data Cleaning

- Empty cells
- Blank Records
- Duplicates
- Error Messages

- Null Values
- Values changing the structure of data
- Pivoting
- Unpivoting



Already inbuilt



Vs



Other Software



Free

10. Artificial Intelligence



Vs



Multiple Options in AI

AI is not that Great



Type a Questions

- **Top 3 States by profit**
- **Get Quick Insights**

11. User Interface



Vs



Difficult

Very Easy

12. MacBook Compatibility



Vs



**Compatible with
Windows**



**Compatible with
Windows & MacBook**



13. Mobile User Interface



Vs



- **One User Interface**
- **One Layout**
- **All Mobile Phones**

- **Different Mobile Phone**
- **Different Structure and layouts**
- **All Mobile Phones**

14. Data Size



Max 100 TB

Vs



Unlimited Data Set

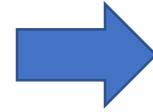
15. Performance



Vs



- **Same Data Set**
- **Same number of Columns & Row**
- **Same User interface**



20 – 30 % Faster
Comperision with Power BI

16. Software Updates



Vs



Every Month Update



**5 – 10 – 15 Features
Every Month
Update**

**Software Update Every
2 – 3 – 6 Months**

17. Costing



Vs



**20 Usd / User
Per Month**

**70 Usd / User
Per Month**

18. Sources



Power BI Desktop

Free

Vs

+tableau++public

Free

19. Dashboard Publish



Power BI Desktop

Vs

Free



File

Url

File

Url

Thankyou