



BSDS-210 :
BUSINESS
INTELLIGENCE
AND DATA
ANALYSIS

GAURI
SHARAN

INTRODUCTION
TO TABLEAU

INTRODUCTION
TO POWER BI

REFERENCES

THANK YOU

BSDS-210 : BUSINESS INTELLIGENCE AND DATA ANALYSIS

COURSE INSTRUCTOR - Ms. NEEMA JHA

Gauri Sharan - BSc Data Science, Semester 4

June 11, 2024



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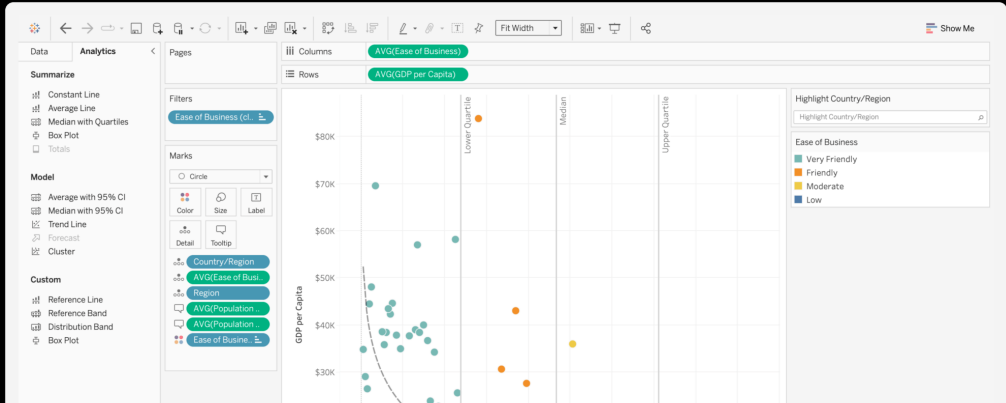
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INTRODUCTION TO TABLEAU

- Tableau is a powerful data visualization tool.
- It helps in simplifying raw data into an understandable format.
- Data analysis is very fast with Tableau and the visualizations created are in the form of dashboards and worksheets.





FEATURES OF TABLEAU

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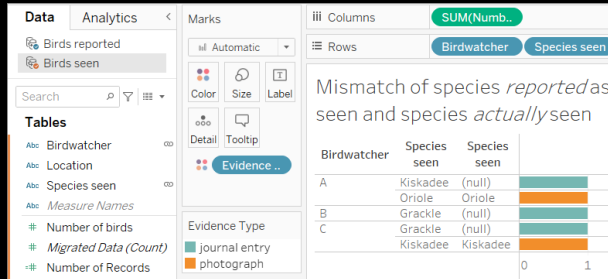
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In Tableau we can perform operations such as Data Blending, Real-time analysis, Collaboration of data etc.





CONNECTING TO DATA

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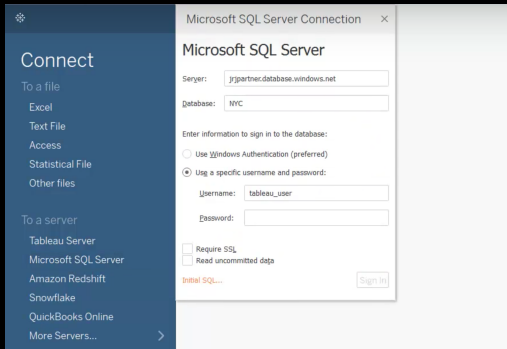
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- Tableau can connect to various data sources such as Excel, SQL Server, Google Sheets, and many more.
- The connection process involves connecting to data, preparing data, and analyzing data.





CREATING VISUALIZATIONS

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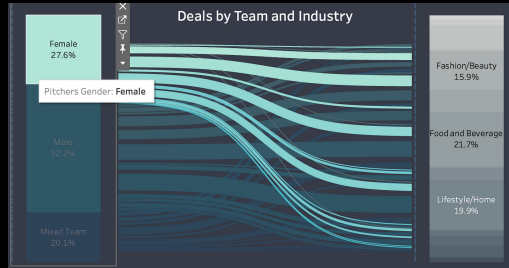
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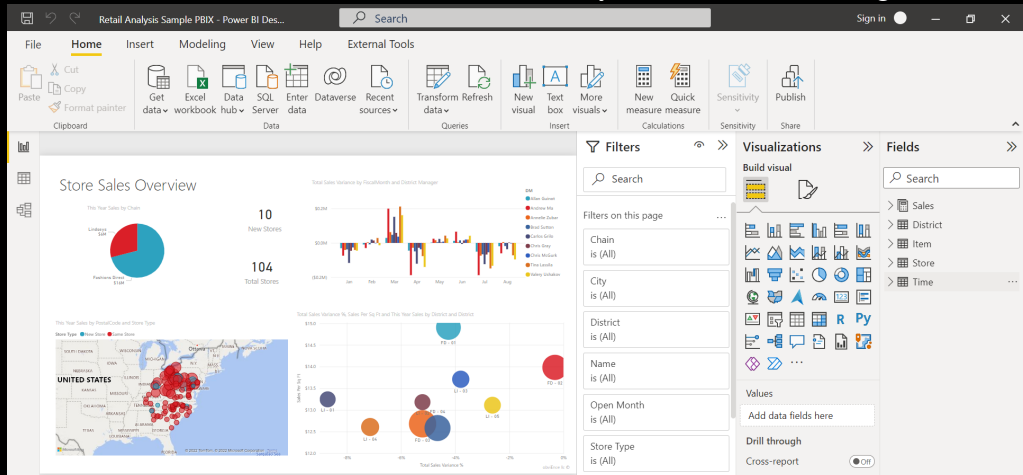
- Visualizations in Tableau are created using various charts like bar charts, line charts, and pie charts.
- These charts help in analyzing data trends and patterns.





INTRODUCTION TO POWER BI

- Power BI is a suite of business analytics tools.
- It connects to different data sources to analyze data and share insights.





PARTS OF POWER BI

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- Power BI Desktop
- Power BI Service
- Power BI Mobile

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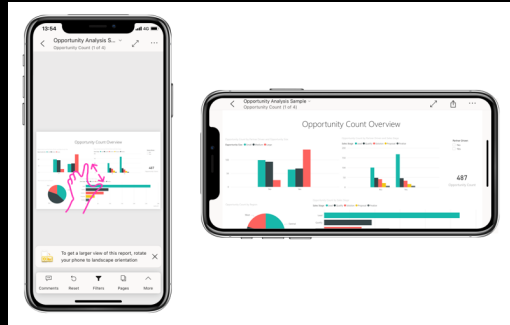
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POWER BI DESKTOP INTERFACE

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- Ribbon: Displays common tasks associated with reports and visualizations.
- Pages: Allows selecting or adding a report page.
- Visualizations: Change visualizations, customize colors or axes, apply filters, and more.
- Fields: Drag and drop query elements and filters onto the Report view.
- Views Pane: Reports View, Data View, Relationship or Model view.



QUERYING DATA FROM CSV

- Import and clean data from various sources.
- Use the Query Editor to connect to one or many data sources, shape and transform the data.

Financial Sample.csv

File Origin: 1252: Western European (Windows) | Delimiter: Comma | Data Type Detection: Based on first 200 rows

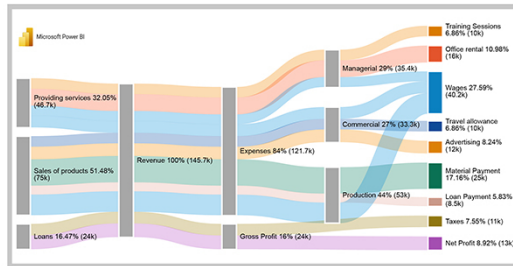
Segment	Country	Product	Discount Band	Units Sold	Manufacturing Price	Sale Price	Gross Sales	Discounts	Sales	COGS
Government	United States of America	Paseo	Low	3450	10.00	350.00	1,207,500.00	48,300.00	1,150,200.00	807,000.00
Government	France	Amarilla	None	2750	260.00	350.00	962,500.00	0.00	962,500.00	715,000.00
Government	Germany	Velo	Low	2966	120.00	350.00	1,038,100.00	20,762.00	1,017,338.00	771,160.00
Government	Germany	Amarilla	Low	2966	260.00	350.00	1,038,100.00	20,762.00	1,017,338.00	771,160.00
Government	Germany	Velo	Low	2877	120.00	350.00	1,006,950.00	20,139.00	986,811.00	748,020.00
Government	Germany	VTT	Low	2877	250.00	350.00	1,006,950.00	20,139.00	986,811.00	748,020.00
Government	Canada	Carretera	Low	2852	3.00	350.00	998,200.00	19,964.00	978,236.00	741,520.00
Government	Canada	Paseo	Low	2852	10.00	350.00	998,200.00	19,964.00	978,236.00	741,520.00
Government	France	Amarilla	Medium	2876	260.00	350.00	1,006,600.00	70,462.00	936,138.00	747,760.00
Government	France	Carretera	Low	2155	3.00	350.00	754,250.00	7,542.50	746,707.50	560,300.00
Government	France	Paseo	Low	2155	10.00	350.00	754,250.00	7,542.50	746,707.50	560,300.00
Government	France	Velo	Low	2177	120.00	350.00	761,950.00	30,478.00	731,472.00	566,020.00

Extract Table Using Examples | Load | Transform Data | Cancel



CREATING REPORTS & VISUALIZATIONS

- Create visualizations such as bar charts, line charts, pie charts, and more.
- Use DAX for creating calculated measures.



The Ultimate Guide to Power BI Data Visualizations



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Tableau Software. *Official website.* <https://www.tableau.com>



Microsoft Corporation. *Official website.* <https://powerbi.microsoft.com>



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Hope you liked this presentation.

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Semester 4, 2024

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