

# Power BI Introduction

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SINDHURA NADENDLA

CLASS STARTING SHARP AT 4:15 PM

Wifi – Airtel 403  
Password –  
Etlhive@2602

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CLASS STARTING AT 4:15 PM

Power BI is a Data Visualization and Business Intelligence tool by Microsoft that combines data from different data sources to create various business intelligence reports.

Business intelligence (BI) is a broad term that refers to the process of analyzing a business's data to help inform management decisions

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Microsoft Power BI is used by a wide range of users, including:

**Business analysts**

Use Power BI to analyze KPIs and create visualizations

**IT teams**

Use Power BI to automate reporting, manage data security, and maintain compliance

**Sales and marketing**

Use Power BI to track leads, sales performance, and campaign ROI in real time

**Financial professionals**

Use Power BI to track business activities, streamline processes, perform data analysis, and track KPIs

**Data professionals**

Use Power BI to create data models and disseminate reports throughout the organization



Share



100%



123

Defaul...



10



A1

fx Customer ID

	A	B	C	D	E	F	G	H	I	J	K
1	Customer ID	Name	Surname	Gender	Age	Region	Job Classification	Date Joined	Balance		
2	100000001	Simon	Walsh	Male	21	England	White Collar	05.Jan.15	113810.15		
3	400000002	Jasmine	Miller	Female	34	Northern Ireland	Blue Collar	06.Jan.15	36919.73		
4	100000003	Liam	Brown	Male	46	England	White Collar	07.Jan.15	101536.83		
5	300000004	Trevor	Parr	Male	32	Wales	White Collar	08.Jan.15	1421.52		
6	100000005	Deirdre	Pullman	Female	38	England	Blue Collar	09.Jan.15	35639.79		
7	300000006	Ava	Coleman	Female	30	Wales	Blue Collar	09.Jan.15	122443.77		
8	100000007	Dorothy	Thomson	Female	34	England	Blue Collar	11.Jan.15	42879.84		
9	200000008	Lisa	Knox	Female	48	Scotland	Other	11.Jan.15	36680.17		
10	300000009	Ruth	Campbell	Female	33	Wales	White Collar	11.Jan.15	74284.35		
11	100000010	Dominic	Parr	Male	42	England	White Collar	12.Jan.15	10912.45		
12	100000011	Dominic	Lewis	Male	40	England	White Collar	12.Jan.15	39667.83		
13	100000012	Benjamin	Grant	Male	39	England	White Collar	12.Jan.15	32281.62		
14	100000013	Ryan	MacDonald	Male	24	England	White Collar	12.Jan.15	40781.63		
15	200000014	Thomas	Lawrence	Male	46	Scotland	Other	12.Jan.15	48791.46		
16	300000015	Madeleine	Marshall	Female	36	Wales	Other	12.Jan.15	2846.03		
17	100000016	Nicholas	Newman	Male	42	England	White Collar	14.Jan.15	2116.85		
18	000000017	Olivia	Will	Female	34	Scotland	Other	14.Jan.15	40250.04		



P6-UK-Bank-Customers



Home



Create



Browse



Data hub



Metrics



Apps

Deployment  
pipelinesKnowledge  
center

Workspaces

My  
workspace

File Share Chat in Teams Comment Email subscription Edit ...



Ask a question about your data

Total Volume  
IN 2014

50K

Market Share  
LAST 12 MONTHS

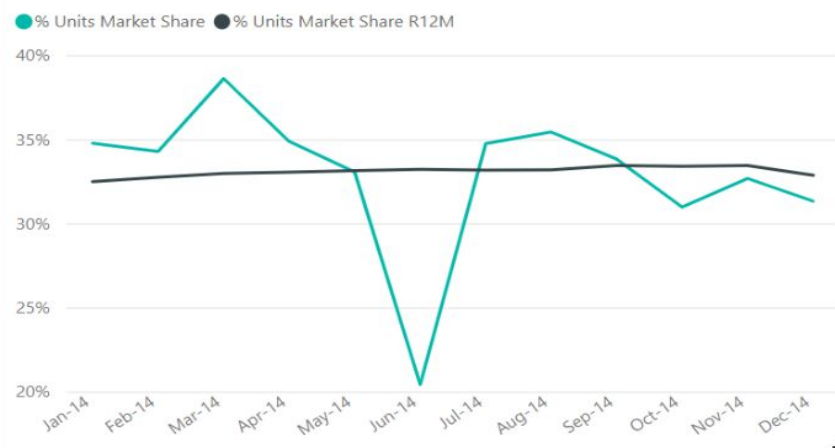
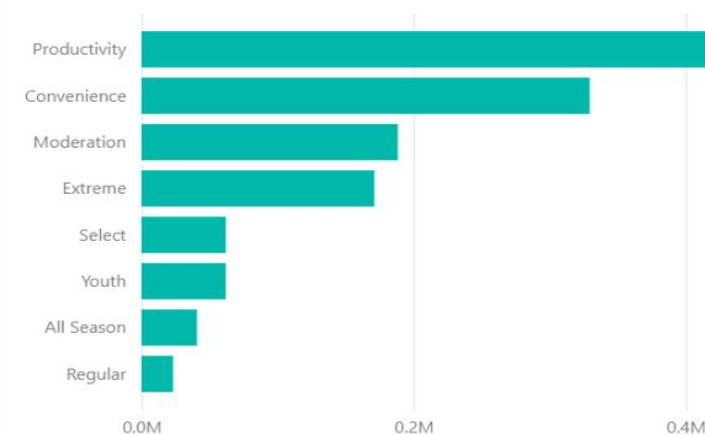
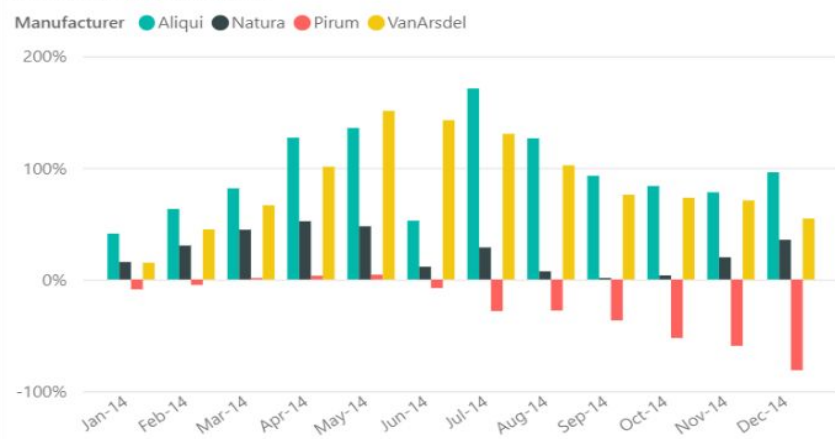
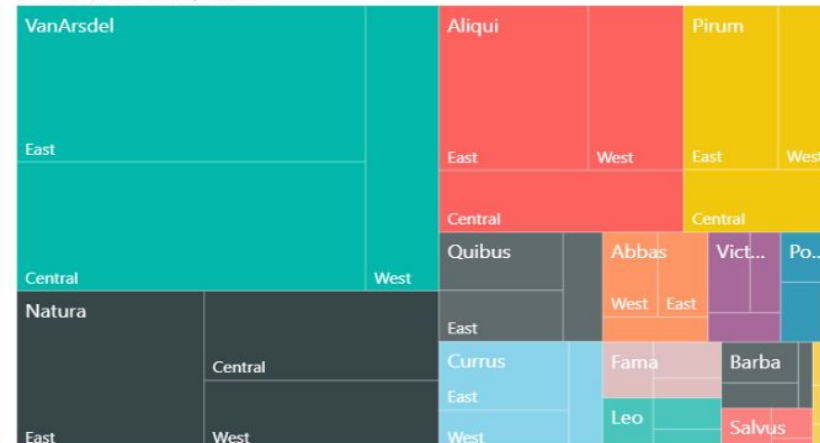
32.86%

Our Total Volume  
IN 2014

16K

Sentiment

68

% Units Market Share vs. % Units Market Share Rolling 12...  
BY MONTHTotal Units Overall  
BY SEGMENTTotal Units YTD Variance %  
BY MONTH, MANUFACTURERTotal Units YTD  
BY MANUFACTURER, REGION

# Power Bi Desktop Download

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Download Power BI and Install it on your PC.

Use below link:






[Power BI Desktop - Free download and install on Windows | Microsoft Store](#)

or

Open Microsoft Store, search for '**Power BI Desktop**'.

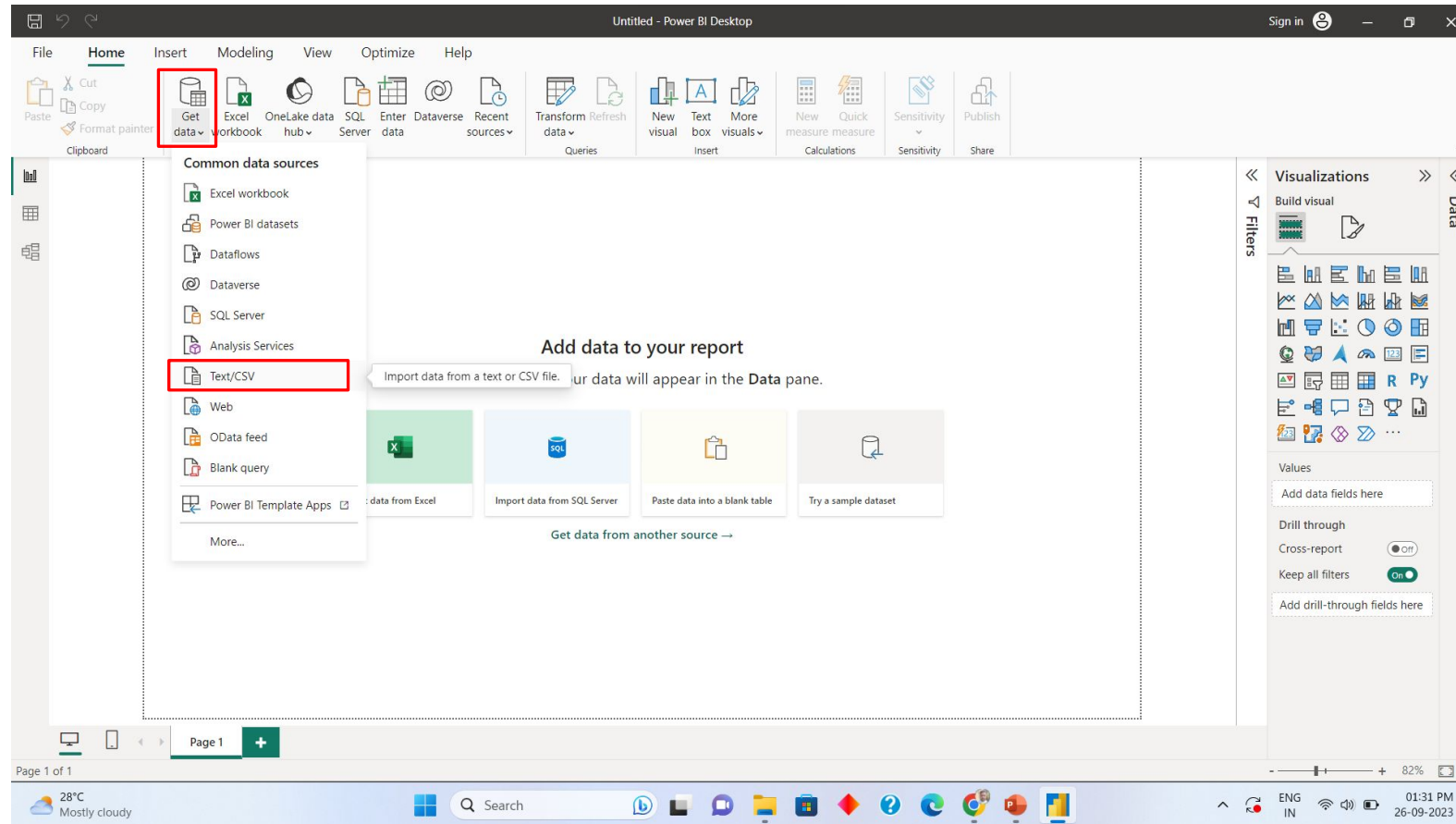
Click on Download.

# Power BI vs Tableau Differences

	TABLEAU	OR	POWER BI
 Visualizations	Mobile friendly dashboards with perfect ability to integrate infinite amount of datapoints in analysis		Excel like UI, limited data points in visualizations, row size limitation
 Data Sources	Ability to connect to numerous database sources and servers, compatible with Azure, AWS		Limited ability to connect to all types of data sources, compatible with Azure
 Data Handling	Robust BI tool, handles millions of rows of data, no impact on the performance of the dashboards		Better for smaller data sets, time-outs and slow performance for larger datasets
 Analytics	Wide range of analytics capabilities suitable for users of all skill groups		Highly technical nature of the data models, needs strong understanding of data modeling concepts
 Machine Learning	In-built machine-learning algorithms, recent addition of speech analytics tool		Pre-built machine-learning systems with the recent Azure Cognitive Services

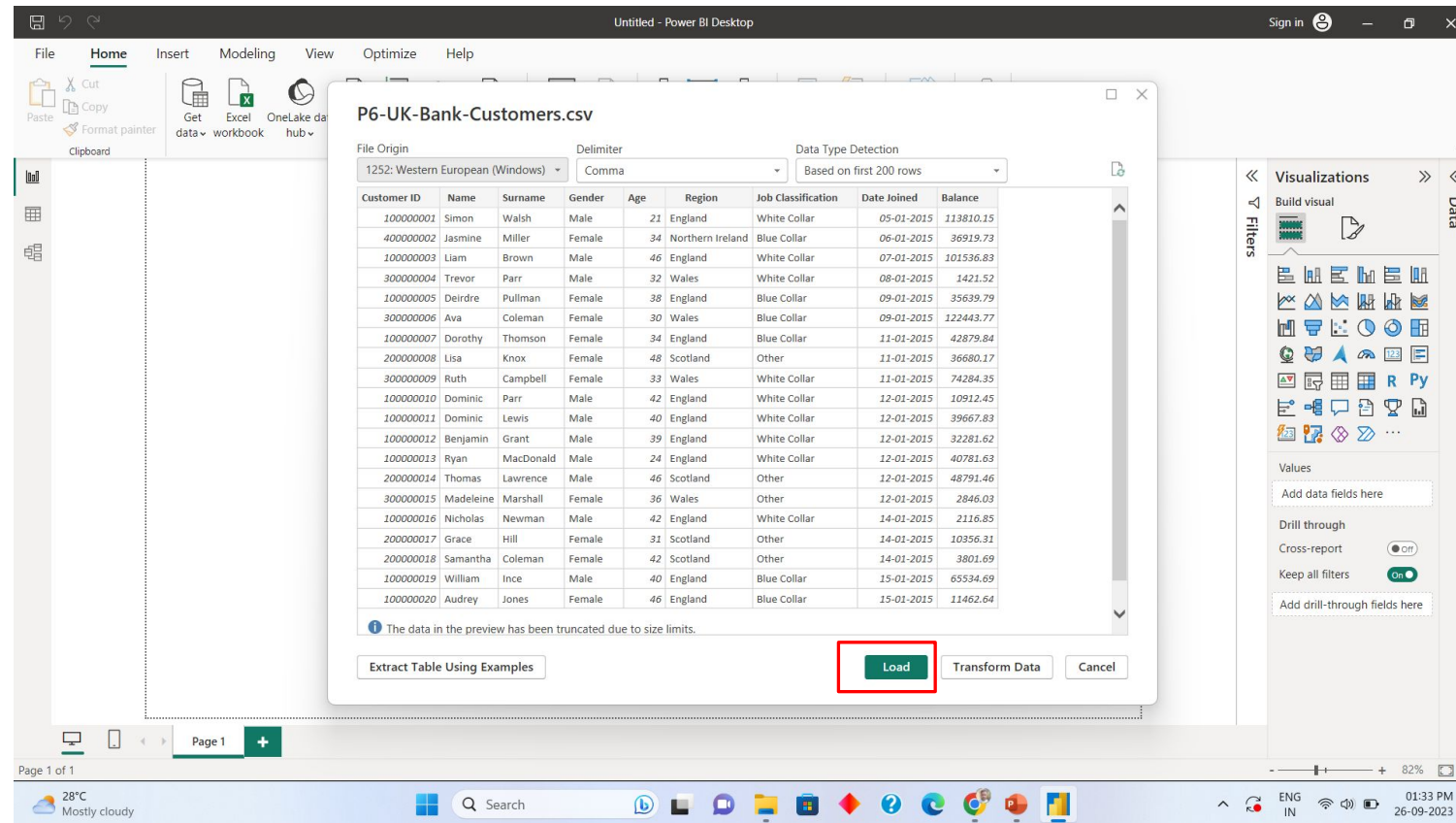


# Power BI Loading a csv file





# Press Load after opening dataset



# Power BI Interface

The image shows the Power BI Desktop interface with several key components highlighted by orange boxes and arrows:

- Report View Build visuals**: Points to the 'Visualizations' pane on the left side of the interface.
- Data Model**: Points to the 'Data' pane on the right side of the interface.
- Table View View Data in Table format**: Points to the 'Table' icon in the 'Visualizations' pane.
- Visualization**: Points to the 'Visualizations' pane header.
- Filters**: Points to the 'Filters' section within the 'Visualizations' pane.
- Data**: Points to the 'Data' pane header.
- Click to expand**: Points to the 'P6-UK-Bank-Customers' data source in the 'Data' pane.

The main canvas displays the message: "Build visuals with your data. Select or drag fields from the Data pane onto the report canvas." Below this message is a small icon representing a report page.

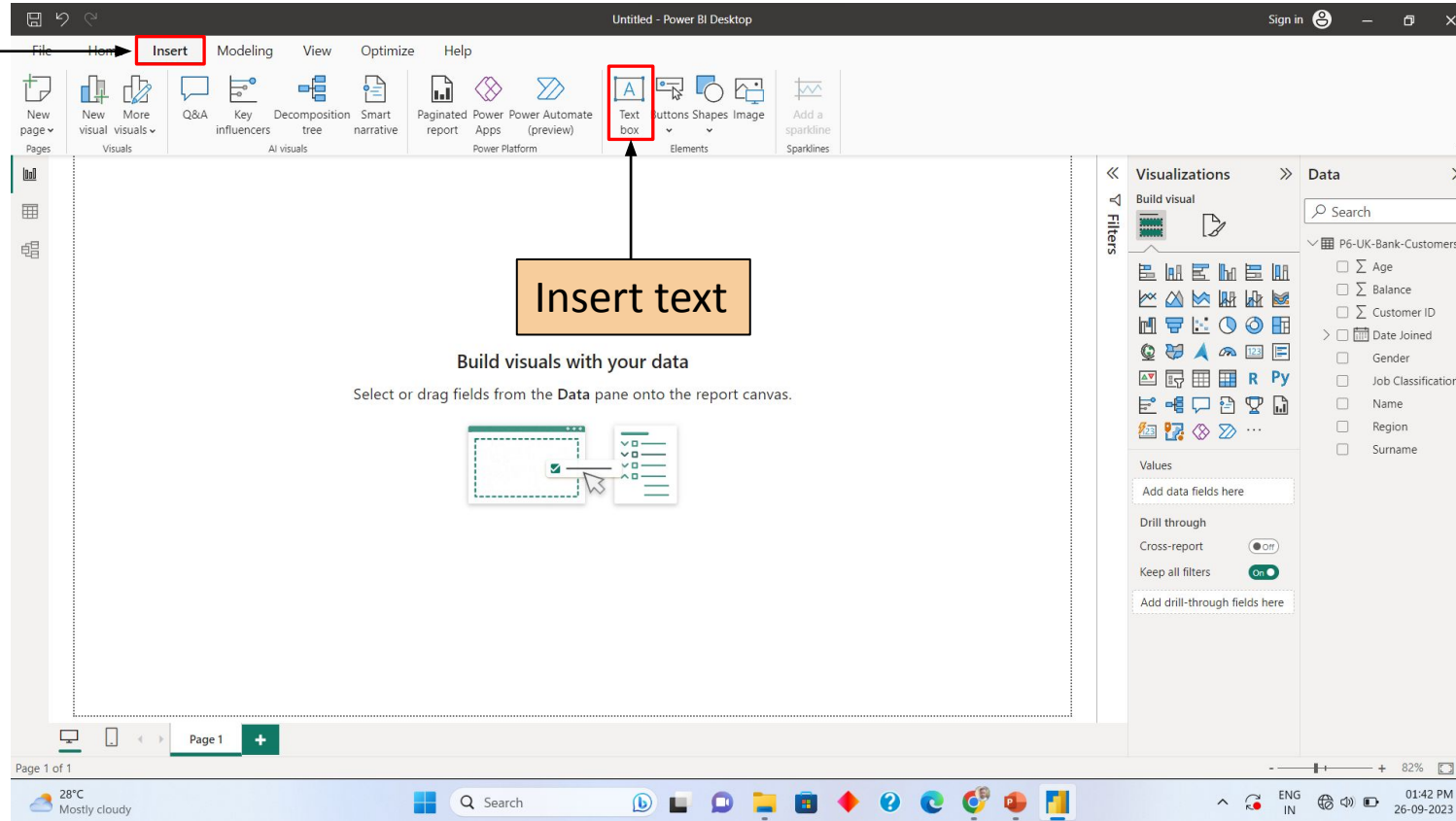
The interface includes a top ribbon with tabs: File, Home, Insert, Modeling, View, Optimize, and Help. The 'Home' tab is currently selected, showing various options for getting data, creating new visuals, and publishing.

The bottom status bar shows "Page 1 of 1", "Page 1", and a zoom level of "82%". The Windows taskbar at the bottom displays the date and time as "01:34 PM 26-09-2023".

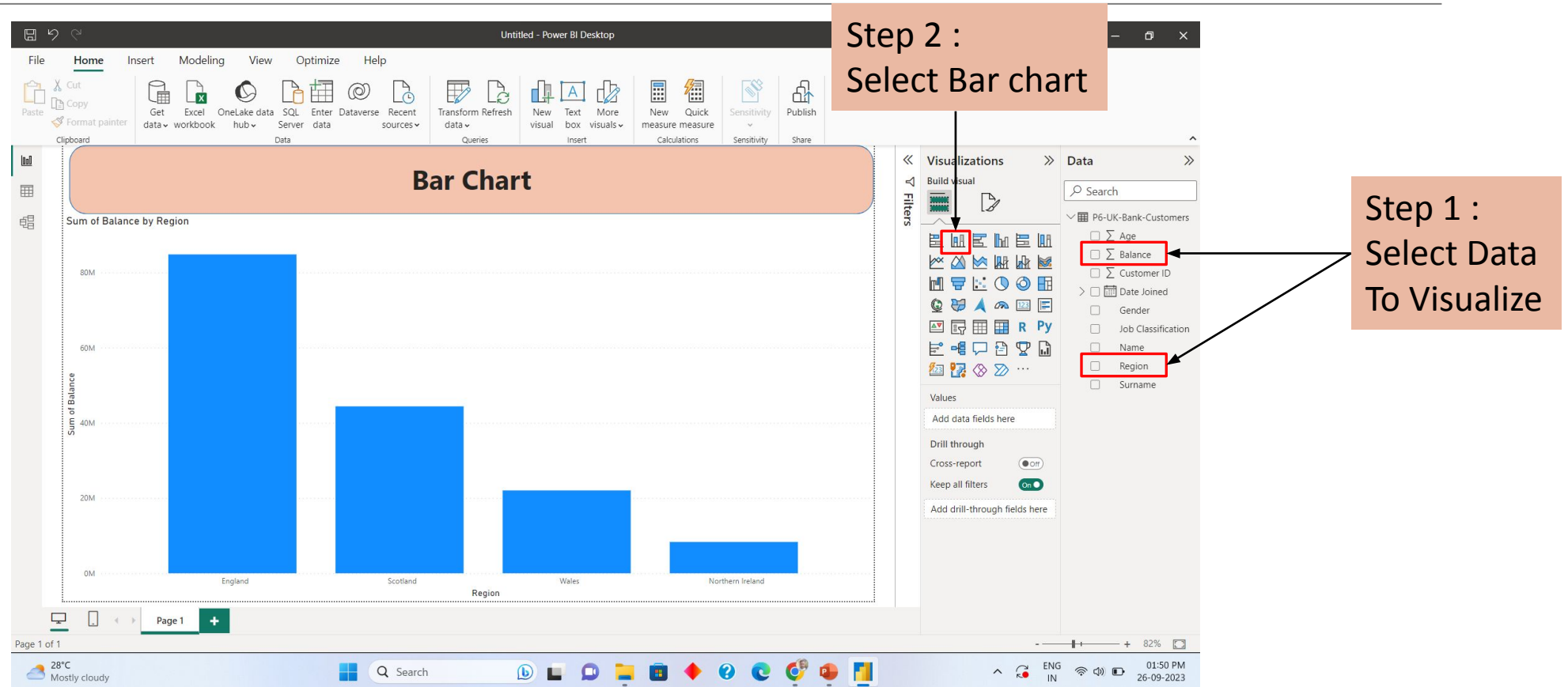
# Custom visuals

## Adding shape and text on top

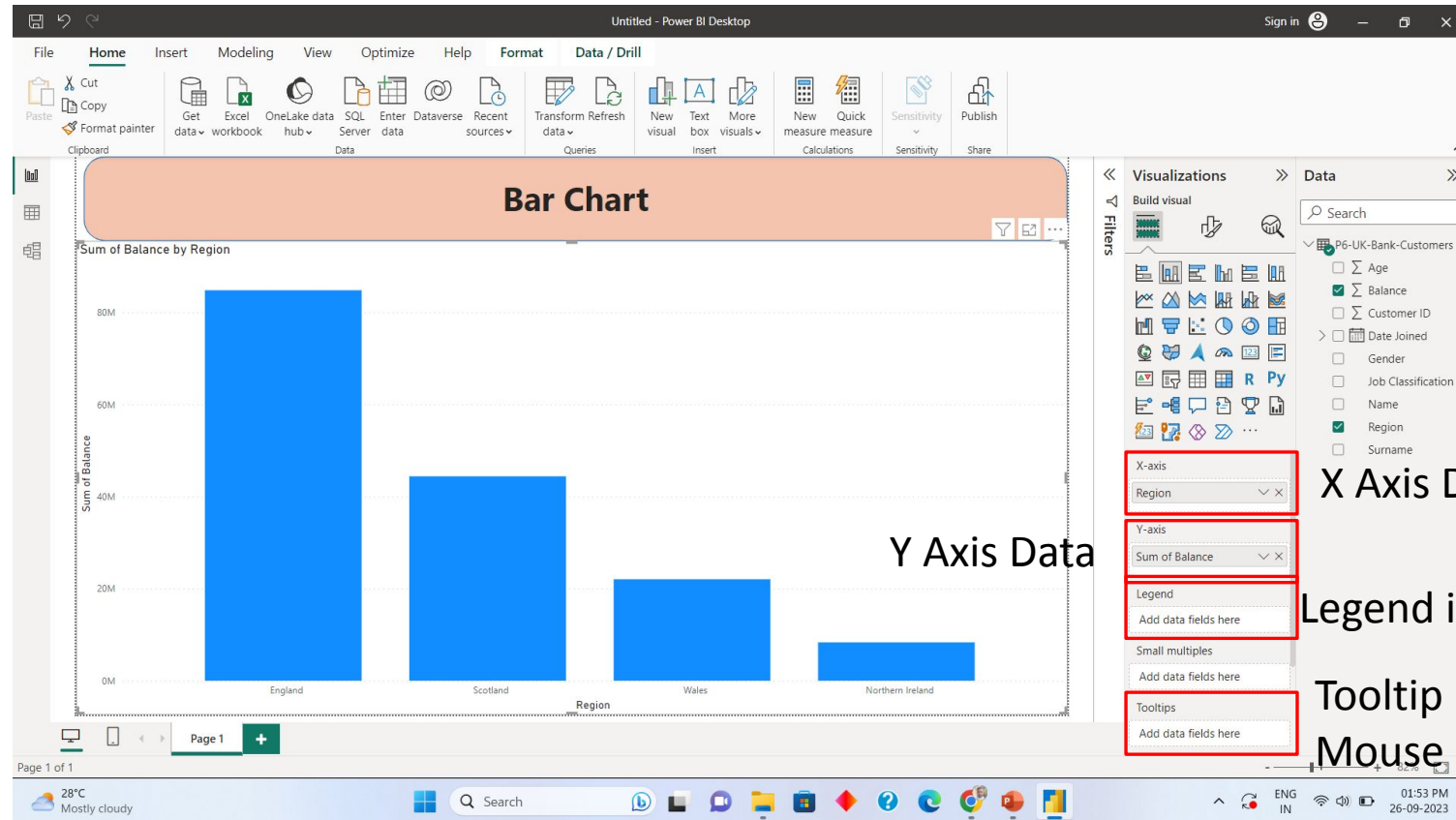
1. Click Insert



# Bar Chart



# Build Visual Details



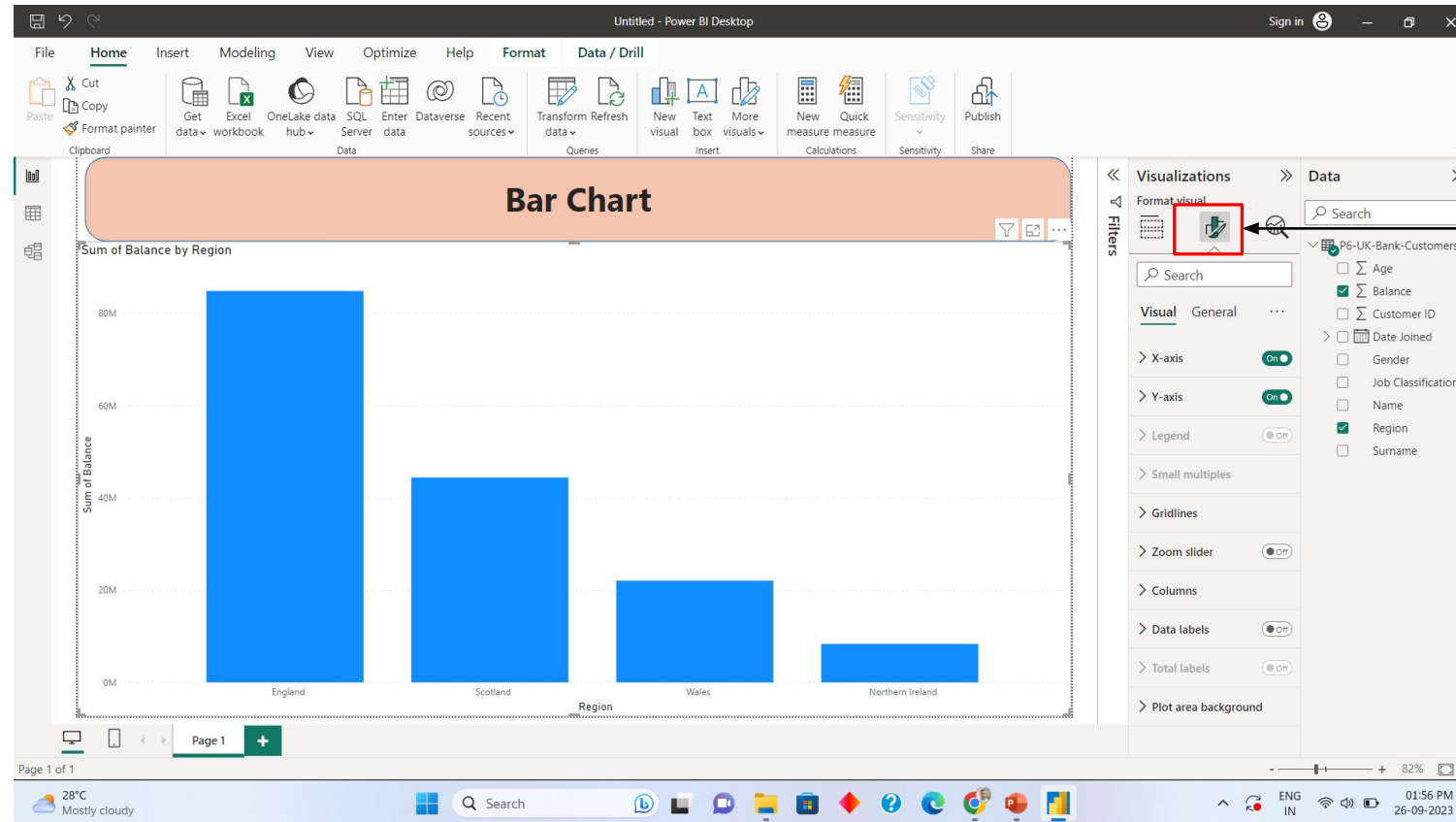
X Axis Data

Y Axis Data

Legend is similar to color in Tableau

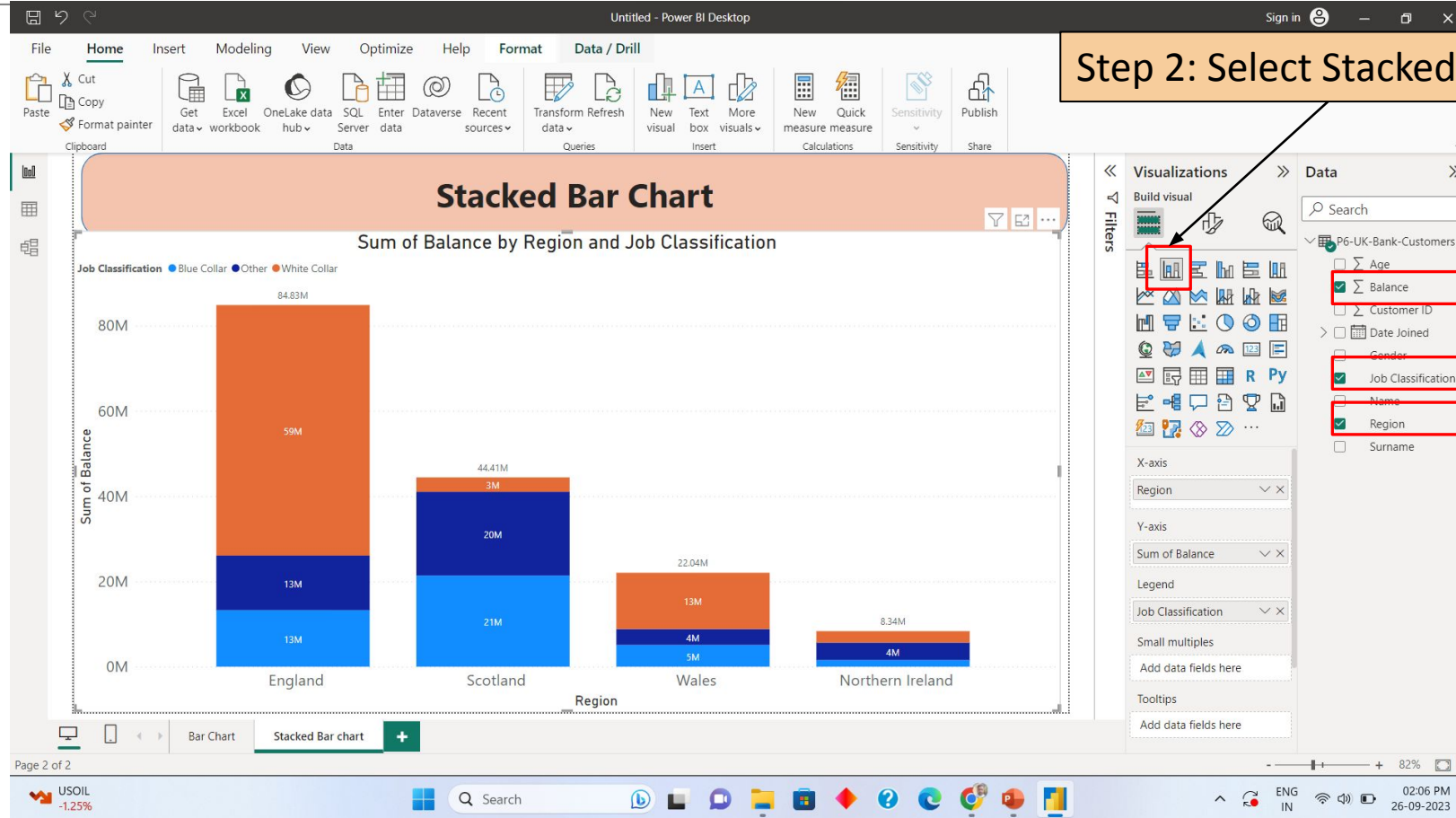
Tooltip is to show details when  
Mouse hovered

# Format Visuals



Format visuals

# Stacked Bar Chart

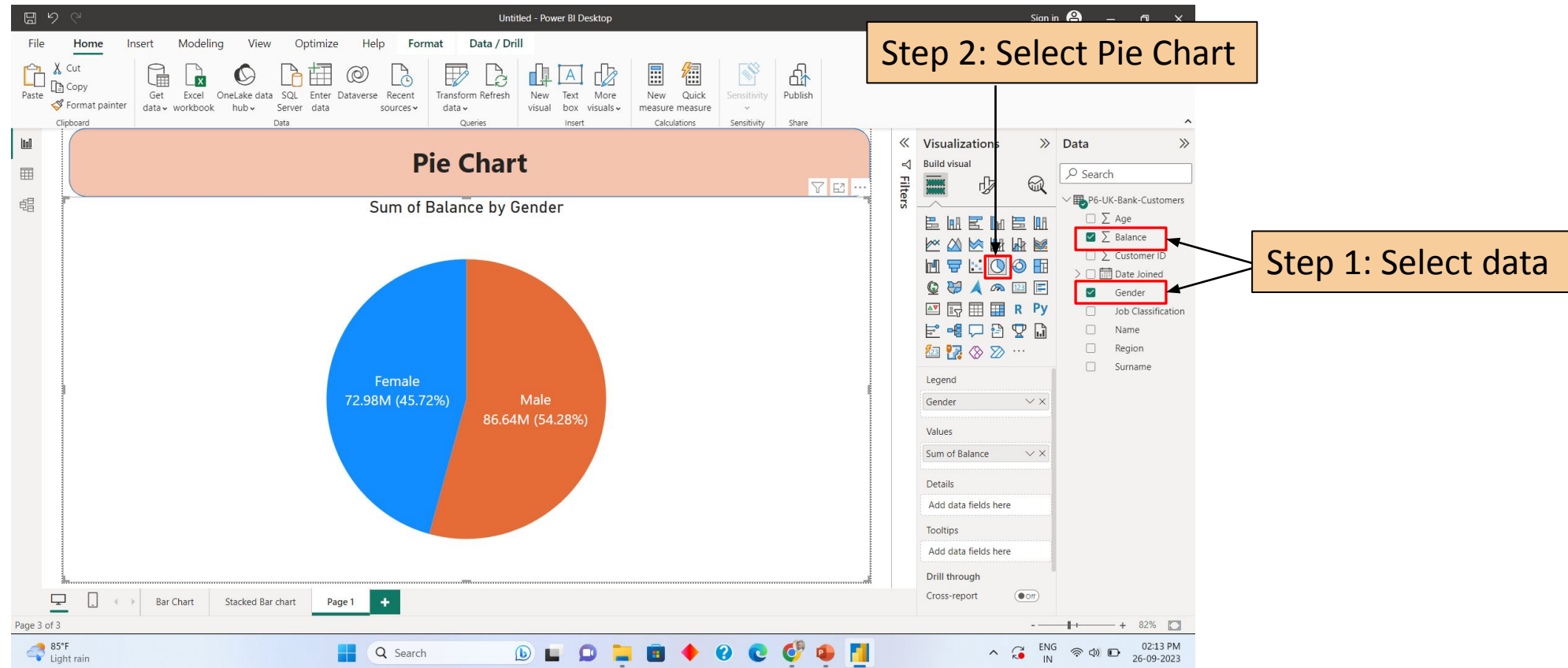


Step 2: Select Stacked Bar Chart

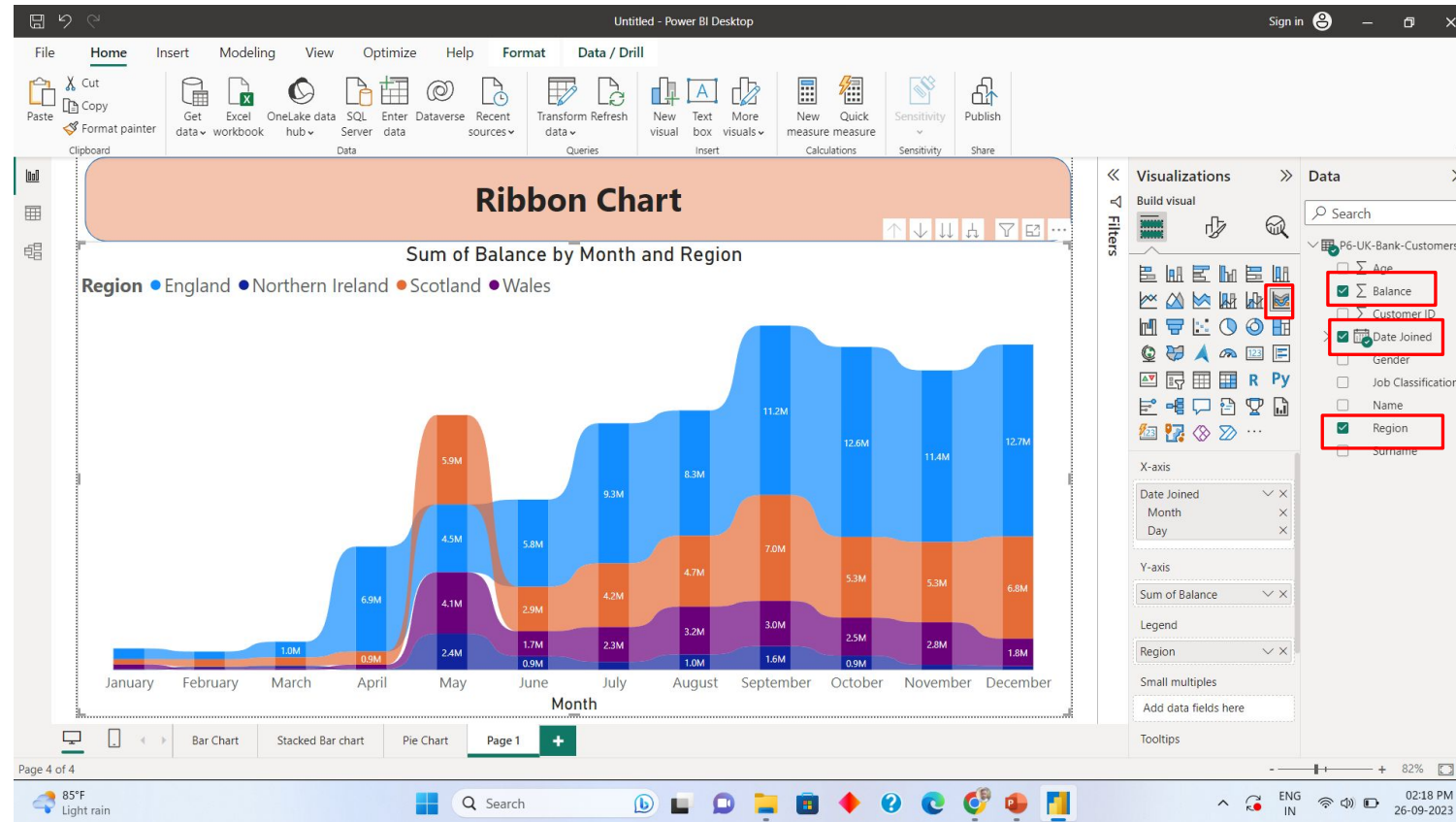
Step 1: Select data



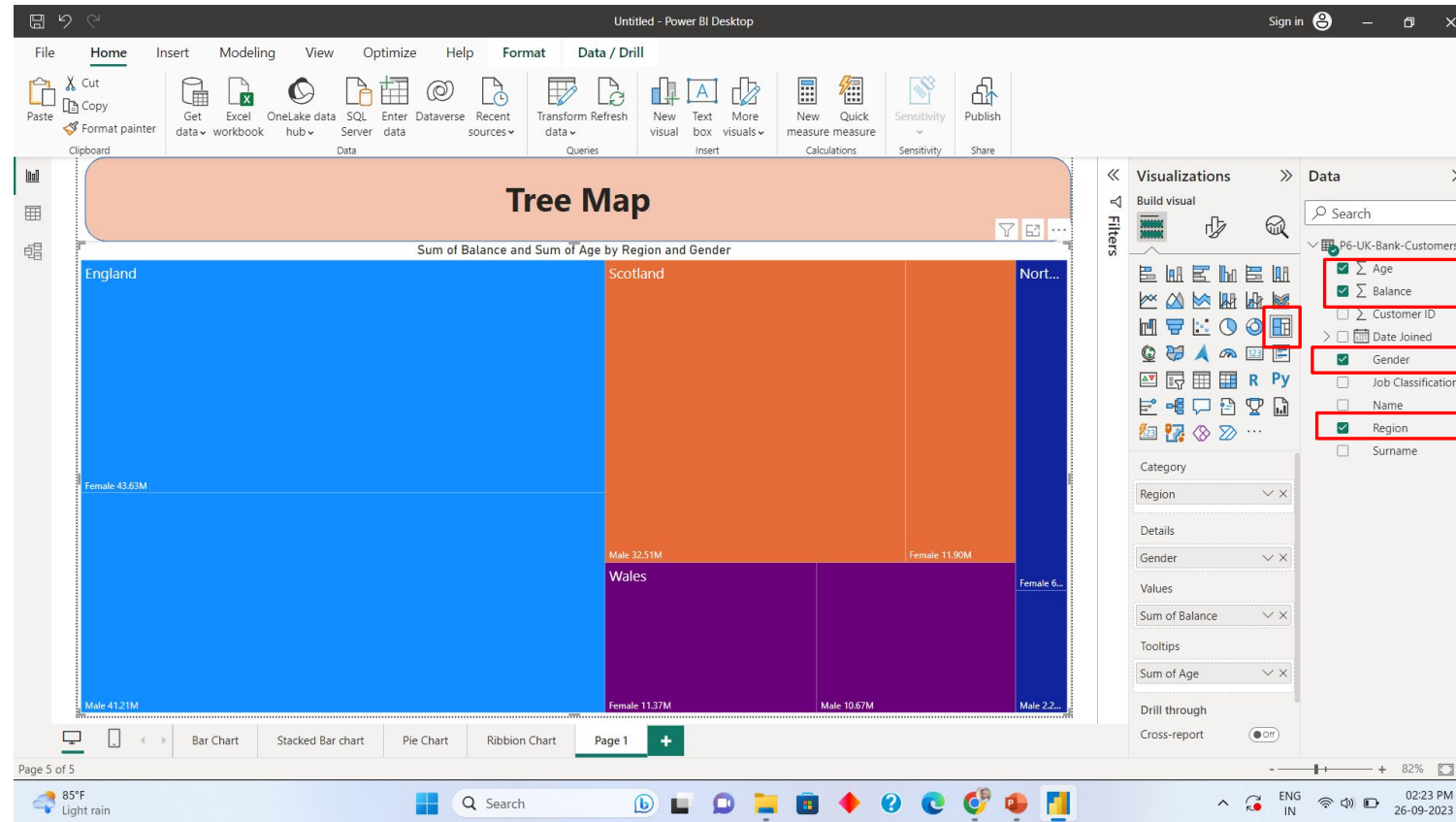
# Pie Chart



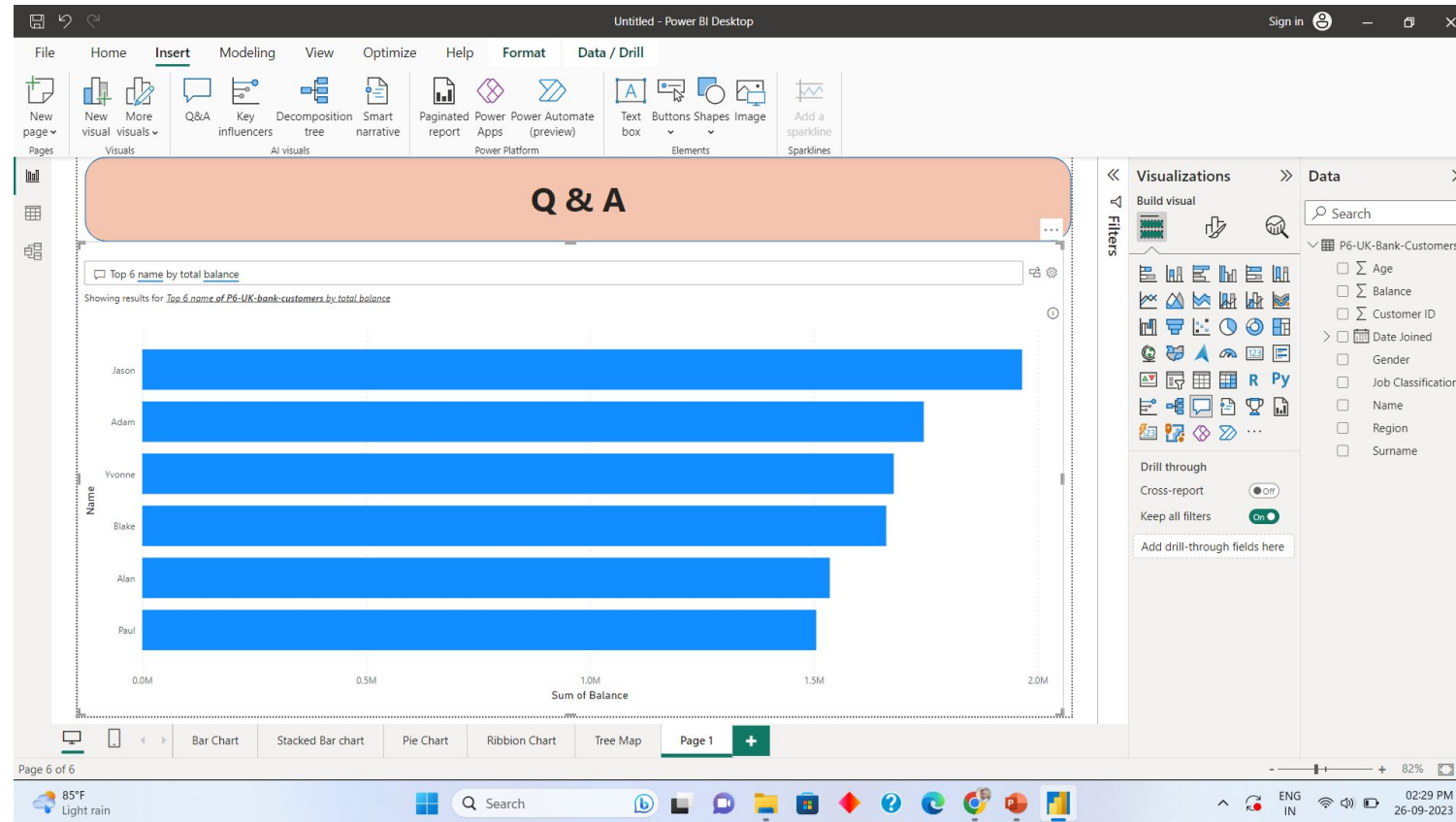
# Ribbon Chart (Requires at least 1 date column)



# Tree Map



# Q&A



# Saving Power BI files (.pbix)

Save Button

Session1 - Power BI Desktop

Save

Home Insert Modeling View Optimize Help Format Data / Drill

Q & A

Job Classification vs Total Balance Pie chart

40.22M (25.2%)

78.07M (48.91%)

41.33M (25.89%)

Job Classification

- White Collar
- Blue Collar
- Other

Visualizations

Format visual

Filters

Search

P6-UK-Bank-Customers

- ☐ Age
- ☐ Balance
- ☐ Customer ID
- ☐ Date Joined
- ☐ Gender
- ☐ Job Classification
- ☐ Name
- ☐ Region
- ☐ Surname

Question field

Text

Background

Underline

Submit button

Reset to default

Restatement text

Suggestions

On

Page 6 of 6

85°F Light rain

Search

ENG IN

02:33 PM 26-09-2023

# Thank you

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PING ME ON SKYPE IF YOU HAVE ANY QUERIES