

POWER BI PROJECT PRESENTATION

**Dashboard Name : HR
Data Analysis**

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AGENDA :

- ❖ Introduction of Power Bi
- ❖ What is Power Bi Desktop
- ❖ What is Power Query Editor
- ❖ Get Data & Cleaning process
- ❖ Data Visualization
- ❖ Using Multiple charts for report
- ❖ Final step Dashboard creation

POWER BI :

- ✓ Power Bi is Business Intelligence tool introduced by Microsoft in 2011.
- ✓ It helps us to Import data from various data sources and turn it into a valuable reports and we can share the reports with anyone easily.



What is Power bi desktop?

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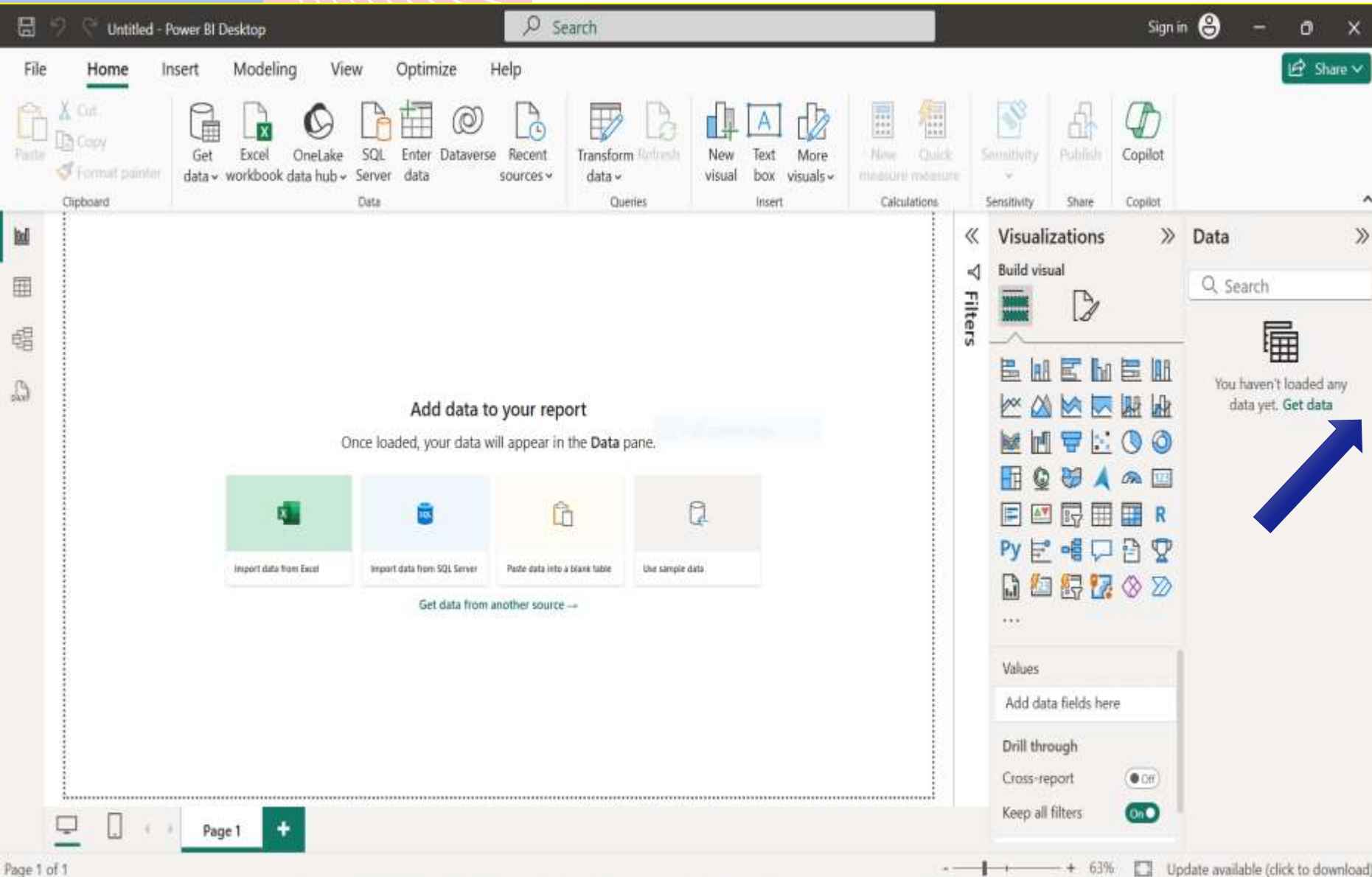
- ✓ Power Bi Desktop is an open-source Application developed and designed by Microsoft
- ✓ It allows users to connect, to transform and visualize your data with ease
- ✓ Power Bi Desktop lets users build visuals and collection of visuals that can be shared as a reports with your colleagues or your clients in your organization.

What is power query editor ?

- ✓ Power query is a BI tools designed by Microsoft for Excel.
- ✓ Power query allows you to import data from various data sources and will enable you to clean, transform and reshape your data as per the requirements.
- ✓ Power query allows you to write your query once and then run it with a simple refresh.

GET DATA & CLEANING PROCESS :

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Get data :

- In Power BI, "**Get Data**" is the **starting point** for bringing in data from different sources into your Power BI project.

Cleaning process :

- Check for and remove duplicate and Null values.
- We can Handle missing values, Fixing datatype, creating New columns etc.

TRANSFORM DATA TO POWER QUERY :

- In this HR Datasheet, we have some NULL values and need to remove the fields from the data. We can add new column if required.

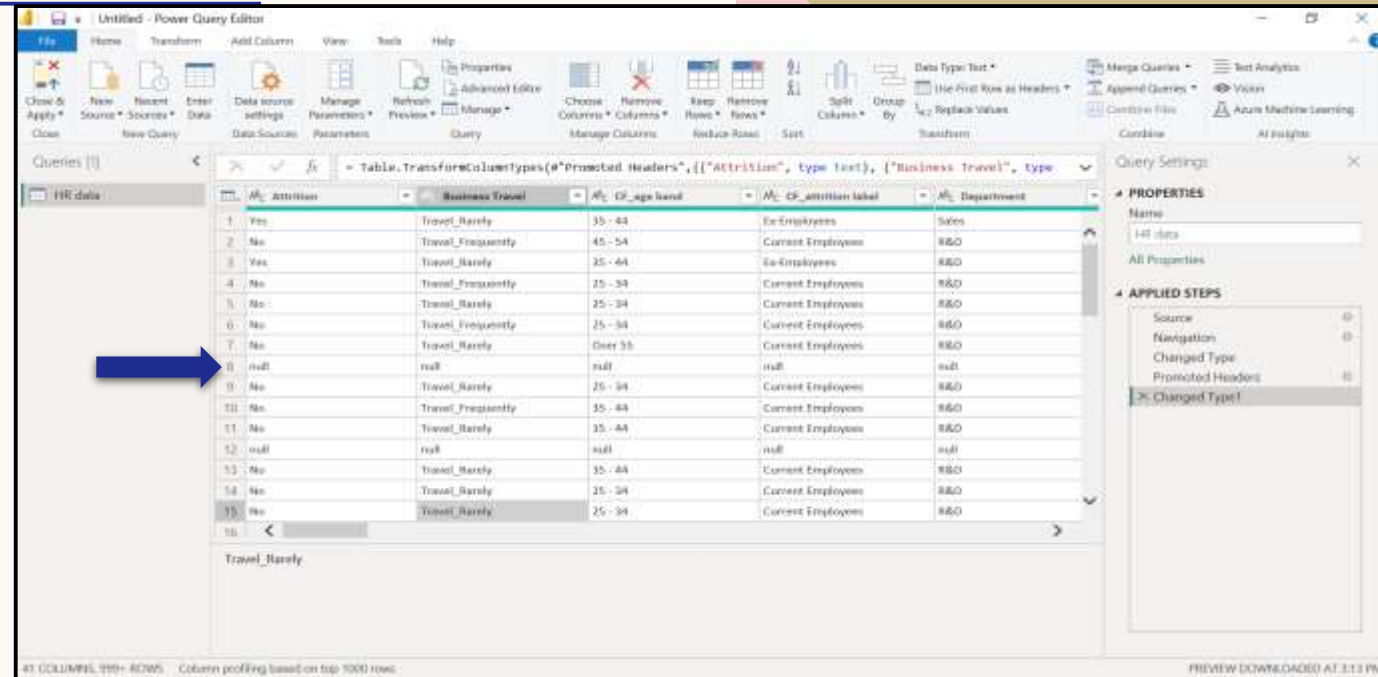


Table.TransformColumnTypes(#"Promoted Headers",{"Attribution", type text}, {"Business Travel", type text})

	Attribution	Business Travel	CP_age band	CP_attrition label	Department
1	Yes	Travel_Rarely	35 - 44	Ex-Employees	Sales
2	No	Travel_Frequently	45 - 54	Current Employees	R&D
3	Yes	Travel_Rarely	35 - 44	Ex-Employees	R&D
4	No	Travel_Frequently	25 - 34	Current Employees	R&D
5	No	Travel_Rarely	25 - 34	Current Employees	R&D
6	No	Travel_Frequently	25 - 34	Current Employees	R&D
7	No	Travel_Rarely	Over 55	Current Employees	R&D
8	null		null		
9	No	Travel_Rarely	25 - 34	Current Employees	R&D
10	No	Travel_Frequently	35 - 44	Current Employees	R&D
11	No	Travel_Rarely	35 - 44	Current Employees	R&D
12	null	null	null		
13	No	Travel_Rarely	35 - 44	Current Employees	R&D
14	No	Travel_Rarely	25 - 34	Current Employees	R&D
15	No	Travel_Rarely	25 - 34	Current Employees	R&D

DATA CLEANING PROCESS :

- After completing all the cleaning process, we need Click **“Close and Apply”**.

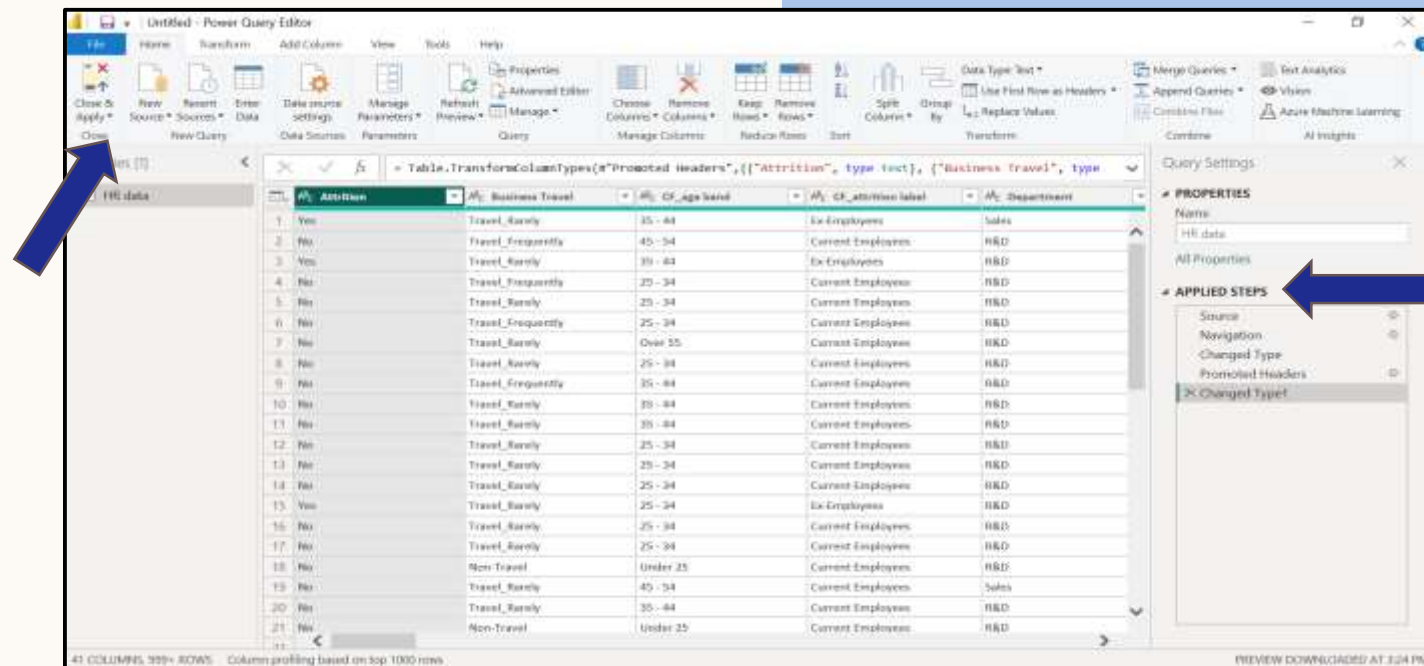


Table.TransformColumnTypes(#"Promoted Headers",{"Attribution", type text}, {"Business Travel", type text})

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11	No	Travel_Rarely	35 - 44	Current Employees	R&D
12	No	Travel_Rarely	25 - 34	Current Employees	R&D
13	No	Travel_Rarely	25 - 34	Current Employees	R&D
14	No	Travel_Rarely	25 - 34	Current Employees	R&D
15	Yes	Travel_Rarely	25 - 34	Ex-Employees	R&D
16	No	Travel_Rarely	25 - 34	Current Employees	R&D
17	No	Travel_Rarely	25 - 34	Current Employees	R&D
18	No	Non-Travel	Under 25	Current Employees	R&D
19	No	Travel_Rarely	45 - 54	Current Employees	Sales
20	No	Travel_Rarely	35 - 44	Current Employees	R&D
21	No	Non-Travel	Under 25	Current Employees	R&D

- We can view all the Correction which we have made in power query Editor it will be available in **“Applied Steps”**

❖ CANVAS BG SETTINGS :

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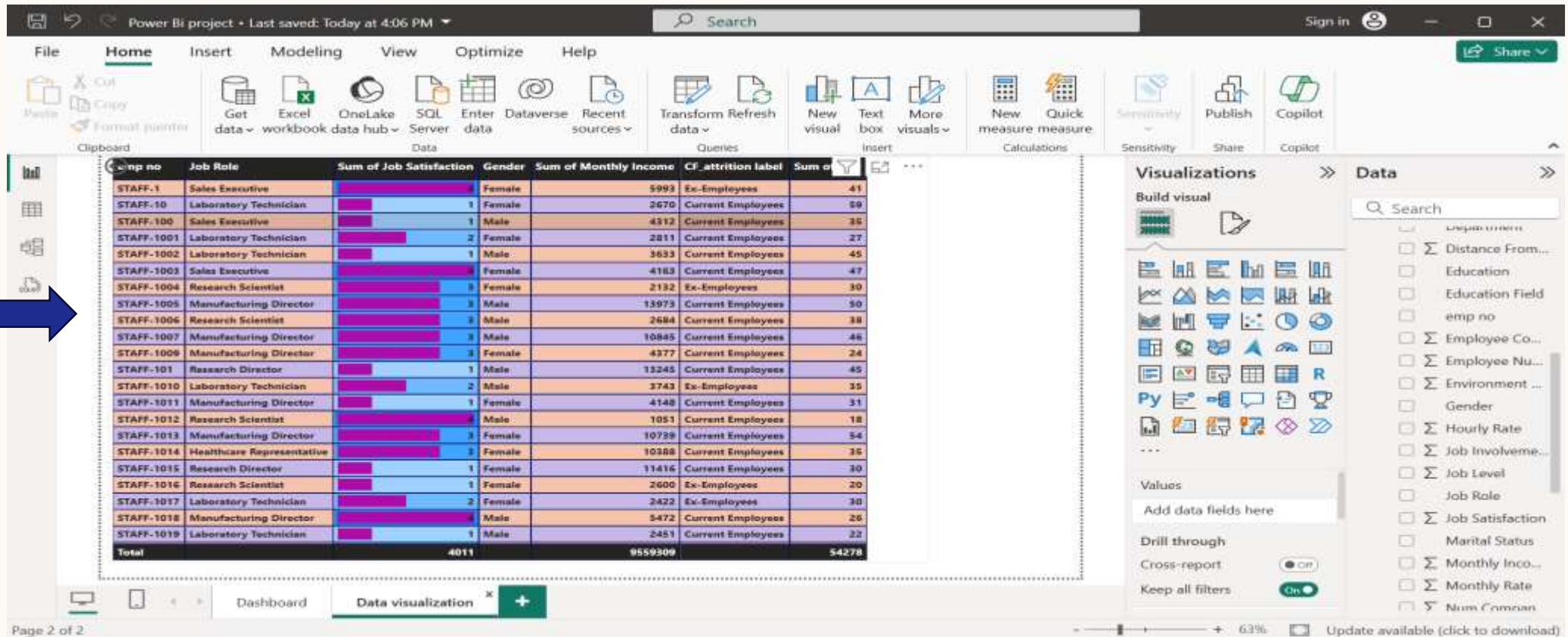
- ✓ we can able to set the Back ground color or image to our report page, that is called canvas. Here I have chosen analytical image as Background.

The screenshot displays the Microsoft Power BI Desktop application. The top ribbon includes tabs for File, Home, Insert, Modeling, View, Optimize, and Help. The Home tab is active, showing various toolbars for data sources (Get data, Excel, OneLake, SQL Server, Enter data, Dataverse, Recent sources), queries (Transform, Refresh data), visualizations (New visual, Text box, More visuals), calculations (New measure, Quick measure), and sharing (Sensitivity, Publish, Copilot). The main workspace shows a report page with a background image of a hand holding a glowing sphere. Overlaid on this background are several data visualizations: a bar chart titled 'Projected sales of main products in 2013', a pie chart titled 'Distribution of market share among the major industry players', a line chart titled 'Projected sales of main products in 2013', and a smaller pie chart titled 'Market share of activity'. On the left side of the workspace, there are two purple buttons labeled 'Start' and 'Hide'. On the right side, there are two panels: 'Visualizations' and 'Data'. The 'Visualizations' panel shows a 'Build visual' section with various chart icons and a 'Values' section with a text box 'Add data fields here'. The 'Data' panel shows a search bar and a list of data fields under the 'HR data' category, including 'Σ -2', 'Σ 0', 'Active employ...', 'Σ Age', 'Σ Age group', 'Attrition', 'Attrition rate', 'Attrition count', 'average age', 'Business Travel', 'CF_age band', 'CF_attrition la...', 'Σ CF_current Em...', 'Σ Daily Rate', and 'Department'.

❖ DATA VISUALIZATION :

- ✓ In Data Visualization part, we can add varieties of Charts, Maps and using other elements like slicers, Buttons and drill through options to make our Report more effectively.

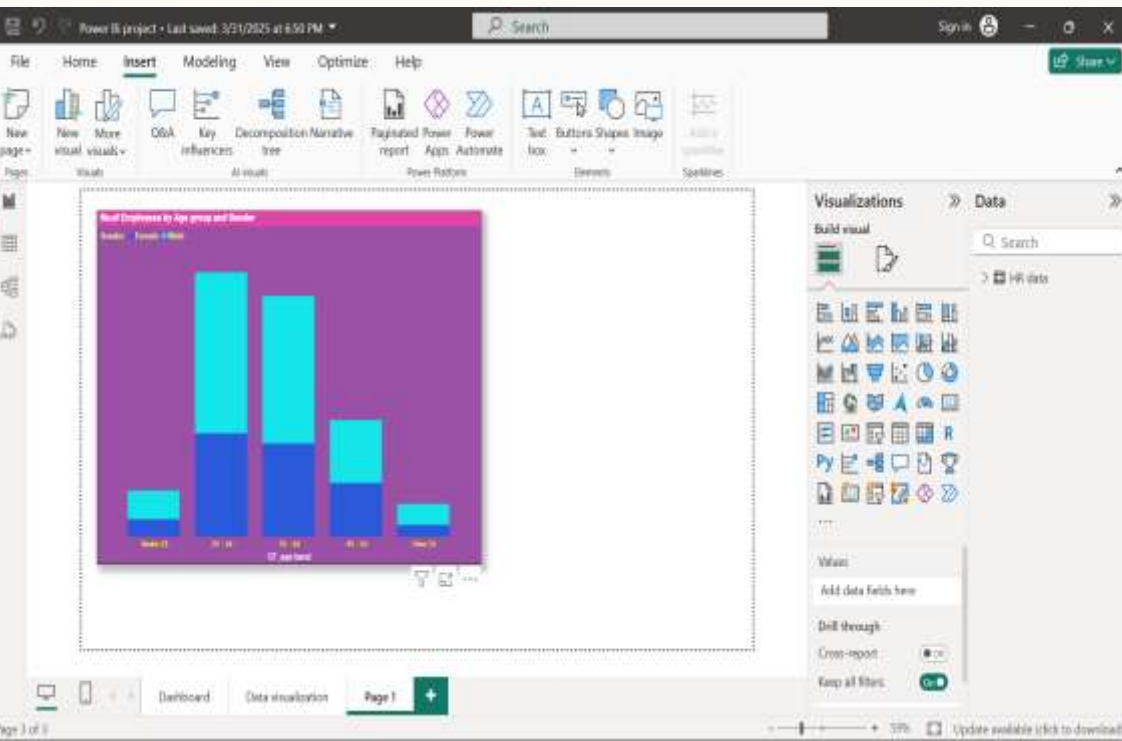
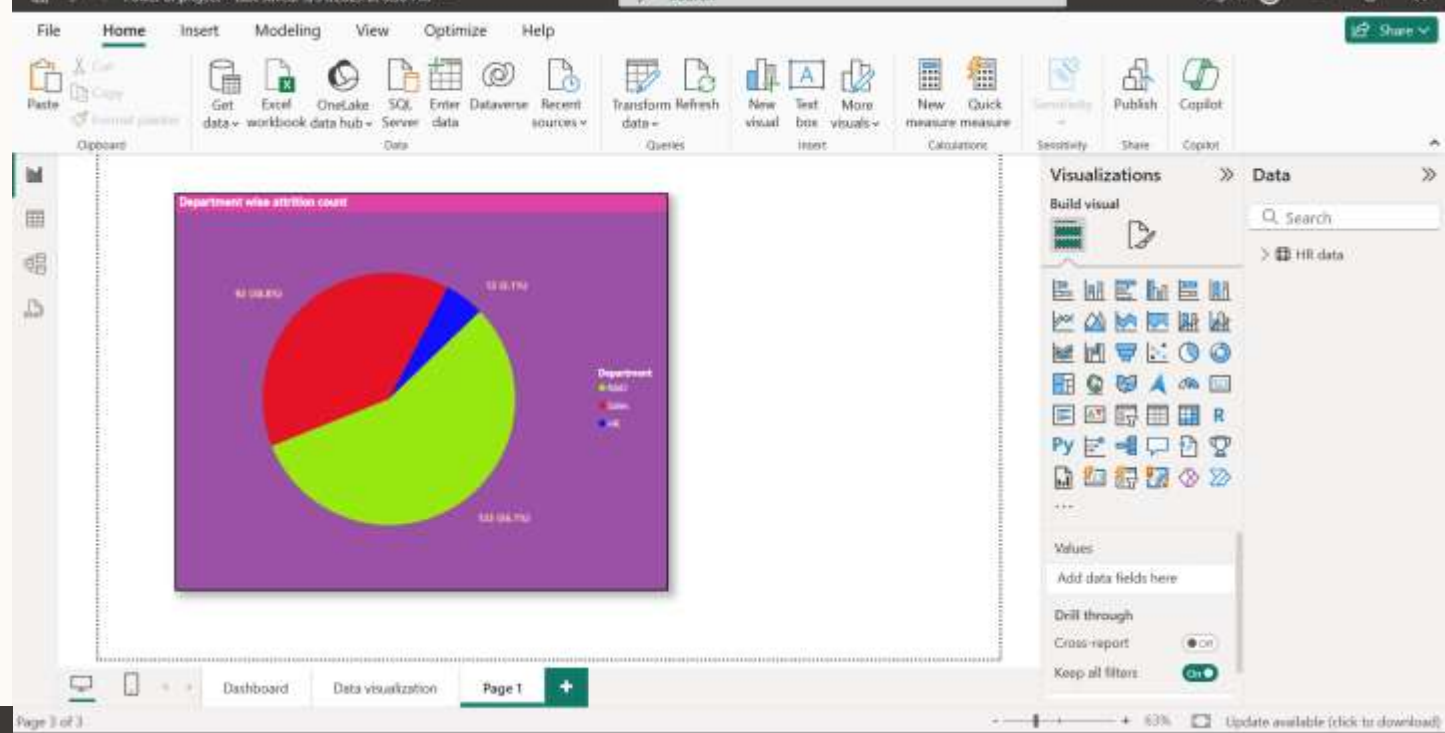
Data
Visualization



PIE CHART CREATION

✓ Here We have created a Pie chart to illustrates the distribution of employee attrition across different departments. Each slice represents the count of employees who have left the organization from that specific department. Like,

- R&D
- Sales
- HR

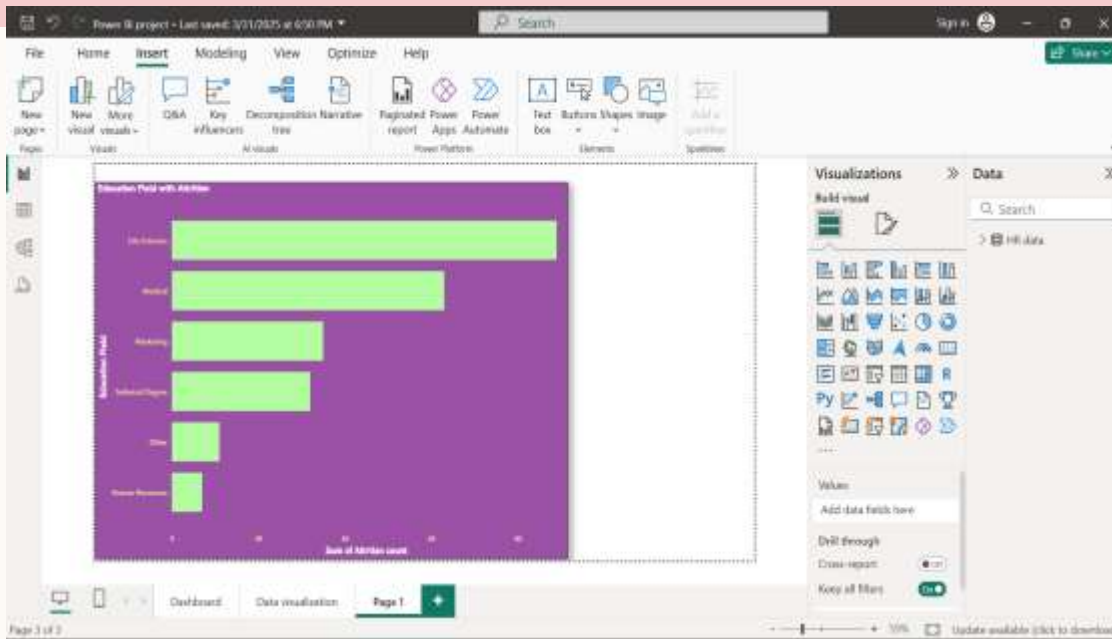


❖ Stacked Bar Chart

- ✓ In this Dashboard we have created the Age group and Gender wise attrition count Using “Stacked Bar Chart”.
- ✓ There are five categories of Age Group people is available
 - Under -25
 - 25-34
 - 35-44
 - 45-54
 - Over 55

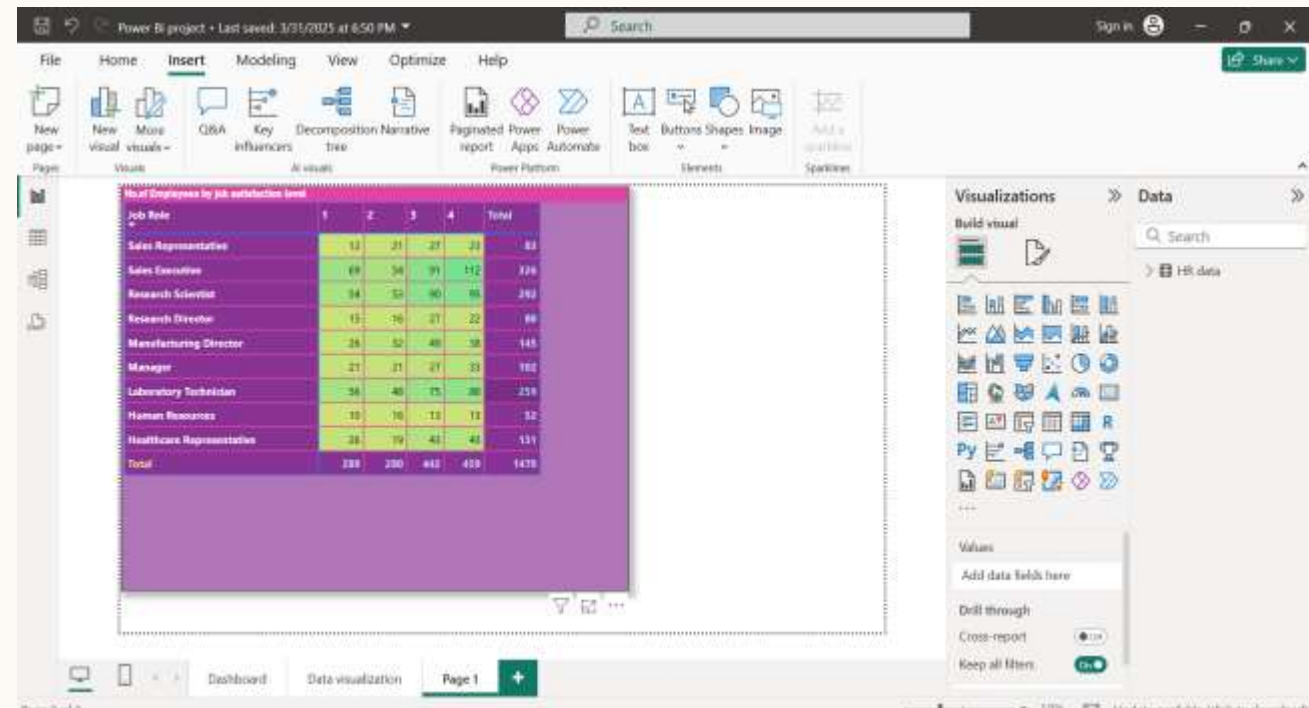
❖ Clustered Bar Chart

- ✓ We have using Clustered Bar chart to categorize the attrition count by Using Educational field



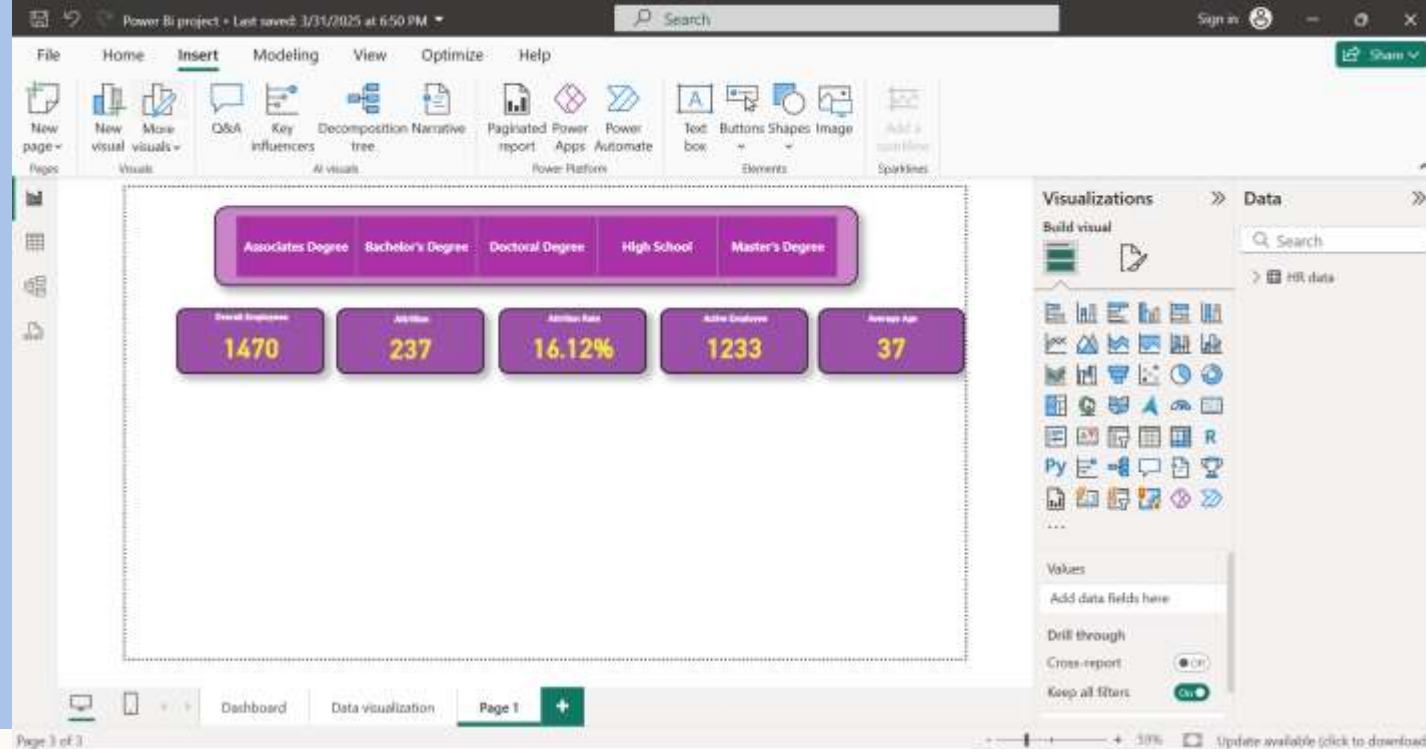
❖ Matrix :

- ✓ In this Dashboard we have Finding Employee job satisfaction level Using Matrix



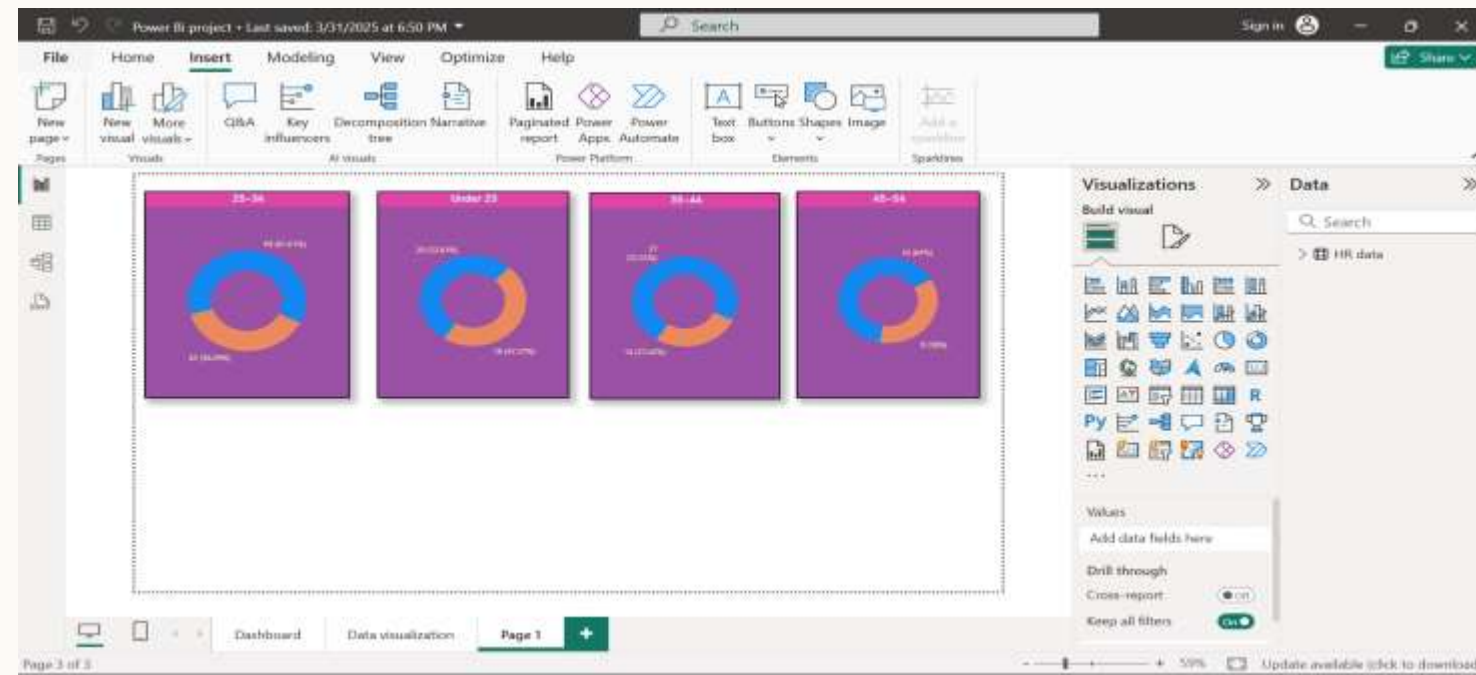
❖ Slicers and Cards:

- ✓ Here we added some cards to find the Total no. of attritions and active Employees.
- ✓ It helps us to find the value Easily.



❖ Donut Chart:

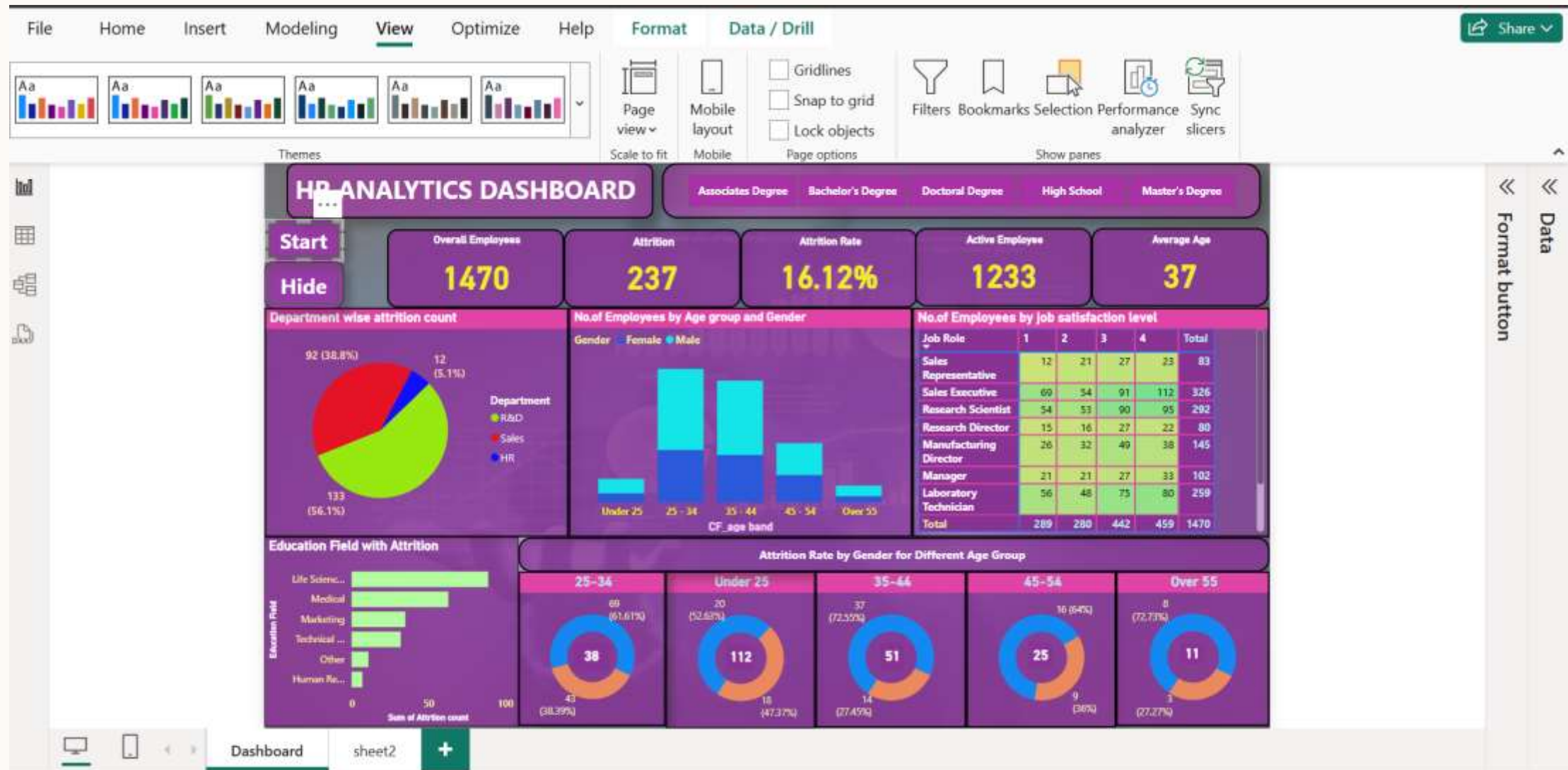
- ✓ Similar with pie chart, in this chart we can find the Employee attrition count in age groupwise separately



DASHBOARD FULL REPORT:

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❖ Here I created a Dashboard, based on the attrition count details of the Employees for HR analytical purpose



Thank
you

