Cards in PowerBI

When it comes to comprehending data entirely, it is critical to rely on robust visualization tools. Multi-Row cards in Power BI are an excellent method to explain the data visually. Visual-oriented methods for easier comprehension are our entry point into the technology-driven era in which we now live. It is critical to acquire the necessary skills in today's environment. Looking at numbers and raw, complex data can be detrimental to the business's overall efficiency, which is why it is preferable to have accessible, organized data that fosters a sense of hierarchy.

To better understand and engage with our business, we must have a clear handle on all of its activities and generate performance-driven reports that measure productivity. Tools such as Power BI assist us with performance, and we will learn more about Data Visualizations and its efficacy in creating and configuring them. To continue our Power BI Series, we will look at the fundamentals of Multi-Row Cards and how to configure them in Power BI.
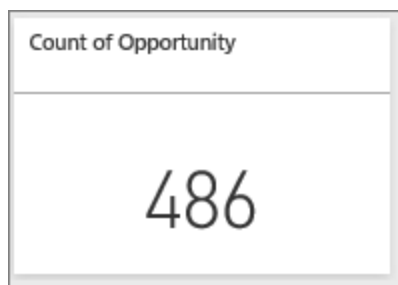
To begin discussing multi-row cards, it is necessary first to discuss Card Visualizations.

Card Visualizations In Power BI

Card visualization is used to track and present data in a compressed format. It could be the total sales, market share, net profit, or any other measurable aspect that should be highlighted. This sort of visualization allows us to display data in either a single or group format. This is where Power BI's two distinct sorts of Cards come into play. Microsoft Power BI supports two distinct types of cards:
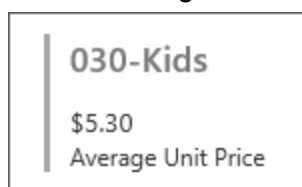
Single Number Cards

These cards can be made with the report editor or with Q&A. They are used to illustrate a single digit, as illustrated below:
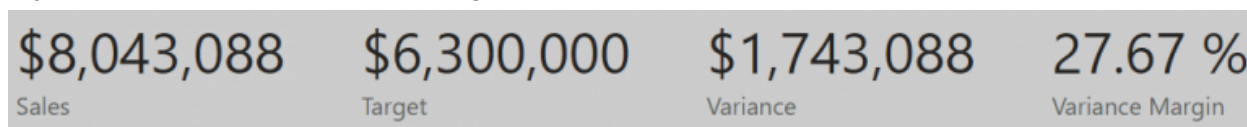
Multi-Row Cards

As shown in the illustration below, these cards are used to display data in a group or section format. Having stated that, let us take a closer look at the Multi-Row Card visualization type.

What Are Power BI's Multi-Row Cards?

Multi-Row cards are a type of card visualization in Power BI that enables the grouping and presentation of values in a summary format. While single-digit numbers are ideal for displaying a single value, if we need to convey multiple values, the Multi-Row Card is the way to go. These cards are used to exhibit sums or a collection of figures that are not related to any other reference.

For instance, this multi-row card illustrates the amount of money received through sales, the objective, the variance, and the margin of variance.

Depending on the objectives of the business, the data may provide important information that should be highlighted and segregated from other references. One can demonstrate the revenue generated by the sale of specific product categories. In general, these visualizations are more goal-oriented, as they display the status of specific data via several rows and columns.

Best Uses For Multi-Row Cards

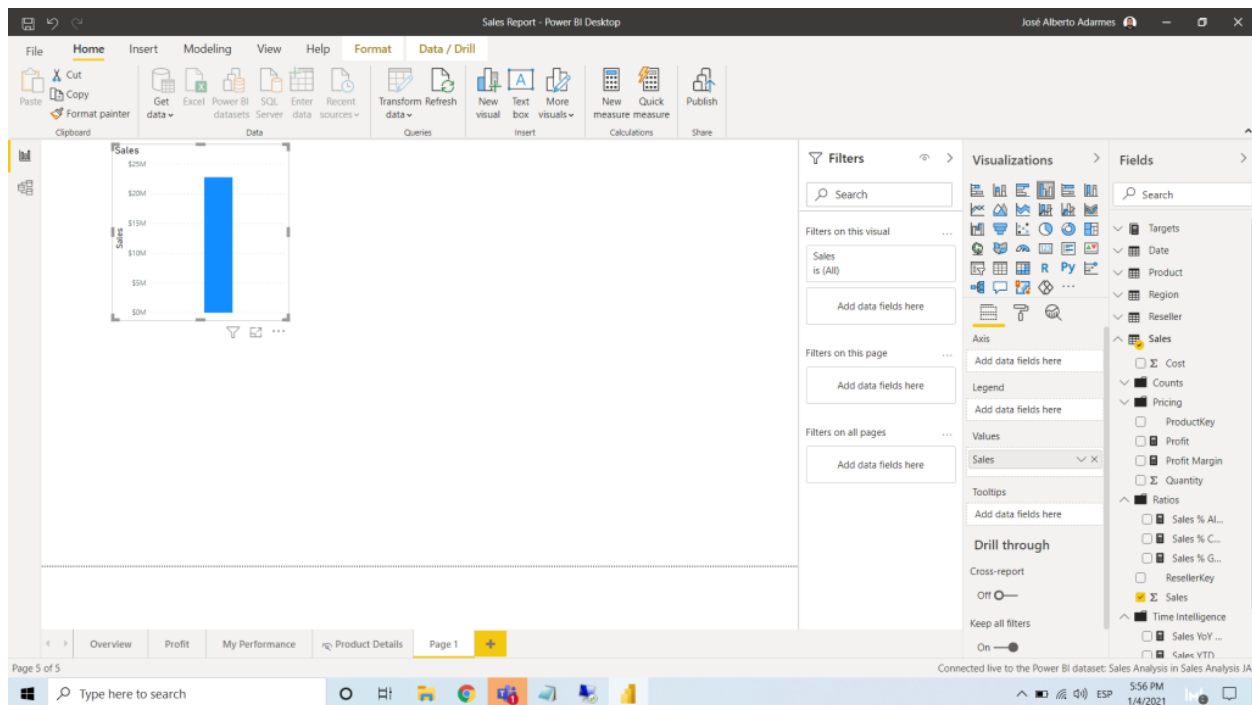This is a simple representation, but how can one make the most of it?
The problem with Multi-Row Cards or Single Number Cards is that they are so straightforward on their own that there is little to do with them. However, despite their simplicity, they may be beneficial for adding fantastic statements to the tops of reports or dashboards. As previously said, they are excellent for displaying the status of a process or a goal, which contributes significantly to one's business's decision-making process.

For instance, when there is limited time to read and comprehend charts and graphs, having the summary results on a set of cards enables speedy decision-making. Multi-Row Cards function similarly to the punch line in a sentence. They make the ultimate remark by combining data from multiple visuals. Thus, another method to use them is to supplement charts and other visuals by emphasizing pertinent information within the various categories that comprise these images. Now, let us look at how one may create one's own multi-row Power BI cards.

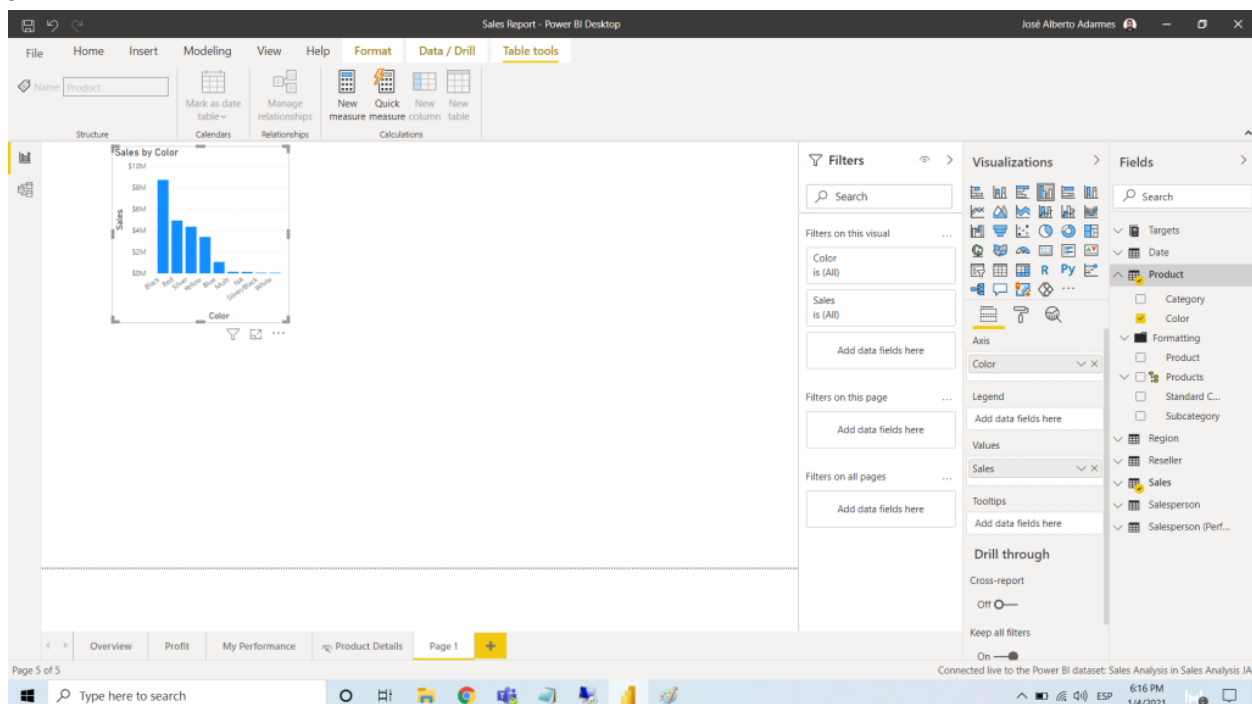## How To Set Up A Multi-Row Card Using Power Bi?

Step 1: Create A Chart With Columns

To begin, drag and drop the "Total Sales" field from the Fields area to the "Canvas" section to build a Column Chart automatically.

Step 2: Add The Color Field

After constructing a column chart, the "Color field" must be added to the "Axis field." This will generate a column chart with the "Sales Amount" for each product.
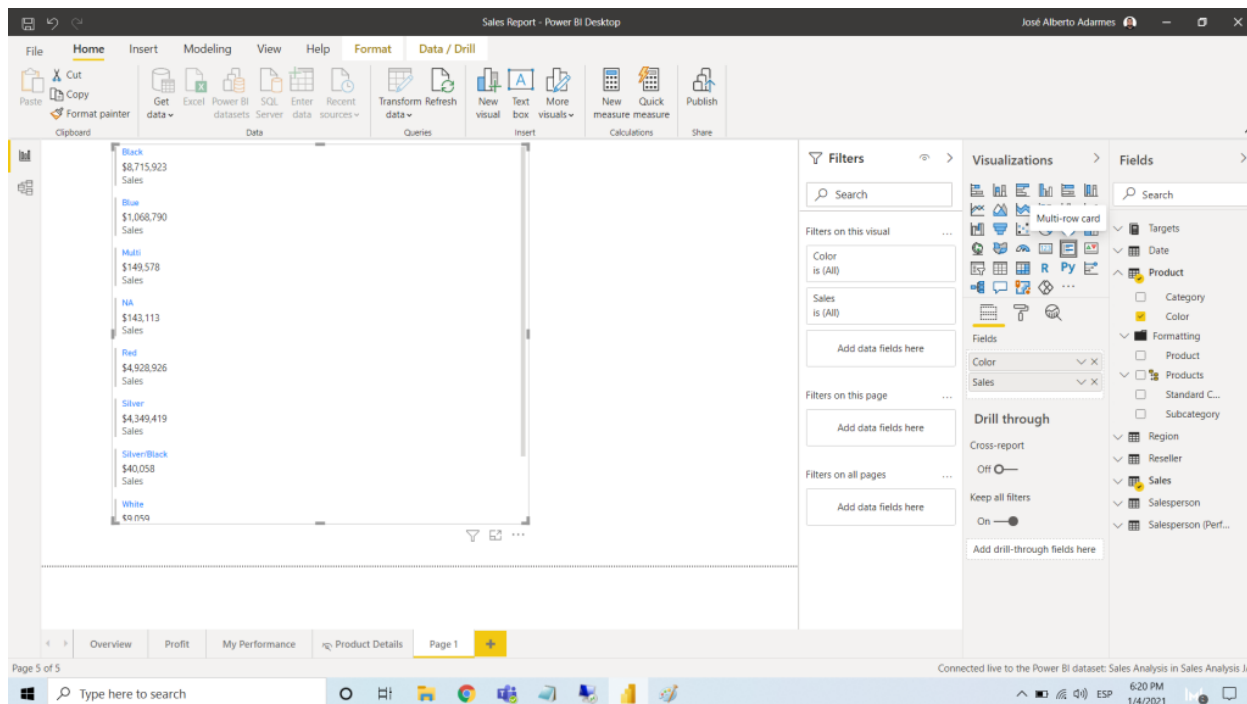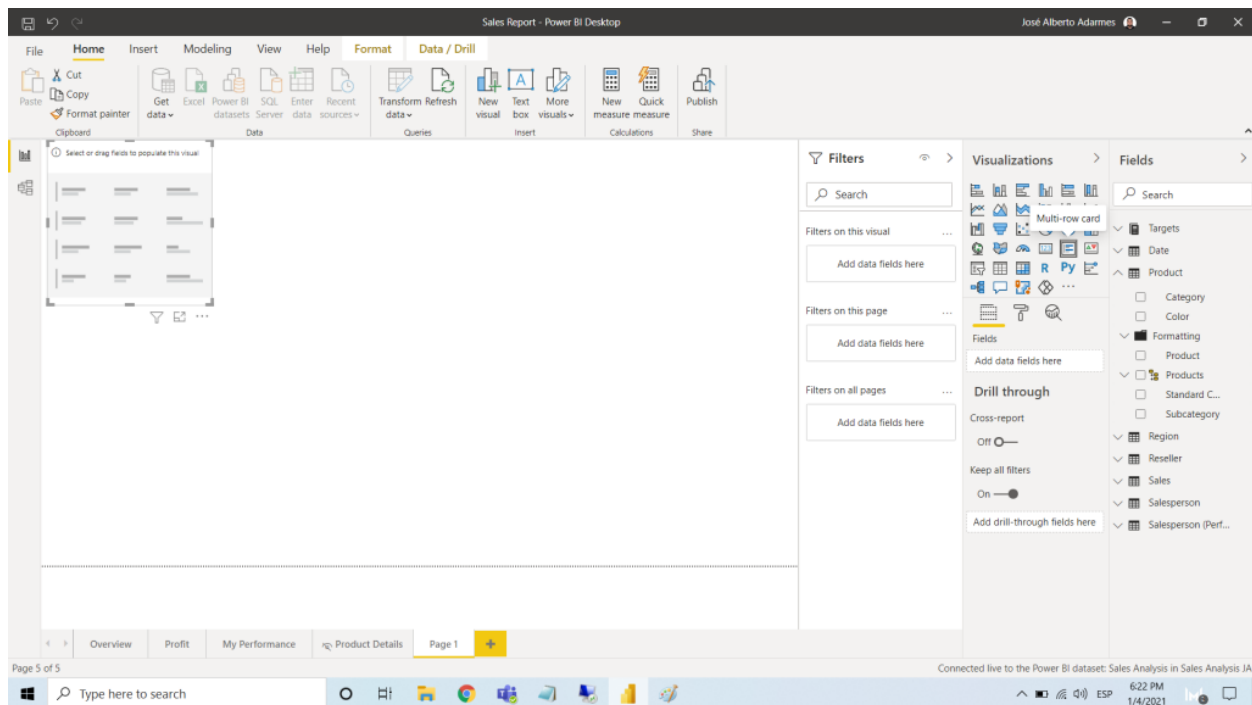
Step 3: Create The Multi-Row Card

Finally, click on the Multi-Row Card under the Visualization section to convert the Column Chart to a Multi-Row Card automatically.

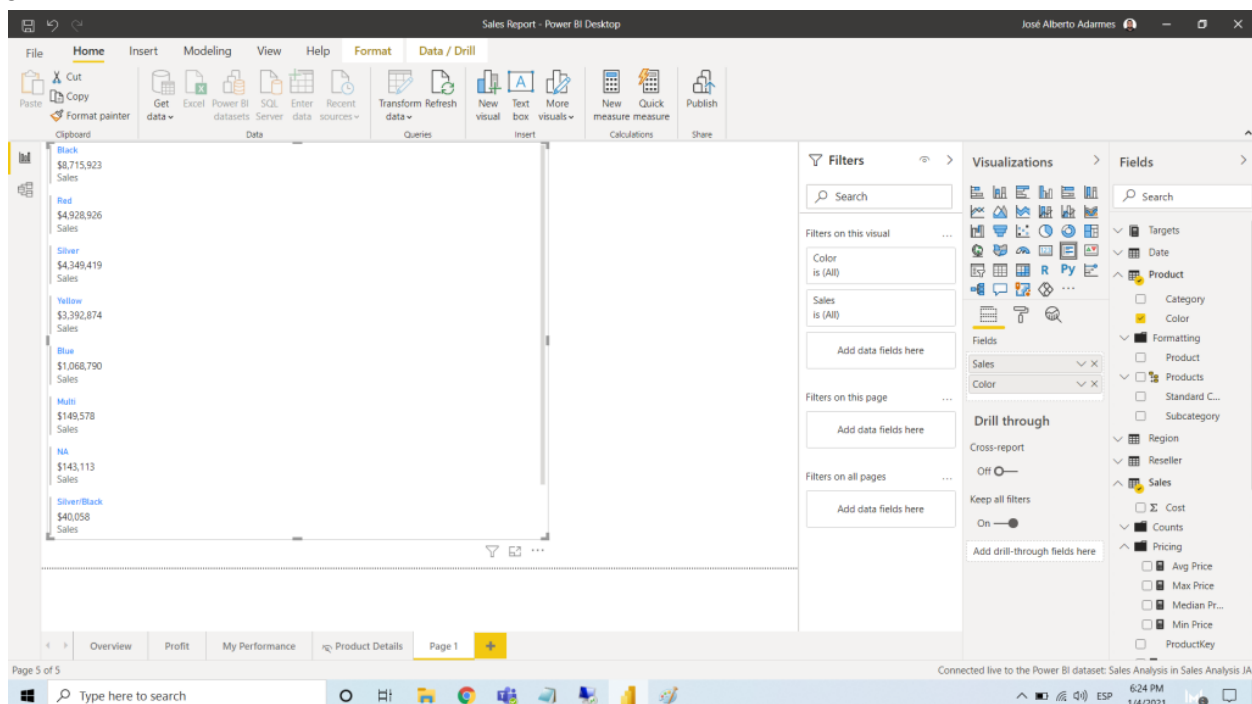Alternatively, one can create a Multi-row Card in the following manner:

Step 1: Create A Multi-Row Card With Dummy Data

To begin, select the "Multi-Row Card" option from the "Visualization" section to build a Multi-Row Card using dummy data.

Step 2: Create The Multi-Row Card

Drag and drop the "Product Color" and "Total Sales" fields to the Fields section. This will generate a Multi-Row Card that includes the Product's Color and Total Sales:

Step 3: Format The Multi-Row Card
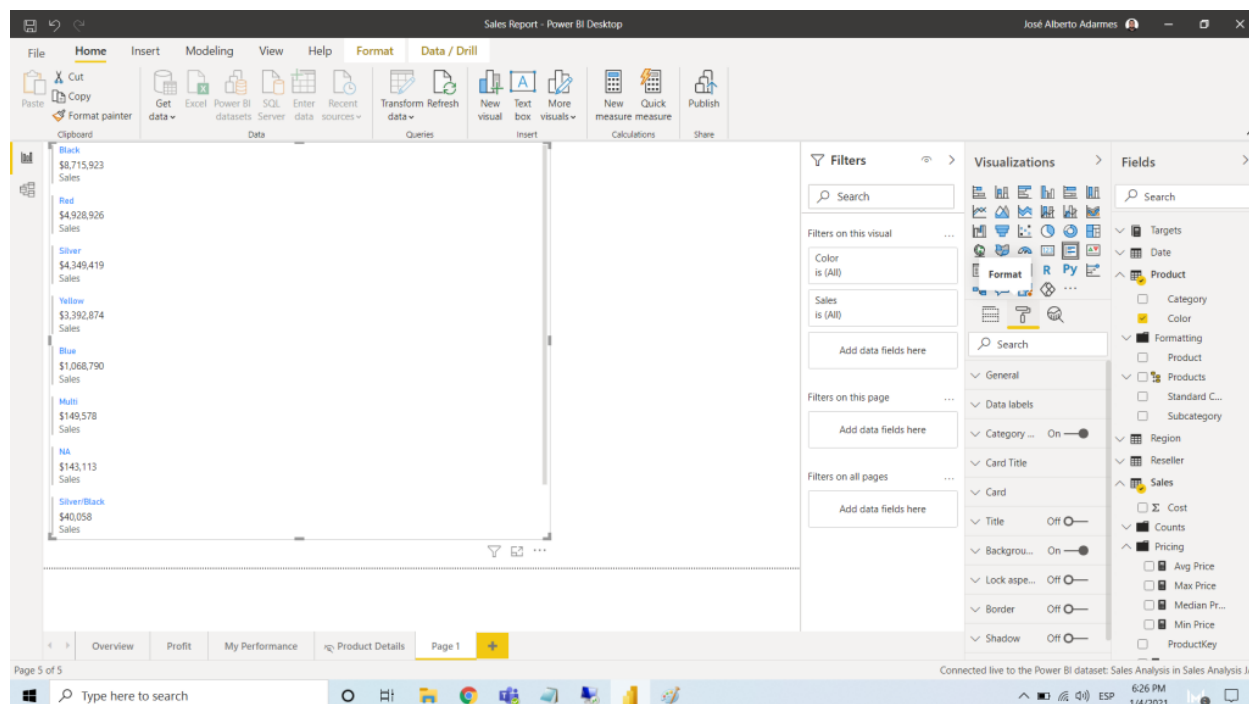
To format a Multi-row card, click anywhere on it and navigate to the Format section. The Format Section has the following settings that allow one to customize the size, color, and font type of the Multi-row card:

- General: This field allows one to manage the card's dimensions. For instance, the height, width, X-axis, and Y-axis positions.
- Title: One can customize the card's title by changing the font style, background color, and many more.
- Data label: This controls the font color and size of the data label.
- Category: This allows one to modify the font style and hide the card's column name.
- Background color: This section allows one to customize the color of the background of one's Multi-row card.
- Border: This feature allows one to customize the card's border and color.

Pros And Cons Of Using Multi-Row Cards

Multi-Row Card Benefits:

- They are capable of pertinent grouping information.

- Because they display the most pertinent information, they might aid in speeding up the decision-making process in a corporation.
- They automatically align.
- They work hand in hand with other visuals to convey a statement.

Multi-Row Cards Cons:

- They do not provide detailed information.
- Compared to Single Number Cards, Multi-Row Cards cannot be utilized to create Power BI Service alerts.

Now, before we conclude, let us discuss Data Visualization and its significance.

What Is Data Visualization?

According to Microsoft, "Data Visualization breathes life into data, transforming you into the master storyteller of the insights hidden within your numbers."

This is mainly true, as organizations today create massive amounts of data. Marketing performance, sales revenue, customer interactions, inventory management, manufacturing data, and costs; the list of key performance indicators is limitless. As the numbers continue to grow, data processing must be managed to give understandable insights. Thus, data visualization serves as a means of representing and contextualizing raw data graphically. In other words, one is a translator, and the data is the foreign language that must be translated so that everybody understands the message.

What Is The Importance Of Data Visualization?

Data visualization is critical to comprehend since it enables one to assess what is occurring in one's business. It enables one to investigate trends and clusters, unexpected patterns, and a great deal more information about business operations. It is easier to put together a plan tailored to current requirements with the gathered data and associated graphic elements. It is easier to notice patterns in a visually summarized style. Making the best use of one's data enables you to gain insights. Consider for a moment that one is required to discuss numbers, facts, and figures contained in spreadsheets and excel during a company meeting. This highlights the critical nature of data visualization.

Which Benefits Are Associated With Data Visualization?

There are numerous advantages to Data Visualization, and we have compiled a list:

1. Clear Understanding Of Information

If we keep things simple, data visualization enables us to handle data more effectively. With a firm grasp of the data, one can begin identifying solutions and developing strategies to improve one's business's operations.

2. Faster Identification Of Trends

When data is presented graphically, it is easier to identify trends. Identifying correlations and patterns enables you to face activities and issues that may affect your firm's overall success.

3. Immediate Action

Once you understand where the issue is or will be in the future (remember that data analysis may provide vital insights into everything that has occurred in the organization –past, present, and even future-), you can begin working on solutions and taking immediate action.

4. Collects Data

Data visualization enables the condensing of complex information into a concise image. This concludes our discussion of the benefits of data visualization; we will now discuss data visualization with Power BI and how it is even more effective.

How To Begin With Power BI Data Visualization?

Getting started with Microsoft Power BI data visualization is not as technical as one would assume. Power BI provides an intuitive/user-friendly framework for creating high-impact graphics. Let us begin with the fundamentals.

To begin using this platform, one must first give their company email address. one can link to various data sources, ranging from spreadsheets in Excel to streaming data and cloud services such as Google Analytics. Once you have created your data source, you can alter it to match your needs and show it any way you choose. Power BI enables the creation of a variety of distinct visualizations; one of these, which we will cover in this installment of the series, is the Multi-row card visualization.

Multi-Row Card Visualizations, as seen in this Power BI series, are easy to understand. They are used to gain a more rapid understanding of business reports or form a snap judgment regarding a decision. Learning how to convey your information effectively can make or break your business approach. Managing tools with Power BI is possible with the appropriate training.