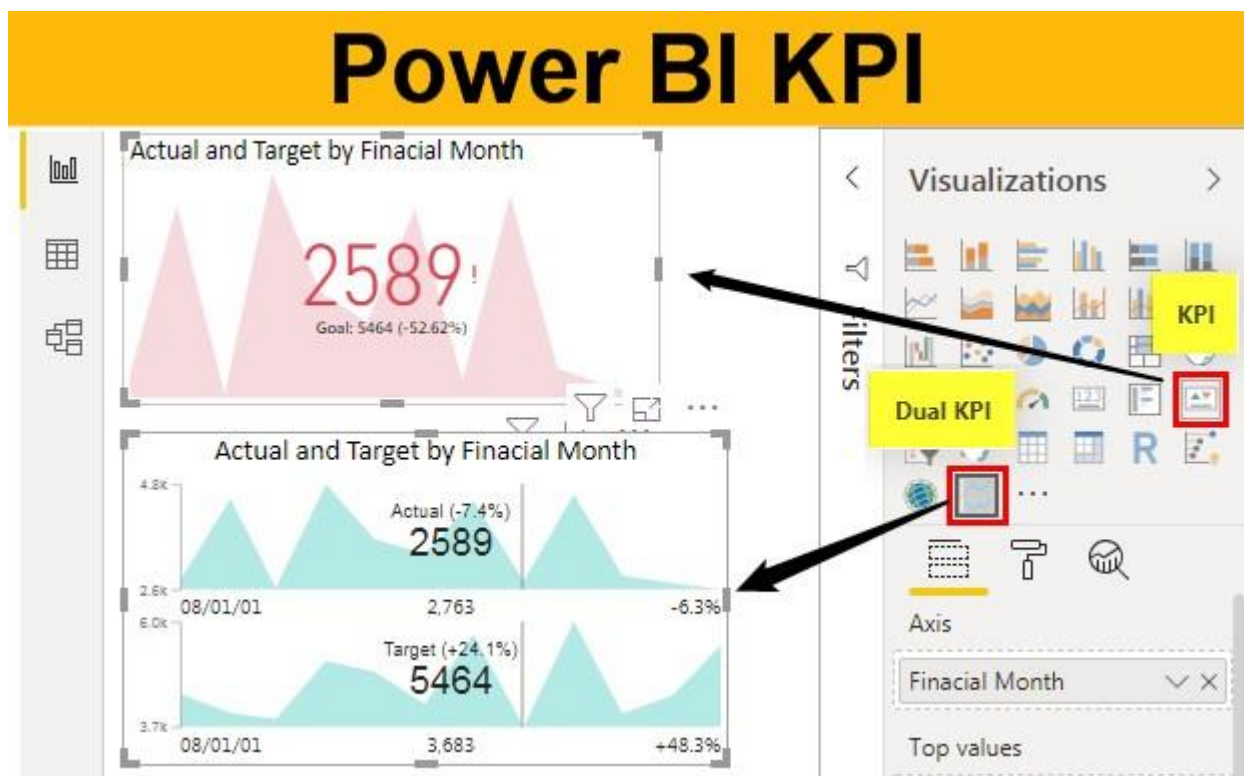


KPI

KPI is a key performance indicator and in power bi, there are some specific requirements for this type of KPI visualization, the mandatory requirements are a base context that is used to compare a given value to a target concept which is also known as the threshold.

What is Power BI KPI?

The concept of having KPI in Power BI Dashboards serves in smart ways to analyze the data. Every organization should have an eye on their progress towards the set of standards at the start of every financial or fiscal year. So tracking how business is moving towards its set of targets is the duty of every analyst in the company. Using Power BI visualization we can create this visual to see the real impact of the Target vs Actual report. We will see simple data of every month's Target vs Actual report to build KPI visual in Power BI.



e.g.

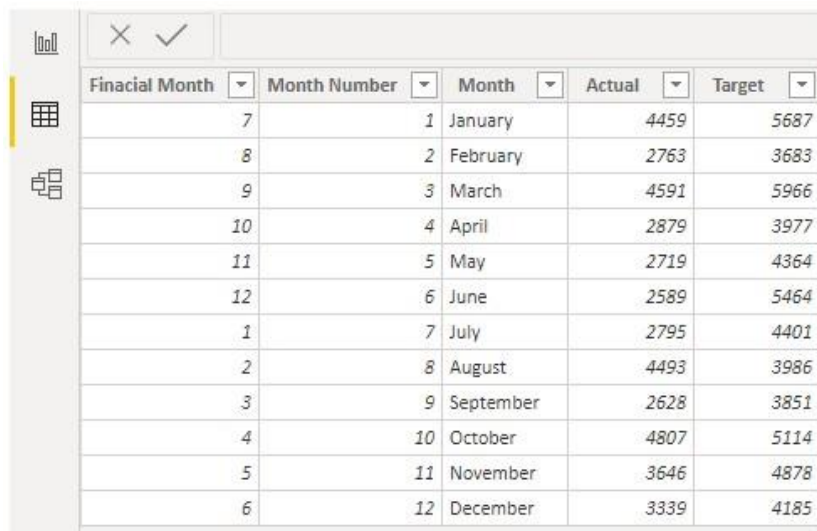
Examples to Build KPI Visual in Power BI

To build KPI visual we need sort of data first. Below is the simple data you can use to build KPI visuals.

	A	B	C	D	E	F
1	Finacial Month	Month Number	Month	Actual	Target	
2	7	1	January	4,459	5,687	
3	8	2	February	2,763	3,683	
4	9	3	March	4,591	5,966	
5	10	4	April	2,879	3,977	
6	11	5	May	2,719	4,364	
7	12	6	June	2,589	5,464	
8	1	7	July	2,795	4,401	
9	2	8	August	4,493	3,986	
10	3	9	September	2,628	3,851	
11	4	10	October	4,807	5,114	
12	5	11	November	3,646	4,878	
13	6	12	December	3,339	4,185	
14						

Copy and paste the data directly to Power BI or you can load the data from excel file provided in course site.

I have directly uploaded the excel file to Power BI and under the "Data" section I can see this table.

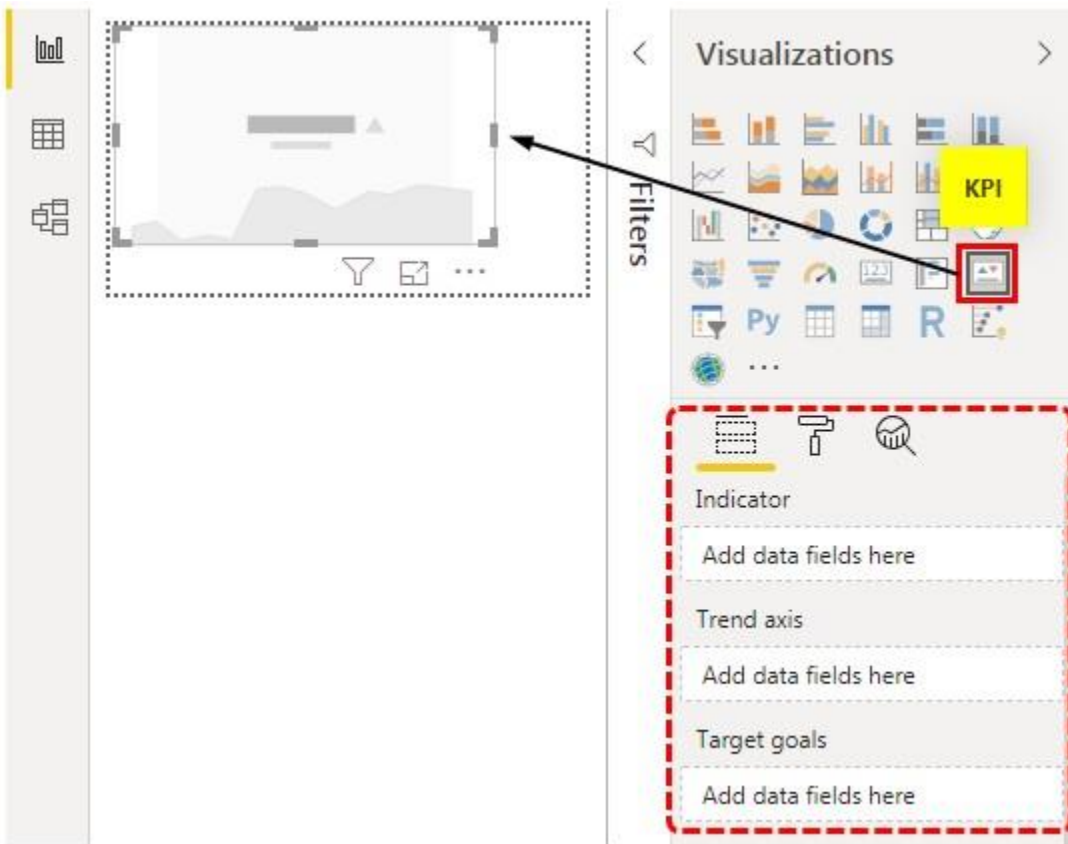


The screenshot shows the Power BI interface with the Data view selected. The table displayed is identical to the one in the previous block, showing financial data for each month from January to December. The columns are labeled 'Finacial Month', 'Month Number', 'Month', 'Actual', and 'Target'. The values for 'Actual' and 'Target' are formatted with commas as thousands separators.

Finacial Month	Month Number	Month	Actual	Target
7	1	January	4459	5687
8	2	February	2763	3683
9	3	March	4591	5966
10	4	April	2879	3977
11	5	May	2719	4364
12	6	June	2589	5464
1	7	July	2795	4401
2	8	August	4493	3986
3	9	September	2628	3851
4	10	October	4807	5114
5	11	November	3646	4878
6	12	December	3339	4185

Example #1 – Simple KPI

Go to the "Report" view and click on "KPI" visual. For this, we have three sets of data fields to be inserted i.e. "Indicator", "Trend Axis", and "Target Goals".

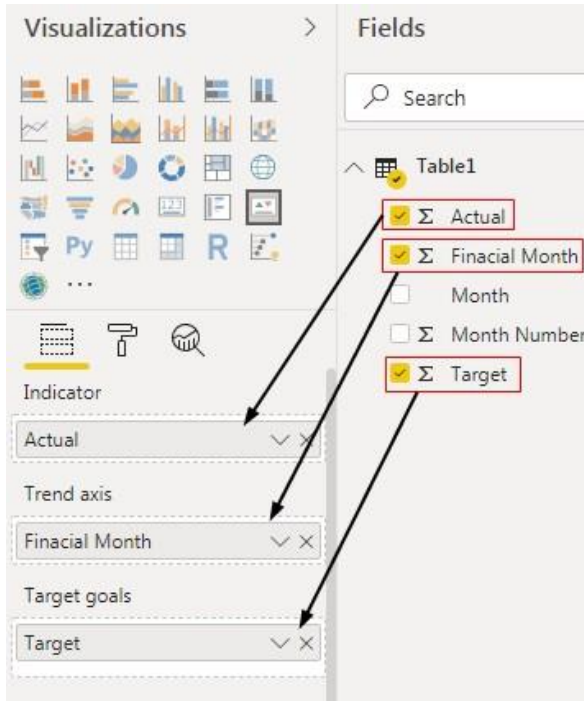


Indicator: This is nothing but what are the actual values that indicate against the **targeted goals**.

Trend Axis: This will be our month names or number which will not show in the horizontal axis.

Target Goals: This doesn't require any special introduction, this will be our target column against the **indicator**.

- Now select the inserted Power BI KPI Visual. Drag and drop "Fiscal Month" to "Trend Axis", "Actual" column to "Indicator" and "Target" column to "Target Goals".



- This should create a Power BI KPI chart like the below one.

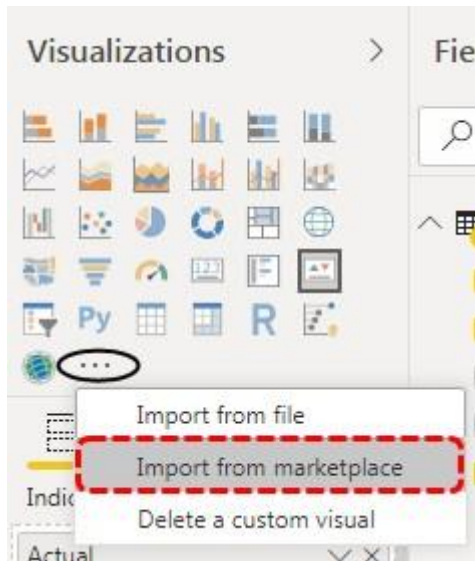


So, our KPI graph is ready to read. This is a built-in KPI chart. Apart from this, we can install various other charts from the market place of Microsoft.

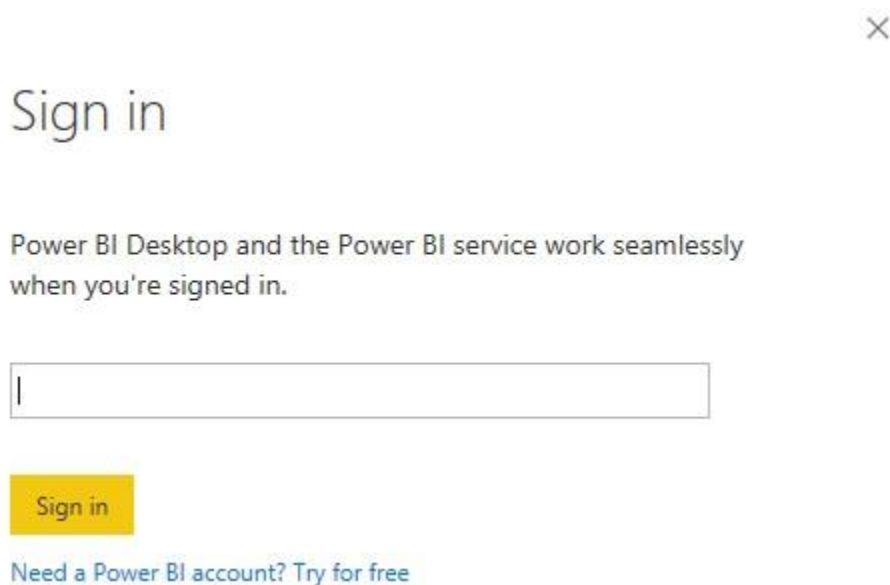
Example #2 – Dual KPI

Follow the below steps to install custom visuals from the market place.

Step 1: Click on three horizontal dots under visualizations and choose “Import from market place”.




Step 2: Now it will ask you to sign in, you need to use any school or organization id to sign in. If you don't have an account it will ask you to sign up.



Step 3: Once you sign in it will take you to market place from where we can import custom visuals. You just have to click on the "Add" button to keep adding to your visualization list. Here we have added "Dual KPI" Visual.

Add-ins may access personal and document information. By using an add-in, you agree to its Permissions, License Terms and Privacy Policy.

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Bullet Chart



A bar chart with extra visual elements to provide additional context. Useful for tracking goals.
★★★★☆

Add

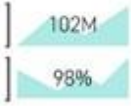
Histogram Chart



Visualises the distribution of data over a continuous interval or certain time period.
★★★★☆

Add

Dual KPI

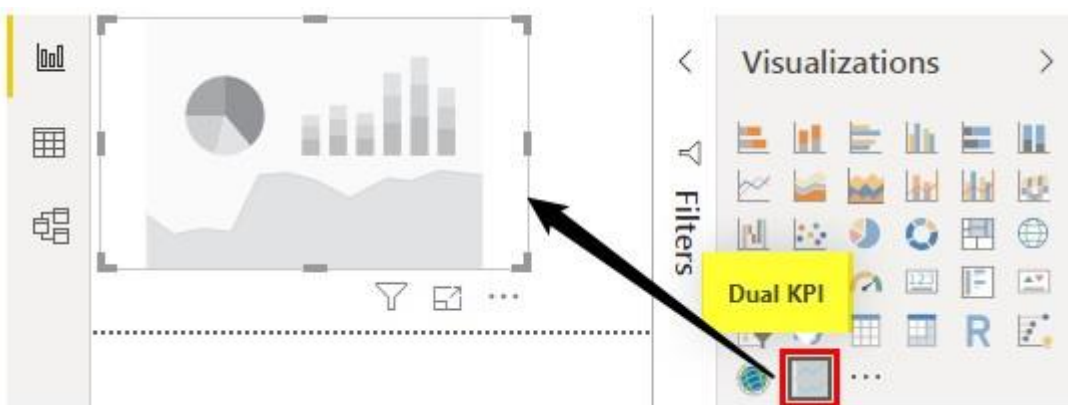


Efficiently visualizes two measures over time, showing their trend on a joint timeline.
★★★★☆

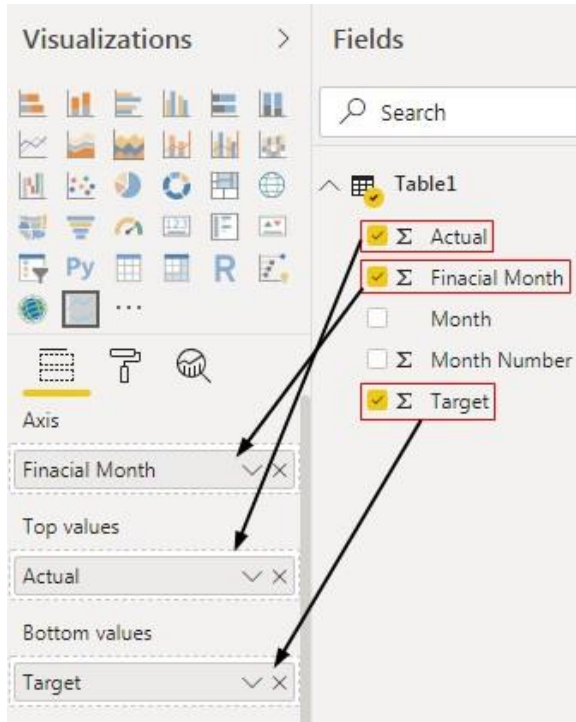
Add

After adding we can see these visuals under visualization list. Now let's create a **"Dual KPI"** chart to show the target vs actual graph.

- Insert Dual KPI chart visualization.



- Now drag and drop the fields as shown below.

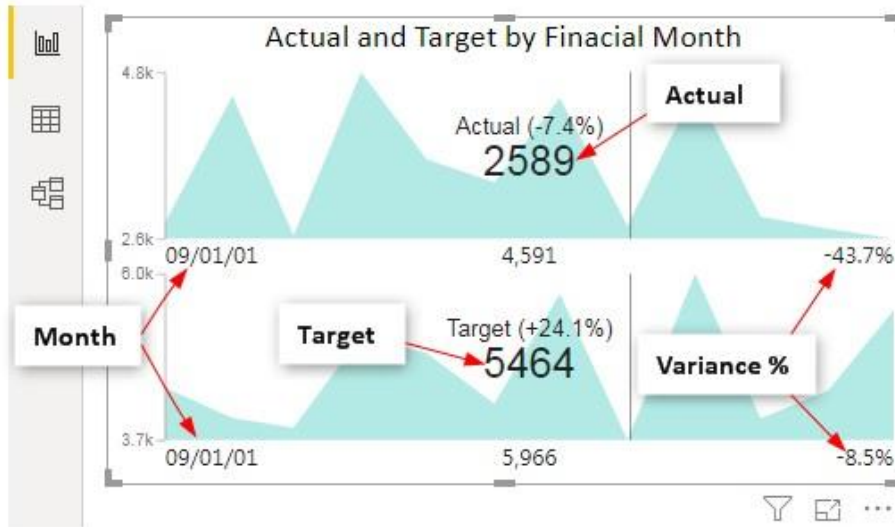


- So, our Power BI Dual KPI chart will look like this.



The beauty about this chart is when we hover our cursor it will show respective month target and actual values also the variance %.

- Here, I have placed my cursor on "September" month and I could see KPI numbers for this month.



Like this, we can create KPI charts in Power BI software to visualize target vs actual data.



Things to Remember

- KPI requires proper data to create Power BI KPI visuals.
- Default KPI often misleads the reader because it doesn't show the target axis line.
- You can import custom visuals from market place to create a different kind of KPI charts or visuals.