NICE SOFTWARE SOLUTIONS

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POWER BI TECHIE TALK'S

The New dimension of extracting branded information by playing with your data.

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TECHIE TALKS

Power Bl

"THE NEW DIMENSION OF EXTRACTING BRANDED INFORMATION BY PLAYING WITH YOUR DATA."

So get ready to break the mold of traditional BI development on **every Thursday** by performing Technology Practical's using Power BI.

Stay TUNED for More!

#PowerBI #techietalks #BusinessIntelligence #knowledge

www.nicesoftwaresolutions.com

Overview

Power BI provides its user to easily embed a report to their website. Any report created through Power BI can be embedded. Here we have embedded a Power BI report with NSS website. Link: http://nicesoftwaresolutions.co m/power-bi-2/

Advantages

Embedding a report to the website can help users of the organization to easily access the report. The customers and users who visit the website will be able to view the report.

Embedding Power BI Dashboard in Website!

Implementation

Embed code

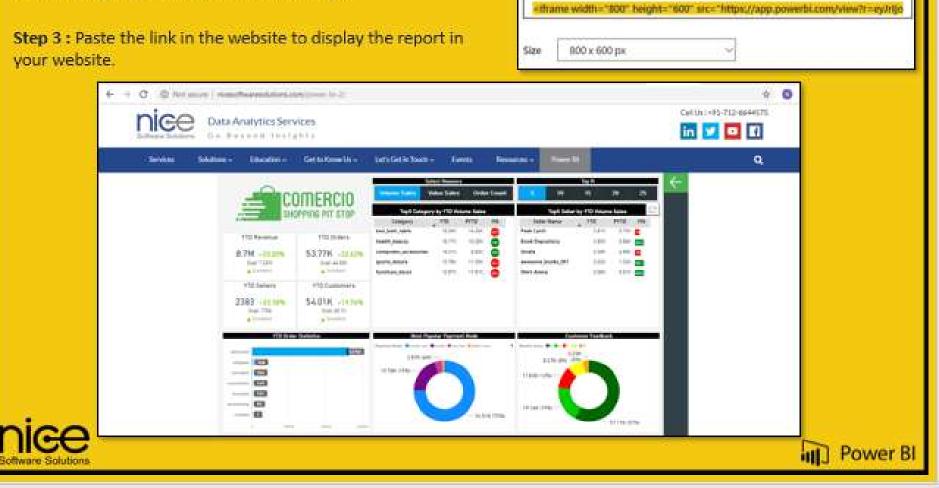
Unit you can send in small

HWI you can paste into your blog or website

https://app.powerbi.com/view?r=ey/rljoiMjYzMTY3YWIINzEzZ500ZTMwLWEzZDi

Step 1 : Publish the report in Power BI service account. Once the report is published, click on File button and select the option of Publish to web.

Step 2 : Copy the HTML code as required. The Size can be selected to generate custom link accordingly.



Overview

You can subscribe yourself and your colleagues to the report pages, dashboards, and paginated reports that matter most to you. Power BI emails a snapshot to your inbox. You tell Power BI how often you want to receive the emails.

Advantages

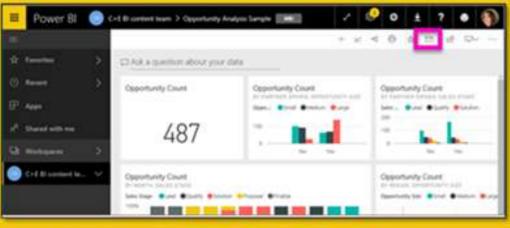
You receive an email with a snapshot of the report page or dashboard, with a link to open the report or dashboard. On mobile devices with Power BI apps installed, selecting this link launches the Power BI app, instead of opening the report or dashboard in the Power BI web site.

Courtesy : Ashwin Kulkarni

Email subscription in Power BI

Implementation

Step 1 : Login to service account and go to any report from the top menu bar, select **Subscribe** or select the envelope.



Step 2 : Use the yellow slider to turn the subscription on and off. Enter email address also enter subject and message.

Step 3 : Select a Frequency for your subscription: Daily, Hourly, Weekly, Monthly, or After Data Refresh (Daily).

Step 4 : User will receive email on scheduled time with screenshot of the dashboard/report.



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Overview

Alerts can be set by Users, set the rule for any measure in the visualization.

Set the condition and threshold for the alert to trigger, set the notification frequency. It will trigger an email to be sent to the user setting the alert.

Advantages

Alerts can be used to notify users if when data in the dashboards changes beyond limits the user has set.

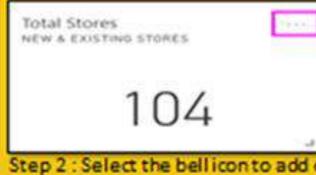
Courtesy : Noel Samuel

Set Alert and Trigger Email in Power BI

In this example, we are creating an alert that notifies you once a day if the number of total storesgoes above 100.

Implementation

Step 1 : Start on a dashboard and select the ellipses.



Step 2 : Select the bellicon to add one or more alerts.

Step 3 : To start, select + Add alert rule, ensure the Active slider is set to On, and give your alert a title. Titles help you easily recognize your alerts.

Step 4 : Scroll down and enter the alert details.



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 Alert for Total Stores 	8
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Condition Threshold	
Above • 100	
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Maximum notification frequency	
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 At most every 24 hours At most once an hour Alerts are only sent if your data changes. Total Count of stores exceeded Total Count of stores exceeded to 104. 	
 At most every 24 hours At most once an hour 	

Power BI TECHIETALKS

Overview

PowerApps can be used to create Apps that can run on Android, iOS, Windows. PowerApps can also be used to create feedback forms. It can also be used to input data into database.

Advantages

PowerApps forms can be integrated with Power BI reports to take suggestions or feedbacks by the users.

Use Transaction Services in Power BI - PowerApps Integration

Implementation

Step 1 : Import the PowerApps visual from the Microsoft store. Use the visual in the PBIX file. Select all the fields from the table which you want to use in the app or form.

Step 2 : Click on create new, this will lead you to PowerApps studio portal.

Step 3 : The us apps with the

_		Im	ports	
Search on Indent#	9	Shipment_Type	Country_Code	DATE
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6/27/2019 5:30	>		HAZIRA 🗸	In Prog
6/27/2019 5:30	>			



Overview

Sometimes, there is a situation when a client requests that whenever they click on an email link, it will automatically open the link in a new page. Power BI provides a functionality to show an email as a hyperlink.

Advantages

- This functionality lets you send emails directly to clients by opening Outlook just by one click.
- User doesn't need to switch apps manually.
- TO and FROM fields are automatically filled.

Courtesy : Ashwin Kulkarni

Open outlook using Power BI

Implementation

Step 1 : Insert a textbox in the report to enter the email address. Select Textbox enter * and select font as wingdings



Step 2 : Enter email address with prefix as <u>mailto:</u> in URL field.

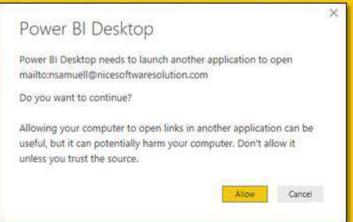
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Step 3 : Click on email link. And click on allow.



Step 4: It will open the selected mail browser to send the email. TO and from fields will be automatically filled.

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Overview

Are you looking to tell a story with your data? Or have you ever wanted your charts and reports to be highly tailored to your specific topic? The new infographic designer custom visual for Power BI gives you the flexibility to achieve this and more!

Advantages

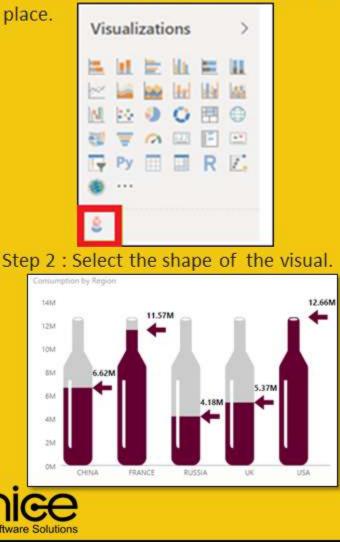
The infographic designer custom visual lets you control the specific appearance of lists, bar charts, and column charts with precise control of shapes, color, and layout so that you can represent information in a way that best tells the story of your data.

Courtesy : Ashwin Kulkarni

Infographic design visualization

Implementation

Step 1 : To create visual for drinks sold in a restaurant we will use infographic design. Import infographic visualization from market



Step 3 : Select design from range of visuals that suits best for your story.



Step 4 : Change shape/design of each visual according to your requirement..



Overview

You can create visually rich report tooltips that appear when you hover over visuals, based on report pages you create in Power BI Desktop. While creating such tooltip, it can include visuals, images, and any collection of items you create in the report page.

Advantages

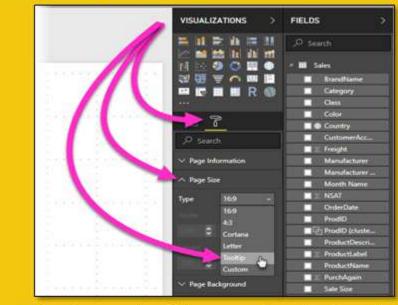
You can create as many tooltip pages as you want. Each tooltip page can be associated with one or more fields in your report. The tooltip you created on your tooltip page appears when you hover over the visual.

Courtesy : Ashwin Kulkarni

Use Report page as Tooltip

Implementation

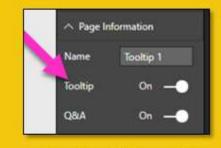
Step 1 : To get started, create a new report page by clicking the + button and In the Format pane of the Page Size card, select page size template as *Tooltip*.



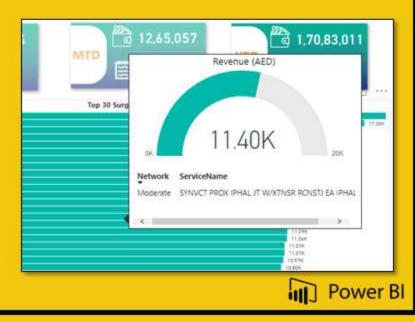
Step 2 : Go to view and set the page view to Actual size.



Step 3 : Turn on tooltip slider inside **Page information** in format pane of tooltip visual.



Step 4 : Create visual which need to be shown as tooltip and select tooltip page in tooltip fields of parent visual.



Overview

These are special type of Bar charts, where the data categories are listed vertically instead of the standard horizontal presentation, and the categories are ordered so that the largest bar appears at the top of the chart and so on.

Advantages

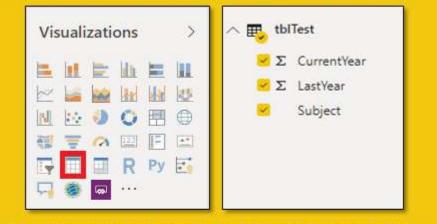
It shows the effect on the output of varying each input variable at a time, keeping all the other input variables at their initial (nominal) values. Creating Tornado Chart using table /grid visual will allow you to put data labels between two values.

Courtesy : Ashwin Kulkarni

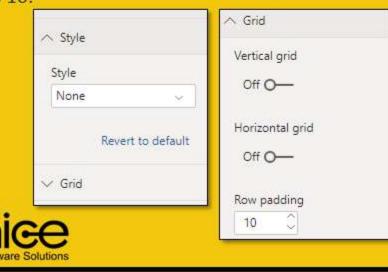
Customized tornado visual using table visualization

Implementation

Step 1 : To get started, select Grid visual and select values that you want to show in Tornado Chart.



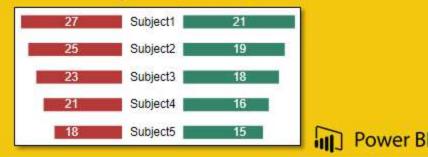
Step 2 : Select Style type as NONE and turn off both Vertical and Horizontal grids also make Row padding as 10.



Step 3 : Go to column headers and make outline as None also make font color as background color. Than go to conditional formatting and make data bars on by entering all other fields.

∧ Conditional formatting	∧ Column headers
CurrentYear 🤍	Font color
Background color	
Off O-	Background color
Font color	
Off O-	0.45-
Data bars	Outline None
On —●	
Advanced controls	

Step 4 : Centrally align the data of all fields under field formatting and apply required color.



Overview

You can run Python scripts directly in **Power BI Desktop** and import the resulting datasets into a Power BI Desktop data model.

Advantages

Enables you to use Python scripts to prepare your dataset, apply sophisticated analytics or machine learning in the Power BI Desktop and then plot the results in your Power BI reports using any of the hundreds of open-source Python visualization packages.

Courtesy : Noel Samuel

Importing CSV file in Power BI using Python Script Editor

Implementation

To run your Python Script in Power Bl Desktop: Step 1: In the Home ribbon, select Get Data > Other > Python script as shown in the image.

Step 2: Select **Connect**. Your local machine's latest installed Python version is selected as your Python engine. Copy your script into the Python script dialog box that appears. Here, we enter the simple Python script shown in the second image.

Step 3: Select **OK**. If the script runs successfully, the Navigator dialog box appears and you can load the data and use it. Data can be loaded or edited before using it any further.



Other	😭 Spark
	💠 R script
	Python script

Pythe	on script	
Script		
data =	pandas.read_csv("D:/P	owerBI/EuStockMarkets_NA")

ile Orig	pin		Delimiter		Detect Data Type	
1252: \	Nestern i	European (Windows) *	Comma	38) (11)	Base on first 200 rows	
Day	SMI	SMI missing values				
2	1678.1	1678.1				
- 2	1688.5	1688.5				
3	1678.6	1678.6				
- : 4	1684.1	1684.1				
5	1685.6	1686.6				
6	1671.6	1671.6				
7	1682.9	1682.9				
- 5	1703.6	1703.6				



Overview

In Power BI Desktop, you can connect to a **PDF file** and use the included data from the file, just like any other data source in Power BI Desktop.

Advantages

In this way, one can easily source data from PDF files without any coding. Another option to source data from PDF files is by using R Scripts, but that would require installation of some external packages on an R server as well as few lines of code.

Courtesy : Noel Samuel

Importing data from a PDF file in Power BI Desktop

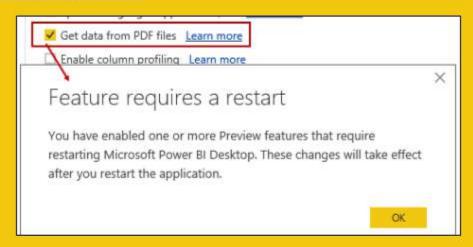
Step 1: Launch the Power BI and go to the File menu. In the File menu, go to Options and settings>Options>Preview features>Get data from PDF files.

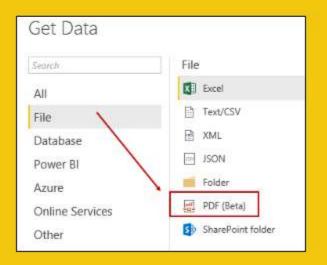
Step 2: Once we relaunch Power BI Desktop, go to Get Data->More again from the menu bar. In the following screenshot, you can get a new option under 'File'. We get the option 'PDF (Beta) to use as a data source.

Step 3: Click on PDF (Beta) connector and connect. PDF file can be loaded in Power BI to create meaningful reports.

nice Software Solutions

Implementation







Overview

Grouping rows or columns in Power BI can be very useful if you want to visually group items under a heading, or if you want to be able to hide or show data for better display.

Advantages

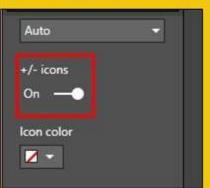
Once you group Power BI group columns with headers, you can more easily manage the data. Your headers could be the totals for each area on that budget, with your collapsible columns being the line items for each area.

Courtesy : Noel Samuel

Add expand/collapse feature to column headers

Step 1. Use the matrix visualization and select the rows and columns as required.

Step 2. Under the formatting pane toggle the **"+/-"** button.



Step 3. The data in the matrix will be displayed with + and – sign. When a user will click + the data will expand and clicking on – will collapse the data.



Implementation

Region	Level-1	Level-2	Level-3	Level-4	Total
- KDAP	2522	78	2171	117	4888
Australia	234	13	195		442
China	572	26	858	26	1482
Germany			13		13
Guam	13				13
Hong Kong	104	-	65		169
India	169		91	26	286
Total	13494	975	11531	468	26468

Region	Level-1	Level-2	Level-3	Level-4	Total
KDNA	4264	390	5915	156	10725
United States	3965	364	5499	156	9984
🕀 Canada	299	26	416		741
F KDLA	689	l.	325	26	1040
KDEU	6019	507	3107	169	9802
Uzbekistan	26		13		39
United States	26				26
United Kingdom	559	130	598		1287
🕀 Ukraine	65				65
Turkey	169		143	39	351
🕀 Thailand	13				13
Switzerland	52	1			52
Total	13494	975	26 11518	468	26455

Power Bl

Overview

hierarchy slicer is created with single fields or predefined - as a slicer to filter other report items. Each level can be expand or collapsed for optimal navigation thru the hierarchy and to find to the correct attribute from the slicer. Advantages

Lets you expand and dig into each level of your hierarchy data.

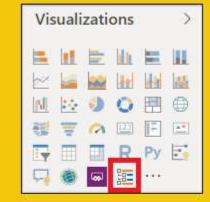
Allows you to display a measure value at the lowest level.

Replaces the idea using multiple regular slicers to represent what the Hierarchy Slicer does.

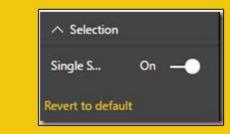
Courtesy: Noel Samuel

Hierarchy slicer

Step 1 : To start with import Hierarchy slicer visual from market place. Select hierarchy slicer from visualization pane.



Step 2 : Go to **Format** pain and select **Selection** pane where you can choose to turn on the ability for multi-select values in the Hierarchy



Implementation

Step 3 : Go to **Header** section to change the slicer Title and adjust other formatting settings of the title. Go to **Items** section to adjust the formatting of the hierarchy values.

∧ Header	∧ Items
Title Product Cate	Font color
Font color	Select color
Background	Background
Text Size 16	Text Size 16
Revert to default	Revert to default

Step 4 : Final output





Power BI TECHIETALKS

Overview

Creating a dynamic slicer to show different measures in a chart using disconnected tables making it more dynamic and flexible for users consuming the reports.

Advantages

The advantage of using this technique makes the visualizations more dynamic and flexible for the users consuming the reports.

Courtesy : Nitesh Trehan

Dynamic measure selection for slicer value- Power BI

Step 1 : Create a disconnected table. The disconnected table stores my values that I want to display on my slicer.

Measure Name
Value Sales
Volume Sales
Order Count

Step 2 : Creating a dynamic measure using DAX function as SWITCH and SELECTEDVALUE

Step 3 : Place the slicer and drag the measure created in the disconnected table. Similarly, Drag the created dynamic measure to the visual so that values gets changed according to the selected value in the slicer.

Implementation





Overview

Creating dynamic customized titles in Power BI Visuals. Need to create a DAX expression based on which we will be able to create the dynamic title.

Advantages

Dynamic titles are powerful and immensely valuable from a user- experience stand point.

Dynamic visual titles using title expression-Power BI

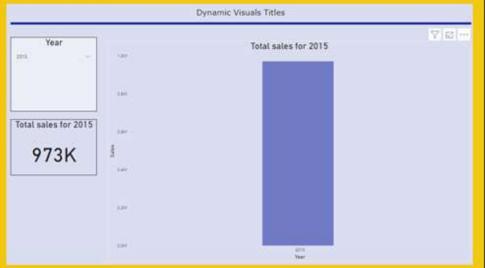
OK Cetar

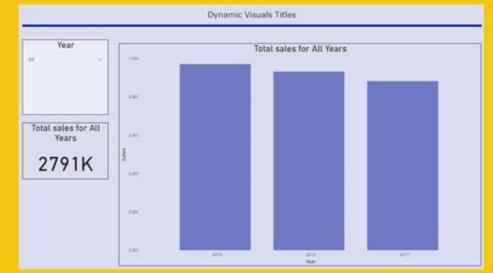
Implementation

Step 1 : Creating an expression-based title to create a field in your model to use for the title.

Step 2 : Once the DAX is created in the step 1, you need to apply the same on the visual title. To select the field and apply it, go to the visualizations pane. In the format area, select the title. When you right right-click on the title text, a context menu will appear that allows you to select the conditional formatting. After that the title text dialog box will appear.









Courtesy : Nitesh Trehan

Overview

DAX Unichar function accepts the integer that maps to the character you would like to display on the visual. It helps to identify what you want to communicate with the visuals.

Advantages

It helps to include non text characters inside the visuals. It can also be used in the conditionally formatting and also allows to use both color with numbers and icon to indicate the direction.

Courtesy : Nitesh Trehan

Use unichar characters in calculated column and measure-Power BI

Step 1 : In the data view, create a calculate column using the Unichar () DAX function. The general pattern for using UNICHAR characters in a visual is decided what you want to showcase so that the concept is communicate well.

Step 2 : Create a measure to display the stars for the hotel on the basis of score.

Step 3 : Drag the measures on the grid visual and then you will be able to get the things in the grid.

Hotel 💌	Score -	Rating -		
Hyatt	5	~		
Le Meridian	5	~		
Marco Polo	4	^		
Omega	5 🔺			
Rajdoot	2	~		
Ashoka	4 🔺			
Reds	2	2 👻		
Kingsway	3	>		
Delhi Darbaar	5	~		
Musketeers	4	~		

Implementation

Unichar characters in calculated column and measures

Hotel's Rating

Hotel	Stars	Rating
Ashoka	****	•
Delhi Darbaar	****	*
Hyatt	****	^
Kingsway	****	>
Le Meridian	****	^
Marco Polo	****	*
Musketeers	*****	^
Omega	****	*
Rajdoot	****	v
Reds	***	*
Total	*****	



Overview

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Hotel 💌	Score -	Rating -		
Hyatt	5	~		
Le Meridian	5	~		
Marco Polo	4	^		
Omega	5 🔺			
Rajdoot	2	~		
Ashoka	4 🔺			
Reds	2	2 👻		
Kingsway	3	>		
Delhi Darbaar	5	~		
Musketeers	4	~		

Implementation

Unichar characters in calculated column and measures

Hotel's Rating

Hotel	Stars	Rating
Ashoka	****	•
Delhi Darbaar	****	*
Hyatt	****	^
Kingsway	****	>
Le Meridian	****	^
Marco Polo	****	*
Musketeers	*****	^
Omega	****	*
Rajdoot	****	v
Reds	***	*
Total	*****	



Overview

Power BI gateway acts as a gatekeeper for the on-premises data source. All the connection requests are attended by the gateway and access is granted based on their authentication and requirements.

Advantages

Gateways helps us to configure a schedule refresh to ensure that power BI dataset has recent data. It also reviews the refresh history to analyze the outcomes of past refresh cycles.

Courtesy : Nitesh Trehan

On-premises data fresh using gateway

Implementation

With the on-premises gateways, we can keep the data fresh by connecting on-premises data sources. There are two types of gateways: Standard mode and Personal mode. Schedule refresh is only applicable on import data and can do 8 refreshes per day on shared and up to 48 refreshes per day on premium capacity.

Step 1 : Go to Power BI workspace and click on the download arrow and install the gateway.
Step 2: Click on Add Data Source, and then it will popup various sources, select your data source and provide the respective authentication.
Step 3: To setup the connection, open the Power BI service and go to settings and click on settings.
Step 4: Click on datasets tab and select the dataset and then click on gateway connection, select the Use a data gateway and click on Apply.
Step 5: If you want to schedule the data refresh then click on the option and schedule the refresh on the desired time you want to get it schedule.



POWER BI 💿 My Workspace 3 Galensage	<u>,</u>
	Data Source Settings Users Intervention Intervention Interventintervenin Intervention

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011		
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ime zone		
(UTC-08:00)	Pacific Time (US and Canada)	\sim
ime Add another Send re	time fresh failure notifications t	to the dataset owner

Power B

Power BI techit talks

Overview

With Group functionality in Power BI Desktop, you can group visuals together in your report, such as buttons, textboxes, shapes images, and any visual you create, just like you group items in PowerPoint.

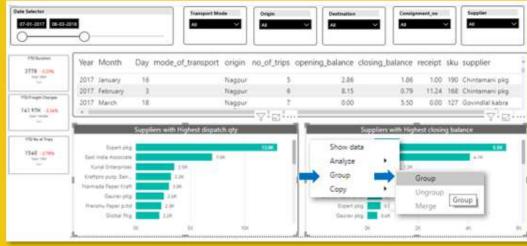
Advantages

Grouping visuals in a report lets you treat the group like a single object, making moving, resizing, and working with layers in your report easier, faster, and more intuitive.

Group Visuals – Power BI Release

Implementation

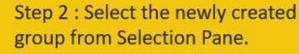
Step 1 : Select two or more visuals. Right Click and select "Group".

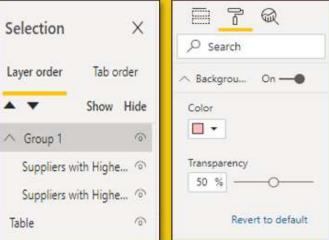


Step 3 : Change the background color of visuals as required.

Step 4 : Change the visual size as required.









Power BI

Overview

Slicers are a great choice when we want to filter out data as per the requirement on the report canvas.

Advantages

Slicers can be further tweaked by assigning the required elements to the available values.

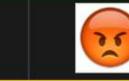
Assigned values can be either Image, URL, or any other required element list.

Courtesy : Rutuja Mowade

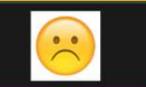
Use Image as Slicer – Power BI functionality

Slicer Requirement







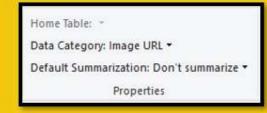


Implementation

Step 1 : Create a new table for assigning the available selector values to the required image url.

Review Status 💌	Image 👻
Horrible	http://pix.iemoji.com/images/emoji/apple/ios-9/256/pouting-face.pr
Poor	http://pix.iemoji.com/images/emoji/apple/ios-9/256/white-frowning
Neutral	http://pix.iemoji.com/images/emoji/apple/ios-9/256/neutral-face.pn
Good	http://pix.iemoji.com/images/emoji/apple/ios-9/256/grinning-face.pi
Excellent	http://pix.iemoji.com/images/emoji/apple/ios-9/256/smiling-face-wit

Step 2 : Select the Image column, change the Data Category from "Uncategorized" to "Image URL"



Step 3 : Create a slicer using new dimension "Image" as its field object.



	ſ	R	
Field			
Image			~×



Power BI

Overview

The calendar table is a very powerful technique that can save us a lot of time. Also referred to as **Date Dimension Table**

Advantages

- Calendar tables are used to create relationships between data tables.
- Acts as a lookup table for date groupings.

Courtesy : Rutuja Mowade

Creating a DAX Calendar – Power BI functionality

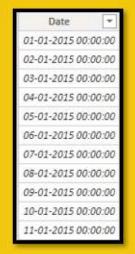
Requirement

Date 👻	Year 💌	Day -	DayOfMonth 💌	MonthOfYear 💌	Month 💌	QuarterofYear 👻	Quarter 💌	OrdinalDate 💌	DayofWeek 💌	WeekEnding 🝷
01-01-2015 00:00:00	2015	Thursday	1	1	Jan-2015	1	Q1-2015	1	4	04-01-2015 00:00:00
02-01-2015 00:00:00	2015	Friday	2	ĩ	Jan-2015	1	Q1-2015	2	5	04-01-2015 00:00:00
03-01-2015 00:00:00	2015	Saturday	3	1	Jan-2015	1	Q1-2015	3	6	04-01-2015 00:00:00
04-01-2015 00:00:00	2015	Sunday	4	1	Jan-2015	1	Q1-2015	4	7	04-01-2015 00:00:00
05-01-2015 00:00:00	2015	Monday	5	1	Jan-2015	1	Q1-2015	5	1	11-01-2015 00:00:00
05-01-2015 00:00:00	2015	Tuesday	6	ĺ	Jan-2015	1	Q1-2015	6	2	11-01-2015 00:00:00
07-01-2015 00:00:00	2015	Wednesday	7	1	Jan-2015	1	Q1-2015	7	3	11-01-2015 00:00:00
08-01-2015 00:00:00	2015	Thursday	8	1	Jan-2015	1	Q1-2015	8	4	11-01-2015 00:00:00

Step 1 : Create a Date table with the range of required dates using a CALENDAR function.

Eg : Date table = CALENDAR (DATE (2015, 1,

1), DATE (2030, 12, 31))



Implementation

Step 2 : We can create various other required columns like

- Day = FORMAT('Date table'[Date],"DDDD")
- Day Of Month = DAY('Date table'[Date])
- Day of Week = WEEKDAY([Date],2)
- Month = FORMAT([Date], "MMM") & "-" &
 [Year]
- Month Of Year = MONTH('Date table'[Date])
- Quarter of Year = ROUNDUP(MONTH('Date table'[Date])/3,0)

Power B

- Year = YEAR('Date table'[Date])
- Week End = [Date] + (7- [Day of Week])

Overview

Sometimes a single number is the most important thing you want to track in your Power BI dashboard or report, such as total sales, market share year over year, or total opportunities. This type of visualization is called a Card.

Advantages

These card visuals are useful when user have to show single card value in comparison with targeted value and verify weather actual value is above or below the targeted value.

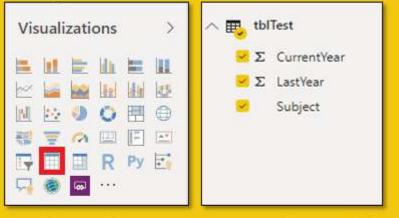
Courtesy : Ashwin Kulkarni

Softw

Create custom card using table visual

Implementation

Step 1 : To get started, select Grid visual and select values that you want to show in Tornado Chart.



Step 2 : Select Style type as NONE and turn off both Vertical and Horizontal grids.

Style	Vertical grid
None 🗸	Off O-
Revert to default	Horizontal grid
Nevert to default	Off O-
√ Grid	
	Row padding

Step 3 : Go to column headers and make outline as None also make font color as background color. Than go to conditional formatting and select the option of icons and setup conditions.

ICONS - Utilization Format by Rules • Learn more Based on field Unitation •		
icon layout	Icon alignment	Style
Right of data	lop ·	Custom •
Ruiks		11 Reverse icon order + New rule
If value is greater than or equal to • Minimum	and is less than • 90 then	• • • • •
If value is greater than or equal to • 90	and is less than or equal to • Userman them	A •

Step 4 : Centrally align the data of all fields under field formatting.

Power Bl

Final Output.



Overview

Do want to crate a sample report with dummy data and then change it with actual data? Here is a solution how you can do it easily. Just follow these simple steps to change/replace dataset and keeping you report intact.

Advantages

Changing data source is of great advantage when you have added new data in the dataset.

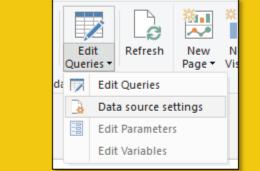
When you have similar dataset structure with different data, replacing/changing dataset is of great help by keeping all the report analysis intact.

Courtesy : Ashwin Kulkarni

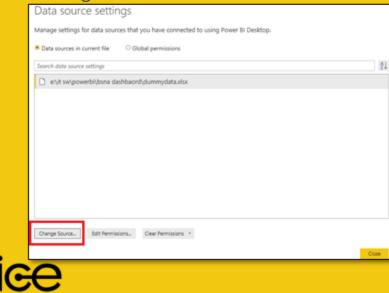
Replace Dataset by changing data source

Implementation

Step 1 : On HOME page of Power BI Desktop click on edit queries ad select the option of Data source settings.



Step 2 : Select "Data sources in current file" and click on change source button.



Step 3 : Select option of "Basic" and select file path for new dataset file you want to upload. Click on OK and close dialogue box.

Excel		
Basic O Advanced		
File path		
E:\JT SW\PowerBI\BSNA dashbaord\DummyData.xlsx	Browse	
Open file as		
Excel Workbook *		
		OK Cancel

Step 4 : It will automatically refresh the dataset and will also change report with new data.

Prerequisite for changing dataset : While changing dataset you need to have same data/column structure as you had in earlier dataset.

NOTE : There are some other methods to change the dataset as well. You can change dataset using any method end result will always be same.



Overview

This feature will let you set up rules for showing different sets of icons to show in your table and matrix, very similar to the Icon Sets feature in Excel.

Advantages

Showing icons along with the data helps in analyzing the data.

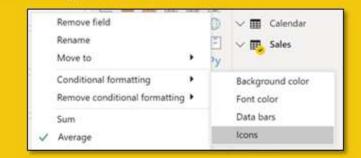
Also it is useful to compare the data just by looking at the numbers and icon. Icon colors helps in better understanding of the data.

Courtesy : Ashwin Kulkarni

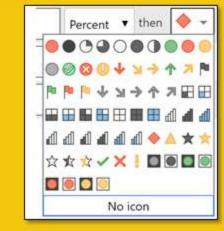
Icon sets for table and matrix

Implementation

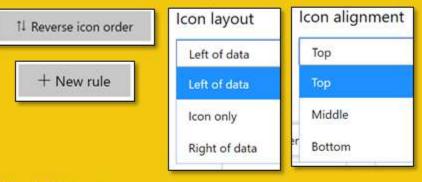
Step 1 : select table or matrix visual and turn on icons for your table or matrix using conditional formatting feature.



Step 2 : When you turn on Icons, the default rules will apply a red diamond to the lower 33%, a yellow triangle to the middle 33%, and a green circle to the upper 33%. But you can change accordingly.



Step 3 : In addition to adjusting current rules, you can add new rules to the list using the New rule button and swap the order of the icons in all the rules with one click using the Reverse icon order button. Also you can change alignment of icons.



Final Output.

Country	Large	Medium	Small	Total
Australia	\$8,098	\$2,090	\$358	\$1,052
Deluxe	\$8,369	\$2,479	\$476	\$2,646
Economy		\$1,640	🔶 \$251	\$315
Regular	\$7,135	\$2,004	\$445	\$1,098
Canada	\$8,454	\$2,098	\$366	\$1,015
France	\$8,539	\$2,099	\$352	\$1,049
Germany	\$8,430	\$2,045	\$358	\$1,084
Great Britain	\$8,453	\$2,124	\$350	\$1,075
Deluxe	\$8,859	\$2,505	♦ \$460	\$2,724

Power Bl

Overview

It is one of the most efficient way to restrict data views across an organization. Using DAX functions, DRLS filters the dataset based on the Power BI service user's log-in credentials. This allows Power BI report authors to easily create filtered data for managing the assignment of users to these roles.

Advantages

Why dynamic row level security? Static row level security is simple to implement, however, if you have thousands of roles, then it would be a nightmare to maintain. For example, if you want to create a payroll Power BI report, in a company with thousand users, you want every user to have his/her role. Dynamic row level security is the answer for such scenarios.

Courtesy : Neha Rajgadkar

Dynamic Row level Security with Power BI Made Simple

Implementation

Step 1 : For this example let's create two simple tables User details and salary details using Power query. Go to Relationship tab and verify the relationship between User Details(User ID) and Salary details (User ID);



Step 2 : For this example, I will be using basic table visualization.

User	r ID Name	UserName	Salary
	3 Nikita	ndalela@nicesoftwaresolutions1.onmicrosoft.com	35000
	2 Ashwin	ashwink@nicesoftwaresolutions1.onmicrosoft.com	30000
	1 Neha	nrajgadkar@nicesoftwaresolutions1.onmicrosoft.com	25000
T	otal		90000
		_	

Step 3 : Go to manage Roles and give RLS to User details table using DAX "Username()" to filter table on the basis of username. Save and publish the file on shared workspace.

8.9.0			dynamic du's Passer M Desiring	n
197	And And And And And And And And And And		Bene / Dete Art Art A Other Language Languages and art	
V II V	Manage roles	Tables Servy seek Use Seek	Tyble that (Charters)	AX expression

Step 4 : Make sure to give security to added users as viewer of the report. With this method the viewer will see their view of the world.

Final Output.

User ID	Name	UserName	Salary
1	Neha	nrajgadkar@nicesoftwaresolutions1.onmicrosoft.com	25000
Total			25000



Power BI techit talks

Overview

A report page can be used as tooltip. We can say it as information window as we can show any visualization in the tooltip.

Advantages

Customizing tooltips provides additional context and information for users viewing the visual.

Custom tooltips enable you to specify additional data points that display as part of the **tooltip**

Courtesy : Pooja Darbhe

Customized Tooltip with popup – Power BI Functionality

Implementation

Step 1 : Add a new page in the report, go to format, enable tooltip available in page information, select Page size as Tooltip.

 Page information 		
Name	Туре	
Page 1	Tooltip	~
Tooltip	Width	
On —	320 🗘 Picets	
Q&A	Height	
Off O-	240 C Pixels	

Step 2 : Now design your page as per your requirement

RevenueTY and Revenue Var % to Budget by Month RevenueTY Revenue Var % to Budget \$20M \$15M \$15M \$10M \$5M \$0M \$5M \$0M \$0M \$0M \$15M \$0M \$10 \$15M \$0M \$15M \$10M \$15M \$10M \$15M \$10M \$10M \$15M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M \$10M Step 3 : Go to other page and select the visualization where you wish to show the customize tooltip, go to formatting options.

Step 4 : Under	∧ Tooltip On —
Tooltip select	Туре
Report page as	Report page
type and name of	Page
the page.	ExecutiveScoreTooltip
	100

Your Tooltip will be look like this.







Power BI Vs MicroStrategy

Unsure of which solution is best for your company? Are you still wondering which tool will be best for your requirements?

Join us in the quest of finding answers with 'Techie Talk' series every Thursday!!

> <u>Season 2 - "Microsoft Power BI vs</u> <u>MicroStrategy Analytics"</u> <u>Coming soon!</u>

Read, Compare and then Decide!!

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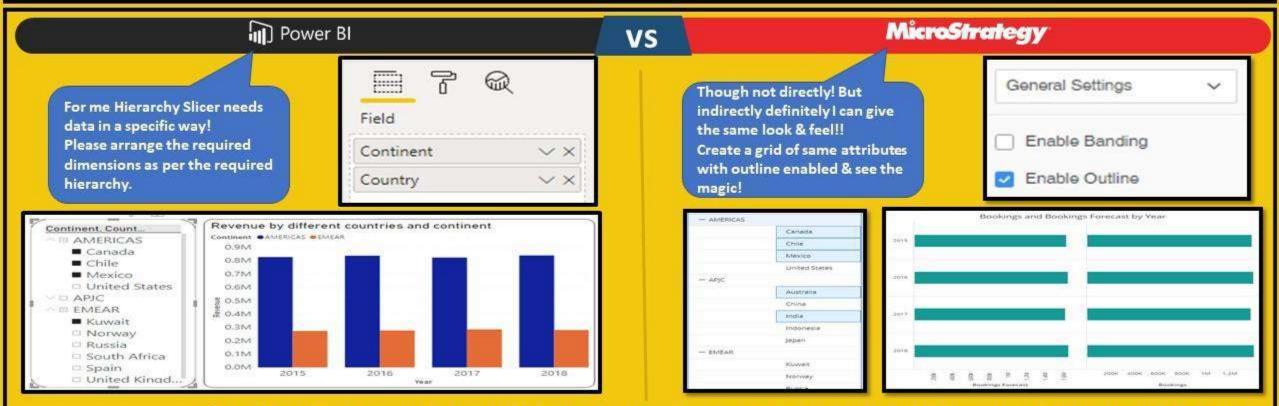
#PowerBI #MicroStrategy #techietalks #BusinessIntelligence #knowledge

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Hierarchy Slicer

Problem Statement

A Retail company has different products with multiple branches in multiple countries. Requirement is to build a graph to compare revenue by having different countries and Continent within one filter as a hierarchy.



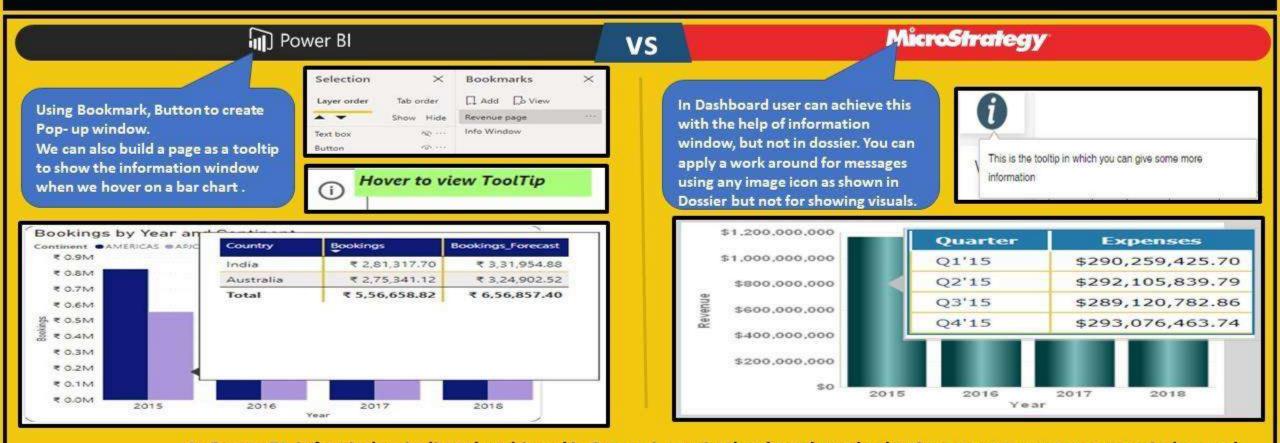
1) Multi select is possible directly in Power BI as we have a ready made selector whereas for MSTR we need to press control key every time while selection.



2) 2) Power BI allows the selection of multiple levels in same hierarchy, (example : Americas total as well as Mexico bars together) while MSTR allows selection of one level at a time.

Problem Statement

A retail company having different products in different line with multiple branches in multiple countries wants to build a report to compare revenue and revenue forecast with their actual value in grid as its information window.





In Power BI, info window is directly achieved in 2 ways i.e. using bookmarks and selection pane to create pop up window and other is by showing page as a tooltip while in MSTR this achievable in Document directly but not in Dossier. Idea of having it in Dossier has been already raised: https://community.microstrategy.com/s/idea/087440000008rfCAAQ/detail

#PowerBI, #techietalks, #mstr, #MicroStrategy

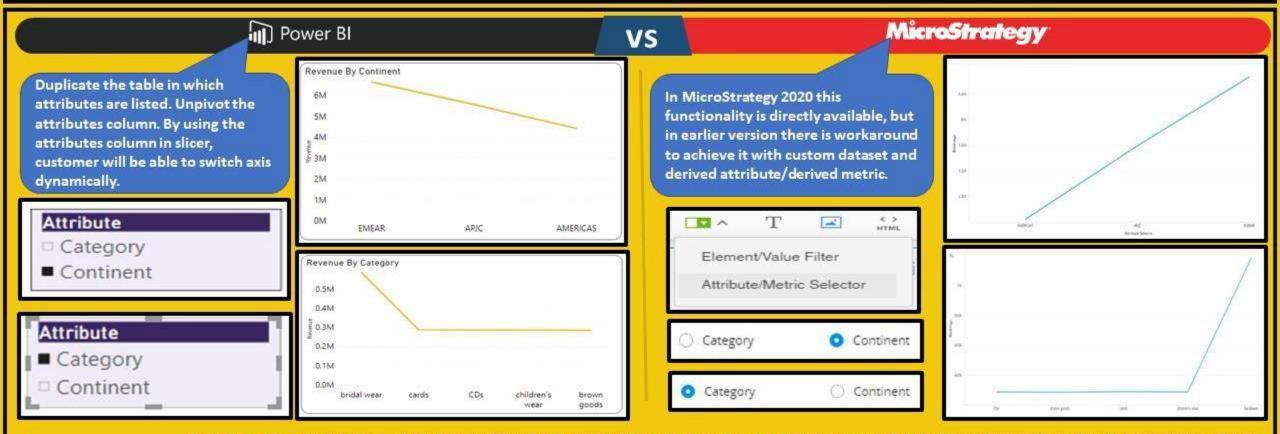
Courtesy-Neha Rajgadkar, Pooja Darbhe

Dynamic X axis via slicer

Problem Statement

Software Solutions

Our client wants to view the bookings of their products by continent and category on one go. So instead of building two visuals for different attributes we came up with solution of building dynamic X-Axis line chart.



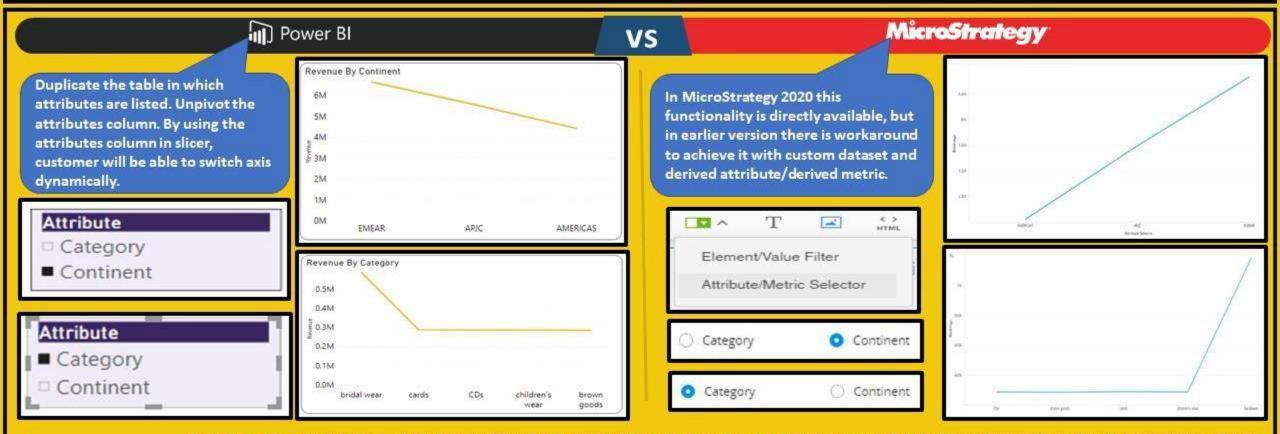
In Power BI, dynamic switch is possible by having all attributes in one column or using DAX or by making duplicate table with a bi-directional cross filter between original table and duplicate table. In case of MicroStrategy 2020 this functionality is available directly, both in RSD as well as Dossier! Prior MSTR versions have custom data workaround.

Dynamic X axis via slicer

Problem Statement

Software Solutions

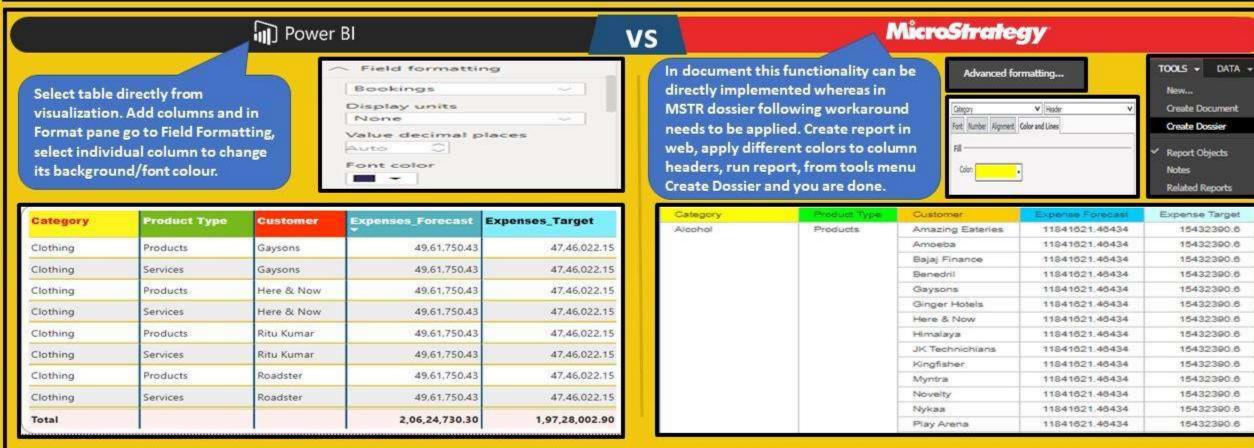
Our client wants to view the bookings of their products by continent and category on one go. So instead of building two visuals for different attributes we came up with solution of building dynamic X-Axis line chart.



In Power BI, dynamic switch is possible by having all attributes in one column or using DAX or by making duplicate table with a bi-directional cross filter between original table and duplicate table. In case of MicroStrategy 2020 this functionality is available directly, both in RSD as well as Dossier! Prior MSTR versions have custom data workaround.

Problem Statement

Our client wants to view the expenses on customer . However they want us to bifurcate all the columns that define expenses in blue shades and Customer in different colour. The requirement is possible by using field formatting of the grid.

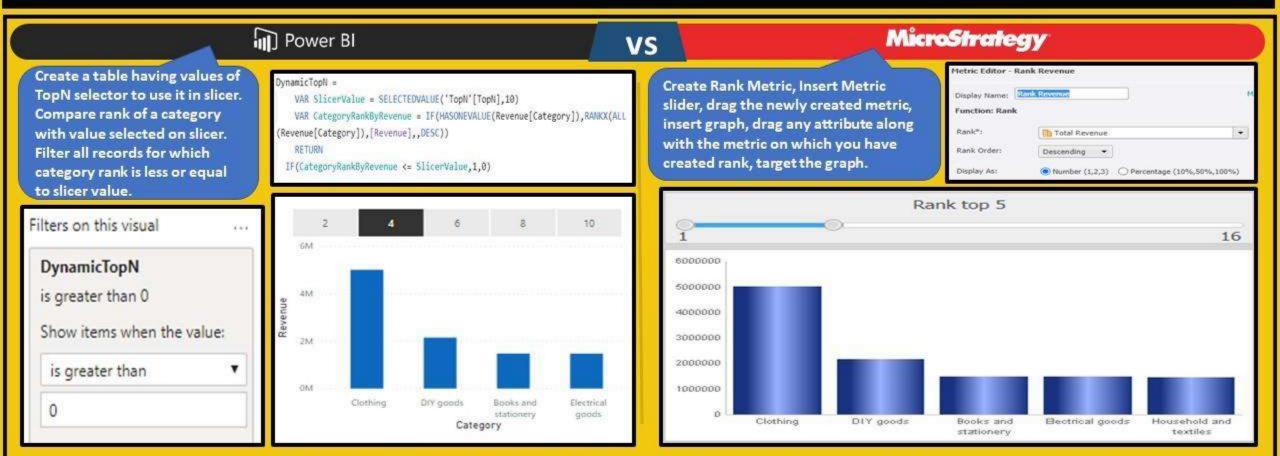


nice Software Solutions

In Power BI, individual column header colour change is directly possible with the help of field formatting in Format pane. In case of MSTR, it is directly possible in document in editable mode while this is possible in Dossier with above workaround.

Problem Statement

Our client wants to view category wise revenue generated. The requirement is to be able to see top N categories generating maximum revenue with a selector to select TopN value. So, we came up with a DAX solution to achieve it.





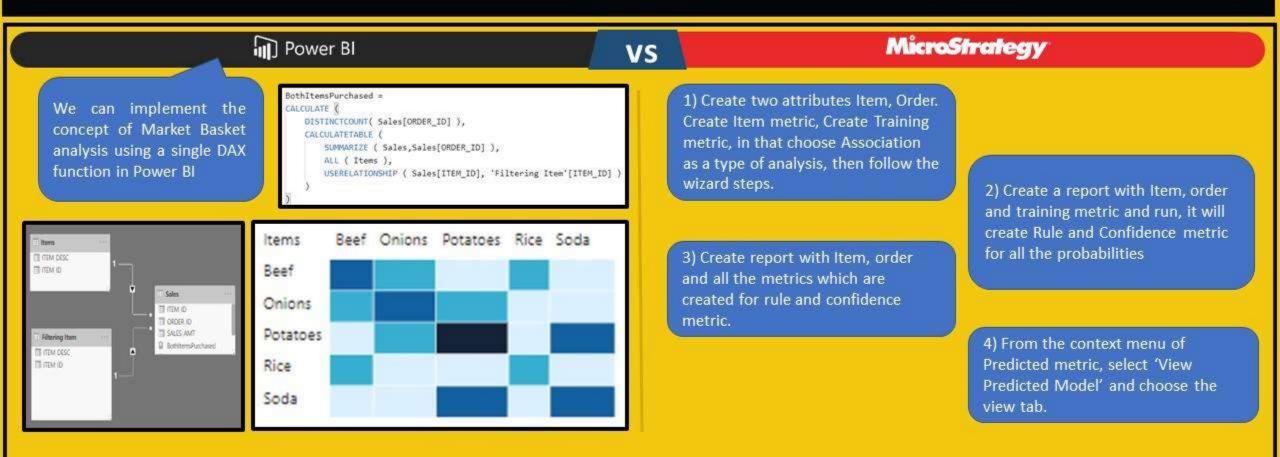
In Power BI this functionality can be completely implemented using the mentioned DAX function with any type of filter, whereas in MSTR we can either use a slider or qualification for getting the required result.

#PowerBI, #techietalks, #mstr, #MicroStrategy

Courtesy-Nikita Dalela, Pooja Darbhe

Problem Statement

We have a retailer client who wants to compare sales of a product with another product which can help in their decision making with respect to placement of product, determining the timing and extent of promotions on product and also have a better understanding of customer purchasing habits.





Basket analysis can be achieved in Power BI by creating a single DAX measure and making some changes in table relationship, whereas in MSTR we have to go through much long process as explained above.

Problem Statement

Our client wants to determine possible price movement based on past patterns. The requirement is to have a table with open, close, high and low values for a specified period of time. So, we came up with a DAX solution to achieve it.

VS

Create a new table from modelling tab in Power BI. Use the SUMMARIZE function to get a new table with open value, close value, high value and low value

	CloseValue	φ.	OpenValue	-	HighValue	-	Low/Value	4	OrderDate
1.58	64	51	1180	14	3256	17	6	018	07-06-2
0.01	9	68	227	03	1528	101	5	018	04-06-2
1.38	22	88	96	:51	1458	1.2		018	30-05-2
7.34	97	96	199	.24	896	6.6		015	21-06-2
6.53	493	57	289	.71	859	14	6	810	27-06-2
.78	147	84	113	75	1079	31		810	06-05-2
22	290	28	76	57	1589	0.1		018	15-06-2
22	27	81	309	899	3	88	é	018	05-06-2
5.16	45	87	18	09	2051	93		018	01-07-2

Table =

SUMMARIZECOLUMNS(Orders[OrderDate], FILTER(Orders, Orders[order_status] = "delivered"),
 "LowValue", CALCULATE(MIN(Order_Payments[payment_value]), Orders[order_purchase_timestamp]),
 "HighValue", CALCULATE(MAX(Order_Payments[payment_value]), Orders[order_purchase_timestamp]),
 "OpenValue", CALCULATE(FIRSTNONBLANK(Order_Payments[payment_value], 1),

Power BI

FILTER(Orders, Orders[order_purchase_timestamp] = MIN(Orders[order_purchase_timestamp]))),
"CloseValue", CALCULATE(FIRSTNONBLANK(Order_Payments[payment_value], 1),

FILTER(Orders, Orders[order_purchase_timestamp] = MAX(Orders[order_purchase_timestamp]))))

1) Go to Document or Dossier, Import the data which you want to use for the analysis.

3) Now create 4 different metrics to calculate Minimum value, maximum value, open value and close value for that particular time period. 2) Create Attribute for date, month and year, because we need to show the data day wise which is our lowest level and the selectors as Month and Year.

MicroStrategy

4) Insert Grid and drag newly created attribute Date and other metrics Min value, max value, open value close value. Also add two selectors for Year and Month.



In Power BI, with the help of SUMMARIZE function in DAX we can create several values on particular group in a single expression, whereas in MSTR we need to create several different metrics to calculate such values.

Problem Statement

Our client has sales data with the purchase timestamp, they need to see the exact amount of sales by every second, minute, hour, day, month, quarter and year in a visual. So, we used a drill down chart by ZoomCharts in Power BI to meet the requirement.

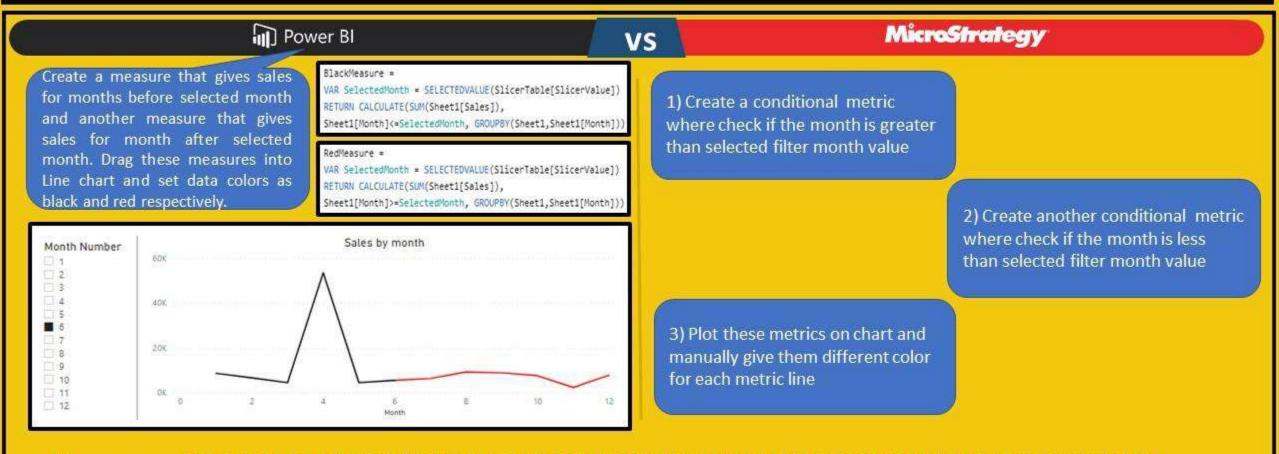


nice Software Solutions

In Power BI, data can be represented in the form of a Column, Line or Area chart in Drill-Down chart for time based data where as in MSTR we have to create hierarchy and add attributes to report and then we can drill to only level which we have created.

Problem Statement

Our client wants to see the month wise sales in a line chart. The functionality must be such that data up to a specific month selected on slicer should be represented by a black line and that after the specified month by a red line.





In Power BI, we achieved the requirement by creating two measures in DAX where as in MSTR we need to create two conditional metrics to achieve this type of scenario.

Problem Statement

Our client wants to explore the maps and their features in Power BI in order to show ratings of food in different country.



ARCGIS – ESRI Map

Icon Map



- **1.** Render Massive location data fast.
- 2. Ability to display multiple layer in single map.
- 3. Highly customizable properties.

Software Solutions

- 1. You can pin locations(till street address) even if it is not in your dataset.
- 2. Adding layers to map.
- 3. Drive time can be calculated(ex. I want to know cafe near my place within 30 mins of drive time)
- 4. Pre created infographics can also be added.

 Analysing and animating data.
 Can display images/icons instead of data.

THANK YOU



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