O'REILLY®

Part of the Power BI Bootcamp Series

Microsoft Power Bl Bootcamp

Introduction to Business Intelligence & PBI

Instructors:

Nicolás Lagreste Zucchini

Maria Florencia Hourcouripé



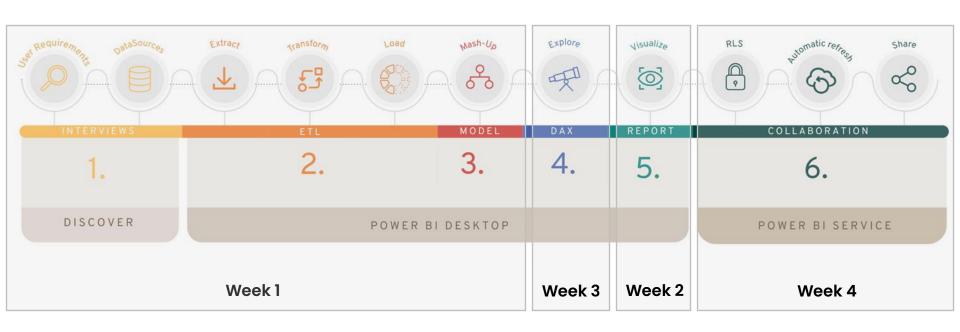




- Week 1: Introduction to Business Intelligence, Power BI and Power Query.
- Week 2: Advanced and Interactive Visuals.
- Week 3: Calculated measures, columns & custom tables with Power BI Programming Language (DAX).
- Week 4: Ways to collaborate and share in Power BI.







Instructors



Follow us on LinkedIn:



Nicolás Lagreste Zucchini



María Florencia Hourcouripé

Let's Collaborate: Interested in a personalized mentorship or consulting session? Contact us:

- <u>nico@analyticmood.com</u>
- flor@analyticmood.com

Visit Our Website:

 www.analyticmood.com for resources, upcoming events, and blog articles.

analytic mood





To get started, download all the files from:

www.analyticmood.com/resources

Ensure all files are downloaded before proceeding.











Week 2: Advanced and Interactive Visuals.

- Identify common types of data visualization and their uses.
- Create an interactive report with Power BI Desktop.

 How to customize those visuals to meet your organization's requirements and to direct the user's attention to exactly where you want it while helping to make the visual easier to read and interpret.

You will also learn about how to use key performance indicators (KPIs).

How to use buttons and other navigation techniques.



Designing and changing the format of visuals

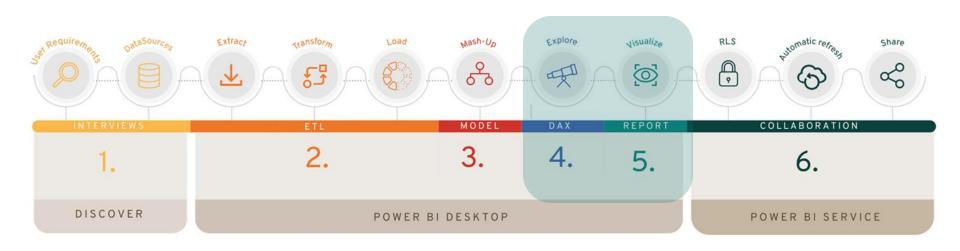
- > Demo 1.3:
- How to change the format of fields.
- Design and change the format of visuals.
- > Design two pages that contain:
 - o Maps, Bar chart, Line chart, Slicers, Pie chart
- Exercise Case 1.3: Designing and changing the format of visuals

Demo 2.0



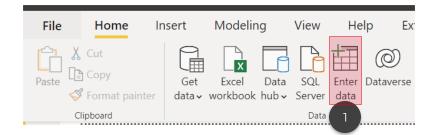


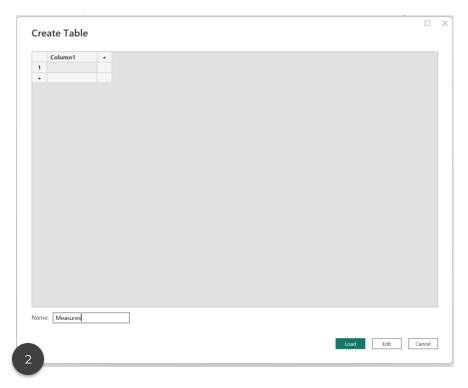
Our Method: Flow of Report Development





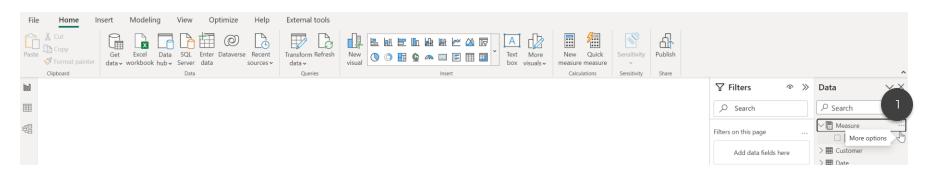
Create Measure table

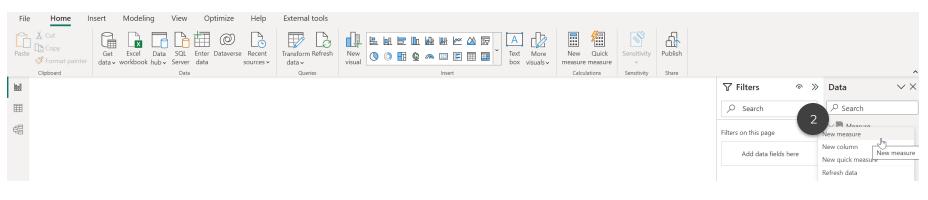






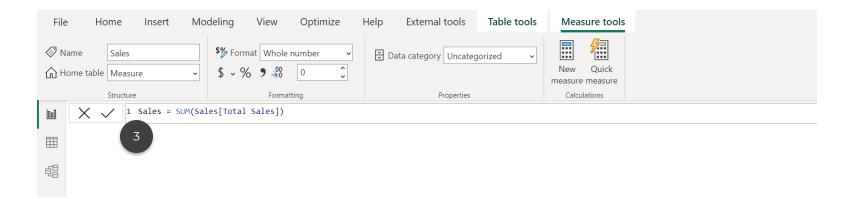
Measures





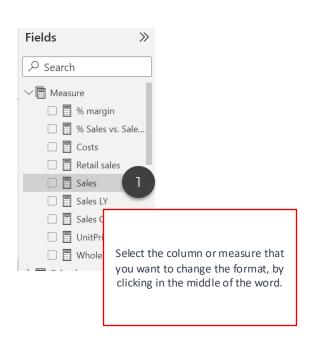


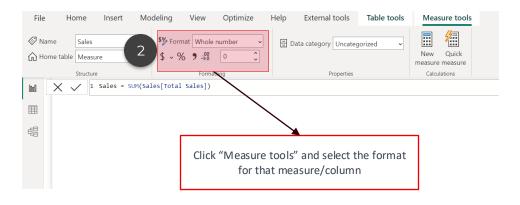
Measures





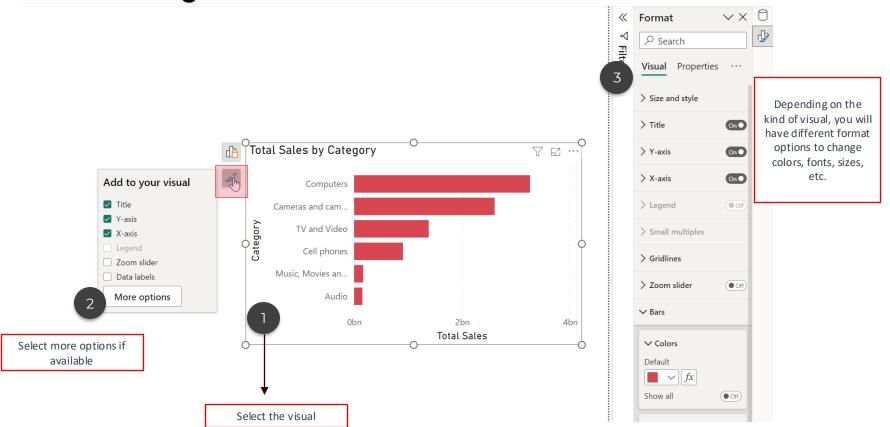
How to change the format of fields





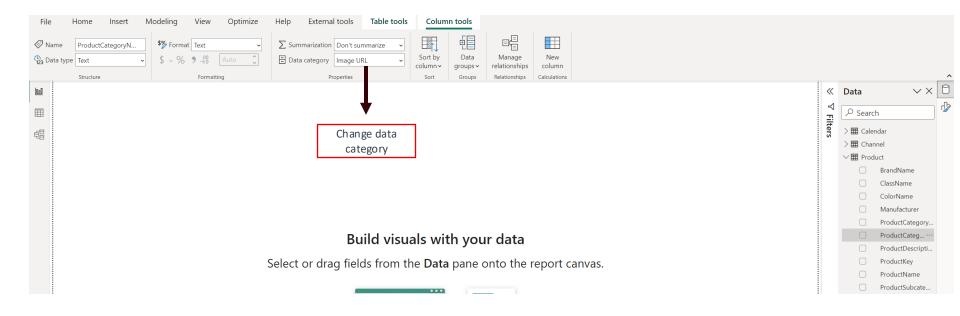


How to change the format of visuals





Change data category



Exercise 2.0



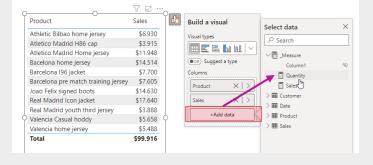
Exercise 2.0. Open the file *Exercise2.0.pbix* (Location: C:\PowerBIBootcamp\Week02\Exercises\Exercise2.0.pbix)

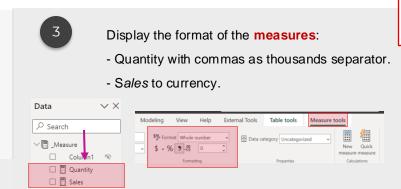
Create a "_Measure" table and two measures:

Quantity and Sales. (*Let's do this step together)



Replace the quantity column in the matrix with the **MEASURES** "Quantity" and "Sales" ("_Measure" table).

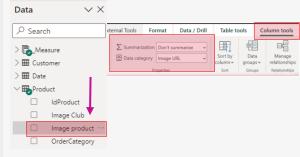




Note: Demo data is different from your data.

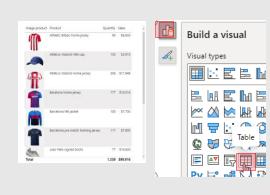


In the Products table, assign the columns of the Image product and Image Club to the data category: Image Url.



Add this column (Image product) to the matrix.

Change the matrix to a table visual.

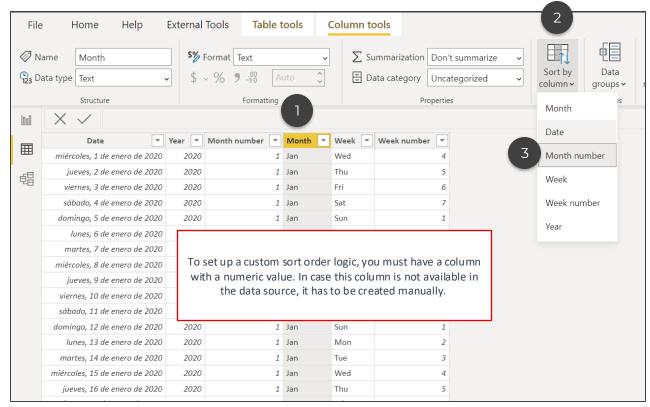


Demo 2.1 & 2.2



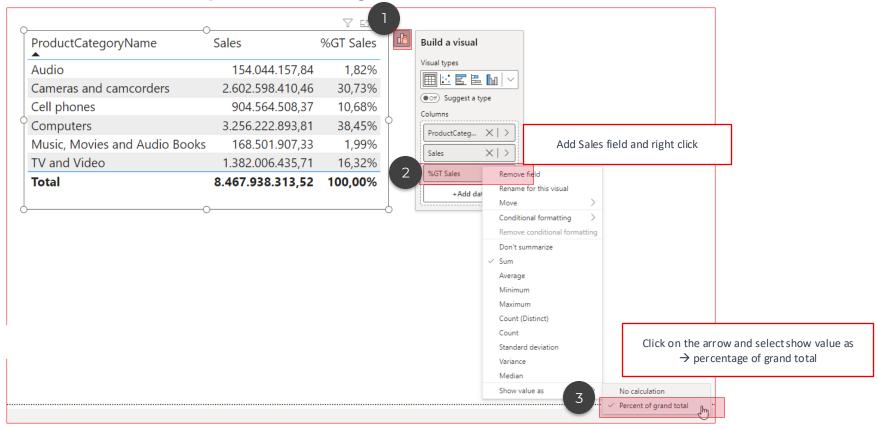


Sort by column





Show value as percent of grand total

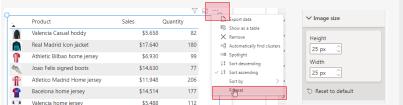


Exercise 2.1



Exercise 2.1: Creating visuals. Open the file Exercise 2.1.pbix

Adjust the **size of the image** within the existing table by making it smaller (25x25)



Create a bar chart illustrating sales by product category.

Utilize the 'Sales' measure for accurate representation.



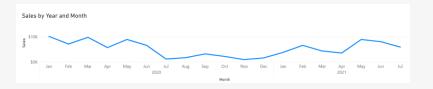
Insert a line chart that displays sales trends by year and month.



Ensure the 'month' column is sorted according to 'month num'.



- 4 Modify the line chart's format as follows:
 - Navigate to Format / Visual / X-Axis/ Values.
 - Deselect the 'Concatenate labels' option.





Exercise 2.2

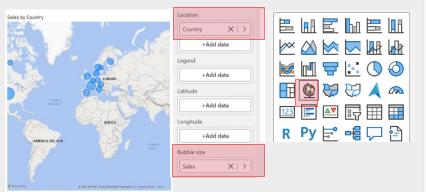


Exercise 2.2: Creating a New Page and Visuals. Open the file Exercise 2.2.pbix

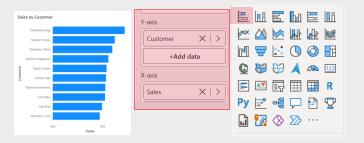
Rename the current page to "Products" and then create a new page titled "Customers".



On the **Customers** page, create a map to display **sales** by **country**:



On the "Customers" page, add a bar chart to visualize sales by customers:



On the **Customers** page, insert a **card** visual.

Sales

Add measure Sales.

Navigate to Format / Visual / Callout Values / Values.

Set the font size to 30.

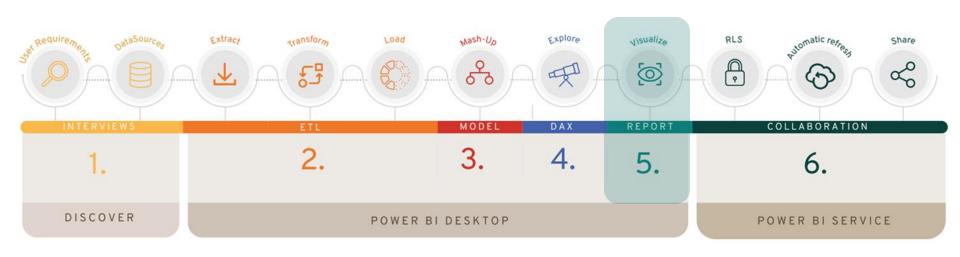
Set the display units to 'None'.

\$99.916





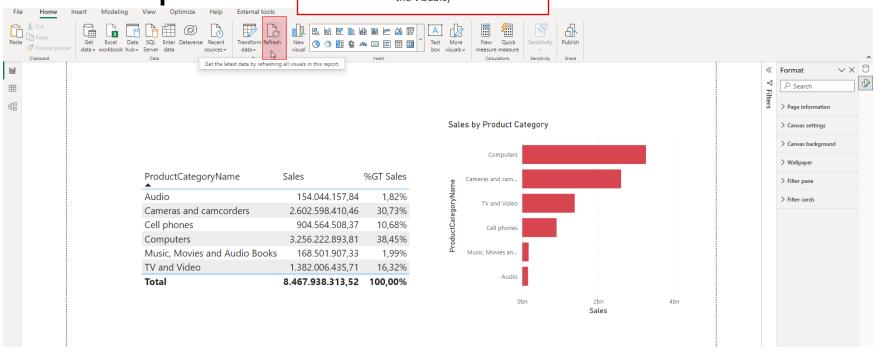
Our Method: Flow of Report Development



Refresh Report

Click here to refresh reports (pbi conects to datasources, refreshes steps in Pquery and then the visuals)





Designing and Personalizing Tooltips

- > Demo 2.1
- ➤ Add a visual to Power BI;
- Design a tooltip and a personalized tooltip.
- Exercise 2.1: Designing and Personalizing tooltips
- > Q&A

Demo 2.3

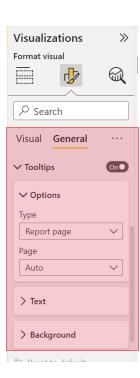






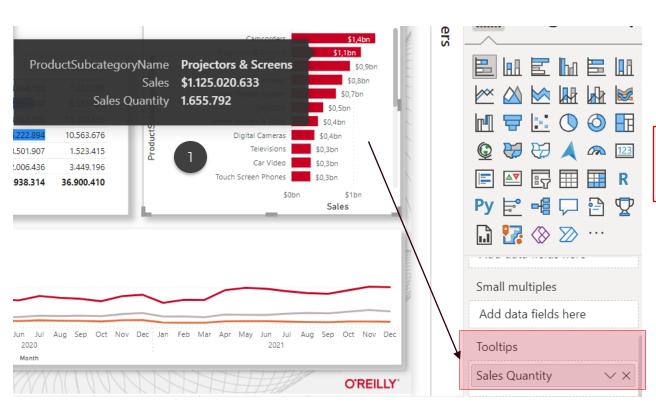
Change format of Tooltips

It is possible to change the format of the tooltips in the following options.









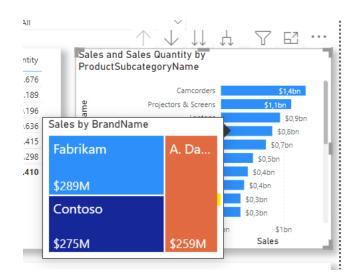
It is possible to show a simple chart with only one measure and then add extra info in the tooltip.





Personalize Tooltips

What if you need to analyze the brand's sales by each subcategory?

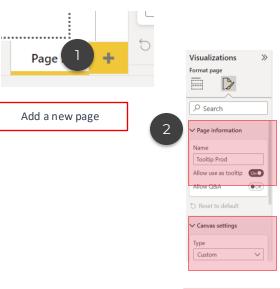


You can design your personalize tooltips on another sheet.

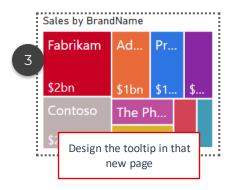


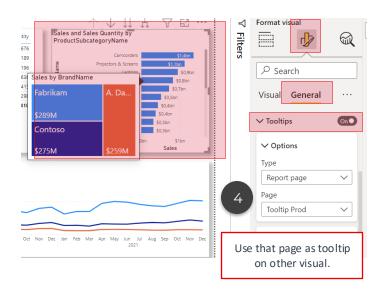


Personalize Tooltips







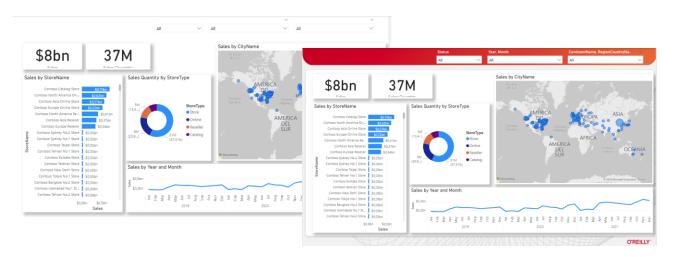


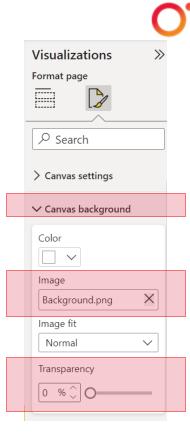
Adding Backgrounds and Navigating Reports

- Demo Case 2.2
- Add a background to both pages of the report.
- > Create buttons to navigate the report.
- > Exercise Case 2.2
- > Q&A

Adding a background to reports

- To add a background to the report, select the Format icon from the Visualizations panel.
 Drop down the Background Page option and click on Add Image.
- Browse your local folder or network environment for the desired image and then click on OK.
- You can create your own background it using figma, canva, power point, etc





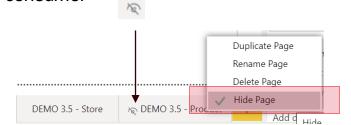




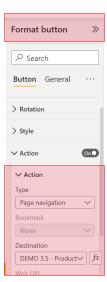
Hide pages from reading mode

 A report author can hide a page from the view of the report consumer until the report is accessed via a page navigation action.

 In Power BI Desktop A report author can hide a page from the view of the report consumer

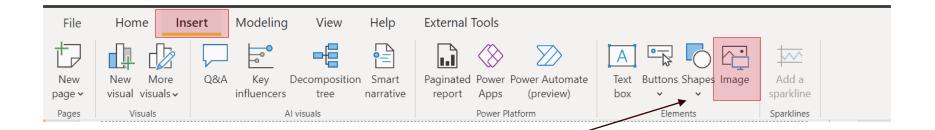


 But in the service of Power BI that page won't be shown until the page is accessed via a page navigation action.









Corporate images or the company logo can be added to make the report more attractive from the following option.

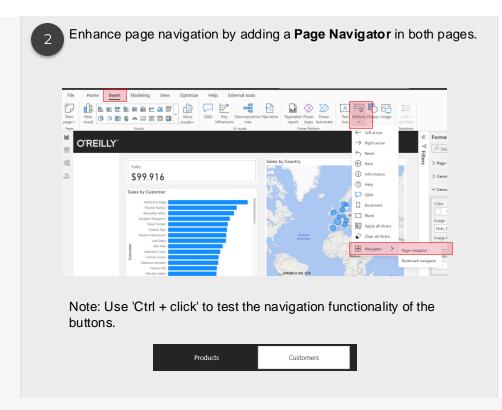
Exercise 2.3



Exercise 2.3: Enhancing Visual Appeal with Backgrounds and Navigation. Open the file *Exercise2.3.pbix*

- For both "Product" and "Customers" pages, update the canvas background:
 - O Click on the canvas to select it.
 - Format / Canvas background / add "Slide_Background" image from "PowerBlBootcamp\Session02\Visual Gallery..."
 - Image fit ="Fit" / Transparency to 0%.





Hide Customers page.

Change the Theme of your Report

- ➤ Demo Case 2.3
- Show how to edit the current theme, export or import a new one.
- > Exercise Case 2.3

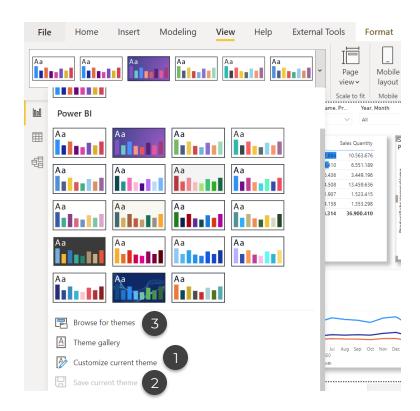
Demo 2.4



Create your own theme

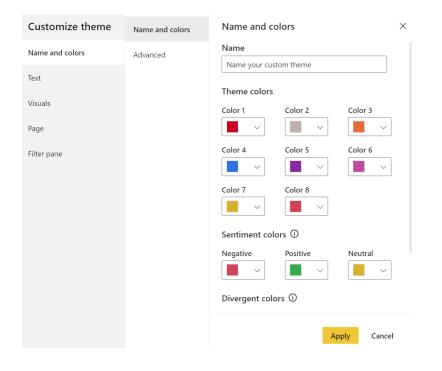


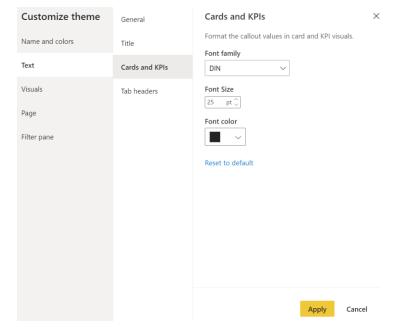
- In the "View" tab there is a default preselected theme and all visuals in the report use those colors, fonts and sizes.
- If you want to create your own theme for your company, click on "Customize current theme".
- After that, you will be able to save that theme and share it with your colleagues to use it in all your Power BI Files.





Customize current theme

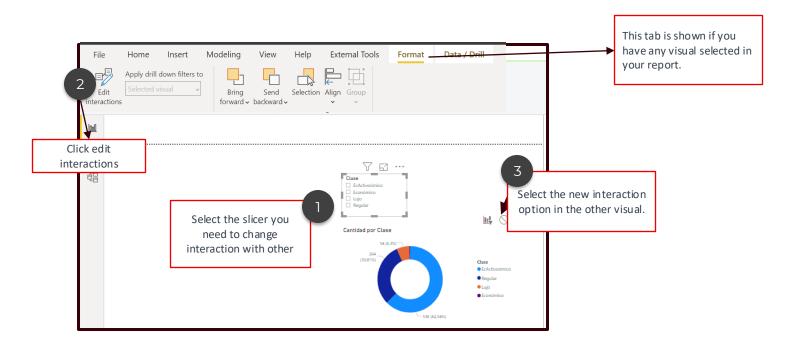






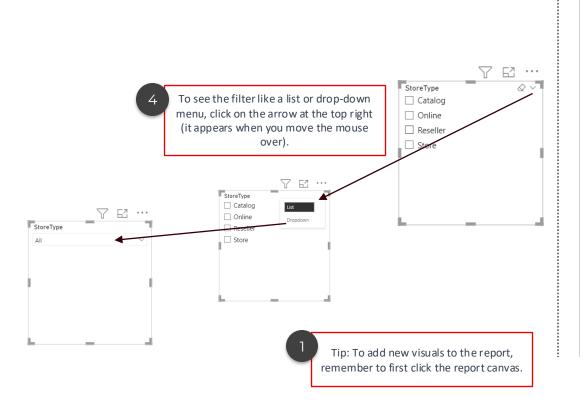
Edit interactions

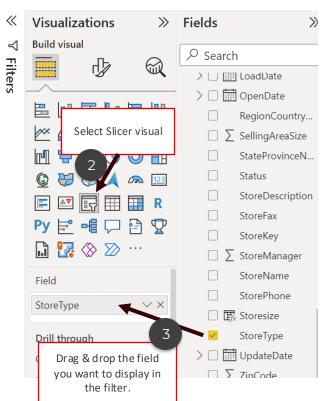
Use visual interactions to exclude some page visualizations from being affected by others.





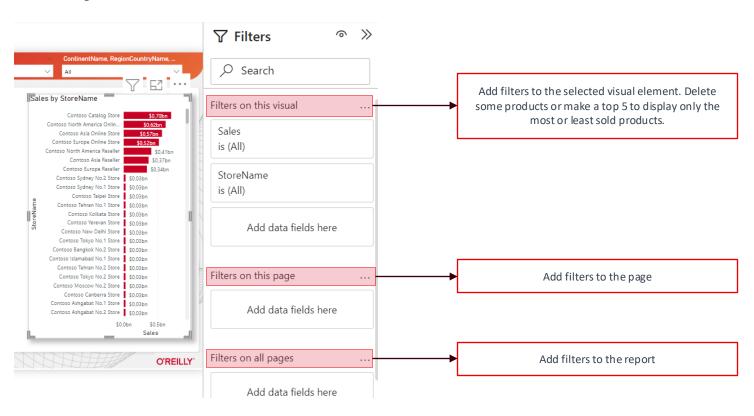








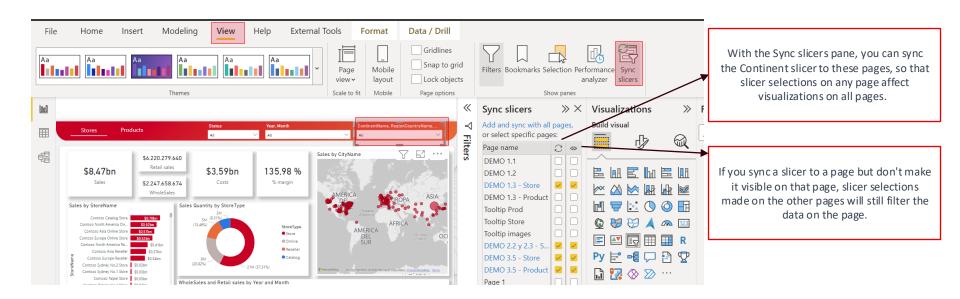








You can sync a slicer and use it on any or all pages in a report.











https://www.sqlbi.com/wp-content/uploads/visuals-reference-sep2018-A3.pdf

Exercise 2.4



Exercise 2.4: Change theme and add slicers. Open the file *Exercise2.4.pbix*

Change the current theme by importing one from the folder: Visual gallery → VisualTheme.json (Location: "C:\PowerBlBootcamp\Week02\Visual Galery\VisualTheme.json")



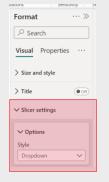


On the "Product" page, add slicers for the following categories:





- Season (Slicer settings = **Dropdown**)
- Date (Slicer settings = Between)
- Product (Slicer settings = Dropdown)



2. Slicer (New):

Image Club





Duplicate all slicers to the "Customers" page and ensure they are synchronized across both pages.



Poll



If there is more than one visual on a Power BI page, which of the following is true?

- All visualizations should be different
- Interacting with one visual may filter the others

You can't have more than one visual on the same Power BI page

The maximum number of visualizations is 10 per page.









Advanced Learning Path:

1) Power BI Bootcamp: Building the Foundations for Power BI

This Bootcamp

- 2) Power Query: Data Connections and Transformations
- 3) Data Modeling for optimal structure & DAX for calculations



4) Visualizations for impactful reporting & Power BI Service





Stay Connected



Follow us on LinkedIn:



Nicolás Lagreste Zucchini



María Florencia Hourcouripé

Let's Collaborate: Interested in a personalized mentorship or consulting session? Contact us:

- o 🔯 <u>nico@analyticmood.com</u>
- o 🔯 flor@analyticmood.com

Visit Our Website:

 www.analyticmood.com for resources, upcoming events, and blog articles. Stay Tuned for More: Upcoming courses and events to take your skills to the next level!

analytic mood



 Write your questions in the chat so that we can answer them and discuss them together.



O'REILLY®