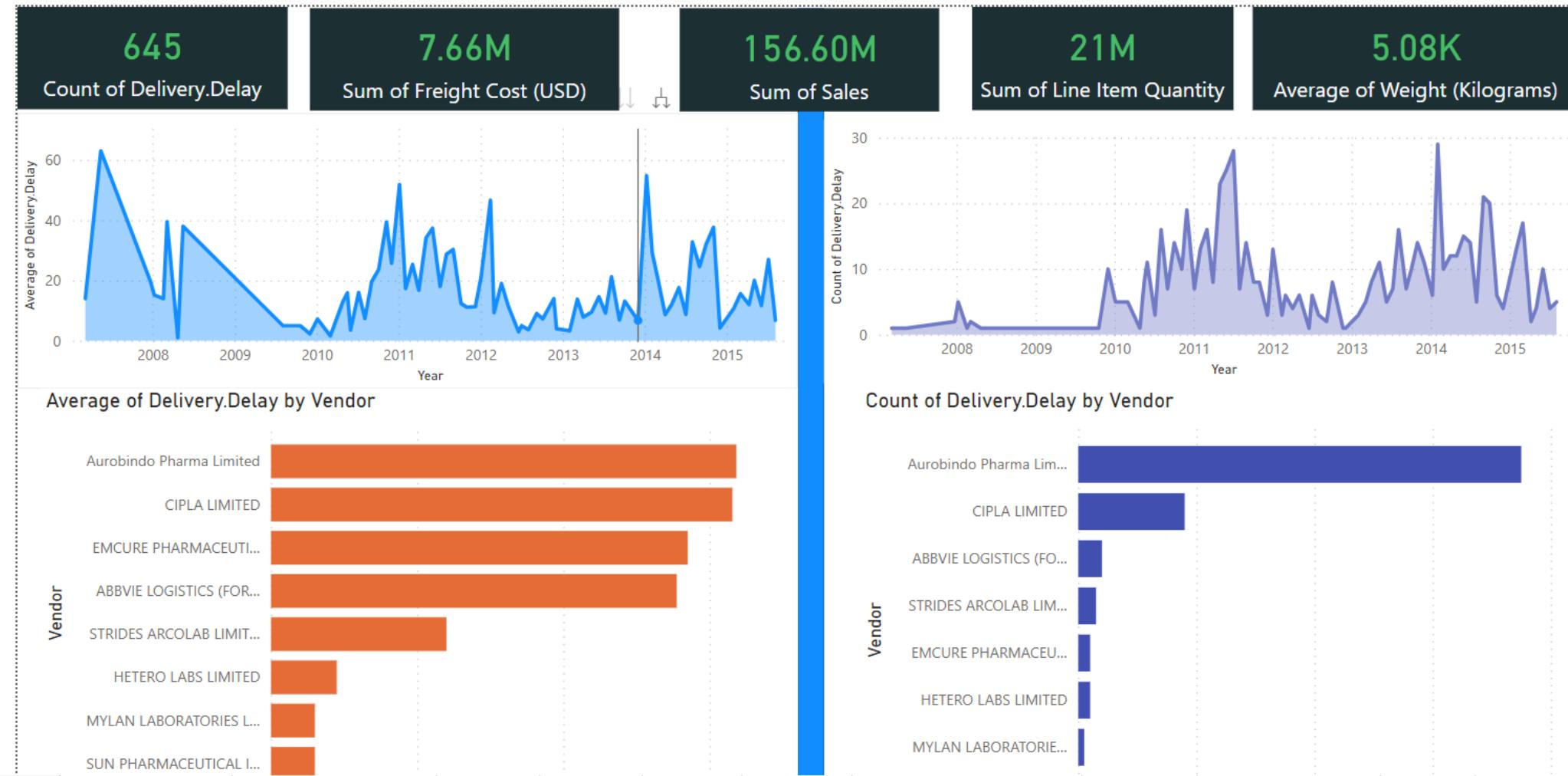
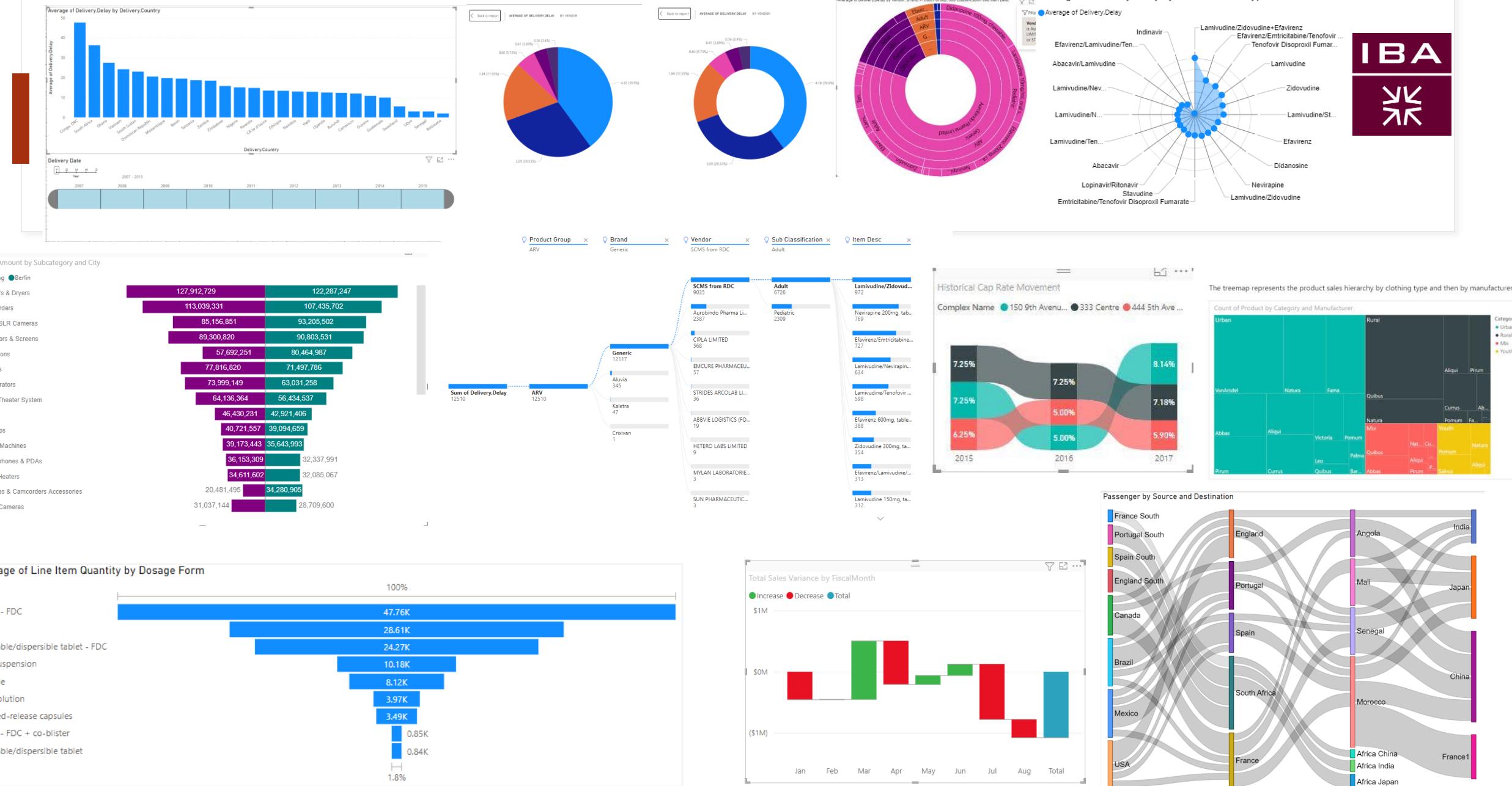


# PowerBI

CS 459 Business Intelligence

# Simple charts

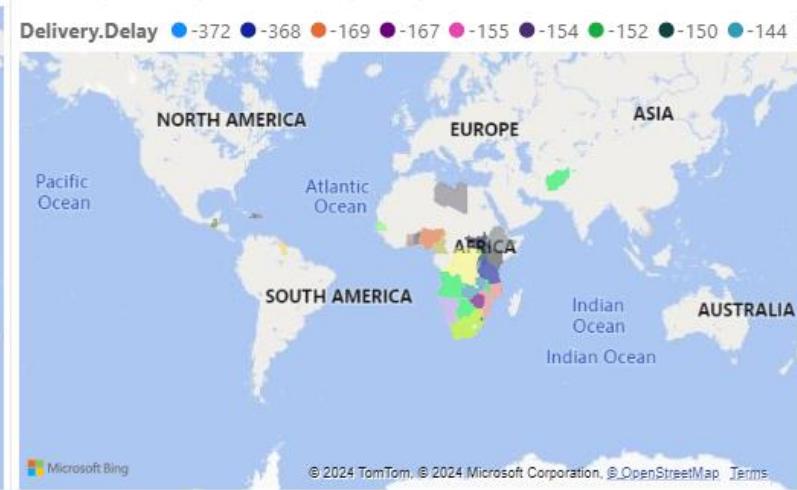




Sum of Delivery.Delay by Delivery.Country



Delivery.Country and Delivery.Delay



Delivery.Country and Delivery.Delay



# The Art of Story Telling

- Tell the data narrative page by page → takes shape of a report
- Text helps to show interpretation – keep in mind your client.

# Dashboard Vs Report

|                                    | <b>Dashboard</b>  | <b>Report</b>   |
|------------------------------------|---|---|
| <b>Purpose</b>                     | Used for high-level monitoring, often in real-time or near-real-time, providing a consolidated view of business performance | Used for in-depth analysis and exploration of data to answer complex business questions.                            |
| <b>Interactivity and Structure</b> | Limited interactivity - single page view at a glance.   | Greater interactivity - detailed multi-page analysis.   |
| <b>Updates</b>                     | Designed for real-time or near real-time updates making monitoring of live data easy.                                       | Focused on historical data and may require periodic updates enabled through PowerBI scheduled refresh capabilities. |
| <b>Use case</b>                    | Quick sharing of insights across organization   | More suited for detailed analysis allowing for specific aspects of the data.  |

# Dashboard

Monitoring e-Commerce Sales  
A quick review of all KPIs.

A well-designed dashboard enable spotting problems quickly.

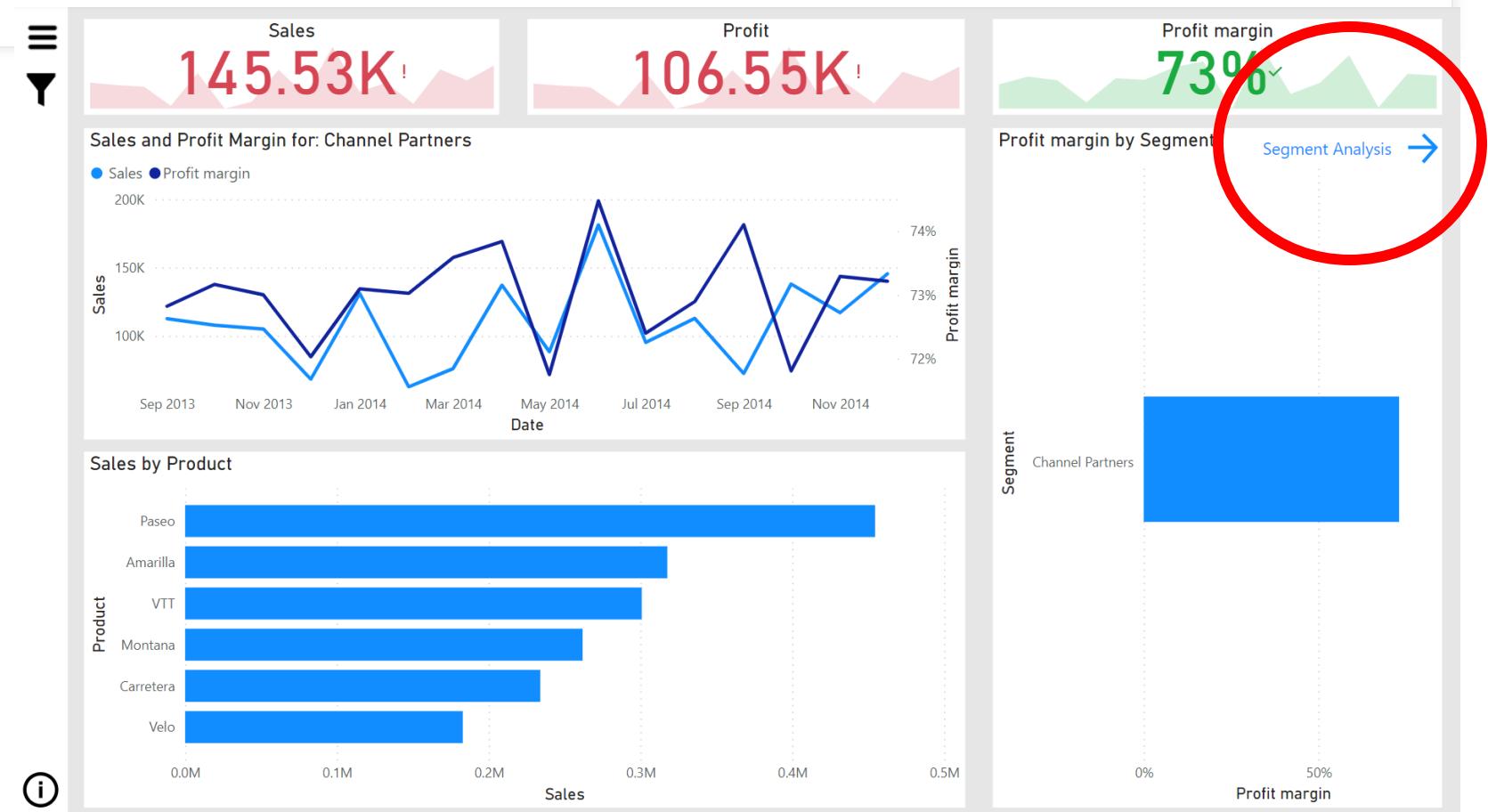


Source: DataCamp

# Report

Analyze impact of a recent promotional campaign on sales.

Review the sales by different dimensions.



Source: DataCamp

# Data Story Telling

- Data storytelling is the concept of building a compelling narrative based on complex data and analytics that help tell your story and influence and inform a particular audience.



# A good story is...

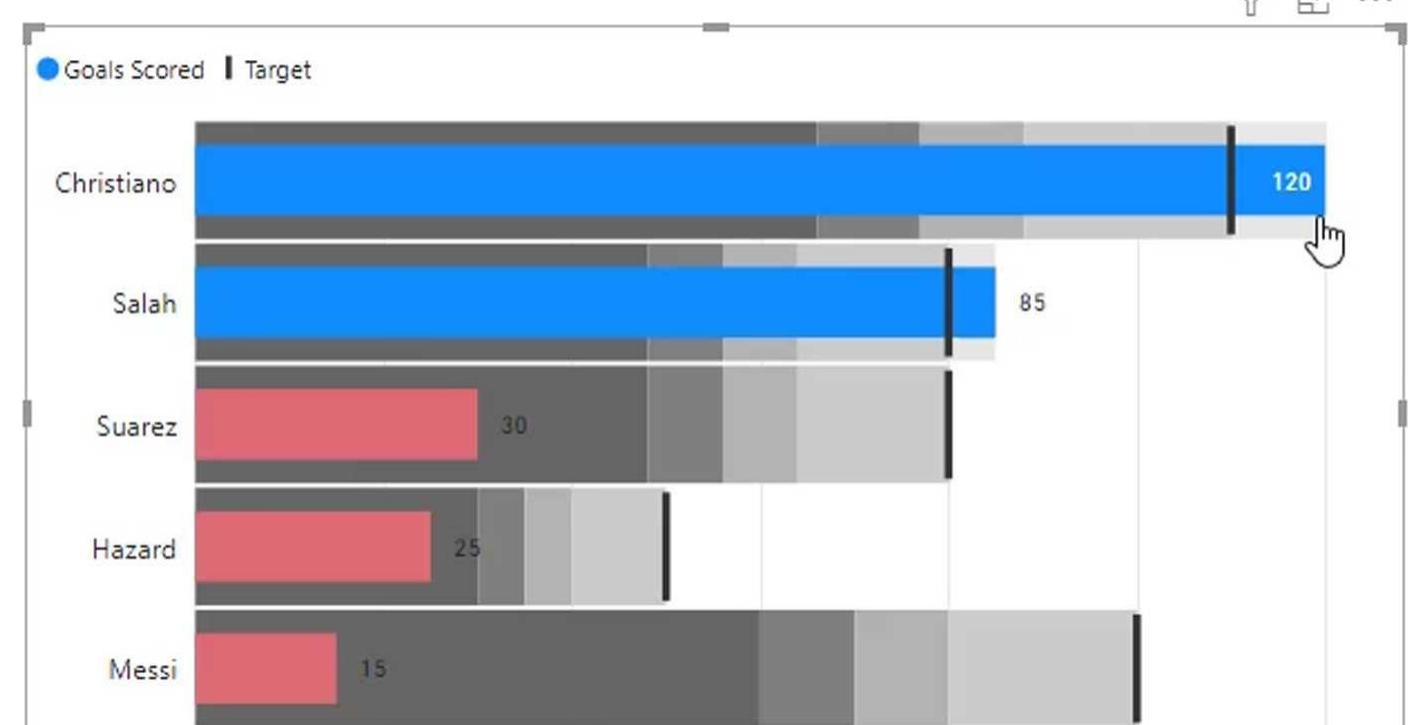
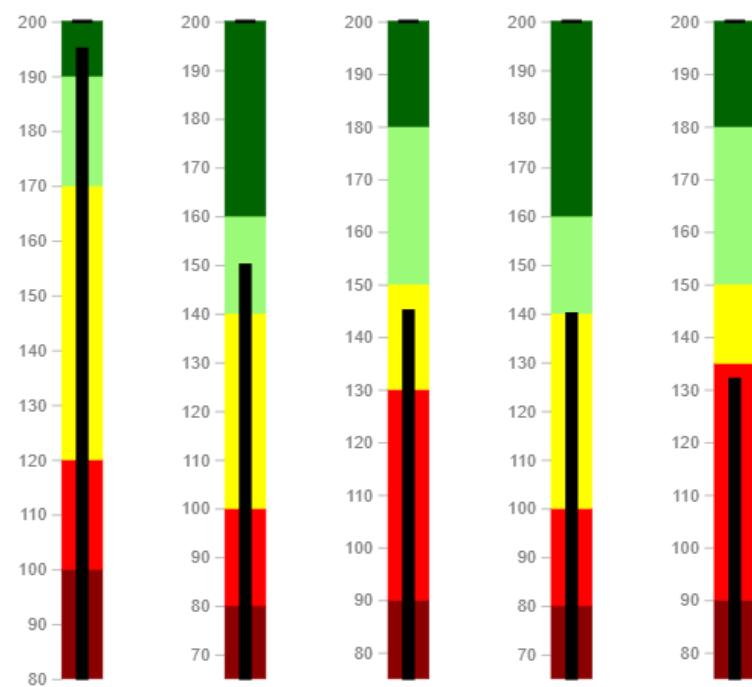
- **Relevant** to the audience , the business domain and specific problem being solved.
- Uses **good data** - collected from reputable sources that convey the true story.
- Forms a **clear narrative** - introduce the topic before diving in.
- Uses **Smart visuals** (charts/images/etc)- convey the intended purpose. Well labelled, legible, not misleading

# Bullet Chart



# Bullet chart

- A Power BI bullet chart is a more advanced type of bar chart and great for plotting data comparisons. Each bar is shown against multiple qualitative ranges and a target, making it easy to monitor progress. For example, you could use the chart to show how exam results are graded.



# Adding some targets

- Let's first understand what DAX is...

# DAX

# Data Analysis

# Expression

# What is DAX in Power BI?

- Data Analysis Expressions (DAX) is a programming language that is used throughout Microsoft Power BI for creating calculated columns, measures, and custom tables.
- It is a collection of functions, operators, and constants that can be used in a formula, or expression, to calculate and return one or more values.
- You can use DAX to solve a number of calculations and data analysis problems, which can help you create new information from data that is already in your model.

# Calculated Columns vs Measures

## Calculated Column

- Similar to other regular columns, calculated columns are the ones that come out as a result of **computations within two columns** of different data sets. They are ideal for row-wise calculations;
- In the calculated column type, the calculation takes place at the **row level** within a given table.

## Calculated Measure

- Calculated measure are ideal for dynamic calculations as they do not acquire any physical space. **These are used when data in rows are grouped together for computations.**
- In the calculated measure type, the calculation is done at the **cell level in the entire report or the query.**

## &gt; Math &amp; statistical functions

- **SUM(<column>)** Adds all the numbers in a column.
- **SUMX(<table>, <expression>)** Returns the sum of an expression evaluated for each row in a table.
- **AVERAGE(<column>)** Returns the average (arithmetic mean) of all the numbers in a column.
- **AVERAGEX(<table>, <expression>)** Calculates the average (arithmetic mean) of a set of expressions evaluated over a table.
- **MEDIAN(<column>)** Returns the median of a column.
- **MEDIANX(<table>, <expression>)** Calculates the median of a set of expressions evaluated over a table.
- **GEOMEAN(<column>)** Calculates the geometric mean of a column.
- **GEOMEANX(<table>, <expression>)** Calculates the geometric mean of a set of expressions evaluated over a table.
- **COUNT(<column>)** Returns the number of cells in a column that contain non-blank values.
- **COUNTX(<table>, <expression>)** Counts the number of rows from an expression that evaluates to a non-blank value.
- **DIVIDE(<numerator>, <denominator> [, <alternateresult>])** Performs division and returns alternate result or BLANK() on division by 0.
- **MIN(<column>)** Returns a minimum value of a column.
- **MAX(<column>)** Returns a maximum value of a column.
- **COUNTROWS([<table>])** Counts the number of rows in a table.
- **DISTINCTCOUNT(<column>)** Counts the number of distinct values in a column.
- **RANKX(<table>, <expression>[, <value>[, <order>[, <ties>]]])** Returns the ranking of a number in a list of numbers for each row in the table argument.

## > Filter functions

- **FILTER(<table>, <filter>)** Returns a table that is a subset of another table or expression.
- **CALCULATE(<expression>[, <filter1> [, <filter2> [, ...]]])** Evaluates an expression in a filter context.
- **HASONEVALUE(<columnName>)** Returns TRUE when the context for columnName has been filtered down to one distinct value only. Otherwise it is FALSE.
- **ALLNOBLANKROW(<table> | <column>[, <column>[, <column>[,...]]])** Returns a table that is a subset of another table or expression.
- **ALL([<table> | <column>[, <column>[, <column>[,...]]]])** Returns all the rows in a table, or all the values in a column, ignoring any filters that might have been applied.
- **ALLEXCEPT(<table>, <column>[, <column>[,...]])** Returns all the rows in a table except for those rows that are affected by the specified column filters.
- **REMOVEFILTERS([<table> | <column>][, <column>[, <column>[,...]]])** Clear all filters from designated tables or columns.



# Logical functions

- **IF(<logical\_test>, <value\_if\_true>[, <value\_if\_false>])** Checks a condition, and returns a certain value depending on whether it is true or false.
- **AND(<logical 1>, <logical 2>)** Checks whether both arguments are TRUE, and returns TRUE if both arguments are TRUE. Otherwise, it returns FALSE.
- **OR(<logical 1>, <logical 2>)** Checks whether one of the arguments is TRUE to return TRUE. The function returns FALSE if both arguments are FALSE.
- **NOT(<logical>)** Changes TRUE to FALSE and vice versa.
- **SWITCH(<expression>, <value>, <result>[, <value>, <result>]...[, <else>])** Evaluates an expression against a list of values and returns one of possible results
- **IFERROR(<value>, <value\_if\_error>)** Returns value\_if\_error if the first expression is an error and the value of the expression itself otherwise.

## > Date & time functions

- **CALENDAR(<start\_date>, <end\_date>)** Returns a table with a single column named "Date" that contains a contiguous set of dates.
- **DATE(<year>, <month>, <day>)** Returns the specified date in datetime format.
- **DATEDIFF(<date\_1>, <date\_2>, <interval>)** Returns the number of units between two dates as defined in <interval>.
- **DATEVALUE(<date\_text>)** Converts a date in text to a date in datetime format.
- **DAY(<date>)** Returns a number from 1 to 31 representing the day of the month.
- **WEEKNUM(<date>)** Returns weeknumber in the year.
- **MONTH(<date>)** Returns a number from 1 to 12 representing a month.
- **QUARTER(<date>)** Returns a number from 1 to 4 representing a quarter.

## > Time intelligence functions

- **DATEADD(<dates>, <number\_of\_intervals>, <interval>)** Moves a date by a specific interval.
- **DATESBETWEEN(<dates>, <date\_1>, <date\_2>)** Returns the dates between specified dates.
- **TOTALYTD(<expression>, <dates>[, <filter>][, <year\_end\_date>])** Evaluates the year-to-date value of the expression in the current context.
- **SAMEPERIODLASTYEAR(<dates>)** Returns a table that contains a column of dates shifted one year back in time.
- **STARTOFMONTH(<dates>) // ENDOFMONTH(<dates>)** Returns the start // end of the month.
- **STARTOFQUARTER(<dates>) // ENDOFQUARTER(<dates>)** Returns the start // end of the quarter.
- **STARTOFTYEAR(<dates>) // ENDOFTYEAR(<dates>)** Returns the start // end of the quarter.

## > Relationship functions

- **CROSSFILTER(<left\_column>, <right\_column>, <crossfiltertype>)** Specifies the cross-filtering direction to be used in a calculation.
- **RELATED(<column>)** Returns a related value from another table.

## > Table manipulation functions

- **SUMMARIZE(<table>, <groupBy\_columnName>[, <groupBy\_columnName>]...[, <name>, <expression>]...)** Returns a summary table for the requested totals over a set of groups.
- **DISTINCT(<table>)** Returns a table by removing duplicate rows from another table or expression.
- **ADDCOLUMNS(<table>, <name>, <expression>[, <name>, <expression>]...)** Adds calculated columns to the given table or table expression.
- **SELECTCOLUMNS(<table>, <name>, <expression>[, <name>, <expression>]...)** Selects calculated columns from the given table or table expression.
- **GROUPBY(<table> [, <groupBy\_columnName>[, [<column\_name>] [<expression>]]...)** Create a summary of the input table grouped by specific columns.
- **INTERSECT(<left\_table>, <right\_table>)** Returns the rows of the left-side table that appear in the right-side table.
- **NATURALINNERJOIN(<left\_table>, <right\_table>)** Joins two tables using an inner join.
- **NATURALLEFTOUTERJOIN(<left\_table>, <right\_table>)** Joins two tables using a left outer join.
- **UNION(<table>, <table>[,<table> [,...]])** Returns the union of tables with matching columns.



# Text functions

- **EXACT(<text\_1>, <text\_2>)** Checks if two strings are identical (**EXACT()** is case sensitive).
- **FIND(<text\_tofind>, <in\_text>)** Returns the starting position a text within another text (**FIND()** is case sensitive).
- **FORMAT(<value>, <format>)** Converts a value to a text in the specified number format.
- **LEFT(<text>, <num\_chars>)** Returns the number of characters from the start of a string.
- **RIGHT(<text>, <num\_chars>)** Returns the number of characters from the end of a string.
- **LEN(<text>)** Returns the number of characters in a string of text.
- **LOWER(<text>)** Converts all letters in a string to lowercase.
- **UPPER(<text>)** Converts all letters in a string to uppercase.
- **TRIM(<text>)** Remove all spaces from a text string.
- **CONCATENATE(<text\_1>, <text\_2>)** Joins two strings together into one string.
- **SUBSTITUTE(<text>, <old\_text>, <new\_text>, <instance\_num>)** Replaces existing text with new text in a string.
- **REPLACE(<old\_text>, <start\_posotion>, <num\_chars>, <new\_text>)** Replaces part of a string with a new string.

# > Information functions

- **COLUMNSTATISTICS()** Returns statistics regarding every column in every table. This function has no arguments.
- **NAMEOF(<value>)** Returns the column or measure name of a value.
- **ISBLANK(<value>) // ISERROR(<value>)** Returns whether the value is blank // an error.
- **ISLOGICAL(<value>)** Checks whether a value is logical or not.
- **ISNUMBER(<value>)** Checks whether a value is a number or not.
- **ISFILTERED(<table> | <column>)** Returns true when there are direct filters on a column.
- **ISCROSSFILTERED(<table> | <column>)** Returns true when there are crossfilters on a column.
- **USERPRINCIPALNAME()** Returns the user principal name or email address. This function has no arguments.

# Advanced DAX

## > DAX statements

- **VAR(<name> = <expression>)** Stores the result of an expression as a named variable. To return the variable, use RETURN after the variable is defined.
- **COLUMN(<table>[<column>] = <expression>)** Stores the result of an expression as a column in a table.
- **ORDER BY(<table>[<column>])** Defines the sort order of a column. Every column can be sorted in ascending (ASC) or descending (DESC) way.

## > DAX Operators

| Comparison operators | Meaning                  |
|----------------------|--------------------------|
| =                    | Equal to                 |
| = =                  | Strict equal to          |
| >                    | Greater than             |
| <                    | Smaller than             |
| > =                  | Greater than or equal to |
| = <                  | Smaller than or equal to |
| < >                  | Not equal to             |

| Text operator | Meaning                  | Example                                       |
|---------------|--------------------------|---|
| &             | Concatenates text values | Concatenates text values   [City]&, "&[State] |

| Logical operator | Meaning                   | Example                                   |
|------------------|---------------------------|---|
| &&               | AND condition             | ([City] = "Bru") && ([Return] = "Yes")    |
|                  | OR condition              | ([City] = "Bru")    ([Return] = "Yes")    |
| IN {}            | OR condition for each row | Product[Color] IN {"Red", "Blue", "Gold"} |

# Applying DAX

# Insert New Columns by Calculations

- Compute Delay in Power BI using DAX
- DATEDIFF: returns the difference between 2 dates (both as column references in date formats) in days, months, quarters, years, etc.
- Delay = Delivery Date - Scheduled Date in DAYS
- Delay.DAX =  
`DATEDIFF('Table 1 (SC dataset - Power BI)'[Scheduled Delivery Date], 'Table 1 (SC dataset - Power BI)'[Delivery Date], DAY)`

# Insert New Columns by IF

- Compute Delay Category using DAX
- Use the IF Function to output 3 categories → On-time, Delayed, Early
- `Delay.Cat = IF('Table 1 (SC dataset - Power BI)'[Delay.DAX]=0,"On-time",IF('Table 1 (SC dataset - Power BI)'[Delay.DAX]>0,"Delayed","Early"))`

# MAX Delay

## Column

- Max.Delay.DAX = `MAX('Table 1 (SC dataset - Power BI)'[Delivery.Delay])`

## Measure

`Max.Measure.Delay.DAX = MAX('Table 1 (SC dataset - Power BI)'[Delivery.Delay])`

# Create Tables for each with Manufacturing Country

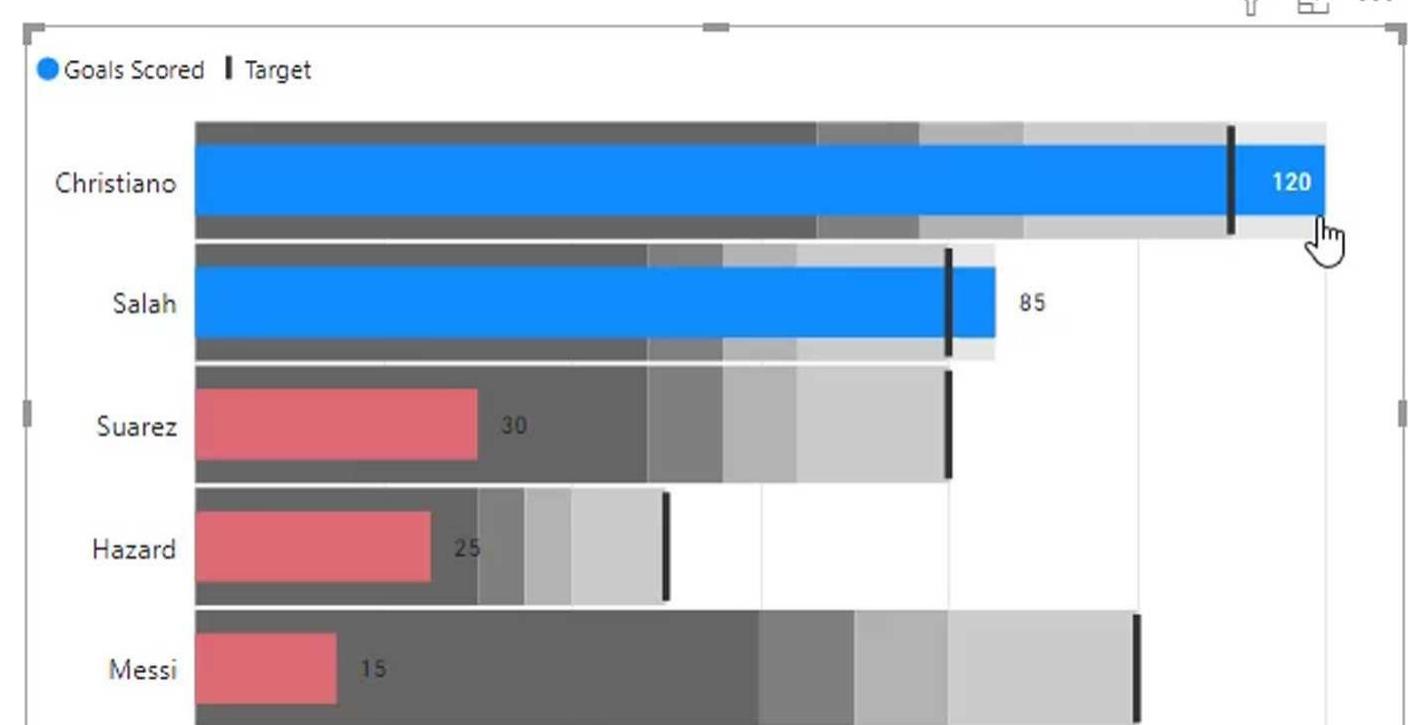
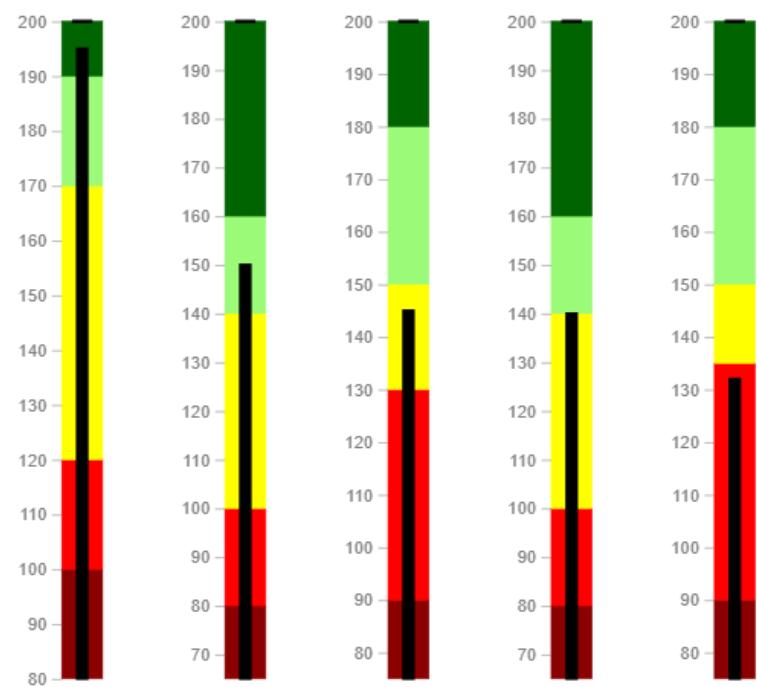
| Delivery.Country   | Max.Delay.DAX | Max.Measure.Delay.DAX | Delivery.Country   |
|--------------------|---------------|-----------------------|--------------------|
| Benin              | 165           | 22                    | Benin              |
| Botswana           | 165           | 2                     | Botswana           |
| Burundi            | 165           | 48                    | Burundi            |
| Côte d'Ivoire      | 165           | 76                    | Côte d'Ivoire      |
| Cameroon           | 165           | 22                    | Cameroon           |
| Congo, DRC         | 165           | 165                   | Congo, DRC         |
| Dominican Republic | 165           | 27                    | Dominican Republic |
| Ethiopia           | 165           | 34                    | Ethiopia           |
| Ghana              | 165           | 120                   | Ghana              |
| Guatemala          | 165           | 10                    | Guatemala          |
| Guyana             | 165           | 35                    | Guyana             |
| Haiti              | 165           | 37                    | Haiti              |
| Libya              | 165           | 3                     | Libya              |
| Mozambique         | 165           | 68                    | Mozambique         |
| Namibia            | 165           | 13                    | Namibia            |
| Nigeria            | 165           | 105                   | Nigeria            |
| Rwanda             | 165           | 68                    | Rwanda             |
| Senegal            | 165           | 3                     | Senegal            |
| South Africa       | 165           | 150                   | South Africa       |
| South Sudan        | 165           | 59                    | South Sudan        |
| Swaziland          | 165           | 6                     | Swaziland          |
| Tanzania           | 165           | 78                    | Tanzania           |
| Uganda             | 165           | 53                    | Uganda             |
| Vietnam            | 165           | 63                    | Vietnam            |
| Zambia             | 165           | 113                   | Zambia             |
| Zimbabwe           | 165           | 75                    | Zimbabwe           |
|                    |               | 165                   |                    |

# Let's get back to creating a Bullet Chart

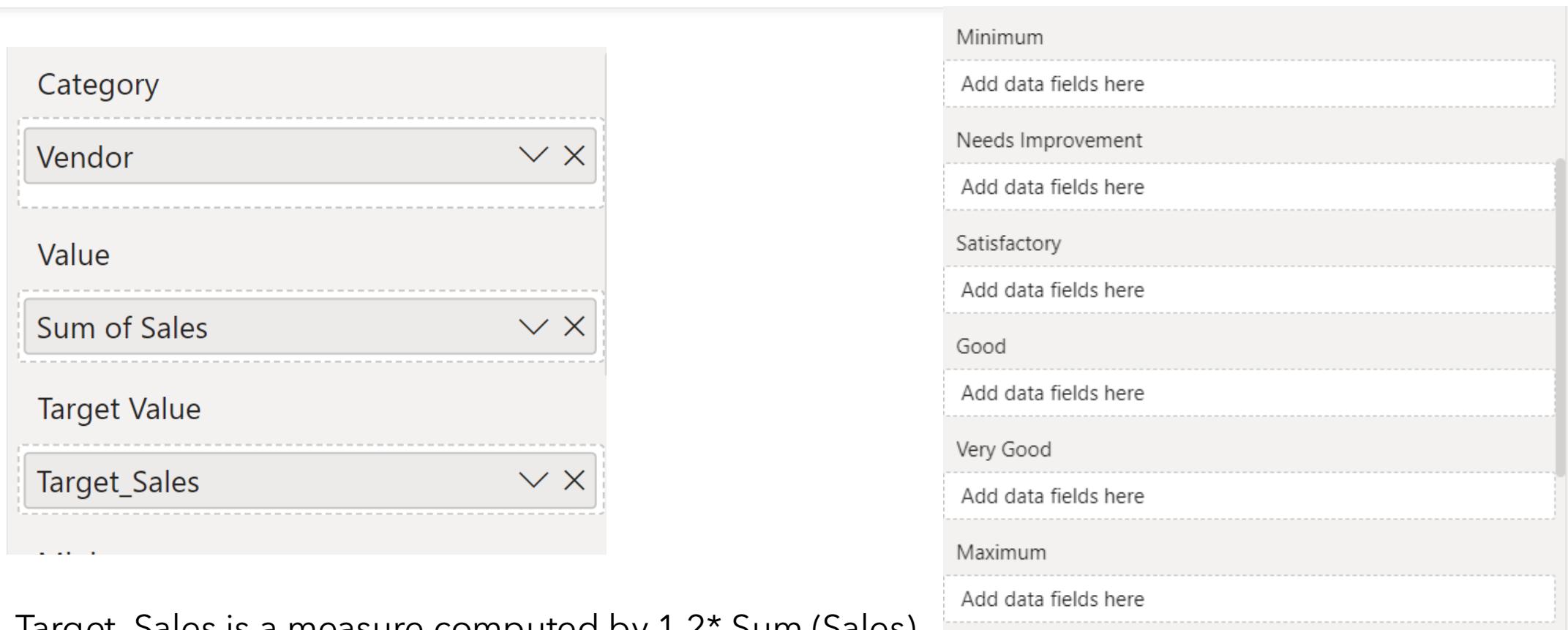


# Bullet chart

- A Power BI bullet chart is a more advanced type of bar chart and great for plotting data comparisons. Each bar is shown against multiple qualitative ranges and a target, making it easy to monitor progress. For example, you could use the chart to show how exam results are graded.



# Bullet Chart - Example



# Create Measures

| Visualization     | Measure Name | Value            |
|-------------------|--------------|------------------|
| Minimum           |              | Min of Sales     |
| Needs Improvement | Sales.NI     | 10% of Max Sales |
| Satisfactory      | Sales.Satis  | 40% of Max Sales |
| Good              | Sales.Good   | 60% of Max Sales |
| Very Good         | Sales.VGood  | 90% of Max Sales |
| Maximum           |              | Max of Sales     |

Note: We have set this as our own thresholds for comparison.  
 Instead of a percentage of Sales, if we have values for thresholds, we may directly use that.

# Create Bullet Chart

[Back to report](#)

SUM OF SALES, TARGET\_SALES, MIN OF SALES, SALES\_NI, SALES\_SATIS, SALES\_GOOD, SA...

BY VENDOR



...



# Another example for your practice

Create a new table with new data

Create Table

The first row of data that you pasted has been promoted to column headers. [Undo Headers](#)

|   | Product   | Sales | Target | + |
|---|-----------|-------|--------|---|
| 1 | Paper     | 3000  | 5000   |   |
| 2 | Pen       | 2500  | 3500   |   |
| 3 | Erasers   | 1000  | 700    |   |
| 4 | Sharpener | 500   | 350    |   |
| 5 | Rulers    | 800   | 800    |   |
| + |           |       |        |   |

Name: Bullet\_eg

Load Edit Cancel

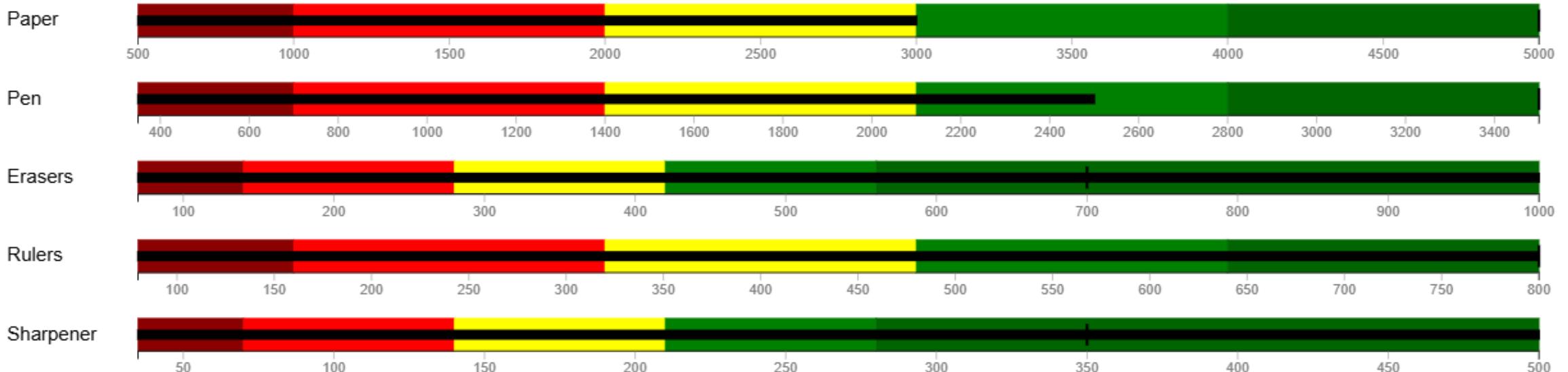
| Product   | Sales | Target |
|-----------|-------|--------|
| Paper     | 3000  | 5000   |
| Pen       | 2500  | 3500   |
| Erasers   | 1000  | 700    |
| Sharpener | 500   | 350    |
| Rulers    | 800   | 800    |

# Create Columns

| Visualization     | Column Name | Value         |
|-------------------|-------------|---------------|
| Minimum           |             | 10% of Target |
| Needs Improvement | B.NI        | 20% of Target |
| Satisfactory      | B.Satis     | 40% of Target |
| Good              | B.Good      | 60% of Target |
| Very Good         | B.VGood     | 80% of Target |
| Maximum           |             | Max of Sales  |

- Try as practice. Set your own thresholds.
- You may also try out random values for new columns.

### Sum of Sales , Sum of Target, Sum of Min, Sum of NI, Sum of Sat, Sum of Good, Sum of VGood and Max of Sales by Product

...


# Tips for BI

## Visualizations

- Don't over-complicate - Keep it simple for the business users
- If 2 charts are showing the same insights - think again, do they both need to be on the dashboard?
- Not everything has to be part of a hierarchy - need to be a logical one.
- Overly **colorful** VS Too **Bland** → Strike a balance. *Be Aesthetic.*

# Tips for BI

## Visualizations

- Relevant chart title → Communicate better information to the user.
- Smart choice of charts.
- A large chart may be broken into 2 simpler charts. Don't overload information.
- Practice the tool - explore different charts.

# Tips for BI

## **Interactivity:**

- Charts acting as slicers
- Give control to the user → Slicers (Categorical, Timeline, Numerical) as needed.
- Assume that your user doesn't know anything about Power BI → Give easy access and make it user friendly.

## **Problem solving:**

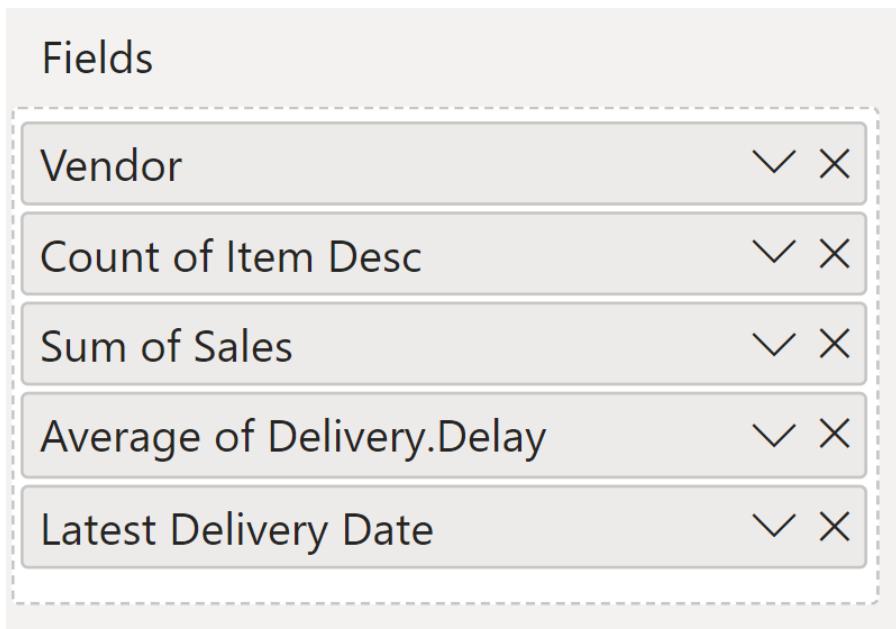
- Don't lose track of the problem you are solving.

# Drilling through reports

Navigate between different pages of a report

# Create a details page

- Multi-row card at top



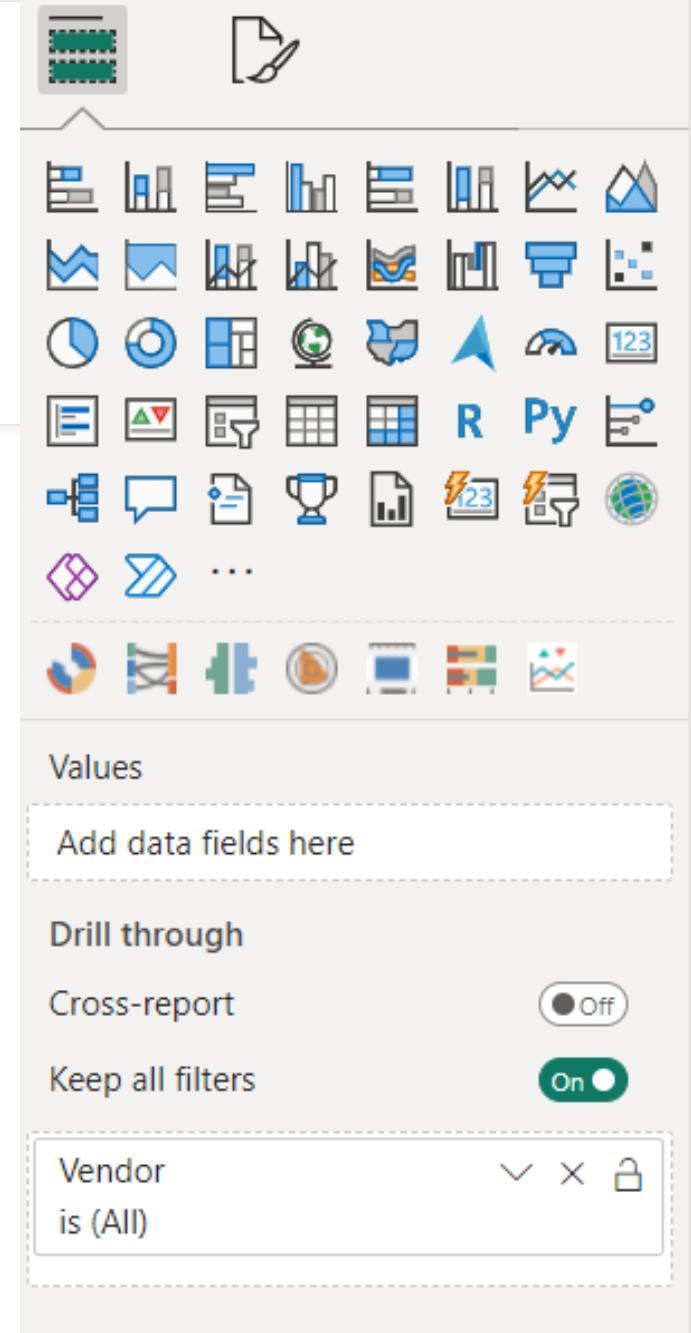
- Add a filled map for Delivery Country
- Add a table for item description with sum of sales and sum of delivery delays.

| Aurobindo Pharma Limited<br>Vendor  | 11                    | Count of Item Desc  | 4,806,275.97<br>Sum of Sales | 34.36<br>Average of Delivery.Delay | Friday, October 14, 2011<br>Latest Delivery Date |
|---|-----------------------|---|------------------------------|------------------------------------|--|
| CIPLA LIMITED   | 15                    |   ... | 5,174,963.65                 | 32.67                              | Thursday, May 05, 2011                           |
| <b>Delivery.Country</b>   |                       |   |                              |                                    |  |
|     |                       |   |                              |                                    |  |
| Item Desc   | Sum of Delivery.Delay | Sum of Sales  |                              |                                    |  |
| Abacavir 20mg/ml, oral solution w/syringe, Bottle, 240 ml                             | 59                    | 82,063.   |                              |                                    |  |
| Abacavir 20mg/ml, oral solution, Bottle, 240 ml                                       | 24                    | 28,254.   |                              |                                    |  |
| Abacavir 300mg, tablets, 60 Tabs  | 286                   | 1,834,414.  |                              |                                    |  |
| Abacavir/Lamivudine 60/30mg, dispersible tablets, 60 Tabs                             | 4                     | 697.  |                              |                                    |  |
| Abacavir/Lamivudine 60/30mg, tablets, 60 Tabs   | 158                   | 711,718.  |                              |                                    |  |
| Abacavir/Lamivudine 600/300mg, scored tablets, 30 Tabs                                | 32                    | 101,529.  |                              |                                    |  |
| Abacavir/Lamivudine 600/300mg, tablets, 30 Tabs                                       | 35                    | 152,451.  |                              |                                    |  |
| Didanosine 100mg, chewable/dispersible tablets, 60 Tabs                               | 63                    | 17,850.   |                              |                                    |  |
| Didanosine 125mg, delayed-release capsules, 30 Caps                                   | 46                    | 892.  |                              |                                    |  |
| Didanosine 200mg, chewable/dispersible tablets, 60 Tabs                               | 24                    | 44,131.   |                              |                                    |  |
| Didanosine 250mg, delayed-release capsules, 30 Caps                                   | 8                     | 89,336.   |                              |                                    |  |
| Efavirenz 200mg, capsule, 90 Caps   | 422                   | 270,241.  |                              |                                    |  |
| Efavirenz 200mg, scored tablets, 90 Tabs  | 135                   | 524,723.  |                              |                                    |  |
| Efavirenz 50mg, capsule, 30 Caps  | 76                    | 218,019.  |                              |                                    |  |
| Efavirenz 600mg, tablets, 30 Tabs   | 964                   | 10,877,026.   |                              |                                    |  |
| Efavirenz/Emtricitabine/Tenofovir Disoproxil Fumarate 600/200/300mg, tablets, 30 Tabs | 729                   | 16,339,616.   |                              |                                    |  |
| Efavirenz/Lamivudine/Tenofovir Disoproxil Fumarate 600/300/300mg, tablets, 30 Tabs    | 323                   | 30,837,878.   |                              |                                    |  |
| Emtricitabine/Tenofovir Disoproxil Fumarate 200/300mg, tablets, 30 Tabs               | 301                   | 5,013,013.  |                              |                                    |  |
| Indinavir 400mg [Crixivan], capsules, 180 Caps  | 1                     | 22,500.   |                              |                                    |  |
| Lamivudine 10mg/ml, oral solution w/syringe, Bottle, 240 ml                           | 461                   | 114,993.  |                              |                                    |  |
| Lamivudine 10mg/ml, oral solution, Bottle, 240 ml                                     | 8                     | 10,136.   |                              |                                    |  |
| Lamivudine 150mg, tablets, 60 Tabs  | 573                   | 1,596,936.  |                              |                                    |  |
| Lamivudine/Nevirapine/Stavudine 150/200/30mg, tablets, 60 Tabs                        | 195                   | 2,729,857.  |                              |                                    |  |
| Lamivudine/Nevirapine/Stavudine 30/50/6mg, dispersible tablets, 60 Tabs               | 39                    | 35,440.   |                              |                                    |  |
| <b>Total</b>  | <b>12510</b>          | <b>156,602,629.</b>   |                              |                                    |  |

 © 2024 TomTom, © 2024 Microsoft Corporation, [@ OpenStreetMap](#) [Terms](#)

# Drill through

- Add VENDOR to Drill through section on the details page



The screenshot shows the 'Drill through' configuration pane in Power BI. At the top, there are two icons: a grey square with three green horizontal bars and a white document with a black pen. Below these are several rows of small blue and grey icons representing various data visualization and analytical functions.

**Values:** A dashed-line box labeled 'Add data fields here'.

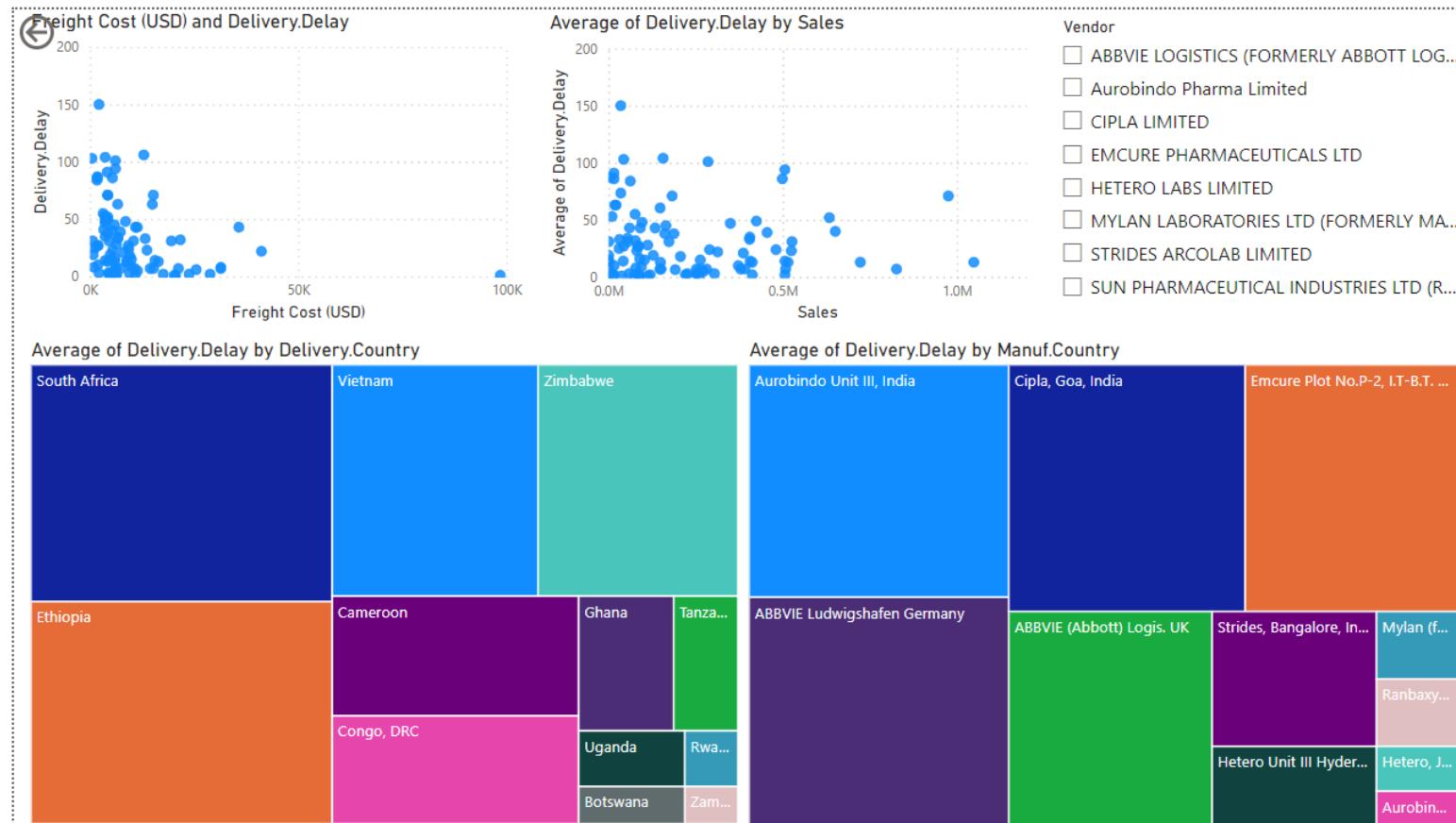
**Drill through:** A section with a radio button set to 'Off'.

**Cross-report:** A section with a radio button set to 'Off'.

**Keep all filters:** A section with a green 'On' button.

**Vendor is (All):** A dropdown menu with a close button and a lock icon.

# Add the same to report page 2



Drill through

Cross-report

Off

Keep all filters

On

Vendor  
is (All)

**645**

Count of Delivery.Delay

**7.66M**

Sum of Freight Cost (USD)

**156.60M**

Sum of Sales

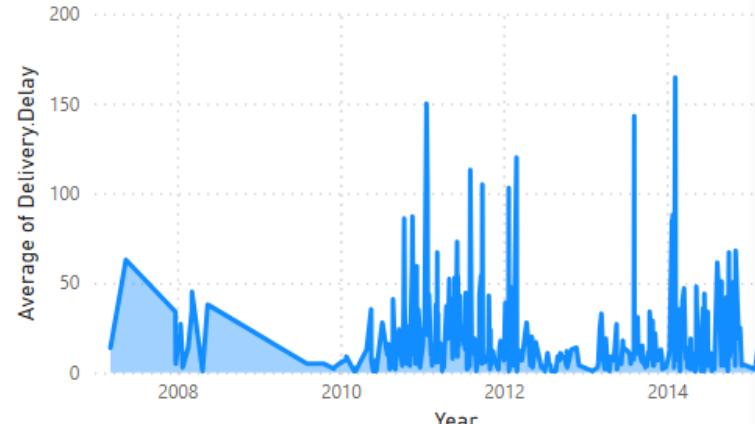
**21M**

Sum of Line Item Quantity

**5.08K**

Average of Weight (Kilograms)

Average of Delivery.Delay by Year, Quarter, Month and Day



Drill down

Show data point as a table

Show as a table

Show next level

Expand to next level

Include

Exclude

Drill through

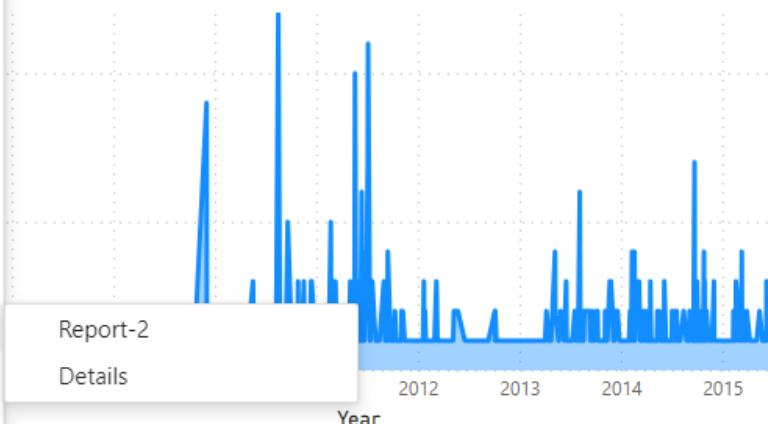
Analyze

Group

Summarize

Copy

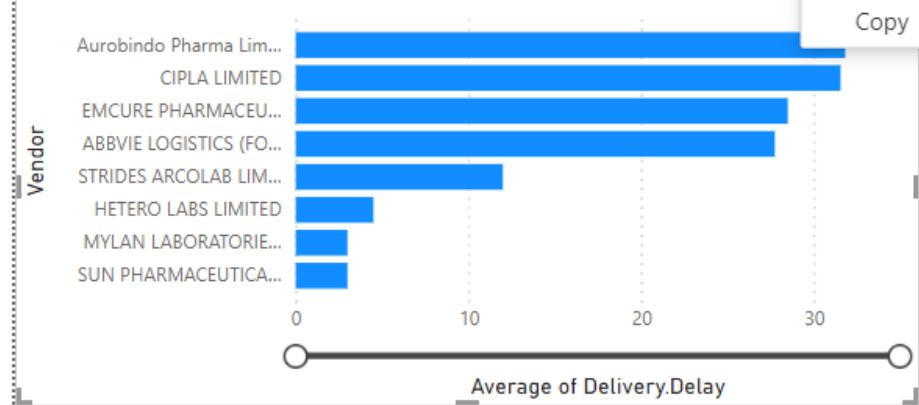
Average of Delivery.Delay by Year, Quarter, Month and Day



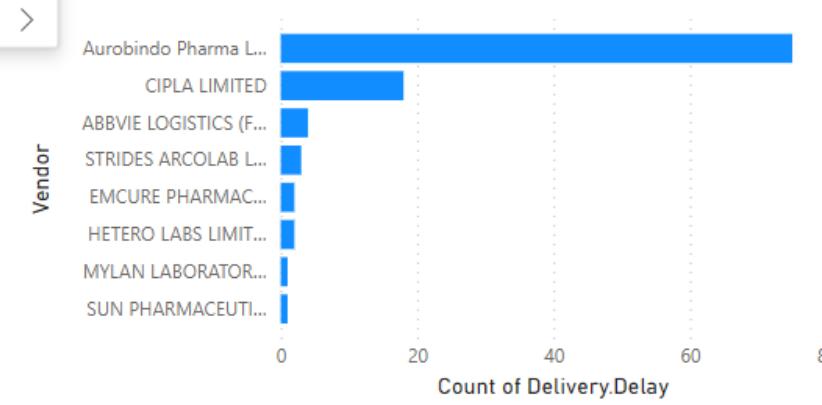
Report-2

Details

Average of Delivery.Delay by Vendor



Count of Delivery.Delay by Vendor



# Click on drill through to take you to the details page filtered as per the selected Vendor e.g Aurobindo

|  |                          |                               |                                    |   |
|--|--------------------------|-------------------------------|------------------------------------|---|
|  Aurobindo Pharma Limited<br>Vendor | 75<br>Count of Item Desc | 14,913,224.50<br>Sum of Sales | 31.83<br>Average of Delivery.Delay | Monday, July 21, 2014<br>Latest Delivery Date |
|--|--------------------------|-------------------------------|------------------------------------|---|

Delivery.Country

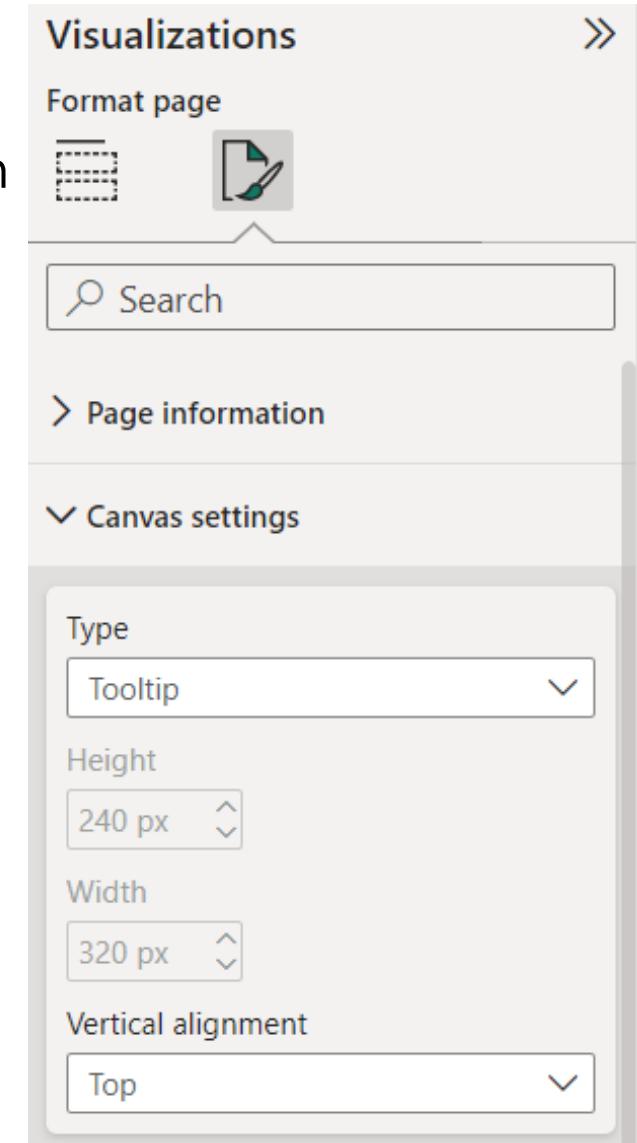
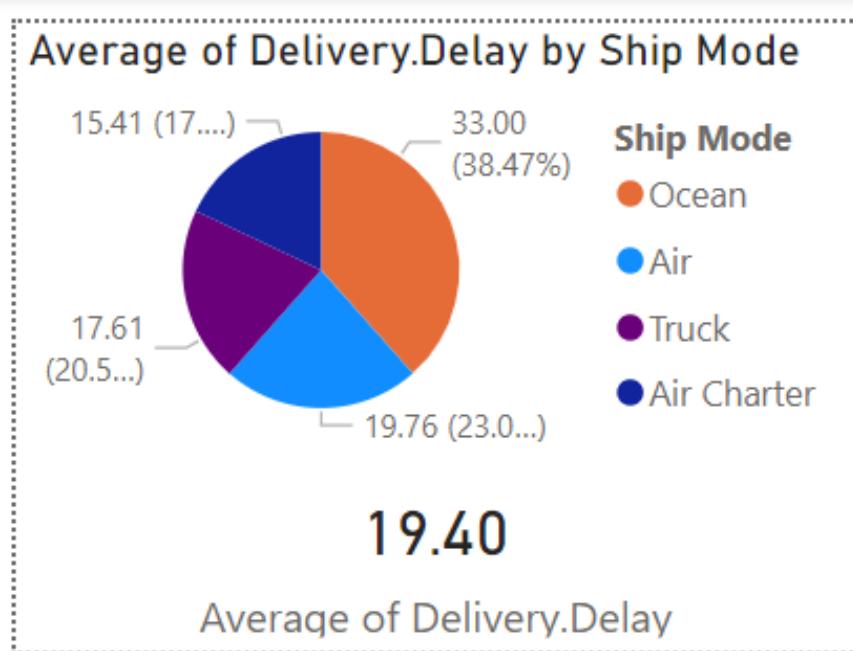


| Item Desc   | Sum of Delivery.Delay | Sum of Sales         |
|---|-----------------------|----------------------|
| Didanosine 100mg, chewable/dispersible tablets, 60 Tabs                     | 63                    | 17,850.00            |
| Efavirenz 200mg, capsule, 90 Caps   | 122                   | 188,342.56           |
| Efavirenz 50mg, capsule, 30 Caps  | 75                    | 210,305.12           |
| Efavirenz 600mg, tablets, 30 Tabs   | 506                   | 5,567,593.49         |
| Lamivudine 10mg/ml, oral solution w/syringe, Bottle, 240 ml                 | 297                   | 104,724.00           |
| Lamivudine 150mg, tablets, 60 Tabs  | 238                   | 363,961.61           |
| Lamivudine/Nevirapine/Zidovudine 150/200/300mg, tablets, 60 Tabs            | 25                    | 372,110.10           |
| Lamivudine/Tenofovir Disoproxil Fumarate 300/300mg, tablets, 30 Tabs        | 3                     | 481,104.10           |
| Lamivudine/Zidovudine 150/300mg, tablets, 60 Tabs                           | 14                    | 660,738.65           |
| Lopinavir/Ritonavir 200/50mg, tablets, 120 Tabs                             | 5                     | 272,314.50           |
| Nevirapine 10mg/ml, oral suspension w/syringe, Bottle, 100 ml               | 4                     | 29,049.80            |
| Nevirapine 10mg/ml, oral suspension w/syringe, Bottle, 240 ml               | 245                   | 142,011.72           |
| Nevirapine 200mg, tablets, 60 Tabs  | 43                    | 671,254.19           |
| Nevirapine 50mg, dispersible tablets (tablets for oral suspension), 30 Tabs | 8                     | 615.00               |
| Stavudine 30mg, capsules, 60 Caps   | 34                    | 54,350.75            |
| Tenofovir Disoproxil Fumarate 300mg, tablets, 30 Tabs                       | 378                   | 4,806,275.97         |
| Zidovudine 300mg, tablets, 60 Tabs  | 327                   | 970,622.94           |
| <b>Total</b>  | <b>2387</b>           | <b>14,913,224.50</b> |

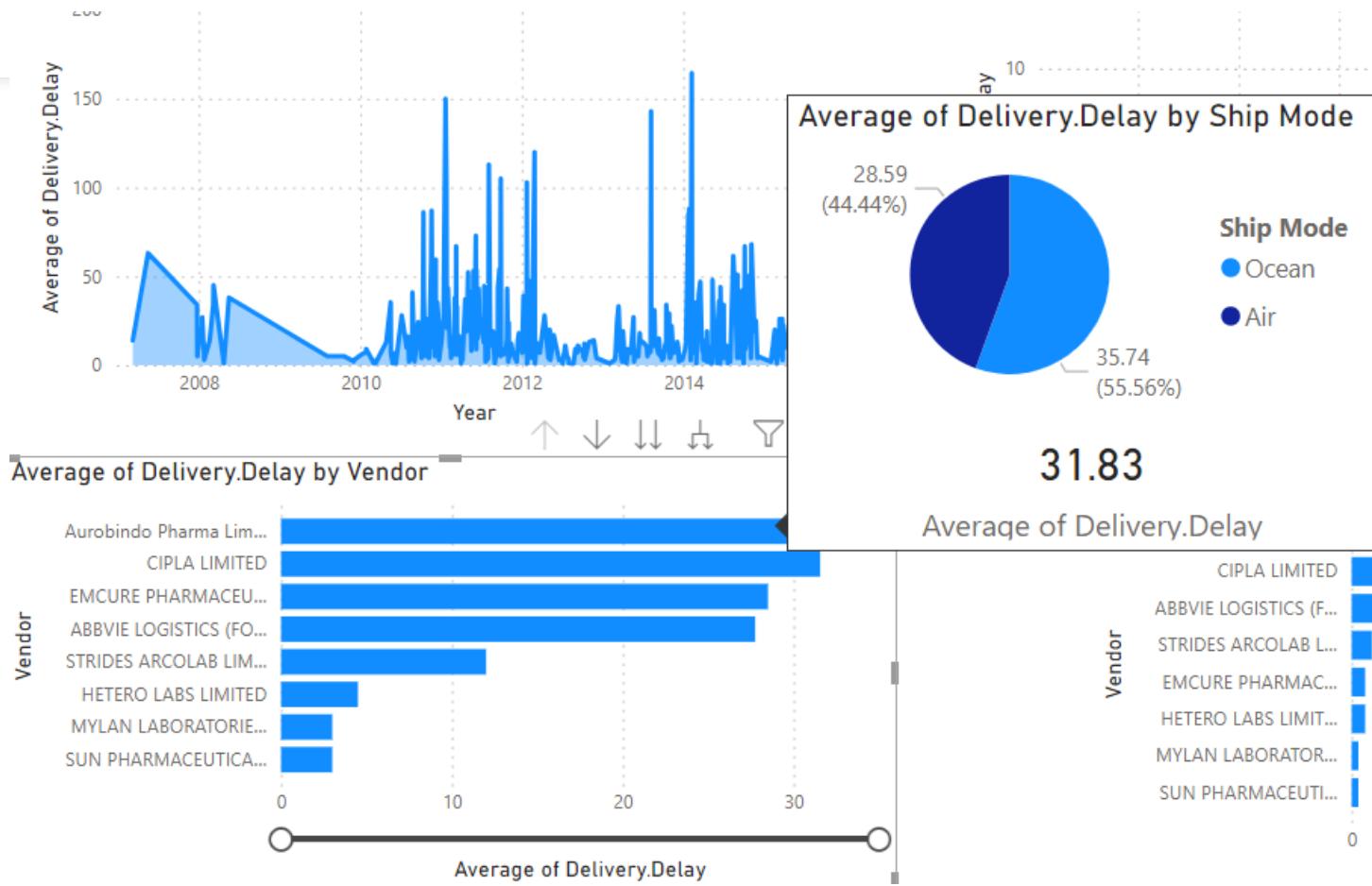
# Format Visuals

# Tool Tips

- Create a new page, set the canvas settings as shown and design what you wish to see on the tooltip in the small canvas.
- An example is below:



# Link the Tooltip to the desired chart. Hover on a bar to see the tooltip



Visualizations >

Format visual

Search

Visual General ...

> Properties

> Title On

> Effects

> Header icons On

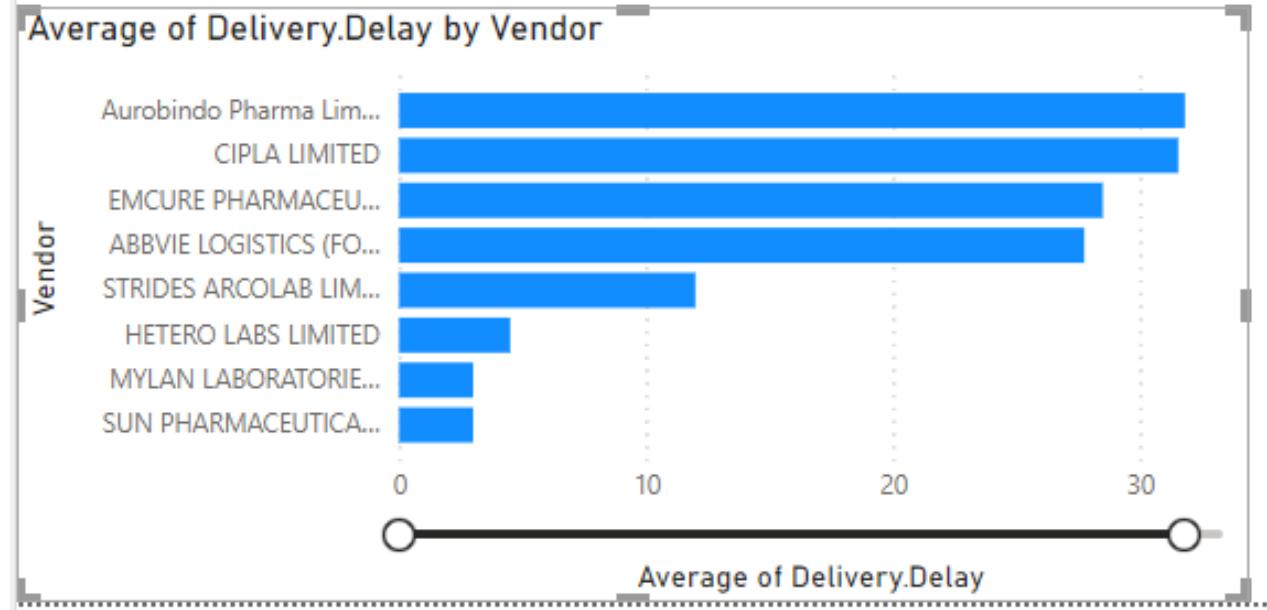
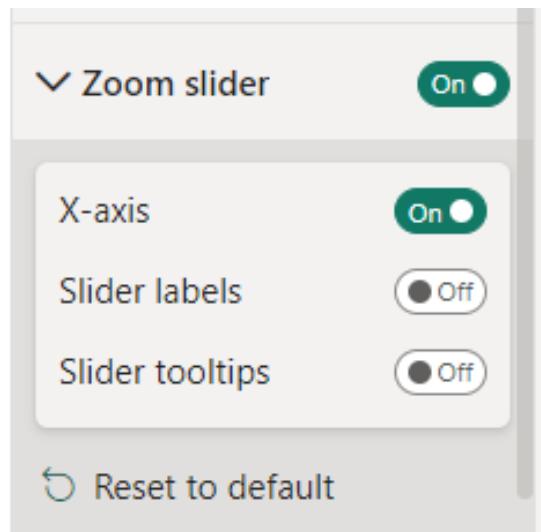
> Tooltips On

> Options

Type Report page

Page Mytooltip

# Zoom Slider



# Next week

- Monday: Setup Tableau and be ready for a in-class graded activity <=2 members
- Team Up! Maximum 4 students on a team for project. Details to be shared.
- Power BI Report Assignment Due.