

Introduction to Power BI

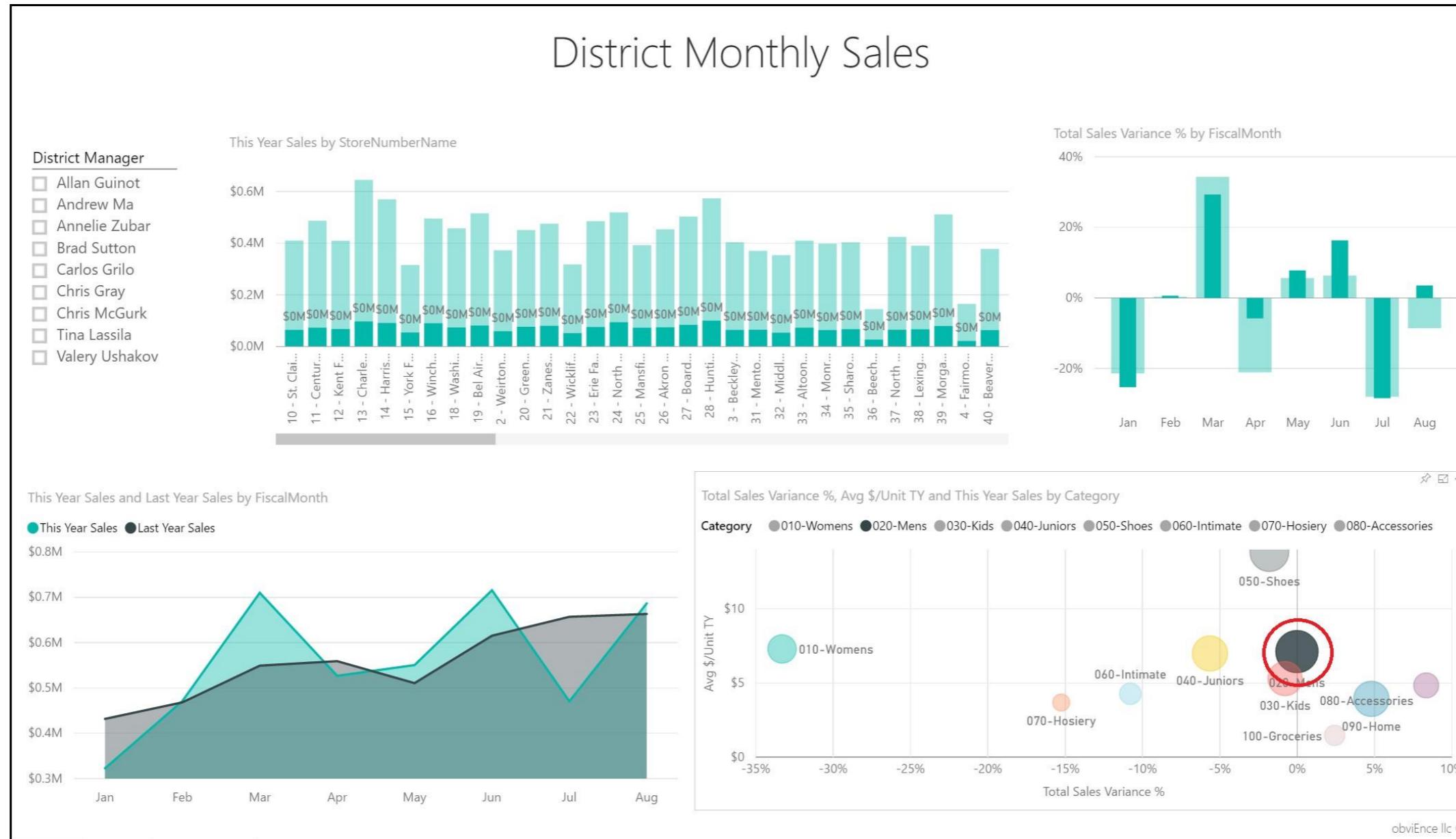
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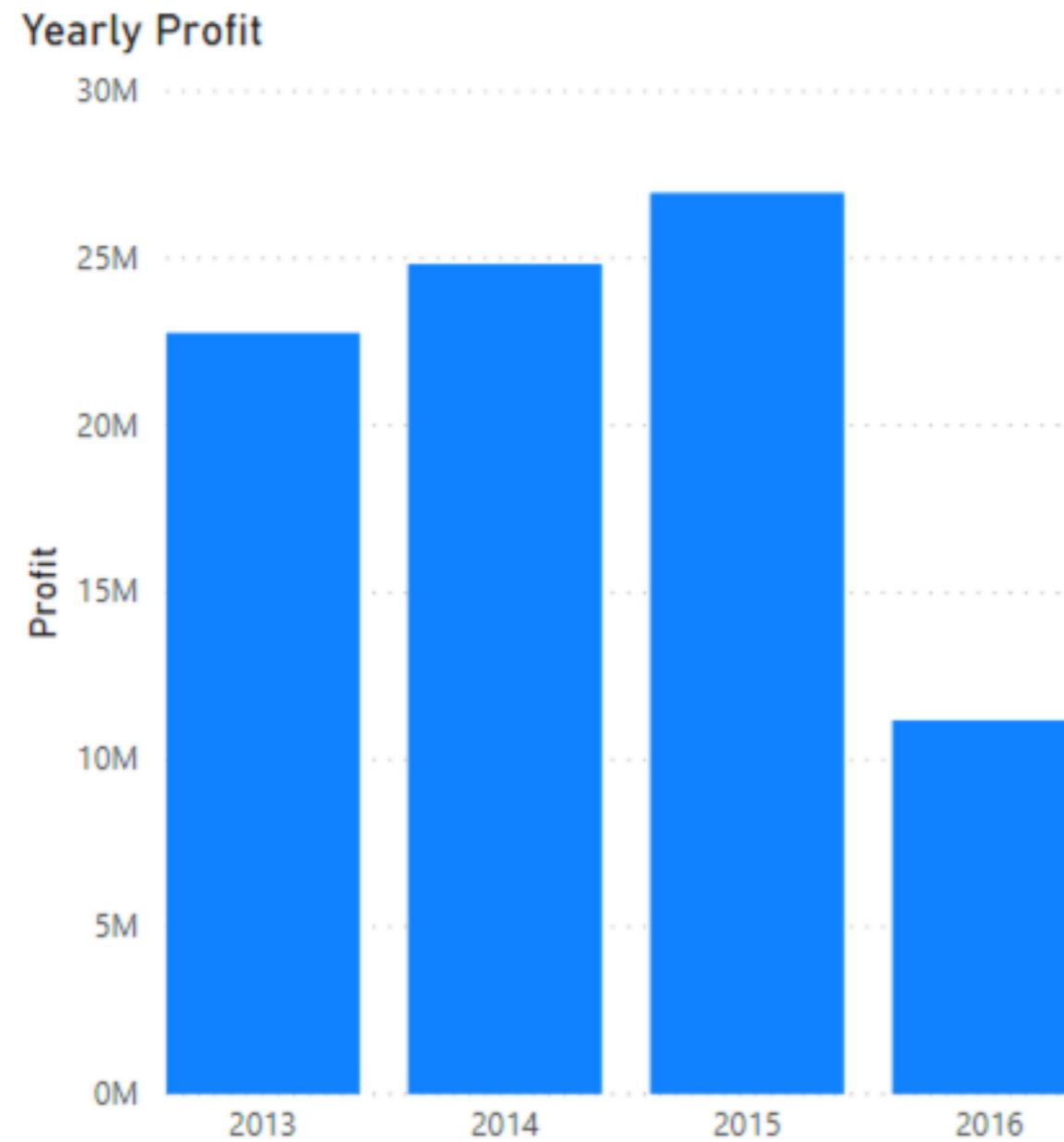
1. Getting Started with PowerBI

What is Power BI



¹ <https://docs.microsoft.com/en-us/power-bi/create-reports/sample-retail-analysis>

Data Visualization in Power BI



Total Excluding Tax	Tax Amount	Profit	Total Including Tax
129	19.35	67.5	148.35
258	38.7	135	296.7
301	45.15	157.5	346.15
172	25.8	90	197.8
86	12.9	45	98.9
387	58.05	202.5	445.05
387	58.05	202.5	445.05
387	58.05	202.5	445.05
344	51.6	180	395.6
344	51.6	180	395.6
344	51.6	180	395.6
344	51.6	180	395.6
344	51.6	180	395.6
258	38.7	135	296.7
258	38.7	135	296.7
258	38.7	135	296.7

Why Power BI?

- Leading BI tool according to Gartner
- Over 97% of Fortune 500 companies use Power BI
- Over 6 million customers

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms



Power BI Components

Power BI Desktop

- Desktop version
- Data analysis and report creation tool
- Includes the Power Query Editor
- 100% free

Power BI service

- Cloud-based version
- Light report editing
- Share and distribute reports

Power BI Pro

Exclusive features:

- Publish and share across the Power BI cloud platform
- Mobile app
- Collaborate with other Power BI users

Power BI Interface

Power BI Desktop

[Get data](#)

[Recent sources](#)

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Desktop
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WHAT'S NEW

Take a look at what's new and improved in Power BI in this month's update.

POWER BI BLOG

Keep up to date with the latest news, resources, and updates from the Power BI team.

FORUMS

Visit the Power BI Forum to ask questions or interact with other users in the Power BI community.

TUTORIALS

Ready to learn more about Power BI?

Power BI Interface - Three views

The screenshot displays the Power BI Desktop application window titled "CH3_EX6_Screencast - Power BI Desktop". The interface is organized into three main vertical sections:

- Left Panel (Dashboard):** Shows a summary visualization with three large numbers: 1, 2, and 3. Number 1 is red and bolded. Number 2 is red and bolded. Number 3 is red and bolded. Below this is a stacked bar chart titled "Amount by AccountType" with segments for Income (blue) and Expense (dark blue). A red box highlights the first three items in the navigation pane.
- Middle Panel (Visualizations):** Contains a bar chart titled "Amount by MonthName and ScenarioName". The Y-axis is labeled "Amount" and ranges from 0bn to 2bn. The X-axis lists months from November to January. For each month, there are three bars: Actual (blue), Budget (dark blue), and Forecast (orange). Below this is a table titled "ScenarioName" with columns for Audio, Cameras and camcorders, Cell phones, Computers, Games and Toys, Home Appliances, Music, Movies and TV and Video, and Audio Books. The table includes rows for Actual, Budget, Forecast, and Total values.
- Right Panel (Fields):** Shows the Power BI Fields pane with sections for Filters, Visualizations, and Fields. The "Filters" section contains a search bar and a list of years from 2015 to 2020. The "Visualizations" section shows thumbnail previews of various charts and tables. The "Fields" section shows a search bar and a list of data sources: DimAccount, DimDate, DimProductCategory, DimScenario, and FactStrategyPlan.

Power BI Interface - Report View

The screenshot shows the Power BI Desktop application window titled "CH3_EX6_Screencast - Power BI Desktop". The ribbon at the top has tabs: File, Home (selected), Insert, Modeling, View, and Help. The Home tab has several icons: Paste, Cut, Copy, Format painter, Get data (with sub-options: workbook hub, Data, SQL Server, Enter, Dataverse, Recent sources), Transform (with sub-options: Refresh data, New visual, Text box, More visuals), New measure (with sub-options: New measure, Quick measure, Sensitivity), Calculations, Sensitivity, Publish, and Share.

A red box highlights the "Report View" button in the ribbon, which is located next to the "New visual" icon. A red arrow points to this button from the left.

The main workspace contains three visualizations:

- Amount by AccountType:** A treemap visualization showing data categorized by account type. One large blue segment is labeled "Expense".
- Amount by MonthName and ScenarioName:** A grouped bar chart showing the amount for different months (November to January) across three scenarios: Actual (blue), Budget (dark blue), and Forecast (orange). The Y-axis ranges from 0bn to 2bn.
- ScenarioN:** A table showing financial data for various categories. The columns include ScenarioName (Actual, Budget, Forecast), Audio, Cameras and camcorders, Cell phones, Computers, Games and Toys, Home Appliances, Music, Movies and Audio Books, and TV and Video. The rows show data for Actual, Budget, Forecast, and Total.

ScenarioName	Audio	Cameras and camcorders	Cell phones	Computers	Games and Toys	Home Appliances	Music, Movies and Audio Books	TV and Video
Actual	273,081,757.15	3,587,092,338.37	1,287,810,461.47	4,593,694,374.88	218,933,396.02	5,665,988,969.42	230,738,587.69	2,485,487,457.19
Budget	256,826,621.81	3,347,605,529.68	1,208,041,332.59	4,307,849,337.57	207,049,792.29	5,299,115,246.06	215,317,906.62	2,330,834,374.94
Forecast	273,397,435.67	3,572,004,626.25	1,285,330,168.28	4,585,888,066.58	219,730,520.95	5,664,411,752.04	229,865,165.02	2,296,131,319.12
Total	803,305,814.64	10,506,702,494.30	3,781,181,962.35	13,487,431,779.03	645,713,709.26	16,629,515,967.52	675,921,659.33	7,112,453,151.25

The right-hand pane contains the following sections:

- Filters:** A search bar and a list of filters: Select all, 2020, 2019, 2018, 2017, 2016, 2015.
- Visualizations:** A search bar and a list of visualizations: Build visual, DimAccount, DimDate, DimProductCategory, DimScenario, FactStrategyPlan.
- Fields:** A search bar and a list of fields: DimAccount, DimDate, DimProductCategory, DimScenario, FactStrategyPlan.

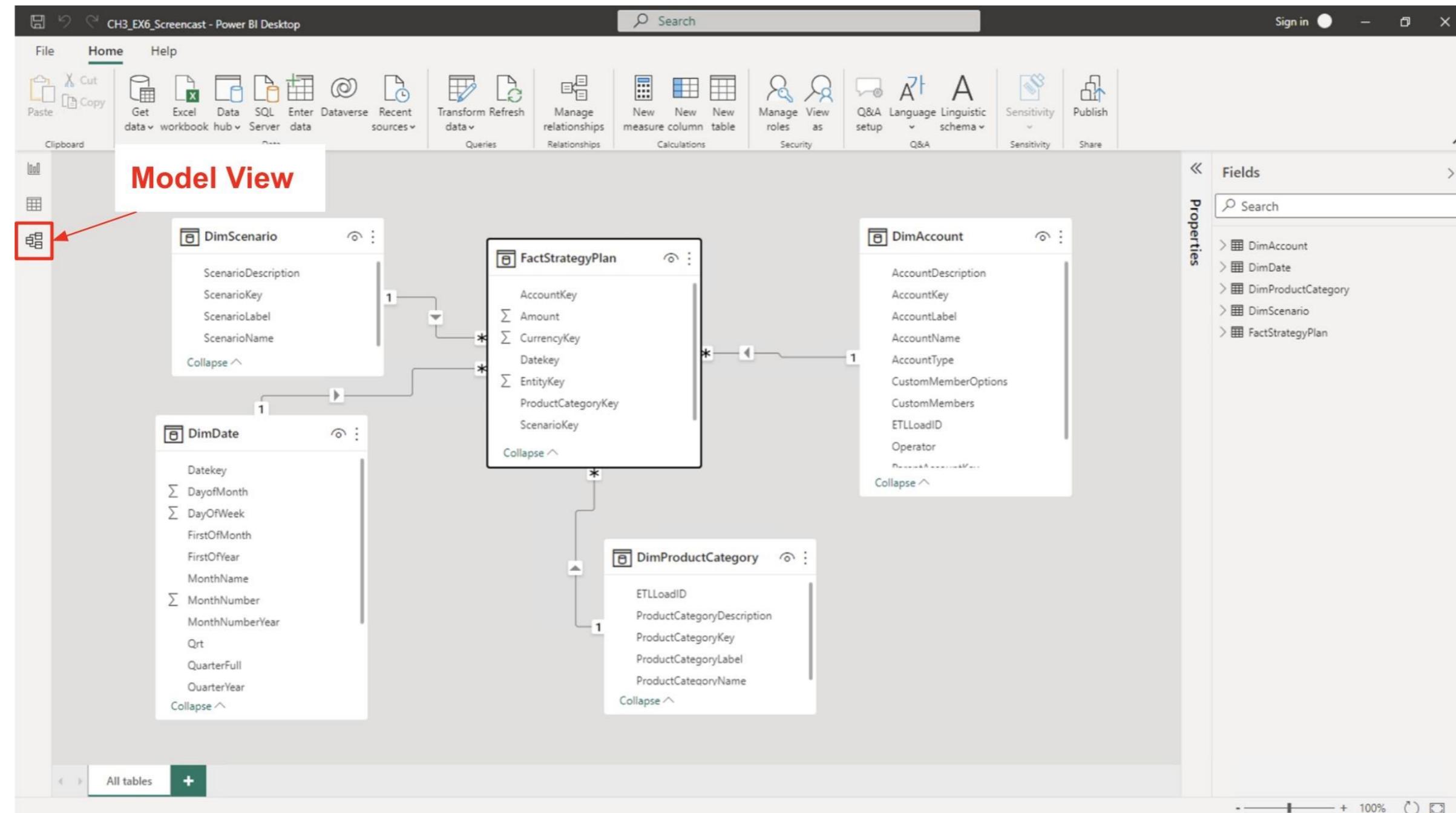
At the bottom, there are page navigation buttons (Page 1, +), a status bar (Page 1 of 1, 78%), and zoom controls.

Power BI Interface - Data View

The screenshot shows the Power BI Desktop interface with the title bar "CH3_EX6_Screencast - Power BI Desktop". The "Table tools" tab is selected in the ribbon. A red box highlights the "New table" icon in the "Calculated columns" group. The main area displays the "DimAccount" table with 24 rows. The table has columns: AccountKey, ParentAccountKey, AccountLabel, AccountName, AccountDescription, AccountType, Operator, CustomMembers, ValueType, CustomMemberOptions, and ETLLoadID. The "Data View" label is overlaid in red text on the left side of the table. The Data pane on the right lists columns: AccountDescription, AccountKey, AccountLabel, AccountName, AccountType, CustomMemberOpti..., CustomMembers, ETLLoadID, Operator, ParentAccountKey, and ValueType. A red arrow points from the "New table" icon to the "Data View" label.

AccountKey	ParentAccountKey	AccountLabel	AccountName	AccountDescription	AccountType	Operator	CustomMembers	ValueType	CustomMemberOptions	ETLLoadID
1^00			Profit and Loss after tax	Profit and Loss after tax	NULL	NULL	NULL	NULL	NULL	1
			00 Income	Income	Income	+	NULL	Income	+	1
			00 Expense	Expense	Expense	-	NULL	Expense	-	1
			00 Sale Revenue	Sale Revenue	Income	+	NULL	Income	+	1
5	3		112100 Cost of Goods Sold	Cost of Goods Sold	Expense	+	NULL	Expense	+	1
6	3		112200 Selling, General & Administrative Expenses	Selling, General & Administrative Expenses	Expense	+	NULL	Expense	+	1
7	6		112300 Administration Expense	Administration Expense	Expense	+	NULL	Expense	+	1
8	6		112400 IT Cost	IT Cost	Expense	+	NULL	Expense	+	1
9	6		112500 Human Capital	Human Capital	Expense	+	NULL	Expense	+	1
10	6		112600 Light, Heat, Communication Cost	Light, Heat, Communication Cost	Expense	+	NULL	Expense	+	1
11	6		112700 Property Costs	Property Costs	Expense	+	NULL	Expense	+	1
12	6		112800 Other Expenses	Other Expenses	Expense	+	NULL	Expense	+	1
13	6		112900 Marketing Cost	Marketing & Advertisement Cost	Expense	+	NULL	Expense	+	1
14	13		112910 Holiday Ad Cost	Holiday Ad Cost	Expense	+	NULL	Expense	+	1
15	13		112920 Spring Ad Cost	Spring Ad Cost	Expense	+	NULL	Expense	+	1
16	13		112930 Back-to-School Ad Cost	Back-to-School Ad Cost	Expense	+	NULL	Expense	+	1
17	13		112940 Business Ad Cost	Business Ad Cost	Expense	+	NULL	Expense	+	1
18	13		112950 Tax Time / Summer Ad Cost	Tax Time / Summer Ad Cost	Expense	+	NULL	Expense	+	1
19	1		131000 Taxation	Taxation	Taxation	-	NULL	Taxation	-	1
20	14		112911 Radio & TV	Holiday Ad Cost by Radio & TV	Expense	+	NULL	Expense	+	1
21	14		112912 Print	Holiday Ad Cost by Print	Expense	+	NULL	Expense	+	1
22	14		112913 Internet	Holiday Ad Cost by Internet	Expense	+	NULL	Expense	+	1
23	14		112914 Other	Holiday Ad Cost by Other	Expense	+	NULL	Expense	+	1
24	1		110000 Profit and Loss before tax	Profit and Loss before tax	NULL	+	NULL	NULL	+	1

Power BI Interface - Model View



Power BI Interface - Canvas area

The screenshot shows the Power BI Desktop application window titled "CH3_EX6_Screencast - Power BI Desktop". The interface includes a ribbon menu with File, Home, Insert, Modeling, View, and Help tabs. The Home tab is selected. Below the ribbon are various icons for data management, such as Get data, Transform, and Publish.

The main canvas area contains two visualizations:

- Amount by AccountType:** A treemap visualization showing the distribution of amounts by account type, divided into Income (blue) and Expense (dark blue) categories. The total amount is displayed as 53.64bn.
- Amount by MonthName and ScenarioName:** A grouped bar chart showing monthly amounts for different scenarios (Actual, Budget, Forecast). The Y-axis represents Amount in billions (0bn, 1bn, 2bn), and the X-axis lists months from November to January.

On the right side of the screen, there are three panes:

- Filters:** A pane containing a search bar and dropdown menus for selecting filters on this page and across all pages. It includes options for "Select all" and years from 2015 to 2020.
- Visualizations:** A pane listing various visualizations that can be built, such as DimAccount, DimDate, DimProductCategory, DimScenario, and FactStrategyPlan.
- Fields:** A pane containing a search bar and a list of fields categorized under "Values", "Drill through", "Cross-report", and "Keep all filters".

At the bottom of the canvas area, the word "Canvas" is written in red. The footer of the application shows "Page 1" and a zoom level of 78%.

Power BI Interface - Filters pane

The screenshot shows the Power BI Desktop application window titled "CH3_EX6_Screencast - Power BI Desktop". The interface includes a ribbon menu with File, Home, Insert, Modeling, View, and Help tabs. The Home tab is selected. Below the ribbon are various icons for data management, queries, and visualizations. The main workspace displays three visualizations: a large blue bar chart showing "Amount by AccountType" with a total of "53.64bn", a bar chart showing "Amount by MonthName and ScenarioName" comparing Actual, Budget, and Forecast values across months from November to January, and a detailed table of sales data categorized by product type (e.g., Audio, Cameras and camcorders, Cell phones, Computers, Games and Toys, Home Appliances, Music, Movies and TV and Video Audio Books) and scenario (Actual, Budget, Forecast). To the right of the workspace is the "Filters" pane, which is highlighted with a red border. The pane contains sections for "Filters on this page" and "Filters on all pages", both with "Add data fields here" buttons. It also includes sections for "Values", "Drill through", and "Keep all filters". A red box labeled "Filters Pane" points to the pane's title bar. The right side of the interface features a "Visualizations" pane listing various data sources and a "Fields" pane showing a search bar and a list of fields like DimAccount, DimDate, DimProductCategory, DimScenario, and FactStrategyPlan.

Filters Pane

ScenarioName	Actual	Budget	Forecast
November	2bn	2bn	2bn
December	2bn	2bn	2bn
May	2bn	2bn	2bn
July	2bn	2bn	2bn
August	2bn	2bn	2bn
June	2bn	2bn	2bn
October	2bn	2bn	2bn
April	2bn	2bn	2bn
September	2bn	2bn	2bn
March	2bn	2bn	2bn
February	2bn	2bn	2bn
January	2bn	2bn	2bn

ScenarioName	Actual	Budget	Forecast
Audio	273,081,757.15	3,587,092,338.37	1,287,810,461.47
Cameras and camcorders	256,826,621.81	3,347,605,529.68	1,208,041,332.59
Cell phones	273,397,435.67	3,572,004,626.25	1,285,330,168.28
Computers	803,305,814.64	10,506,702,494.30	3,781,181,962.35
Games and Toys	13,487,431,779.03	645,713,709.26	16,629,515,967.52
Home Appliances	675,921,659.33	7,112,453,151.25	
Music, Movies and TV and Video Audio Books			

Power BI Interface - Visualizations pane

The screenshot shows the Power BI Desktop interface with the title bar "CH3_EX6_Screencast - Power BI Desktop". The ribbon menu includes File, Home, Insert, Modeling, View, and Help. The Home tab is selected, showing options like Cut, Copy, Paste, Get data, Data, SQL, Enter, Dataverse, Recent sources, Transform, Refresh data, New visual, Text box, More visuals, New measure, Quick measure, Calculations, Sensitivity, Publish, and Share.

The main workspace displays three visualizations:

- A large blue treemap visualization titled "Amount by AccountType" showing a total of 53.64bn. It is divided into Income (light blue) and Expense (dark blue).
- A bar chart titled "Amount by MonthName and ScenarioName" comparing Actual (blue), Budget (dark blue), and Forecast (orange) amounts across months from November to January. The Y-axis ranges from 0bn to 2bn.
- A detailed table titled "ScenarioName" showing financial data for various product categories: Audio, Cameras and camcorders, Cell phones, Computers, Games and Toys, Home Appliances, Music, Movies and TV and Video, and Audio Books. The table includes rows for Actual, Budget, Forecast, and Total values.

The right side of the screen features the "Visualizations" pane, which is highlighted with a red border. This pane contains sections for Filters, Visualizations, Fields, and Values, along with various configuration options like Drill through, Cross-report, and Keep all filters.

ScenarioName	Actual	Budget	Forecast	Cameras and camcorders	Cell phones	Computers	Games and Toys	Home Appliances	Music, Movies and TV and Video	Audio Books
Actual	273,081,757.15			3,587,092,338.37	1,287,810,461.47	4,593,694,374.88	218,933,396.02	5,665,988,969.42	230,738,587.69	2,485,487,457.19
Budget	256,826,621.81			3,347,605,529.68	1,208,041,332.59	4,307,849,337.57	207,049,792.29	5,299,115,246.06	215,317,906.62	2,330,834,374.94
Forecast	273,397,435.67			3,572,004,626.25	1,285,330,168.28	4,585,888,066.58	219,730,520.95	5,664,411,752.04	229,865,165.02	2,296,131,319.12
Total	803,305,814.64			10,506,702,494.30	3,781,181,962.35	13,487,431,779.03	645,713,709.26	16,629,515,967.52	675,921,659.33	7,112,453,151.25

Power BI Interface - Fields pane

The screenshot shows the Power BI Desktop application window titled "CH3_EX6_Screencast - Power BI Desktop". The interface includes a ribbon menu with File, Home, Insert, Modeling, View, and Help tabs. The Home tab is selected. Below the ribbon are various icons for data management (Get data, Transform, New visual, etc.) and publishing (Publish). The main workspace displays three visualizations: a large blue bar chart showing "Amount by AccountType" with a total of "53.64bn", a bar chart showing "Amount by MonthName and ScenarioName" comparing Actual, Budget, and Forecast values across months from November to January, and a detailed table showing sales data for various product categories (Cameras and camcorders, Cell phones, Computers, Games and Toys, Home Appliances, Music, Movies and Audio Books) categorized by Scenario (Actual, Budget, Forecast) and Product Type (e.g., Audio, Cameras and camcorders). The right side of the screen features the "Fields pane" (highlighted with a red border), which contains sections for Filters, Visualizations, and Fields. The "Filters" section shows a list of years from 2015 to 2020. The "Visualizations" section lists various data models and tables. The "Fields" section is currently empty. A large red text overlay "Fields Pane" is positioned on the right side of the Fields pane area.

Amount by AccountType

53.64bn

Amount

Income Expense

Select all
2020
2019
2018
2017
2016
2015

Amount by MonthName and ScenarioName

ScenarioName Actual Budget Forecast

2bn
1bn
0bn

MonthName

November December May July August June October April September March February January

Scenario Name

Actual 273,081,757.15 3,587,092,338.37 1,287,810,461.47 4,593,694,374.88 218,933,396.02 5,665,988,969.42 230,738,587.69 2,485,487,457.19

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Total 803,305,814.64 10,506,702,494.30 3,781,181,962.35 13,487,431,779.03 645,713,709.26 16,629,515,967.52 675,921,659.33 7,112,453,151.25

Page 1

Page 1 of 1

78%

Fields pane

Wide World Importers (wwI) dataset



Wide World Importers (WWI) dataset structure

- Star schema
- **Fact Table:**
 - FactSales.csv
- **Dimension Tables:**
 - DimCustomer.csv
 - DimEmployee.xlsx
 - DimStockItem.csv
 - DimDate.csv
 - DimCity.csv

Demo

INTRODUCTION TO POWER BI

2. Transforming data

INTRODUCTION TO POWER BI

Transforming data

- Dataset may contain:
 - Columns you don't need
 - Inconvenient and inconsistent formatting
 - Extra characters
 - Blank rows
- Cleaning data

Loading data

FactSale.csv

File Origin: 65001: Unicode (UTF-8) Delimiter: Comma Data Type Detection: Based on first 200 rows

Sale Key	City Key	Customer Key	Bill To Customer Key	Stock Item Key	Invoice Date Key	Delivery Date Key	Salesperson Key	W1
49258	71135	0	0	194	10/22/2013	10/23/2013	86	
49265	41568	0	0	204	10/22/2013	10/23/2013	83	
49456	70409	0	0	202	10/22/2013	10/23/2013	74	
49372	48937	0	0	173	10/22/2013	10/23/2013	83	
49624	41981	0	0	168	10/24/2013	10/25/2013	85	
49635	70510	0	0	164	10/24/2013	10/25/2013	84	
49908	66274	0	0	198	10/25/2013	10/26/2013	70	
50034	44106	0	0	180	10/25/2013	10/26/2013	85	
50190	56014	0	0	195	10/26/2013	10/27/2013	74	
50487	79969	0	0	164	10/28/2013	10/29/2013	19	
50367	81342	0	0	180	10/28/2013	10/29/2013	85	
50379	91464	0	0	174	10/28/2013	10/29/2013	70	
50436	38583	0	0	192	10/28/2013	10/29/2013	19	
50715	85575	0	0	190	10/29/2013	10/30/2013	39	
50739	81481	0	0	168	10/29/2013	10/30/2013	83	
50914	75393	0	0	171	10/30/2013	10/31/2013	74	
51426	87371	0	0	163	11/4/2013	11/5/2013	84	
51623	47499	0	0	179	11/5/2013	11/6/2013	19	
51656	84269	0	0	187	11/5/2013	11/6/2013	19	
51680	52627	0	0	184	11/5/2013	11/6/2013	91	

Extract Table Using Examples Load Transform Data Cancel

Loading data

FactSale.csv

File Origin: 65001: Unicode (UTF-8) Delimiter: Comma Data Type Detection: Based on first 200 rows

Sale Key	City Key	Customer Key	Bill To Customer Key	Stock Item Key	Invoice Date Key	Delivery Date Key	Salesperson Key	W1
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51656	84269	0	0	187	11/5/2013	11/6/2013	19	
51680	52627	0	0	184	11/5/2013	11/6/2013	91	

Extract Table Using Examples Load Transform Data Cancel

Loading data

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49635	70510	0	0	164	10/24/2013	10/25/2013	84	
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50487	79969	0	0	164	10/28/2013	10/29/2013	19	
50367	81342	0	0	180	10/28/2013	10/29/2013	85	
50379	91464	0	0	174	10/28/2013	10/29/2013	70	
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50715	85575	0	0	190	10/29/2013	10/30/2013	39	
50739	81481	0	0	168	10/29/2013	10/30/2013	83	
50914	75393	0	0	171	10/30/2013	10/31/2013	74	
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51623	47499	0	0	179	11/5/2013	11/6/2013	19	
51656	84269	0	0	187	11/5/2013	11/6/2013	19	
51680	52627	0	0	184	11/5/2013	11/6/2013	91	

Extract Table Using Examples Load Transform Data Cancel

Power Query Editor

The screenshot shows the Microsoft Power Query Editor interface. The title bar reads "Untitled - Power Query Editor". The ribbon menu includes File, Home, Transform, Add Column, View, Tools, and Help. The Home tab is selected, displaying various icons for managing queries, such as Close & Apply, New Source, Refresh, Manage Parameters, and Data Type. The main workspace displays a table titled "FactSale" with 21 columns and 999+ rows. The columns are labeled: Sale Key, City Key, Customer Key, Bill To Customer Key, Stock Item Key, Invoice Date Key, Delivery Date Key, and Sales Amount. The data shows various transaction details with some columns containing zeros. The status bar at the bottom indicates "21 COLUMNS, 999+ ROWS" and "Column profiling based on top 1000 rows". On the right side, there is a "Query Settings" pane with sections for "PROPERTIES" (Name: FactSale) and "APPLIED STEPS" (listing "Source", "Promoted Headers", and "Changed Type"). The status bar also shows "PREVIEW DOWNLOADED AT 12:13 PM".

Don't forget to Close & Apply

The screenshot shows the Microsoft Power Query Editor ribbon. The 'File' tab is selected, and the 'Home' tab is active. The 'Transform' tab is also visible. In the 'Home' tab group, the 'Close & Apply' button is highlighted with a yellow background and a black border. A tooltip is displayed over the 'Close & Apply' button, containing the text: 'Close the Query Editor window and apply any pending changes.' Below the ribbon, a data preview grid is visible, showing columns for Sale Key, City Key, and Customer Key.

Sale Key	City Key	Customer Key
1	49258	71135
2	49265	41568

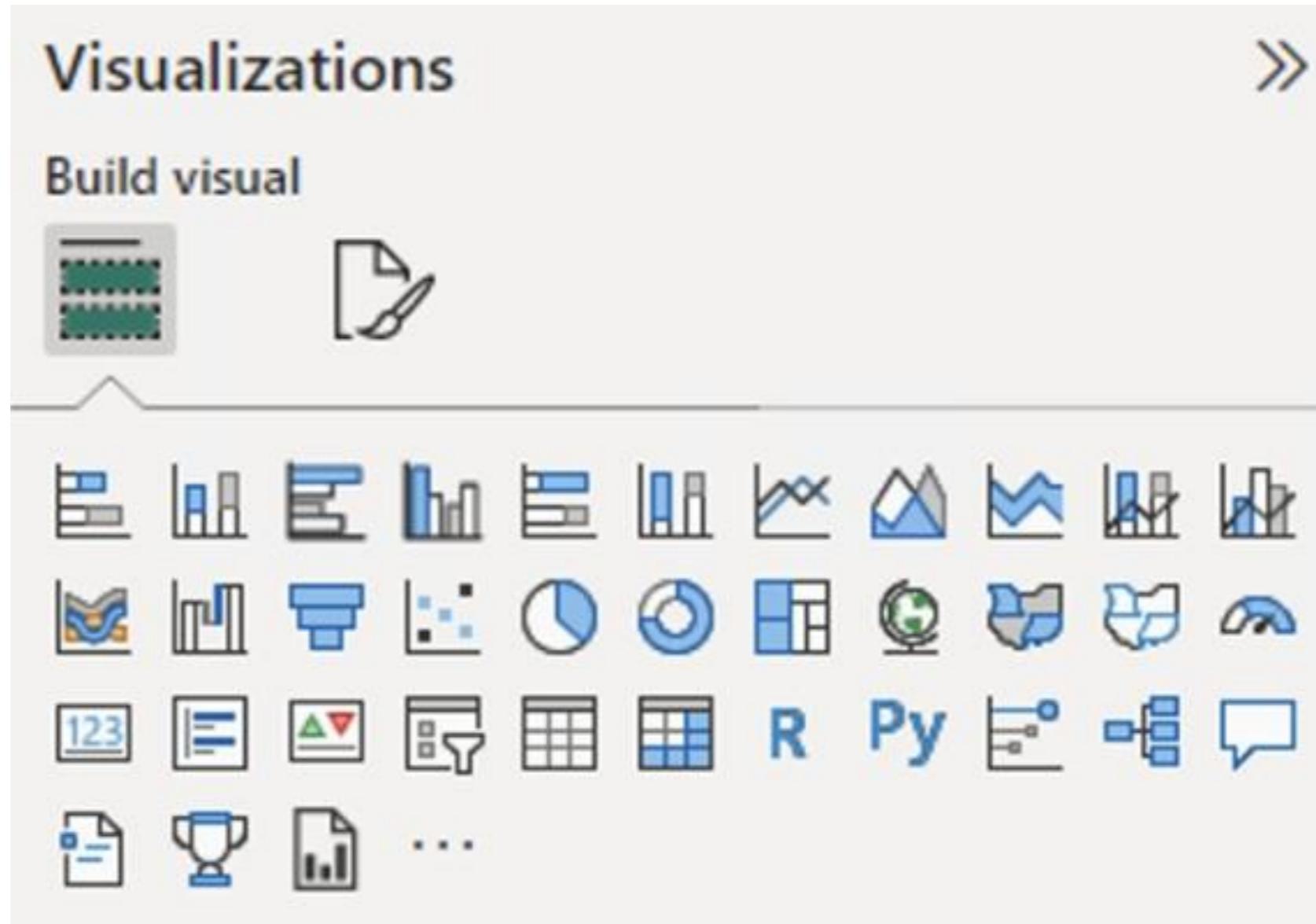
Demo

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3. Visualization options

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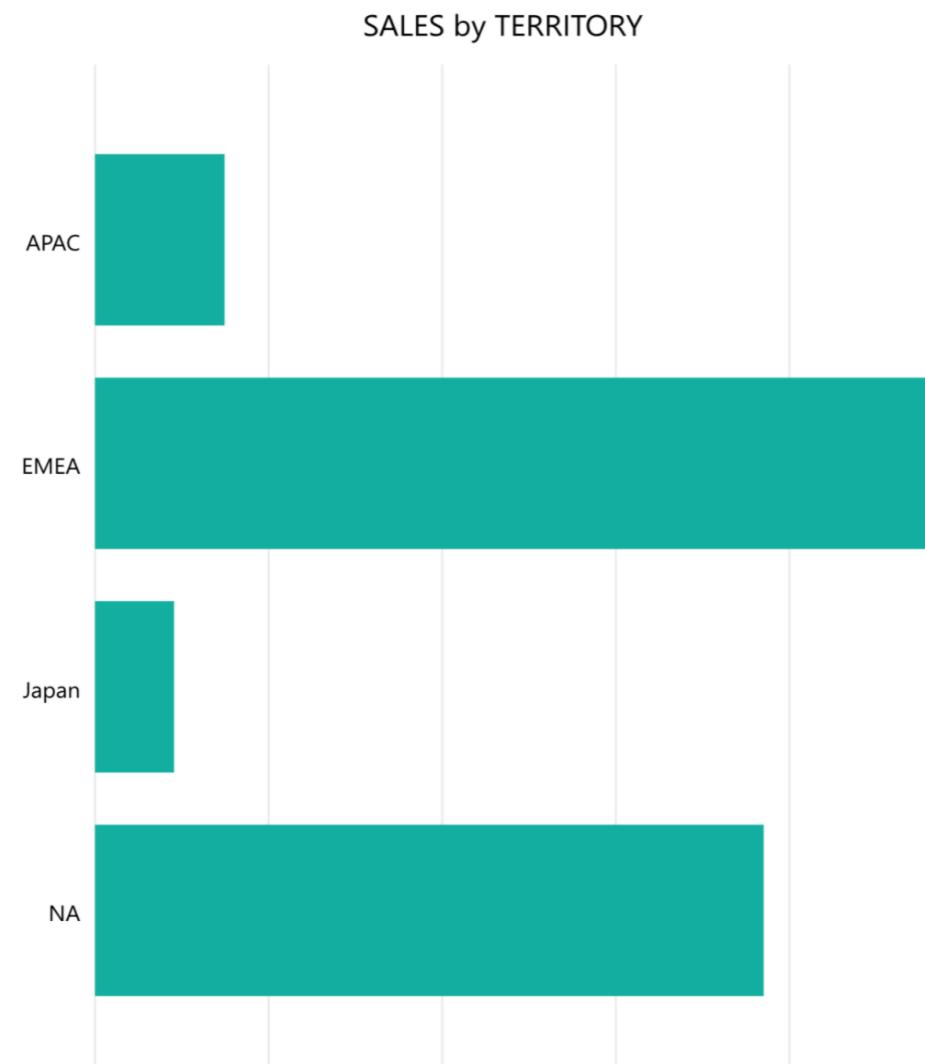
Visualization types



Column and bar charts

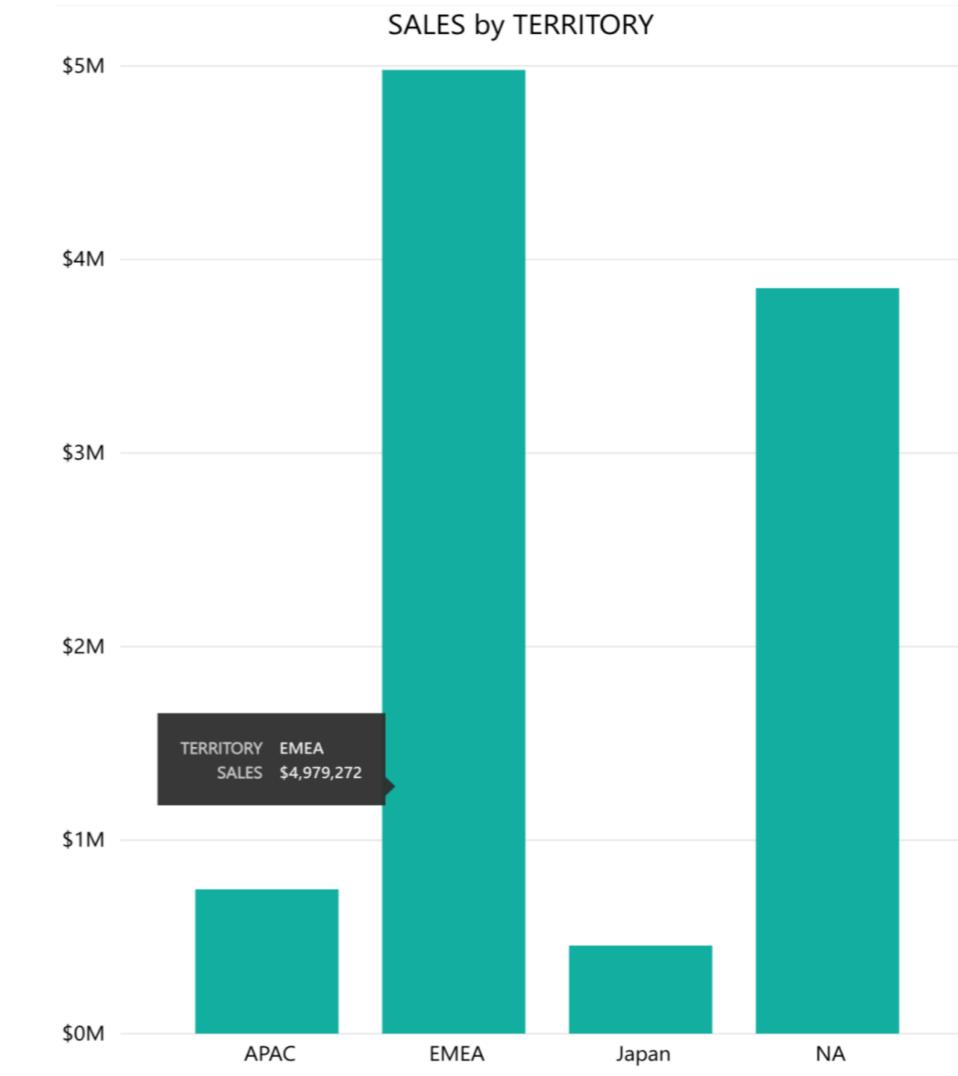
Bar chart

- Horizontal rectangles



Column chart

- Vertical rectangles



Column and bar charts

Stacked bar and column chart



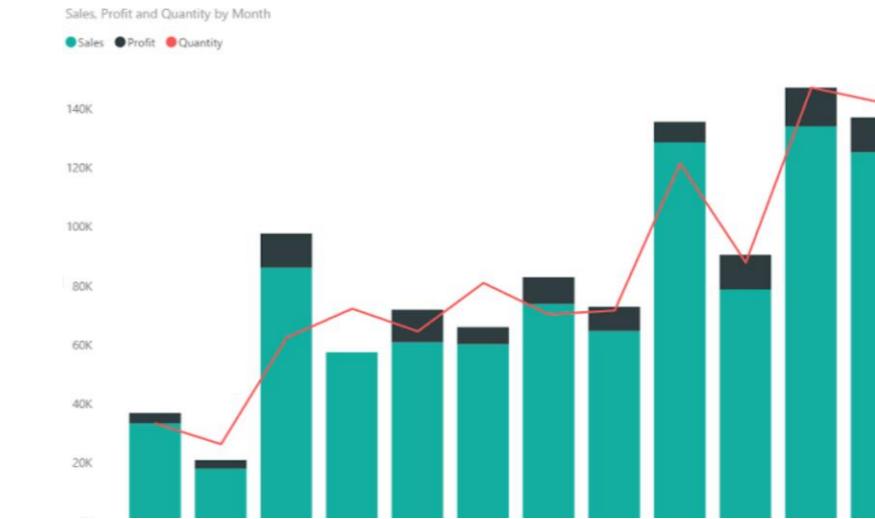
100%stacked bar and column chart



Clustered bar and column chart



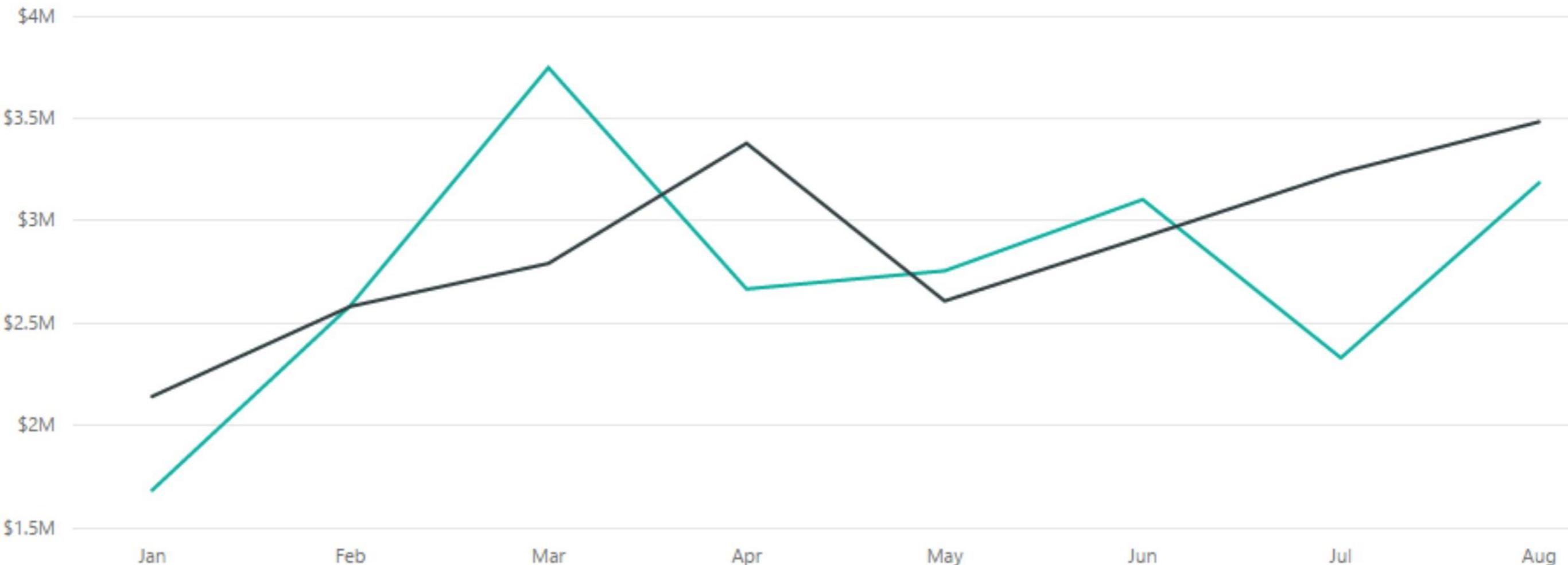
Combo chart



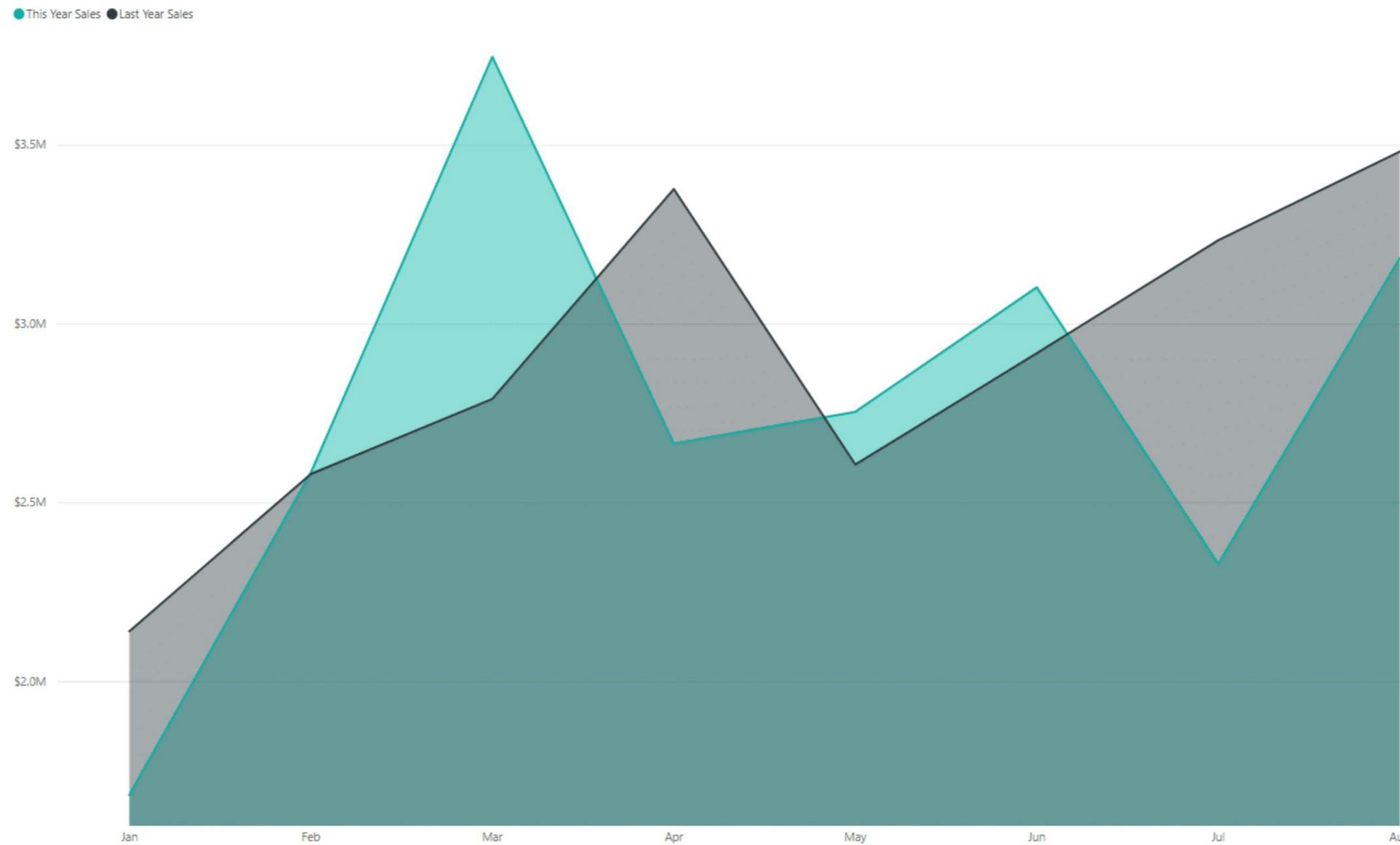
Line charts

This Year Sales and Last Year Sales by FiscalMonth

This Year Sales Last Year Sales

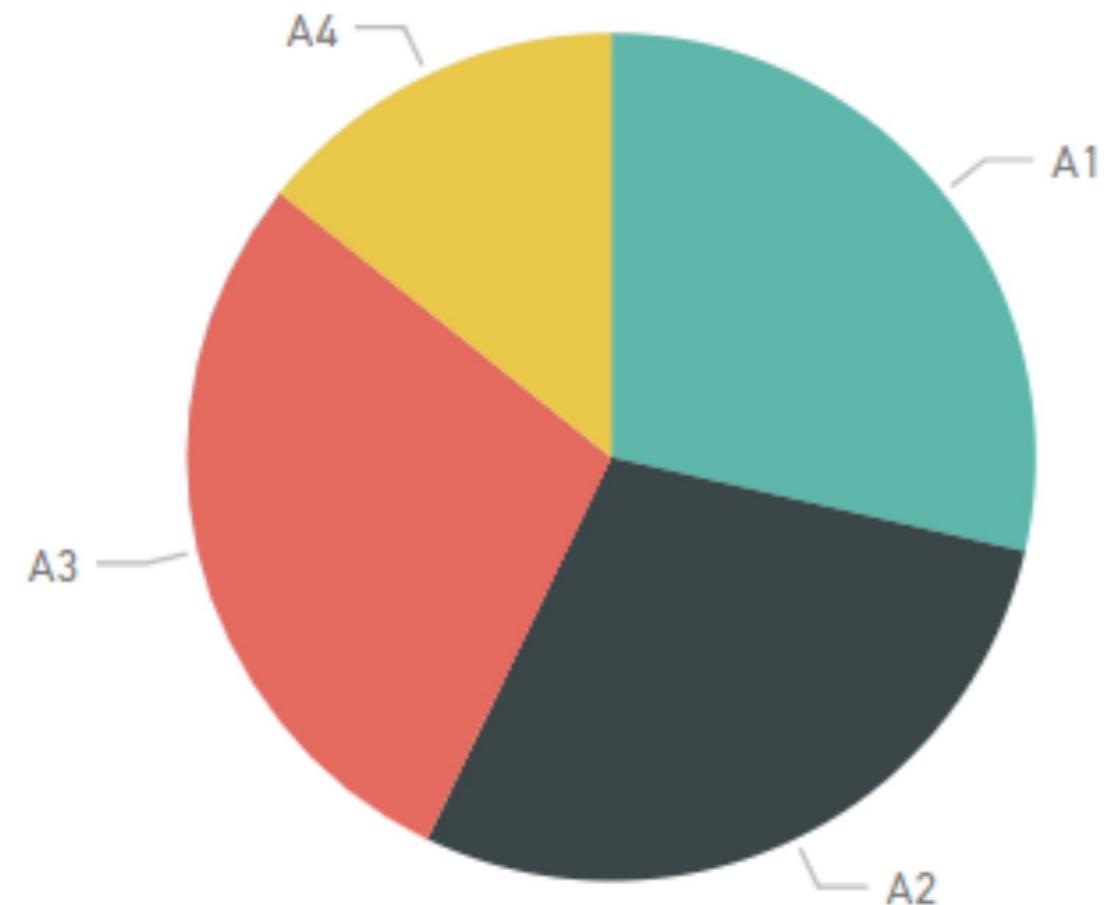


Area charts



Pie and donut charts

Pie chart

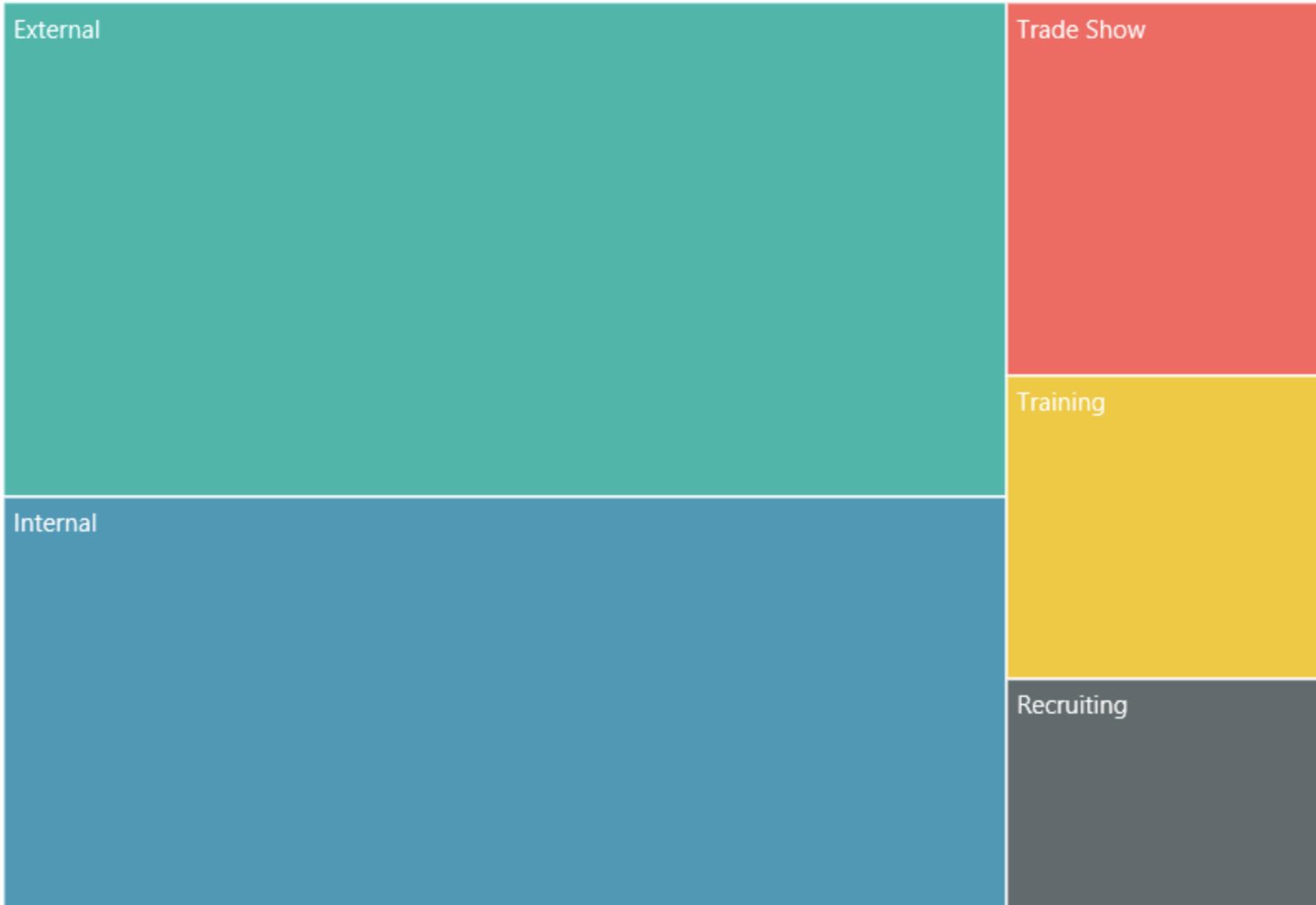


Donut chart



Tree maps

number of trips by Trip Purpose



Some other visualization types

Card

104
Open Store Count

Multi-row card

-\$366,891,365.00
Measure 4
-\$1,735.61
Measure 6

Gauge chart



KPI



Table and matrix

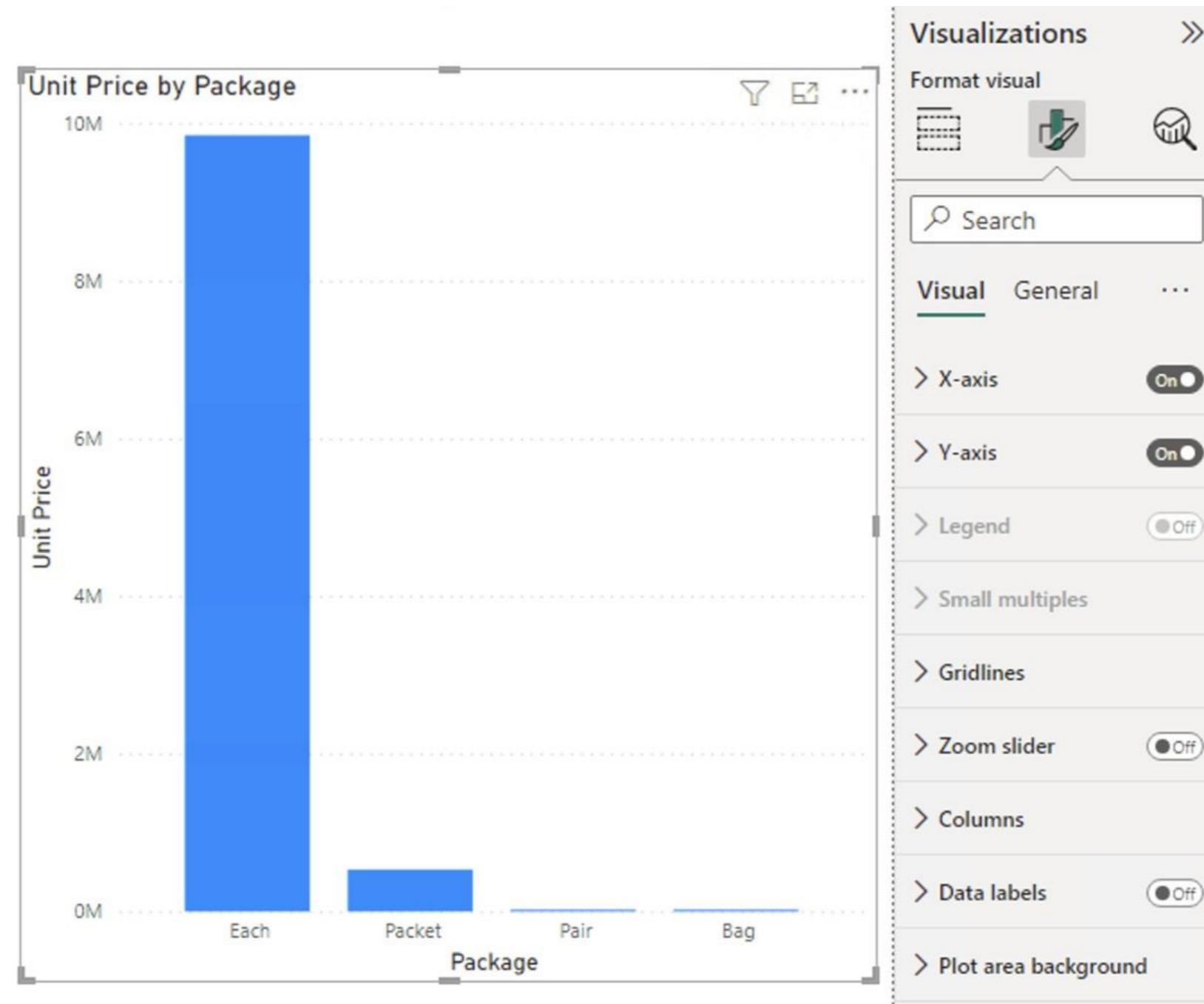
Table

Client	Component	Region	Average of Performance	Average of Reliability
Mobile	Page1 load	EMEA	353.00	99.52%
Mobile	Page1 load	NA	172.00	99.61%
Mobile	Page2 load	EMEA	329.00	99.76%
Mobile	Page2 load	NA	182.00	99.45%
Mobile	Page3 load	EMEA	323.00	98.50%
Mobile	Page3 load	NA	383.00	99.67%
Mobile	Page4 load	EMEA	390.00	99.42%
Mobile	Page4 load	NA	275.00	99.37%
Web	Page1 load	EMEA	201.00	98.08%
Web	Page1 load	NA	483.00	99.10%
Web	Page2 load	EMEA	276.00	99.40%
Web	Page2 load	NA	106.00	99.47%
Web	Page3 load	EMEA	148.00	99.69%
Web	Page3 load	NA	402.00	98.03%
Web	Page4 load	EMEA	203.00	99.03%
Web	Page4 load	NA	284.00	99.30%
Total			281.88	99.21%

Matrix

Component	Performance (ms)	Reliability (%)
Page1 load	262.50	99.57%
Mobile	262.50	99.57%
EMEA	353.00	99.52%
NA	172.00	99.61%
Total	262.50	99.57%

Editing visualizations



Contoso data warehouse dataset



Contoso data warehouse dataset

- Snowflake schema
- **Fact Table:**
 - FactStrategyPlan
- **Dimension Tables:**
 - DimAccount
 - DimDate
 - DimEntity
 - DimProductCategory
 - DimScenario

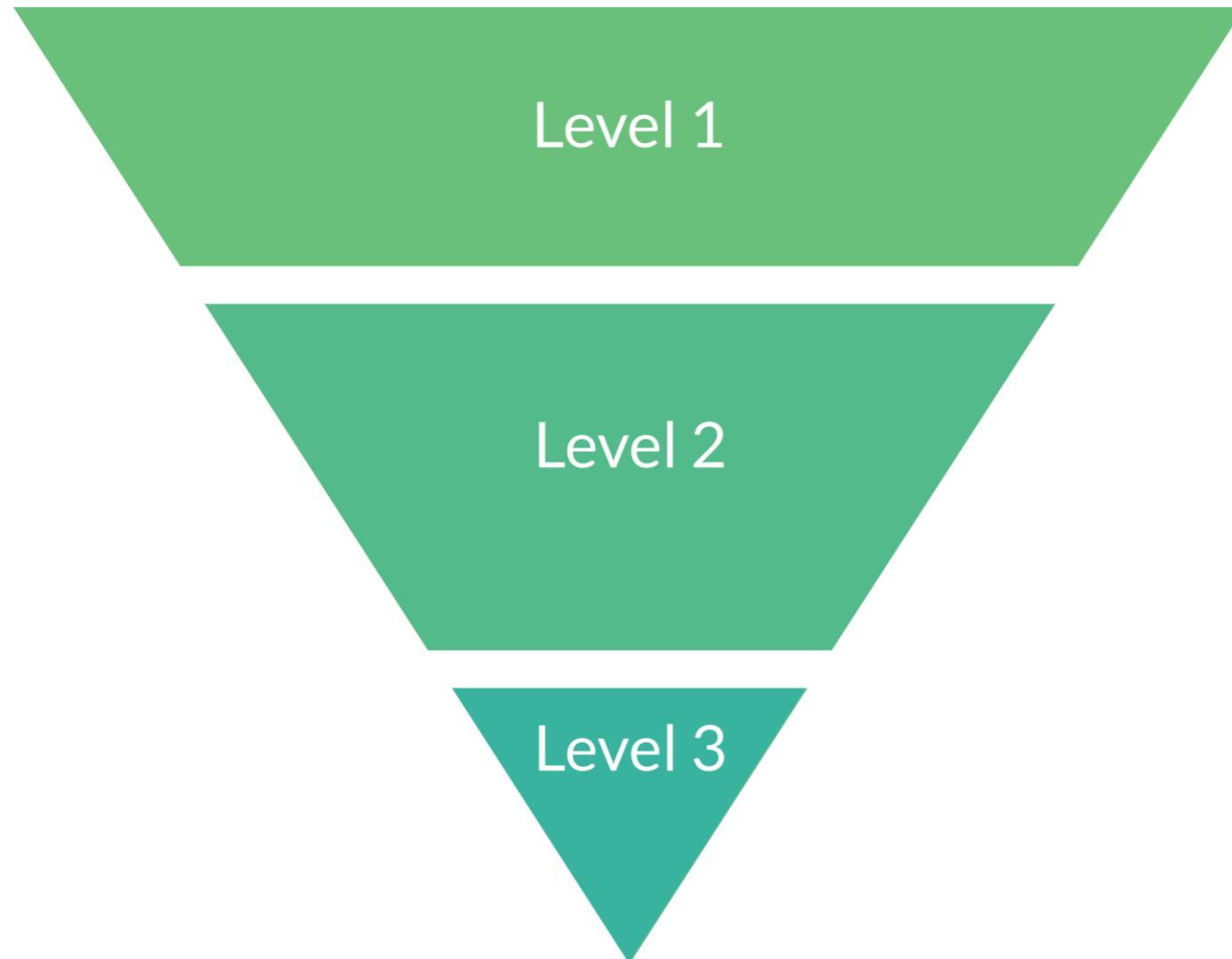
DEMO

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4. Driling down and filtering

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Drilling down



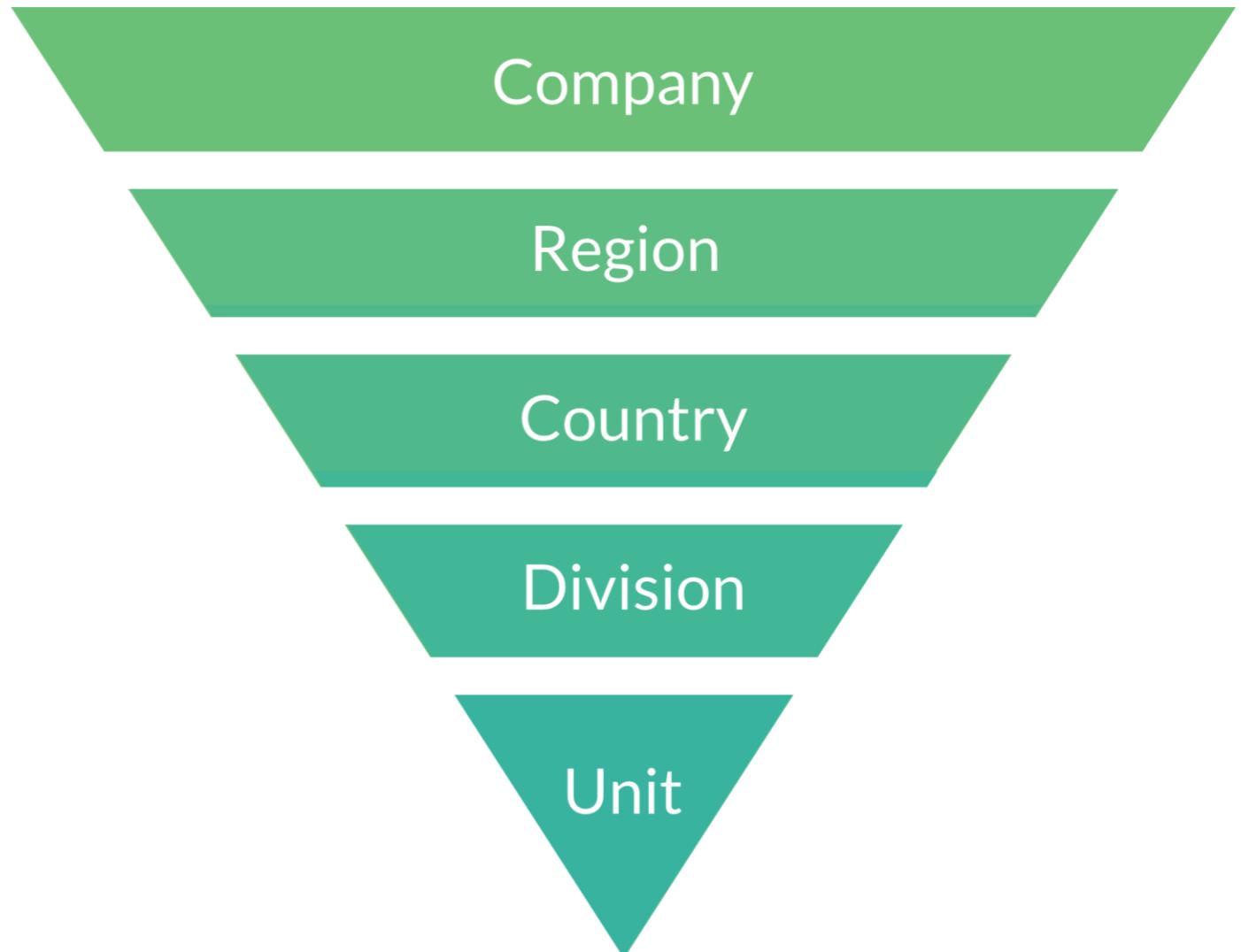
- Show data at a high level
- Option to show a more detailed level

Hierarchies

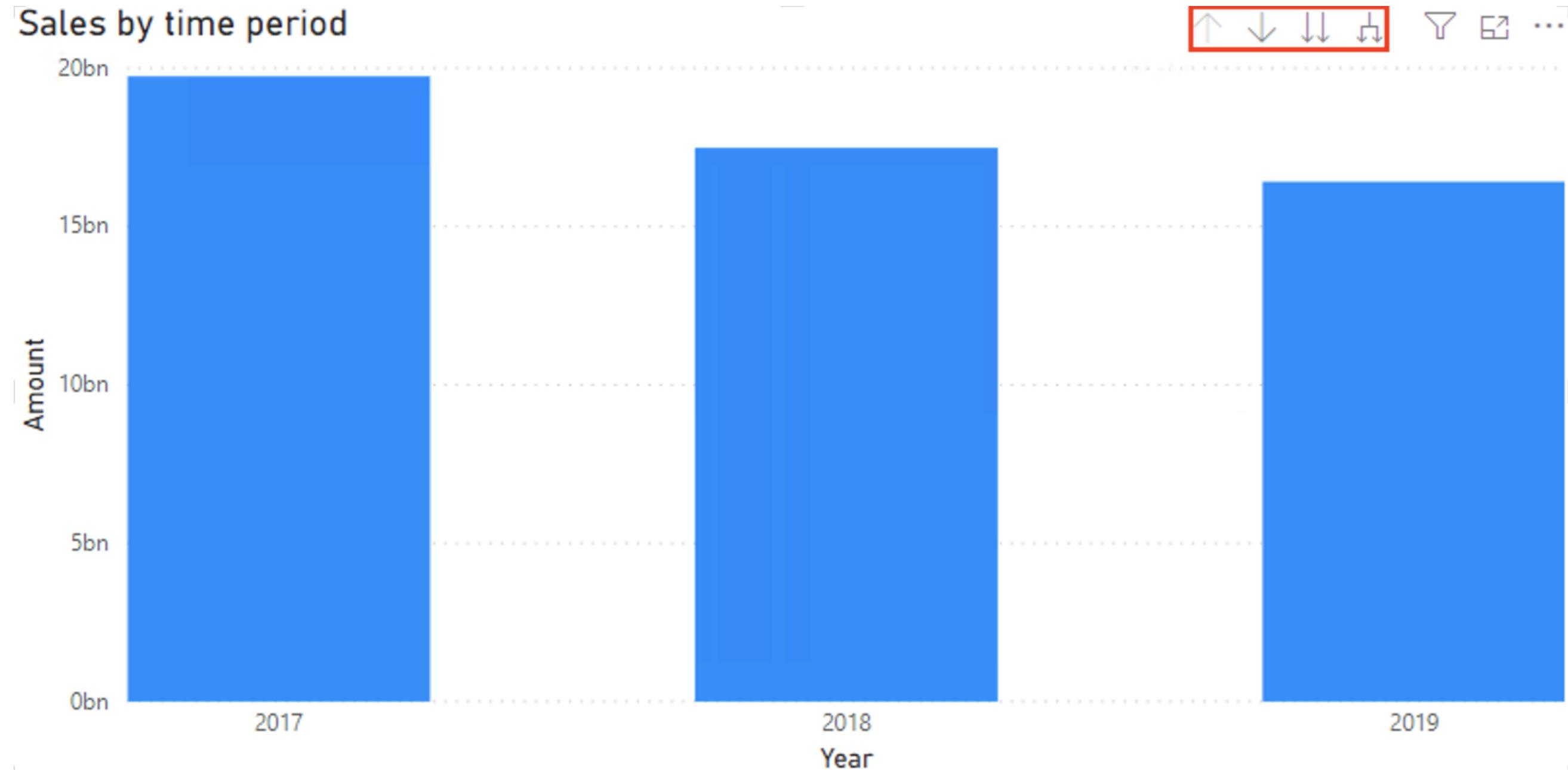
Example 1



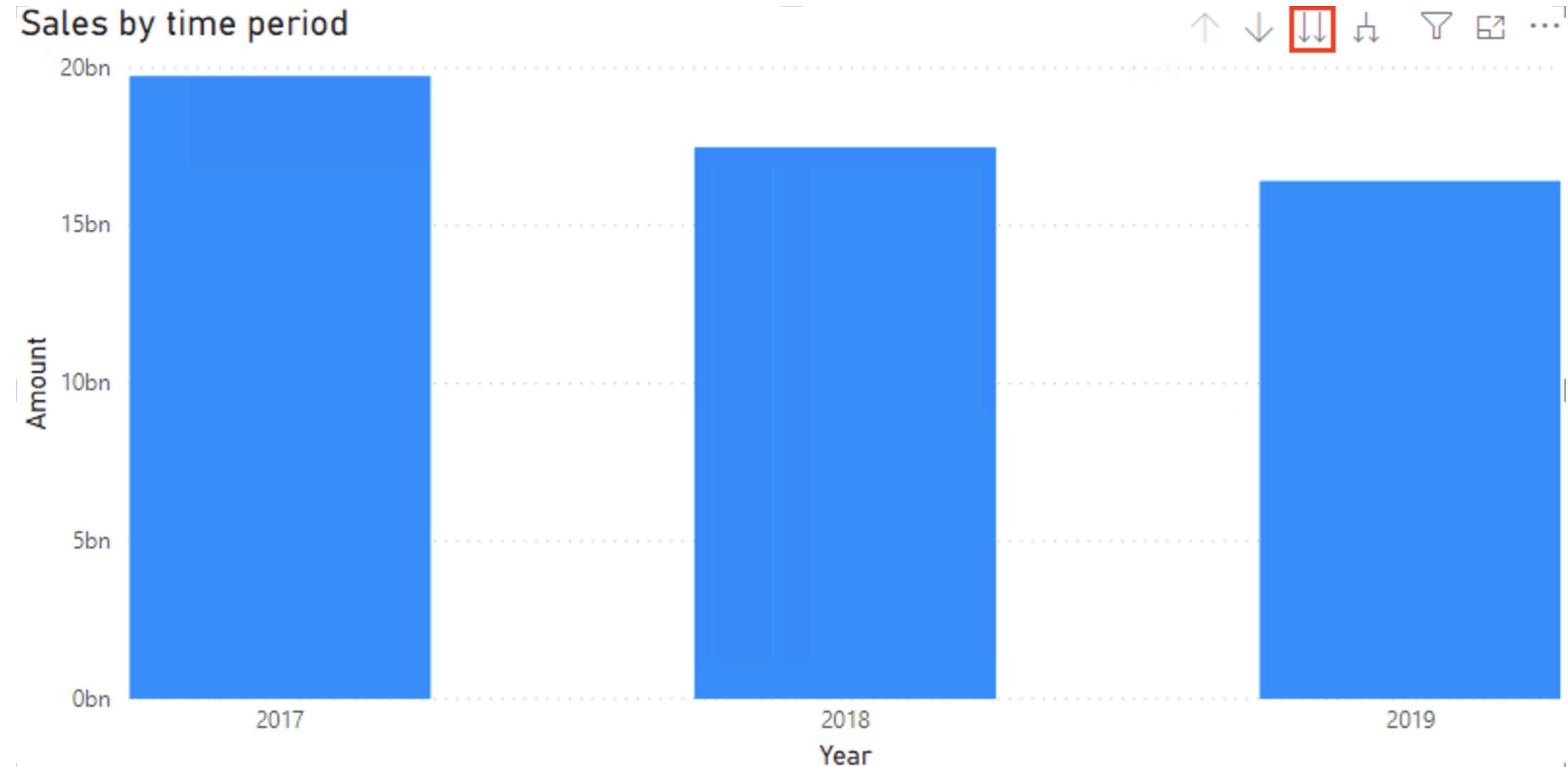
Example 2



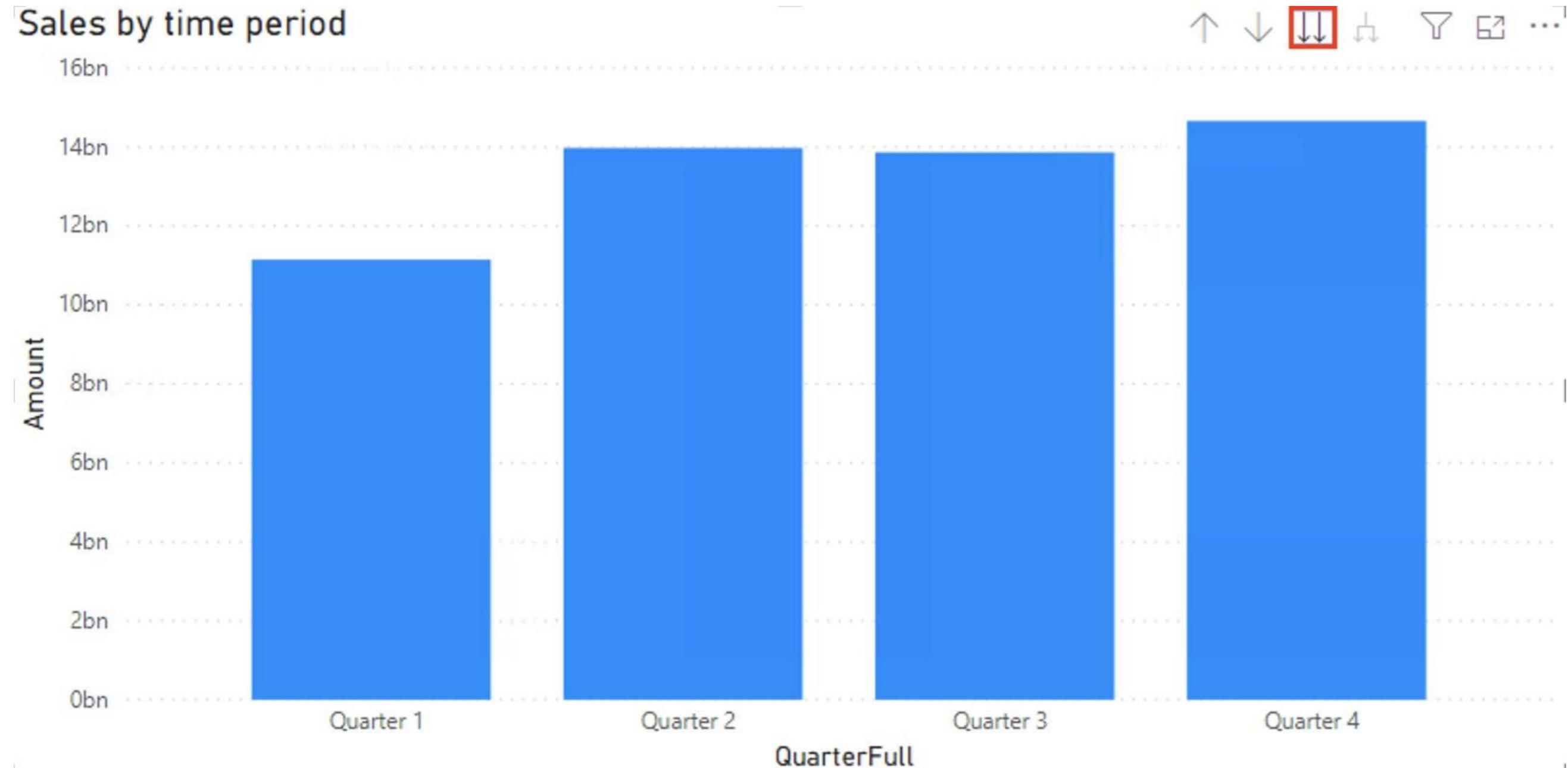
Drilling down on a visual



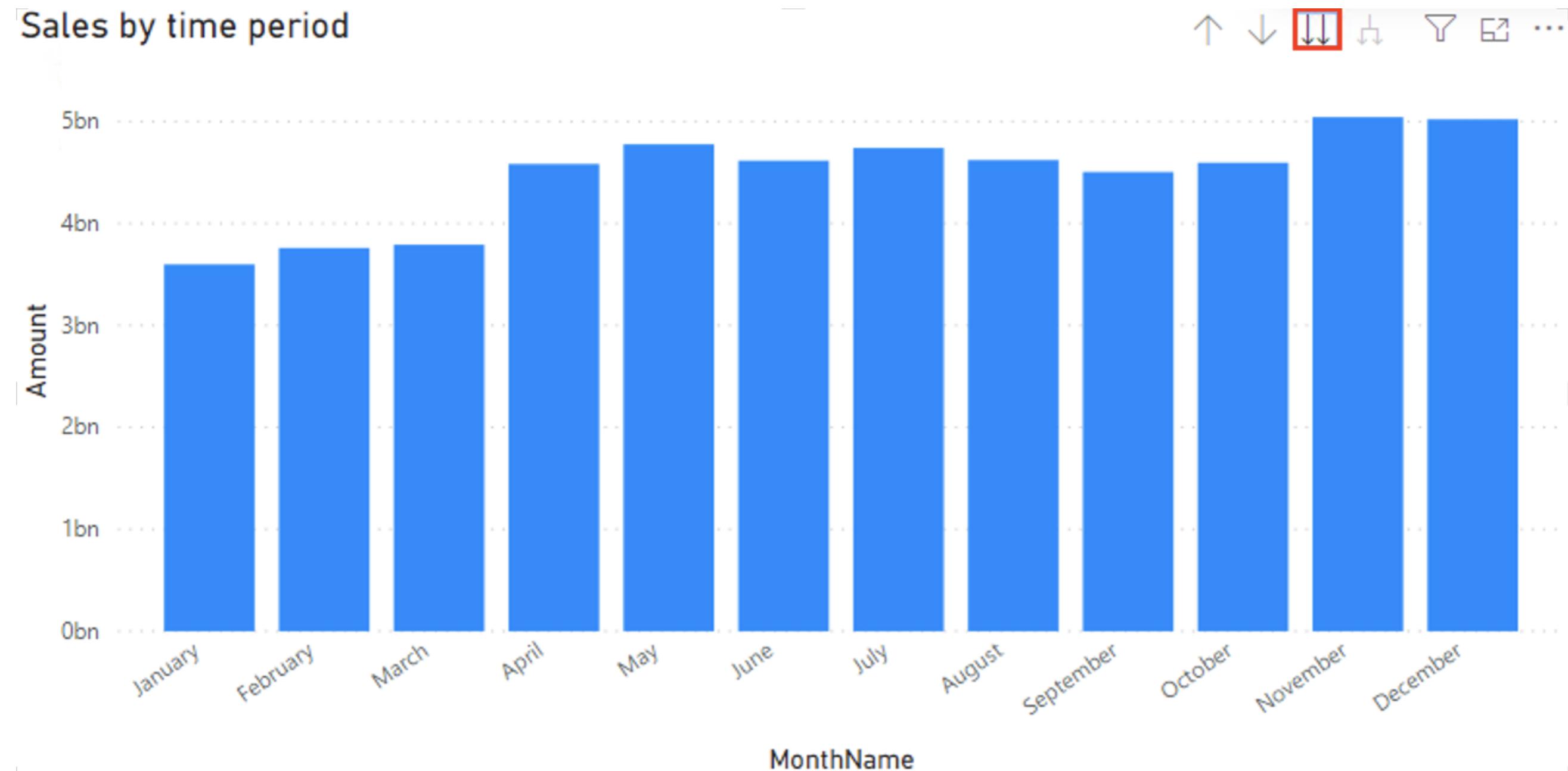
Drill down all fields at once



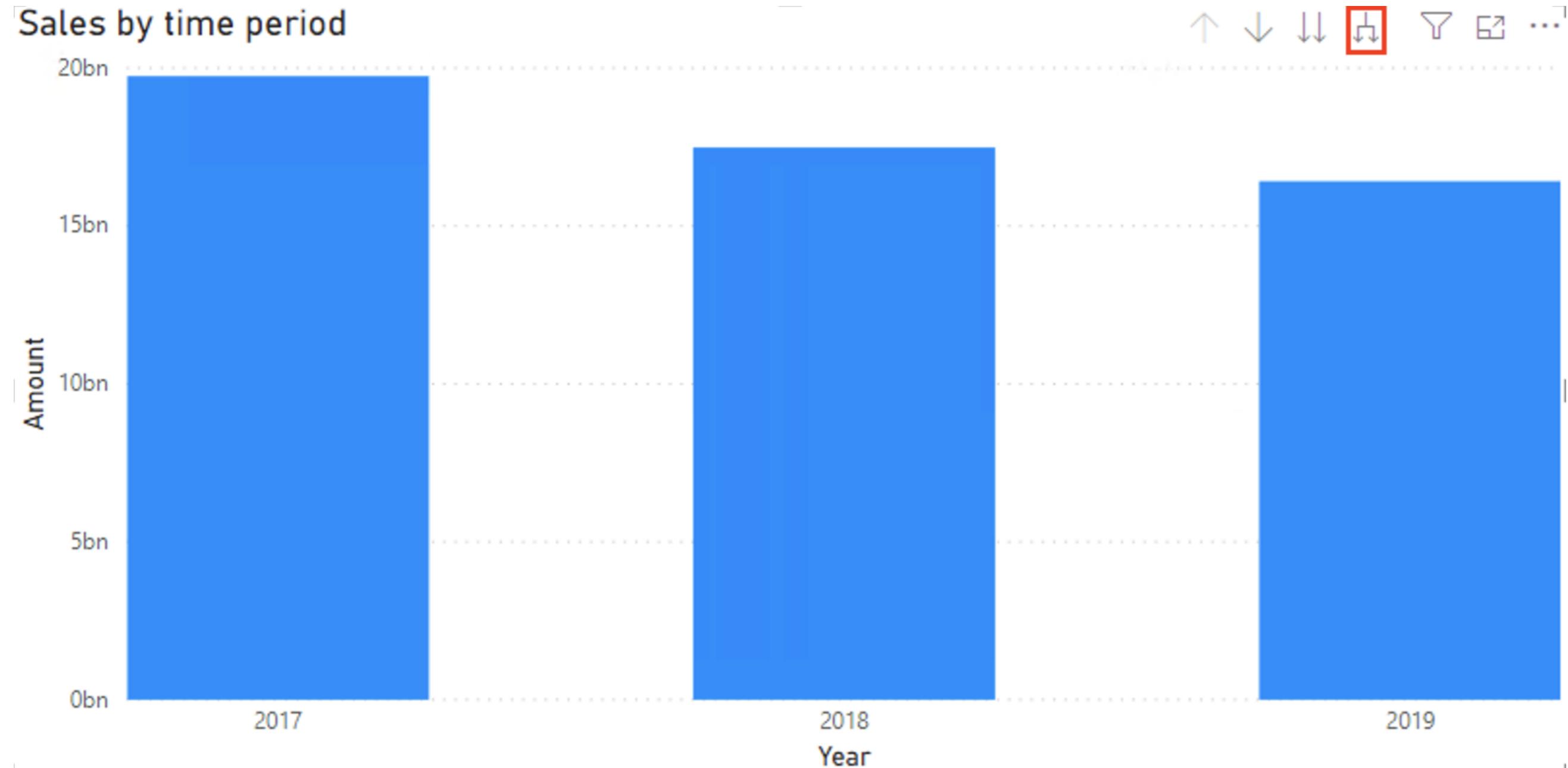
Drill down all fields at once



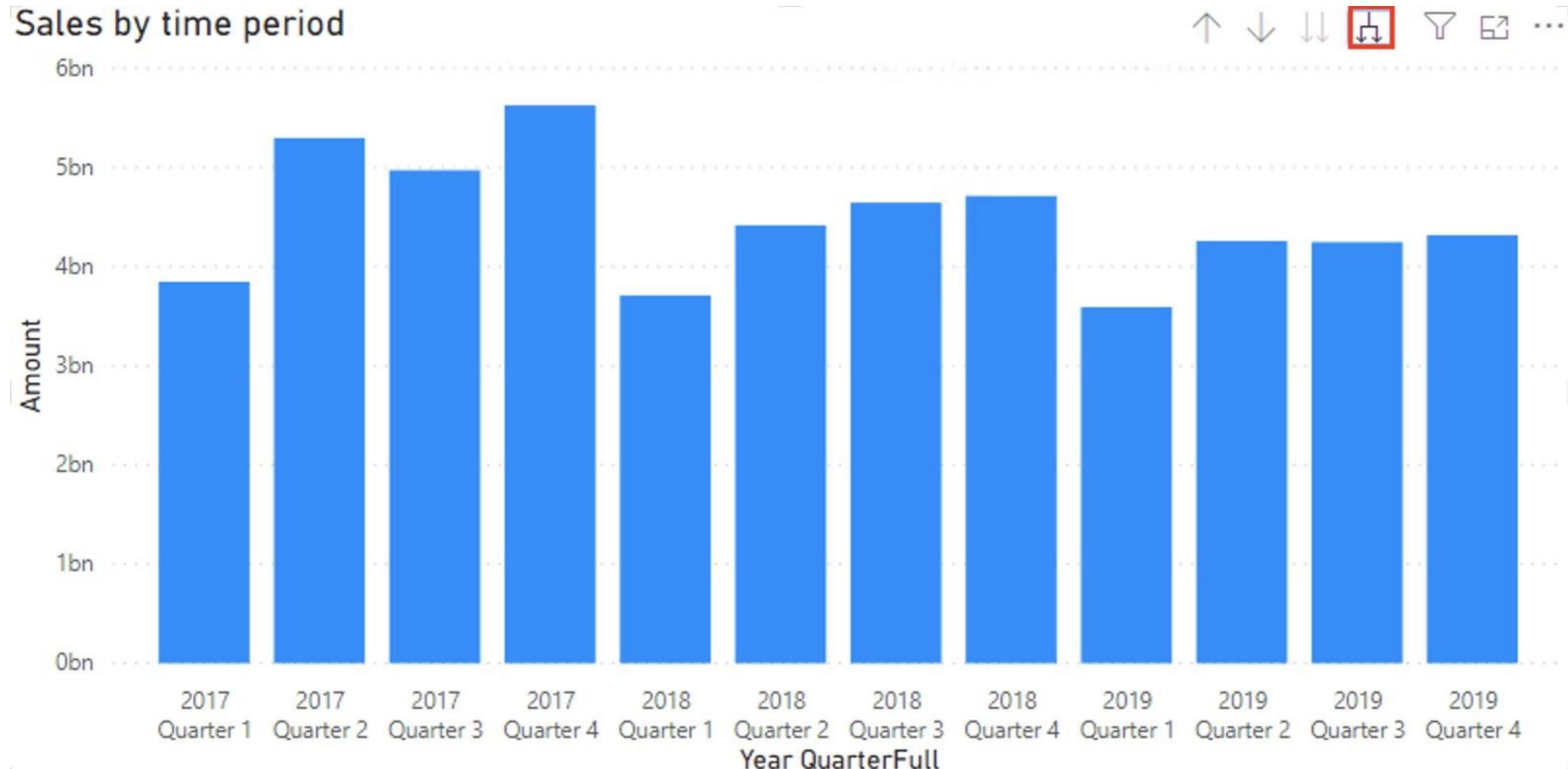
Drill down all fields at once



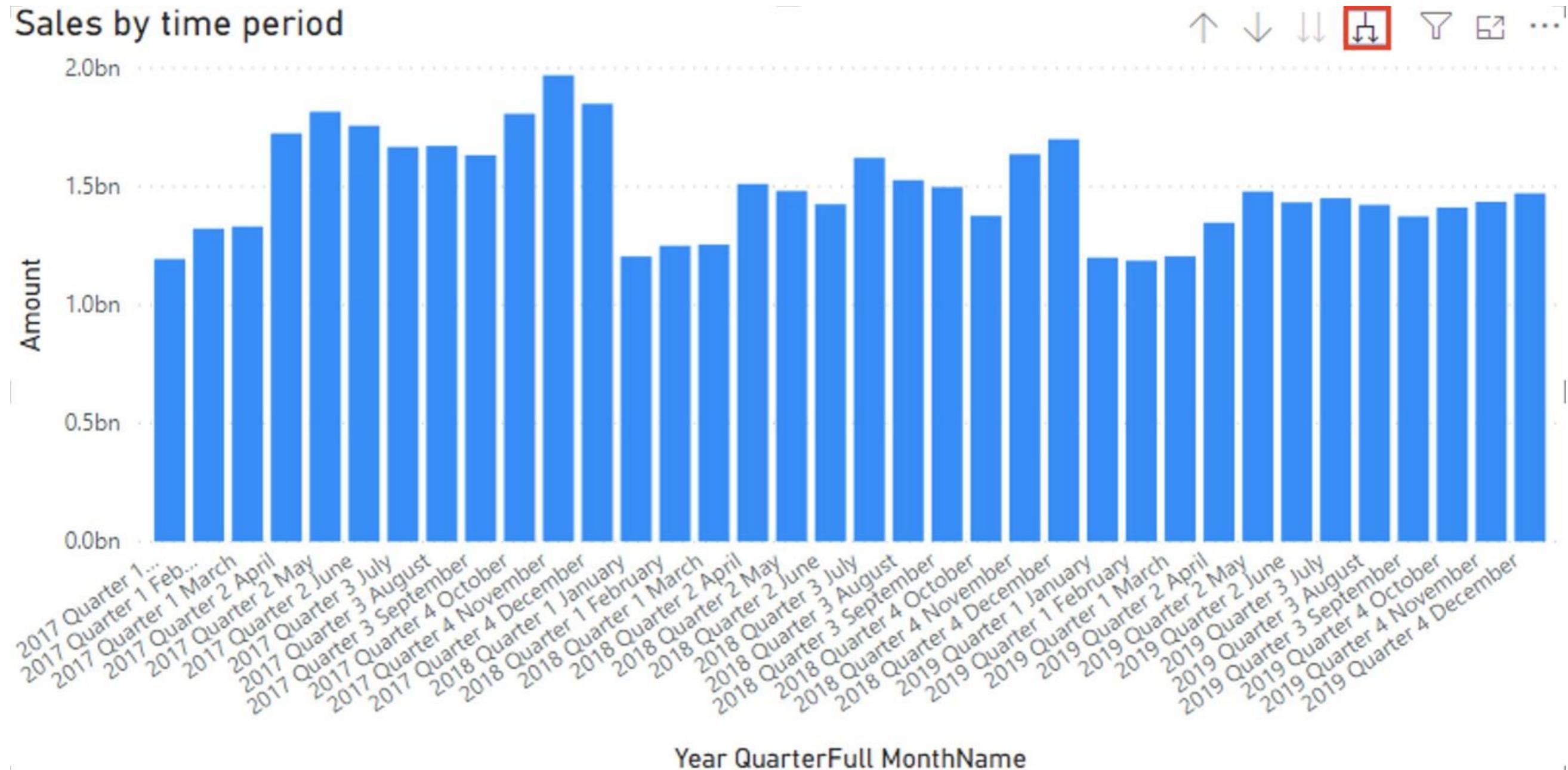
Expand all fields at once



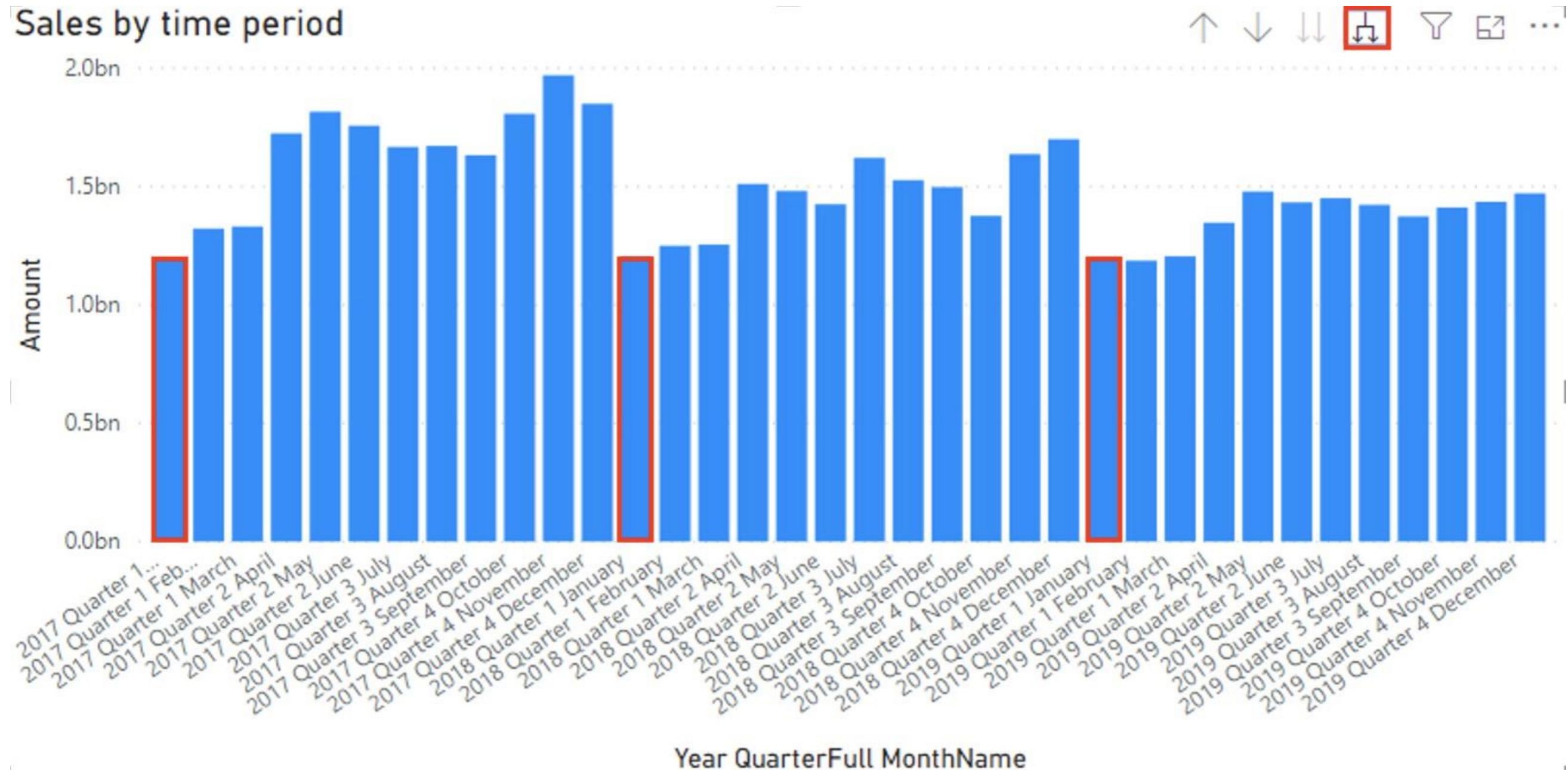
Expand all fields at once



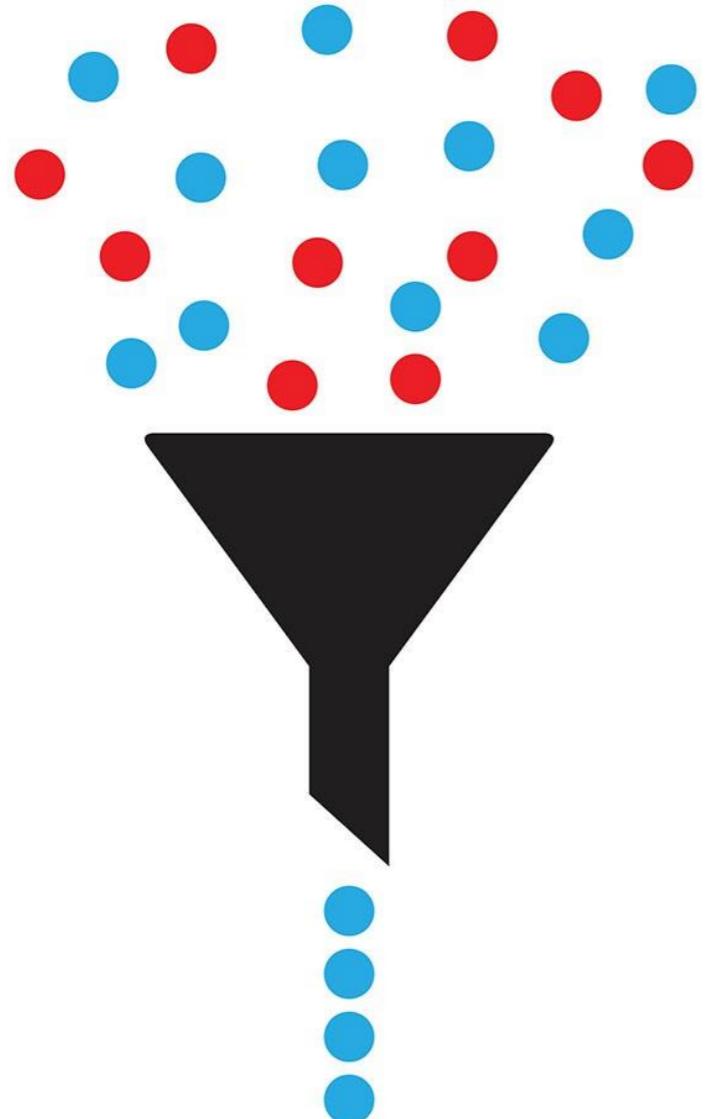
Expand all fields at once



Expand all fields at once



Filtering



- Display data based on some selected criteria
- Examples:
 - Filter on one year or one customer
 - Show the top 5 regions
- Types of filters in Power BI:
 - Visual-level filters
 - Page-level filters
 - Report-level filters

Turning off filtering

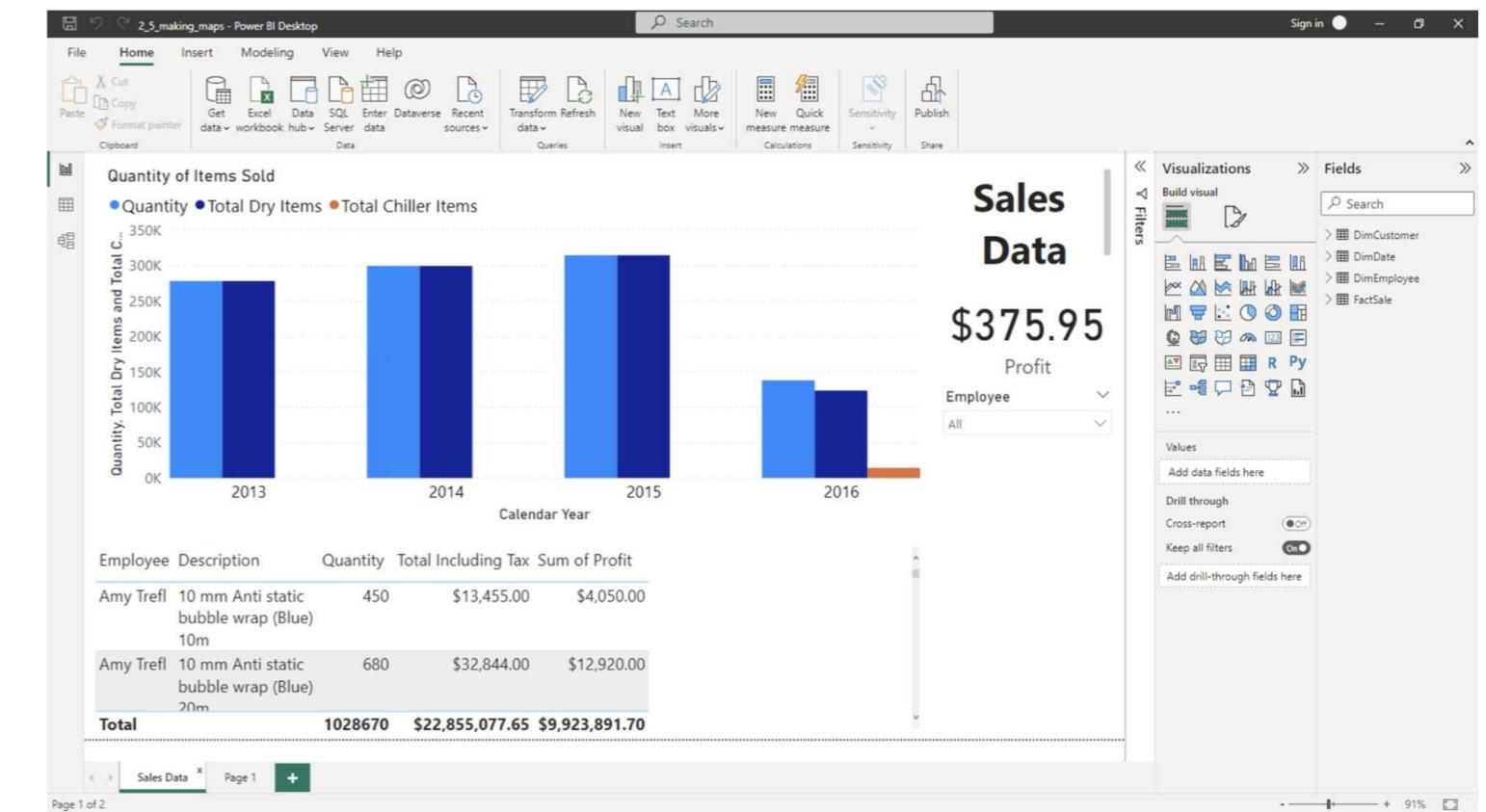
- Don't allow the end-user of your report to change the filters
- In Power BI: turning off interactions
 - Visual will not change when another field is selected

DEMO

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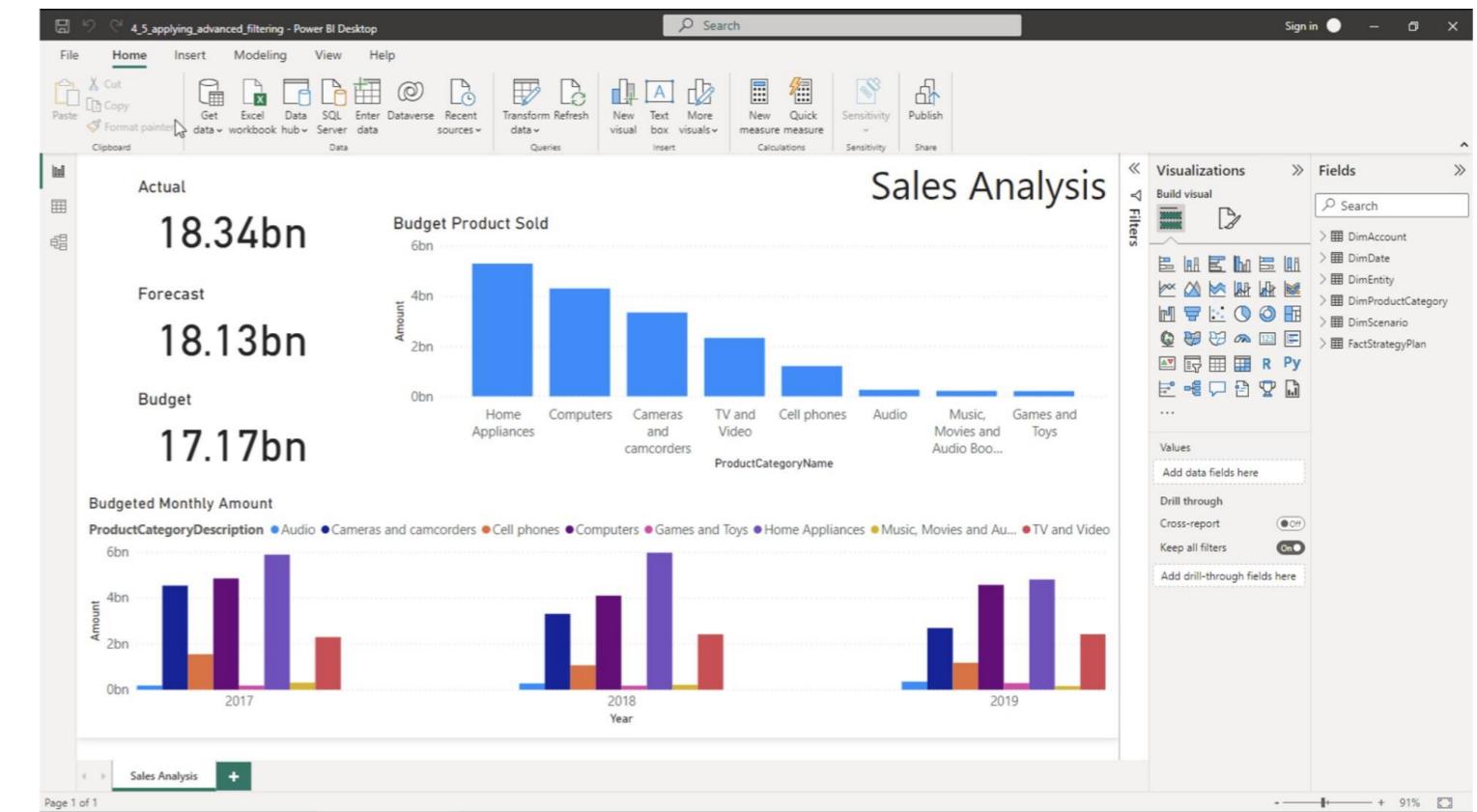
Getting Started with Power BI

- Data, Model, and Report view
- Loading multiple datasets
- Building a data model
- First interactive report
- Power Query Editor



Visualizing data

- Different types of visualization
- Hierarchies
- Drill-down paths
- Sorting
- Filtering
- Controlling interactivity



Congratulations!

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