

# Introduction to Power BI

INTRODUCTION TO POWER BI

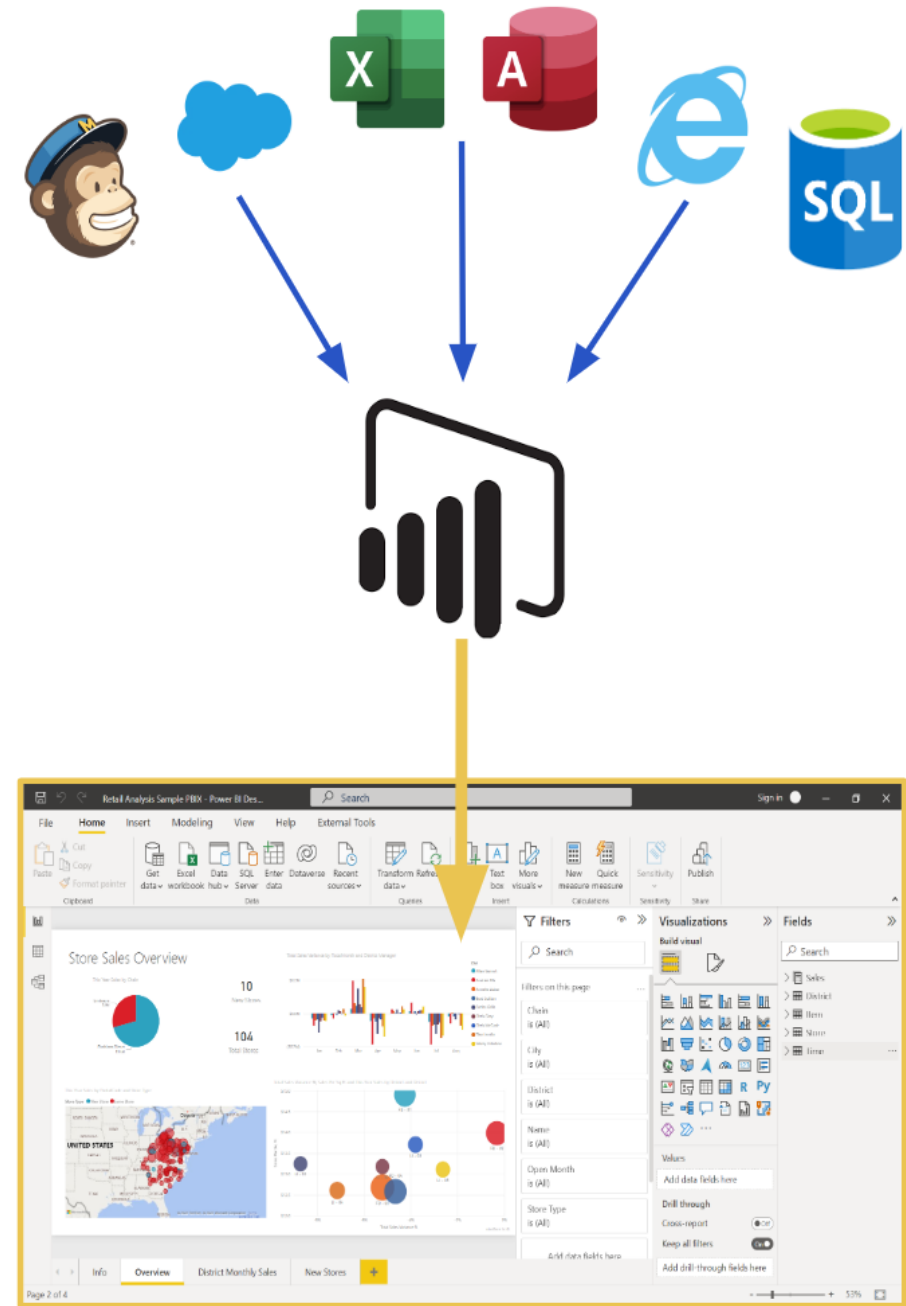


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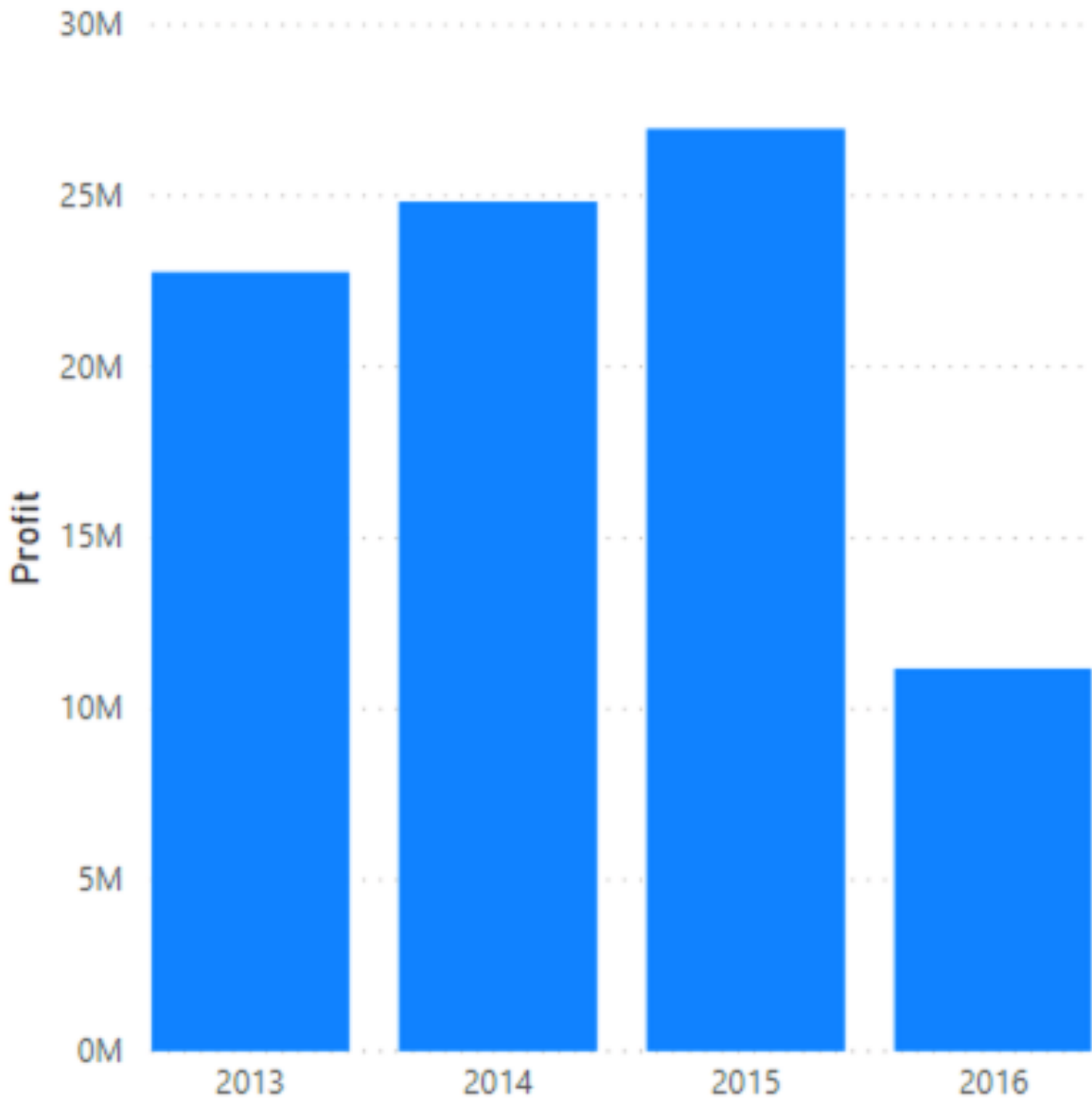
# What is Power BI?

- Connect to data
- Clean and structure data
- Create visualizations
- Share findings



# Data Visualization in Power BI

Yearly Profit

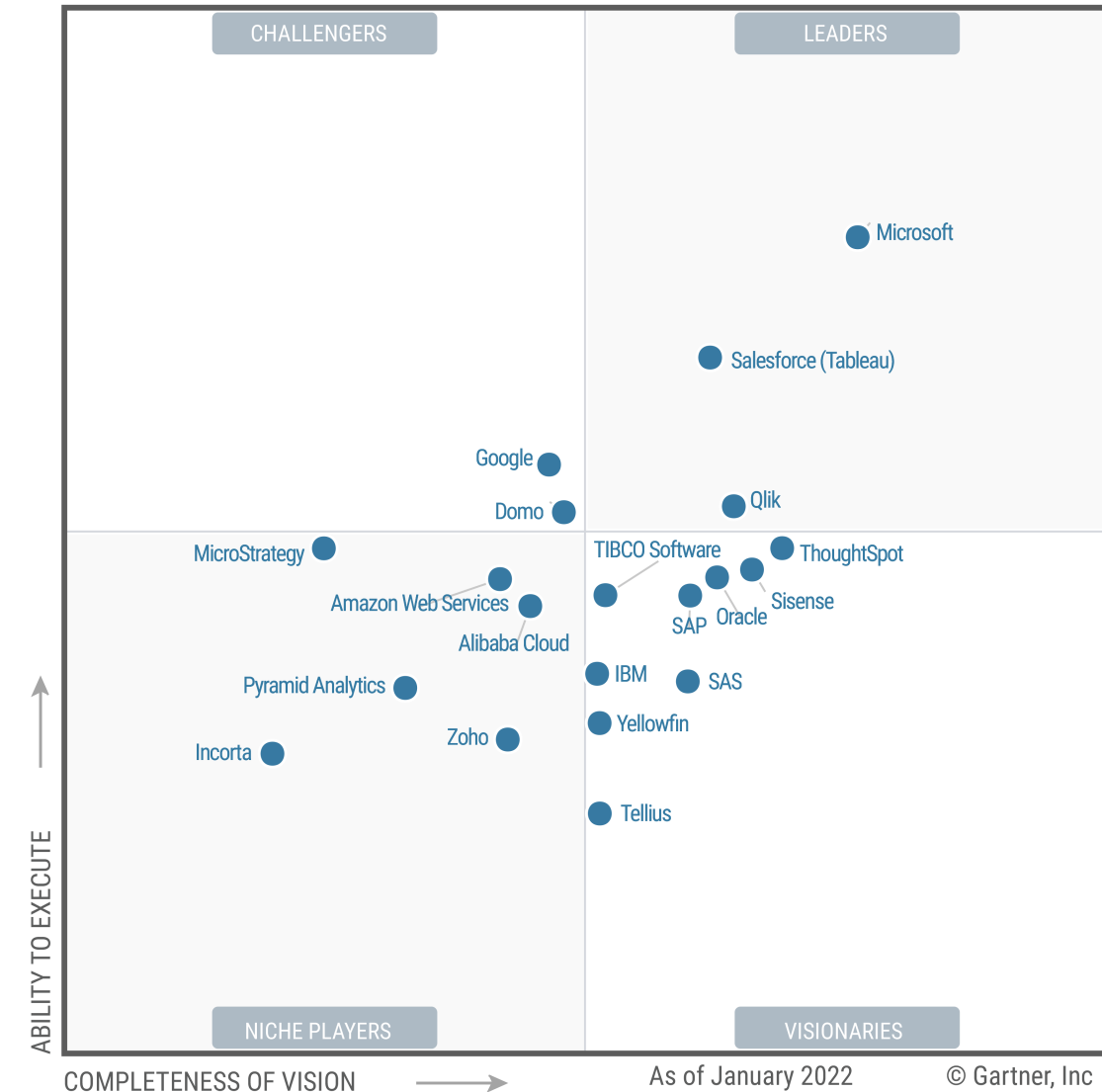


Total Excluding Tax	Tax Amount	Profit	Total Including Tax
129	19.35	67.5	148.35
258	38.7	135	296.7
301	45.15	157.5	346.15
172	25.8	90	197.8
86	12.9	45	98.9
387	58.05	202.5	445.05
387	58.05	202.5	445.05
387	58.05	202.5	445.05
344	51.6	180	395.6
344	51.6	180	395.6
344	51.6	180	395.6
344	51.6	180	395.6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

- Leading BI tool according to Gartner
- Over 97% of Fortune 500 companies use Power BI
- Over 6 million customers
- Mastering Power BI can advance your career

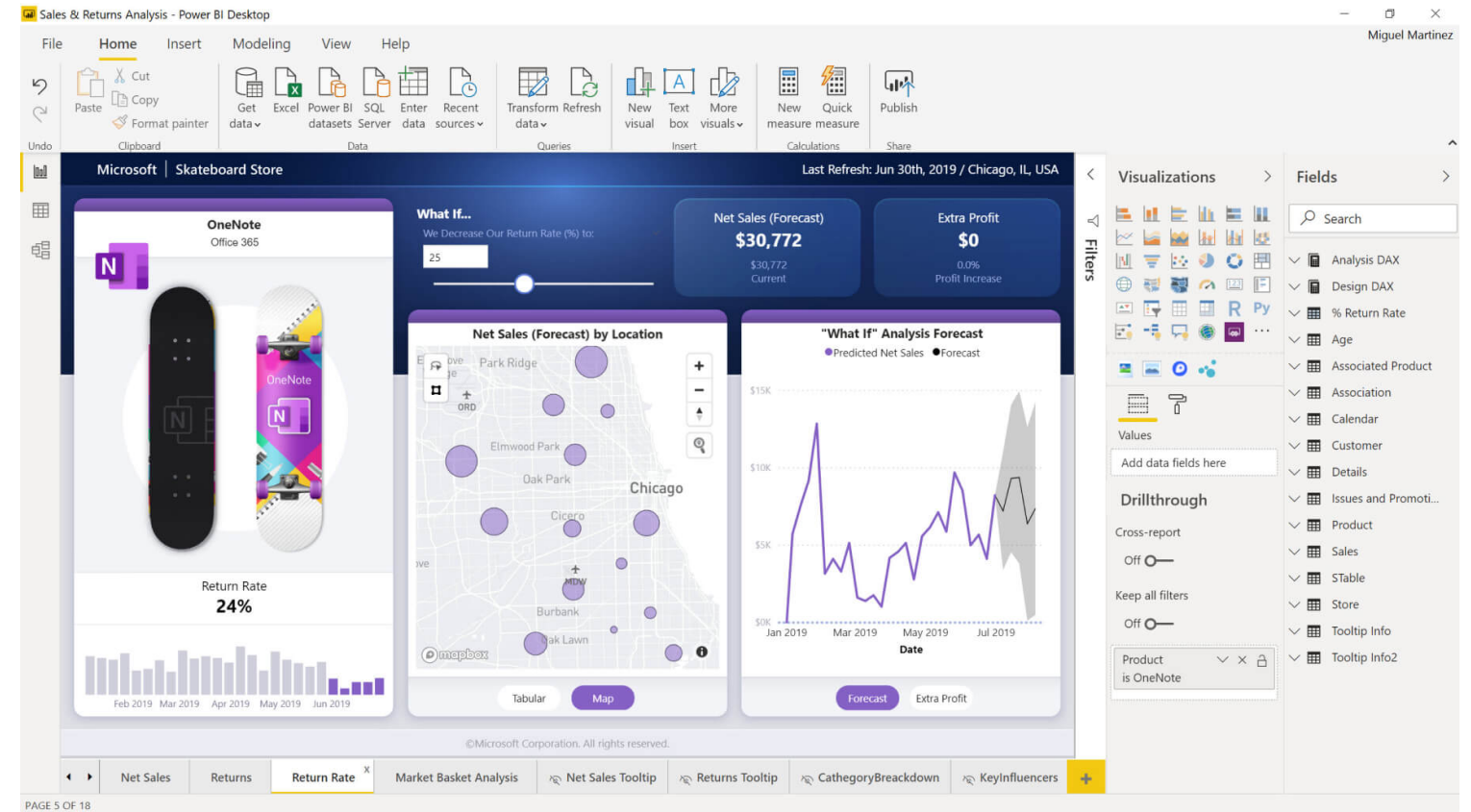
Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms



Source: Gartner (March 2022)

# Power BI Desktop

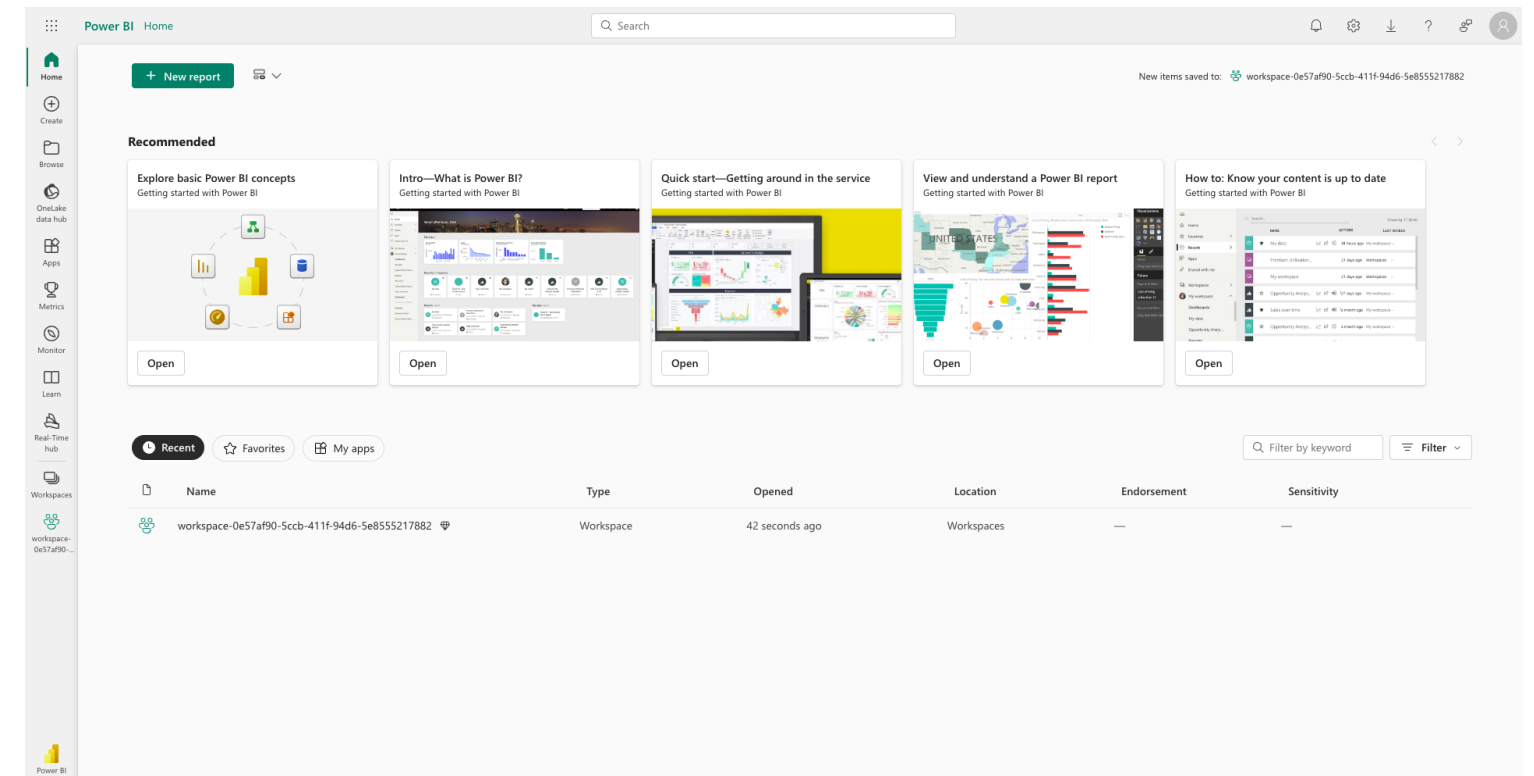
- Data analysis and report creation tool
- Includes the Power Query Editor
- 100% free
- Paid licenses available:
  - Power BI Pro
- Publish and share material on cloud platform
- Collaborate with other Power BI users



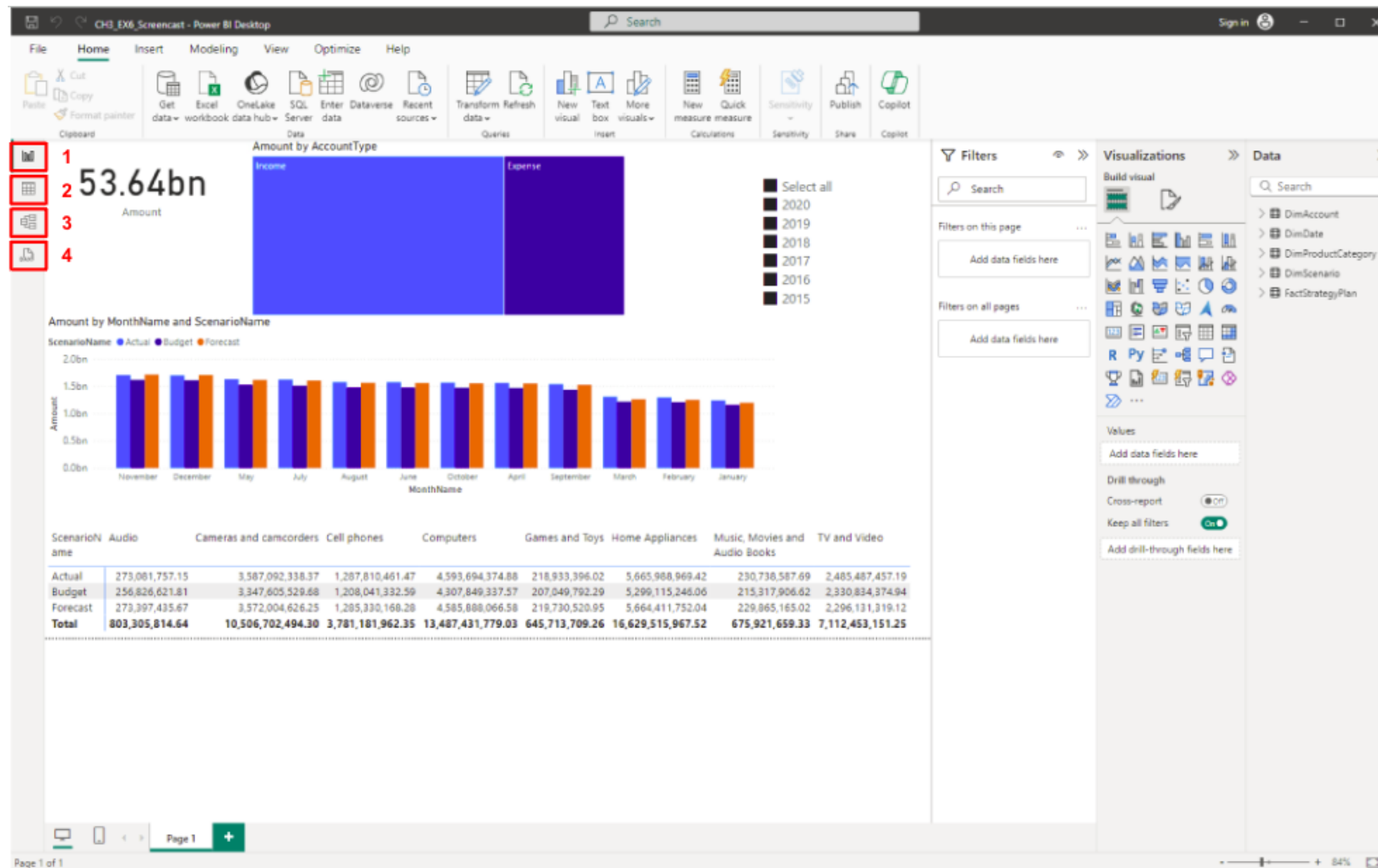
<sup>1</sup> <https://powerbi.microsoft.com/en-cy/desktop/>

# Power BI Service

- Cloud-based version
- License required to access all features
- Share and distribute reports



# Power BI Interface - Four views



# Power BI Interface - Four views

The screenshot displays the Power BI Desktop interface with four views highlighted on the left-hand pane:

- Report View**: The main workspace showing a bar chart titled "Amount by MonthName and ScenarioName" and a table titled "Amount by AccountType".
- Table View**: A view that displays data in a table format.
- Model View**: A view that displays the data model structure.
- DAX Query Editor**: A view for writing and editing DAX queries.

The main workspace shows a report with the following visualizations:

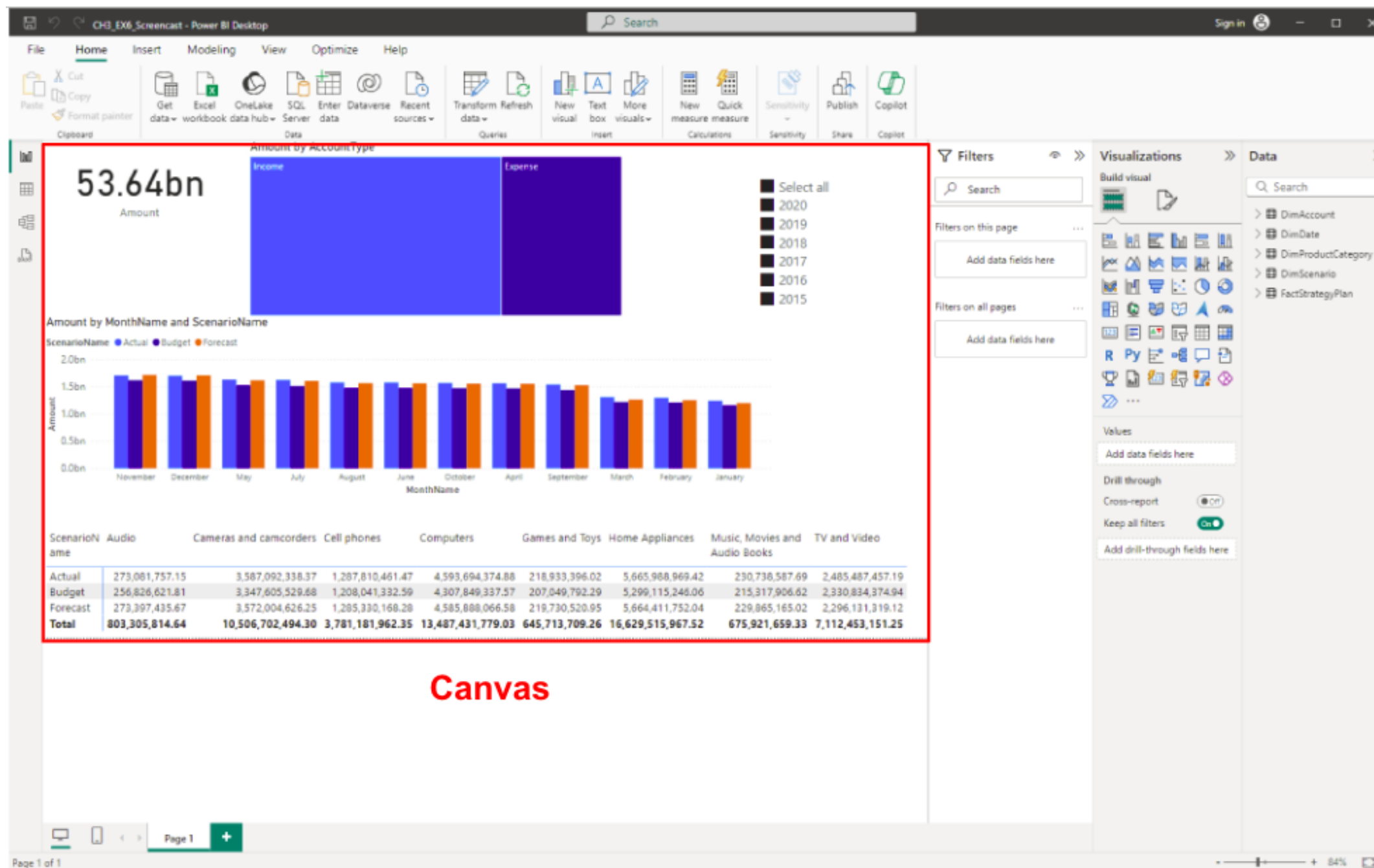
- Amount by AccountType**: A bar chart showing Income and Expense.
- Amount by MonthName and ScenarioName**: A bar chart showing Actual, Budget, and Forecast scenarios across months.
- Amount by AccountType**: A table showing data for various account types.

The right-hand pane shows the Filters, Visualizations, and Data sections.

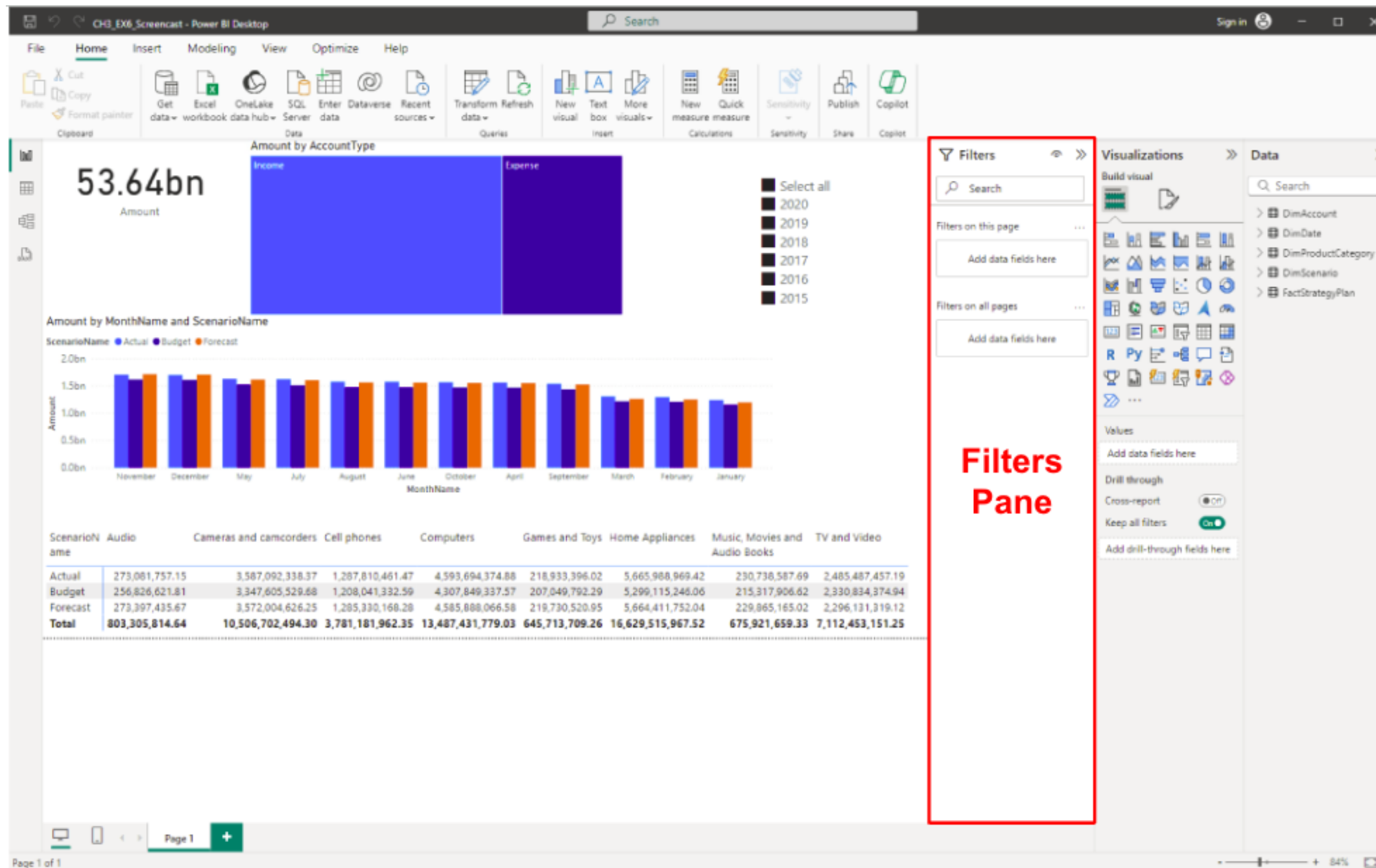
ScenarioName	Audio	Cameras and camcorders	Cell phones	Computers	Games and Toys	Home Appliances	Music, Movies and Audio Books	TV and Video
Actual	273,081,757.15	3,587,092,338.37	1,267,810,461.47	4,593,694,374.88	218,933,396.02	5,665,988,969.42	230,738,587.69	2,485,487,457.19
Budget	256,826,621.81	3,347,605,529.88	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
<b>Total</b>	<b>803,305,814.64</b>	<b>10,506,702,494.30</b>	<b>3,781,181,962.35</b>	<b>13,487,431,779.03</b>	<b>645,713,709.26</b>	<b>16,629,515,967.52</b>	<b>675,921,659.33</b>	<b>7,112,453,151.25</b>



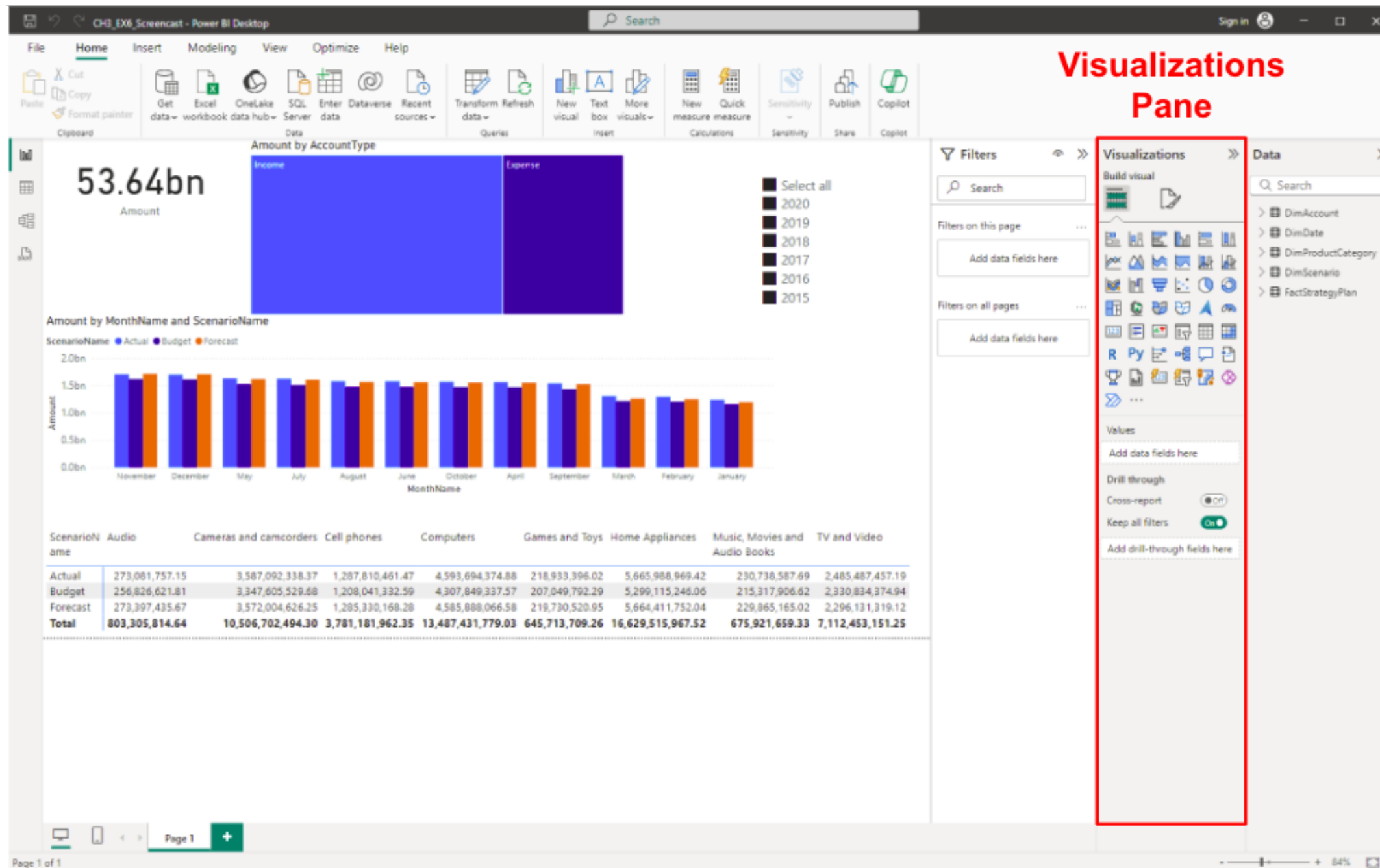
# Power BI Interface - Canvas area



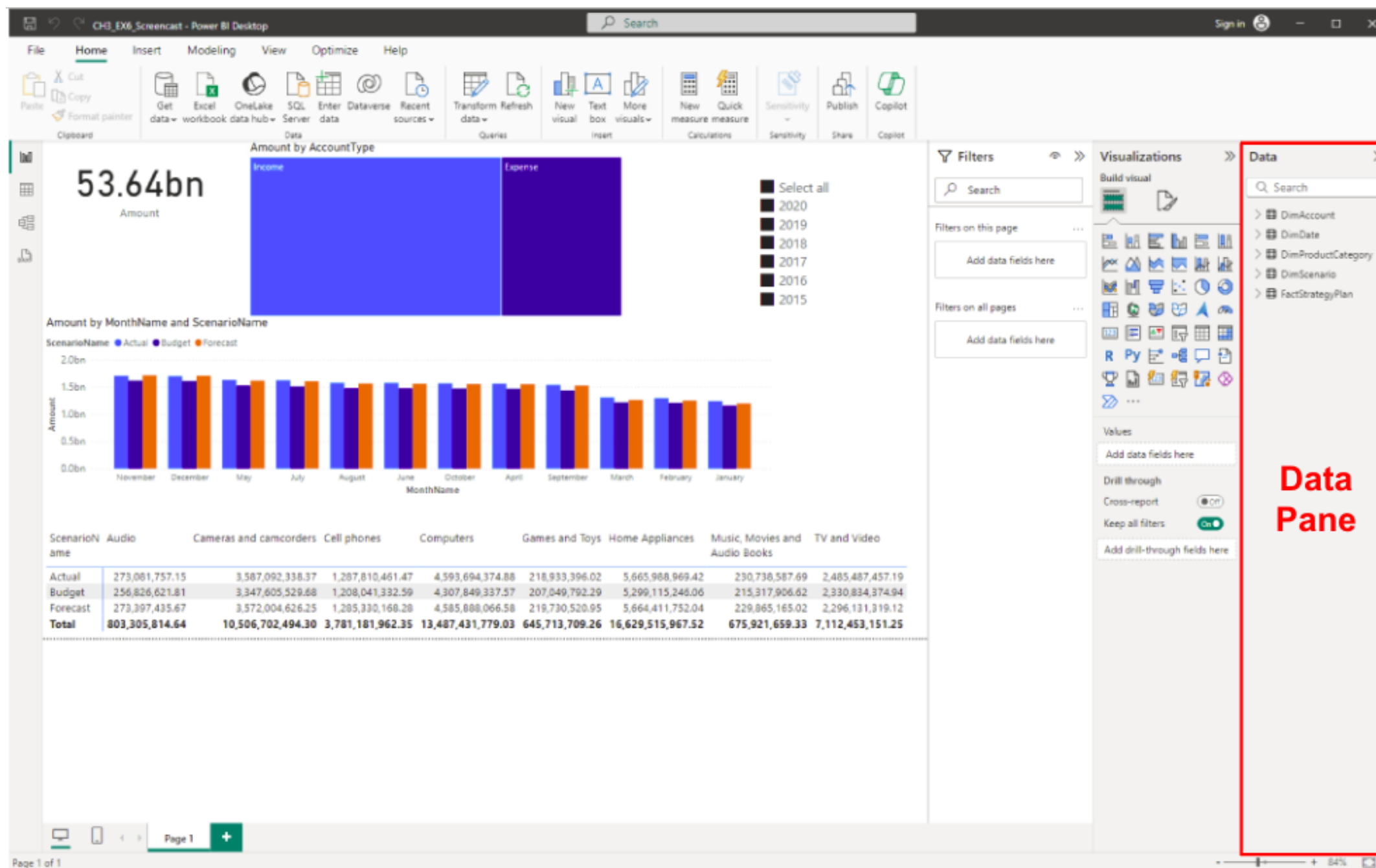
# Power BI Interface - Filters pane



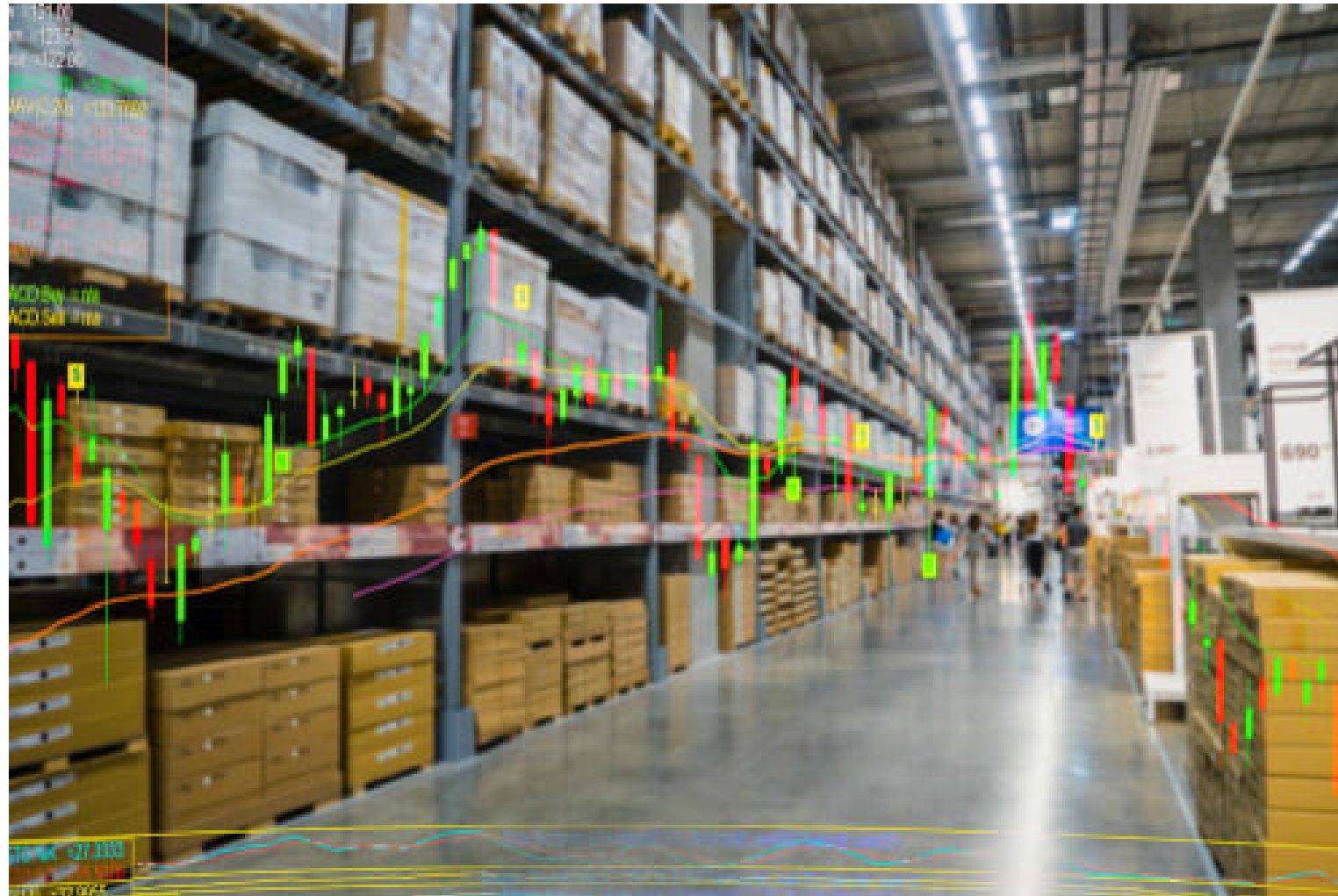
# Power BI Interface - Visualizations pane



# Power BI Interface - Data pane



# Wide World Importers (WWI) dataset



- **NOTE:** All datasets used in the course can be found [here](#) and on the course overview page.
  - This includes demo video files



# Wide World Importers (WWI) dataset

- Sales information (fact table):
  - `FactSales.csv`
- Further transaction details (dimension tables):
  - `DimCustomer.csv`
  - `DimEmployee.xlsx`
  - `DimStockItem.csv`
  - `DimDate.csv`
  - `DimCity.csv`



# Let's practice!

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# Getting started!

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# Let's practice!

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# Slicers and Tables

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# Let's practice!

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# Data Analyst in Power BI track

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# What is the Data Analyst in Power BI track?



- Data Analyst in Power BI track co-created with Microsoft
- 17 courses with over 45 hours of learning material
- Learn how Power BI can be used to:
  - Import data
  - Clean data
  - Manipulate data
  - Visualize data

# Exam PL-300: Microsoft Power BI Data Analyst



- Courses cover the main skills required
  - Prepare the data
  - Model the data
  - Visualize and analyze the data
  - Deploy and maintain assets
- Become Microsoft Certified: Power BI Data Analyst Associate
- Get a **50% discount code** for the PL-300 exam once you have completed DataCamp's Data Analyst in Power BI track

# Let's practice!

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