Microsoft
Power Platform

Online Role-based training resources:

Microsoft Learn
https://docs.microsoft.com/en-us/learn/

PL-300 Analyzing Data with Power BI
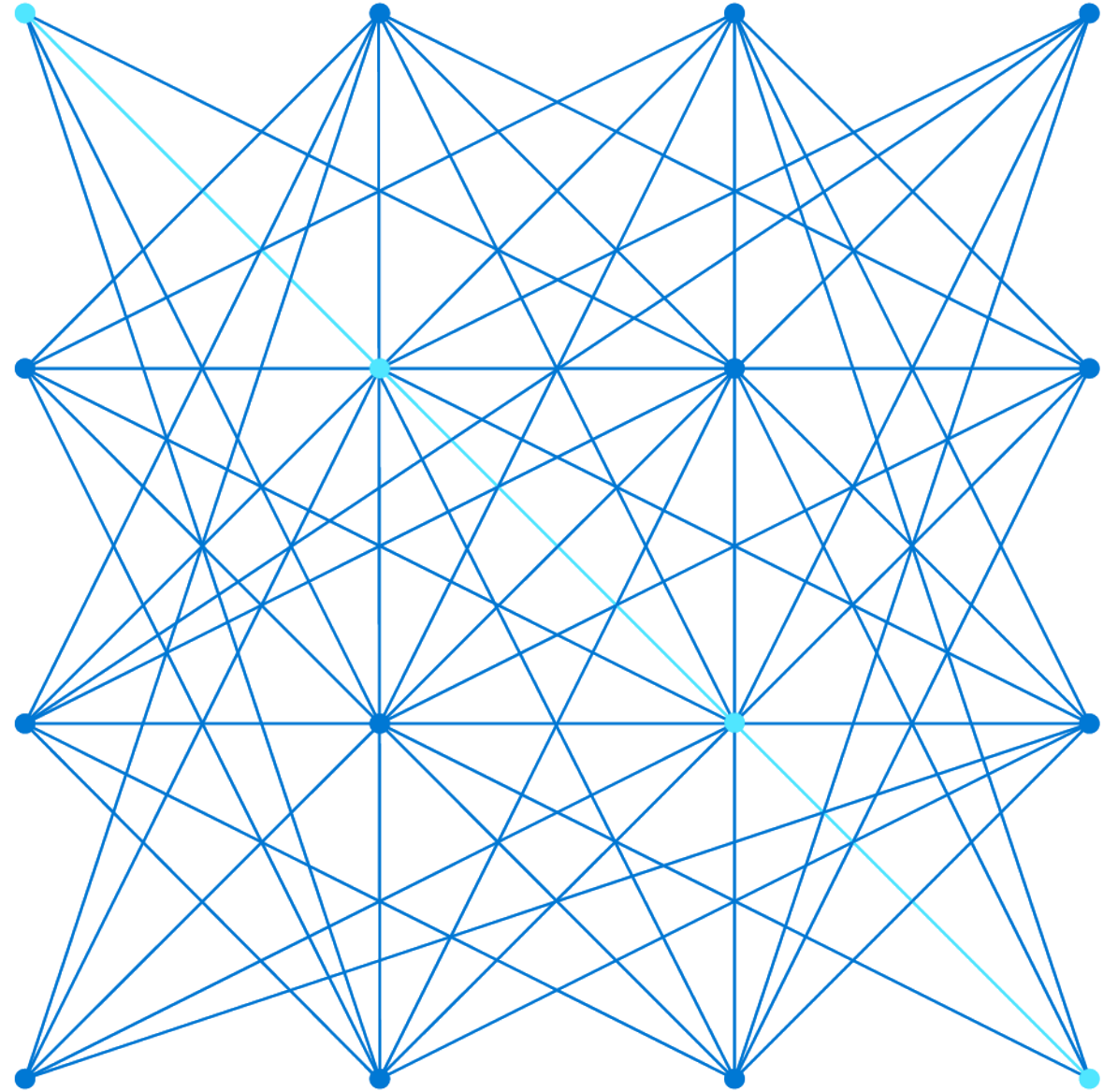
Module 10: Perform Advanced Analytics

Learning Objectives

You will learn the following concepts:

- Advanced Analytics
- Data Insights through AI Visuals

Lesson 1: Advanced Analytics

Introduction to Advanced Analytics

- Advanced analytics enables organizations to make better business decisions and create actional and meaningful insights.
- The emerging power of advanced analytics.
- Bring value to an organization through Power BI's advanced analytics capabilities.

Explore Statistical Summary

- Information that provides quick and simple description of your data.
- See clusters, patterns, and behavioral data.
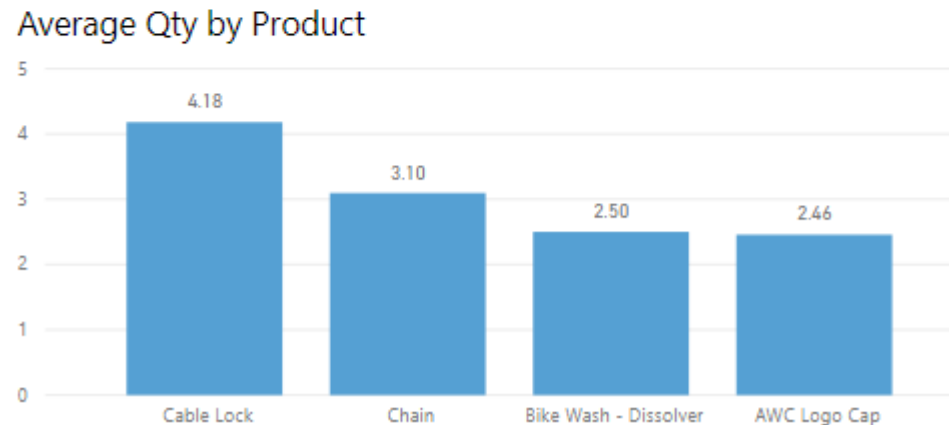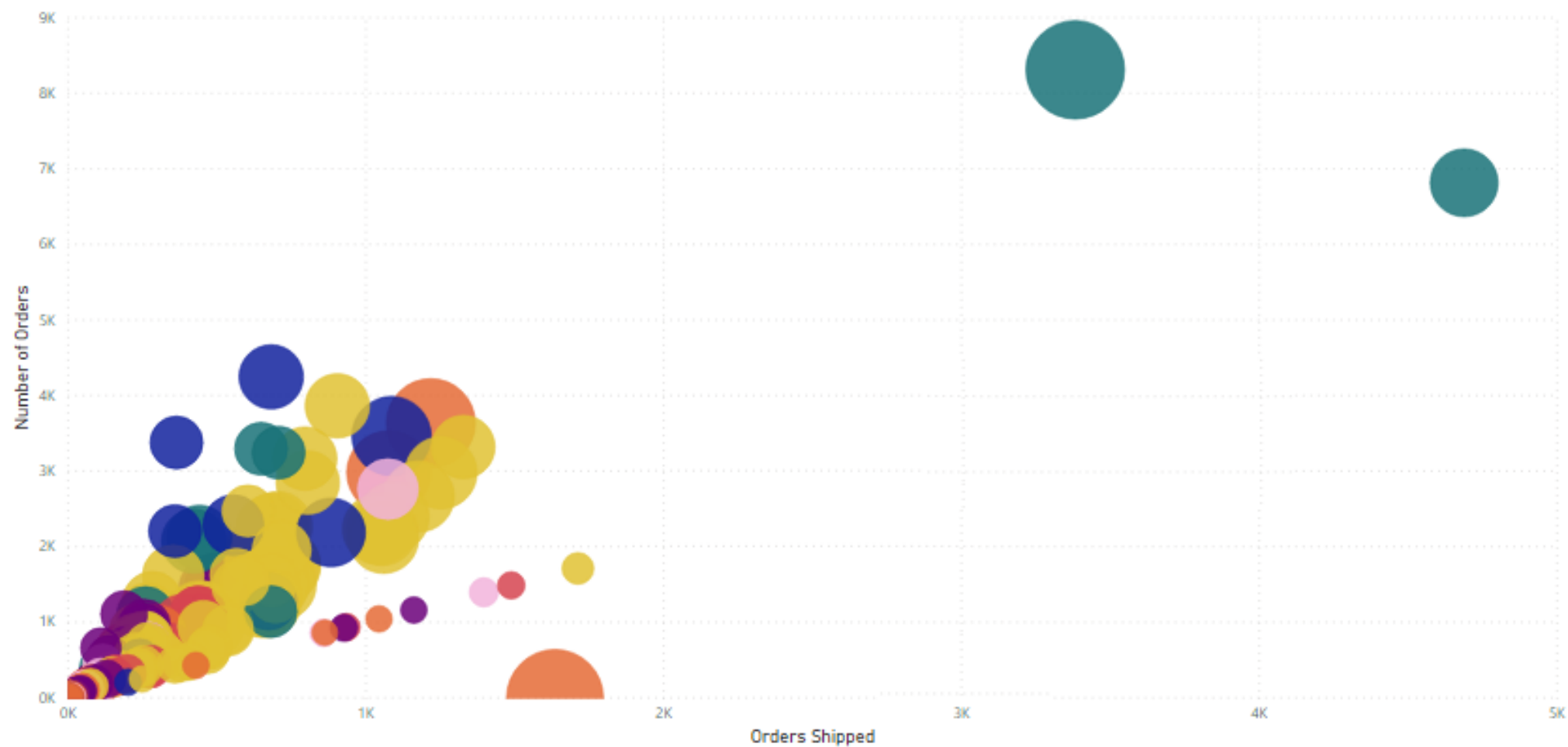
Identify Outliers

Number of Orders by Orders Shipped by Product Category

Product Category ● Clothing ● HL Mountain Bikes ● LL Bikes ● ML Mountain ● Mountain ● Road ● Ski Gear ● Touring
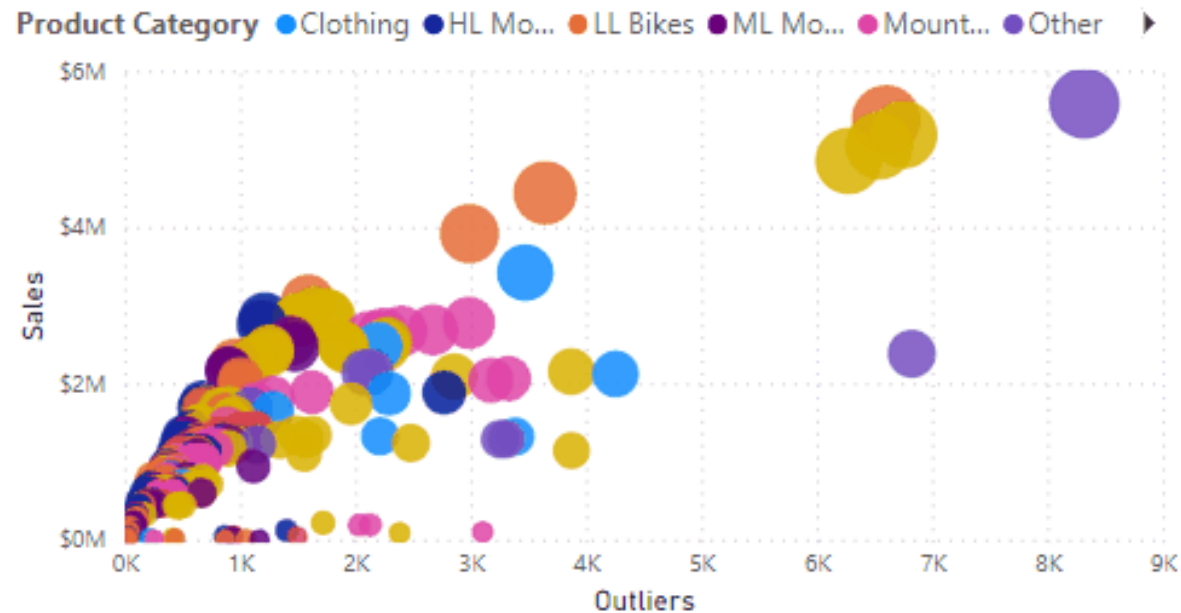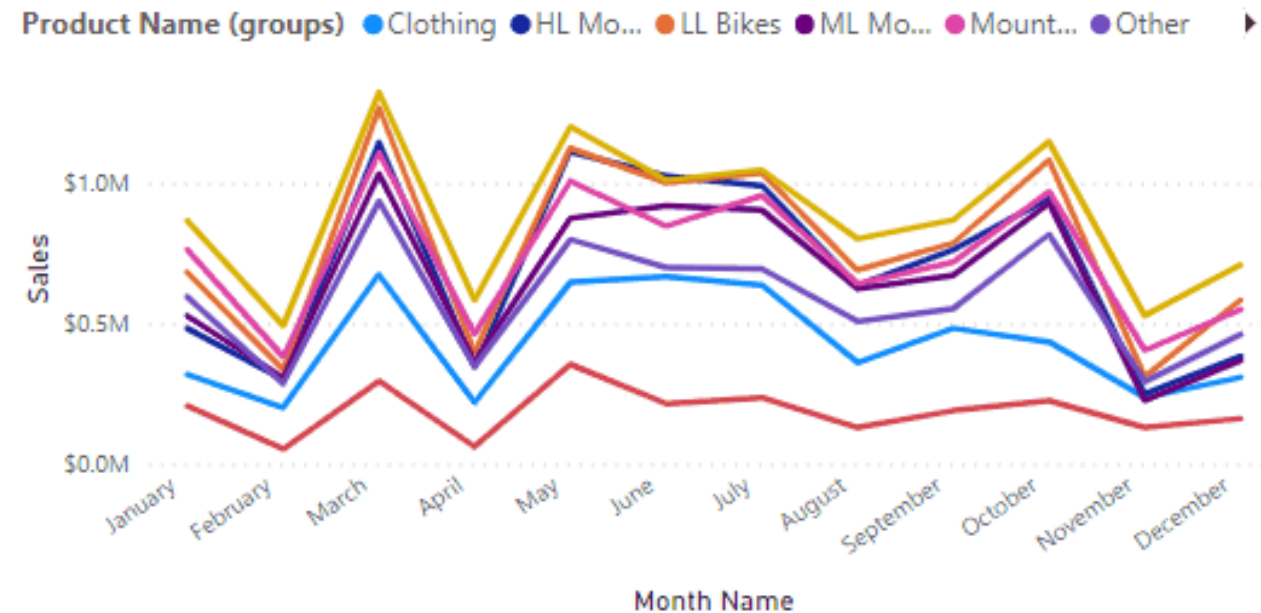
Conduct Time-series Analysis

- Analyze a series of data over time.
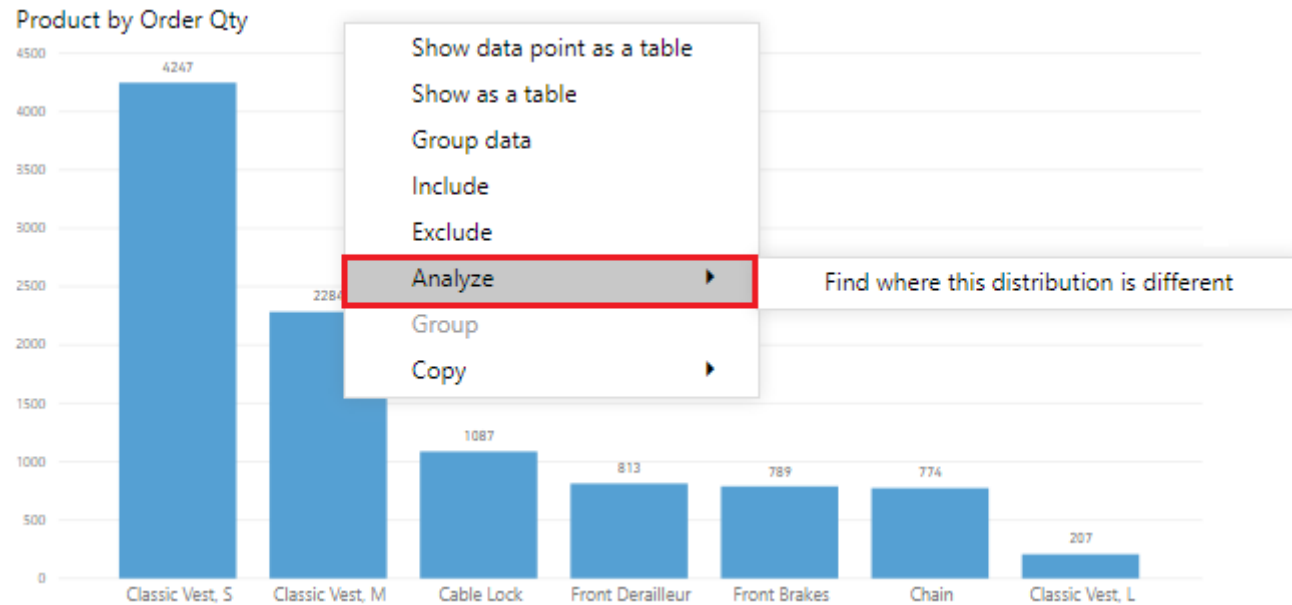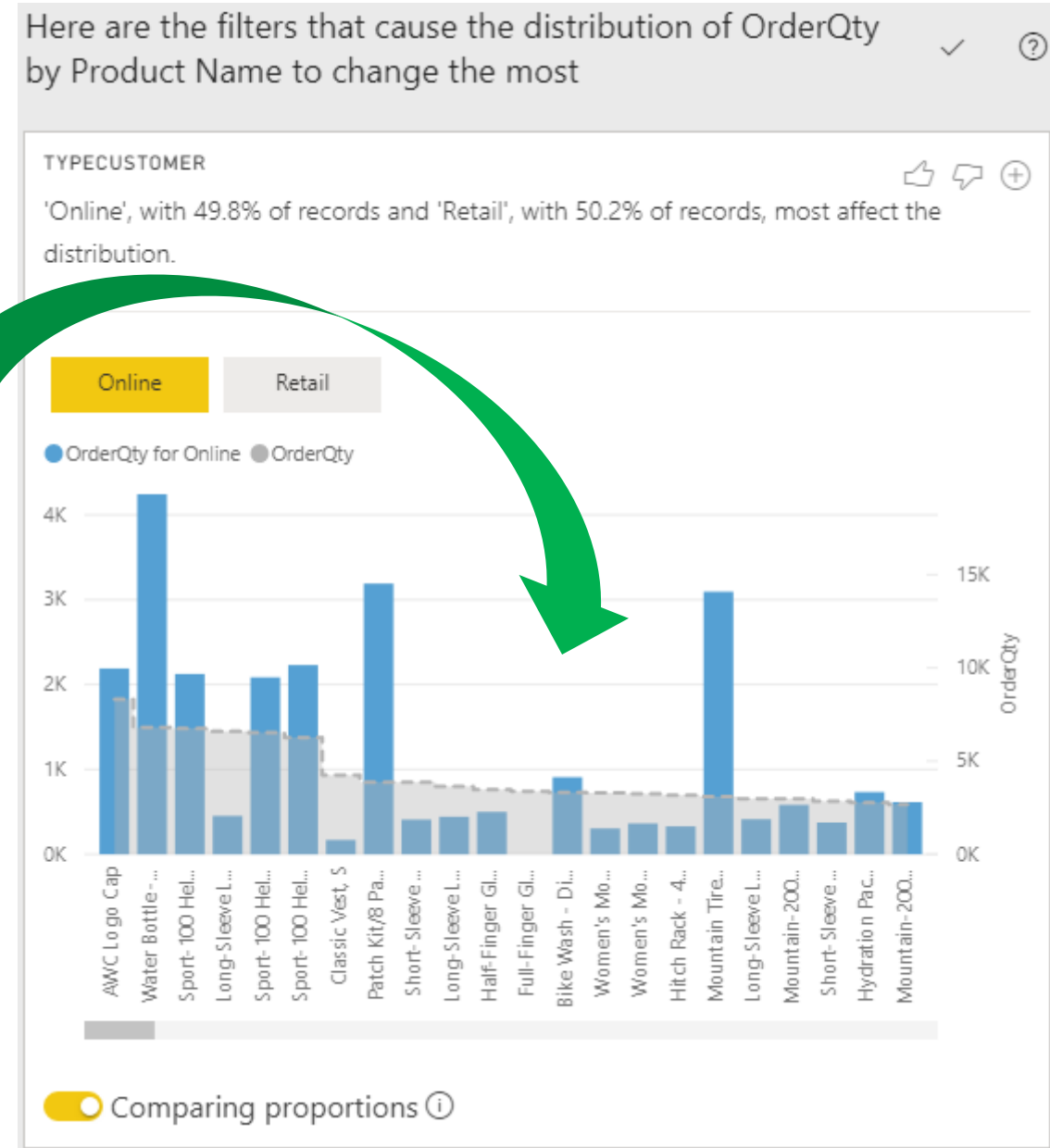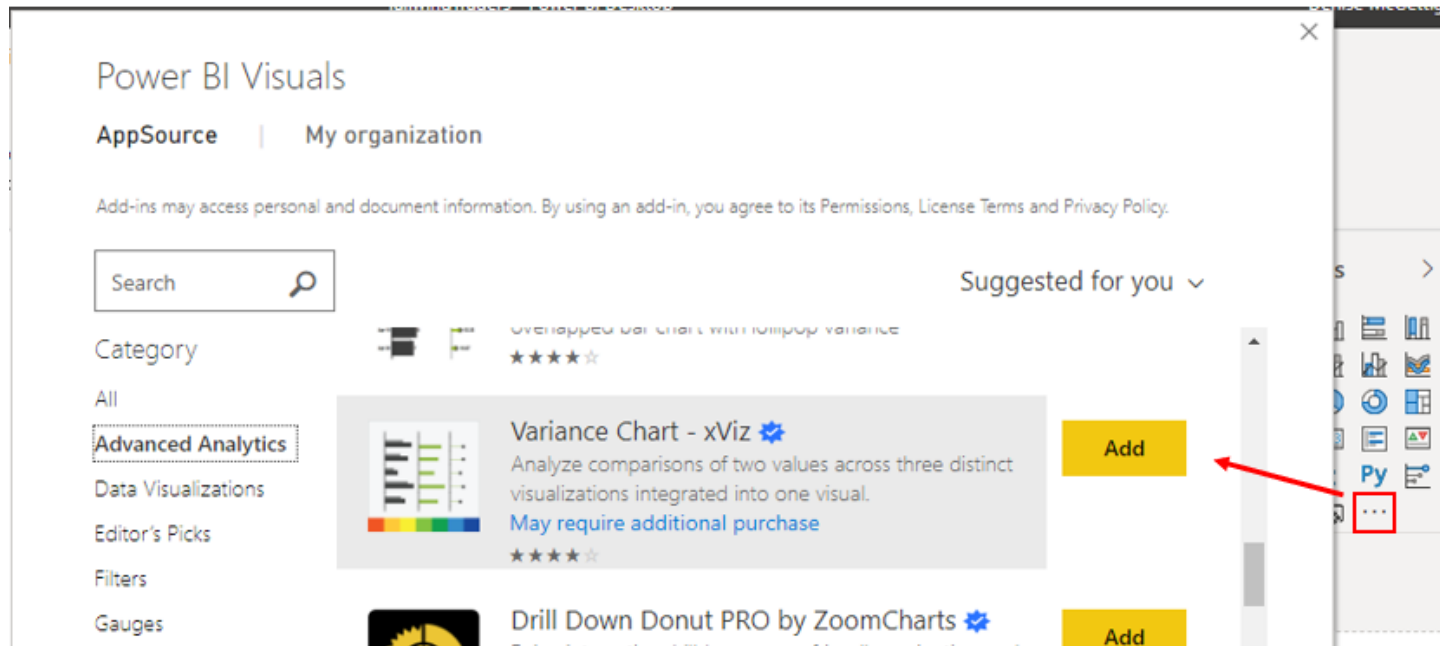- Identify meaningful trends and make predictions.
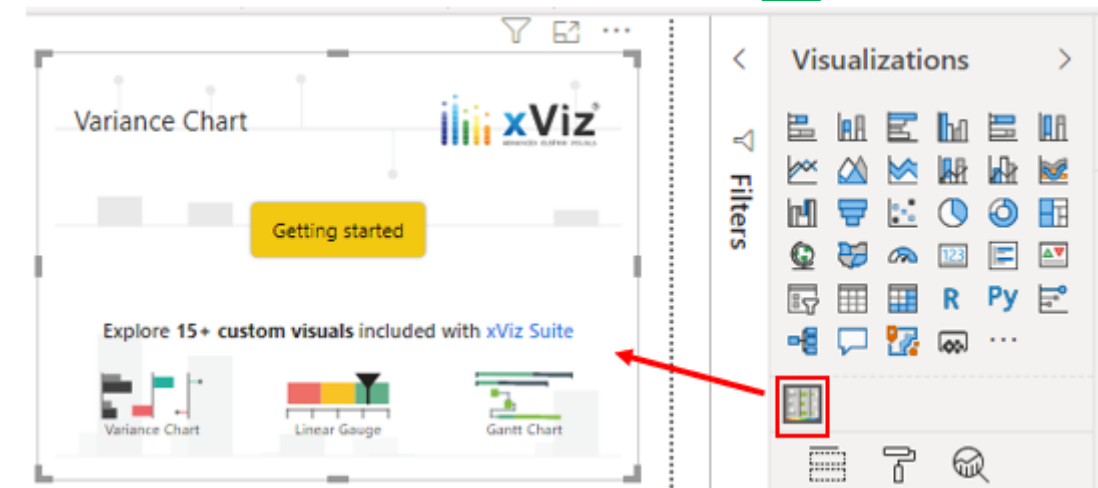
Using the Analyze Feature

Get fast, automated, and insightful analysis on your data.

Advanced Analytics Custom Visuals

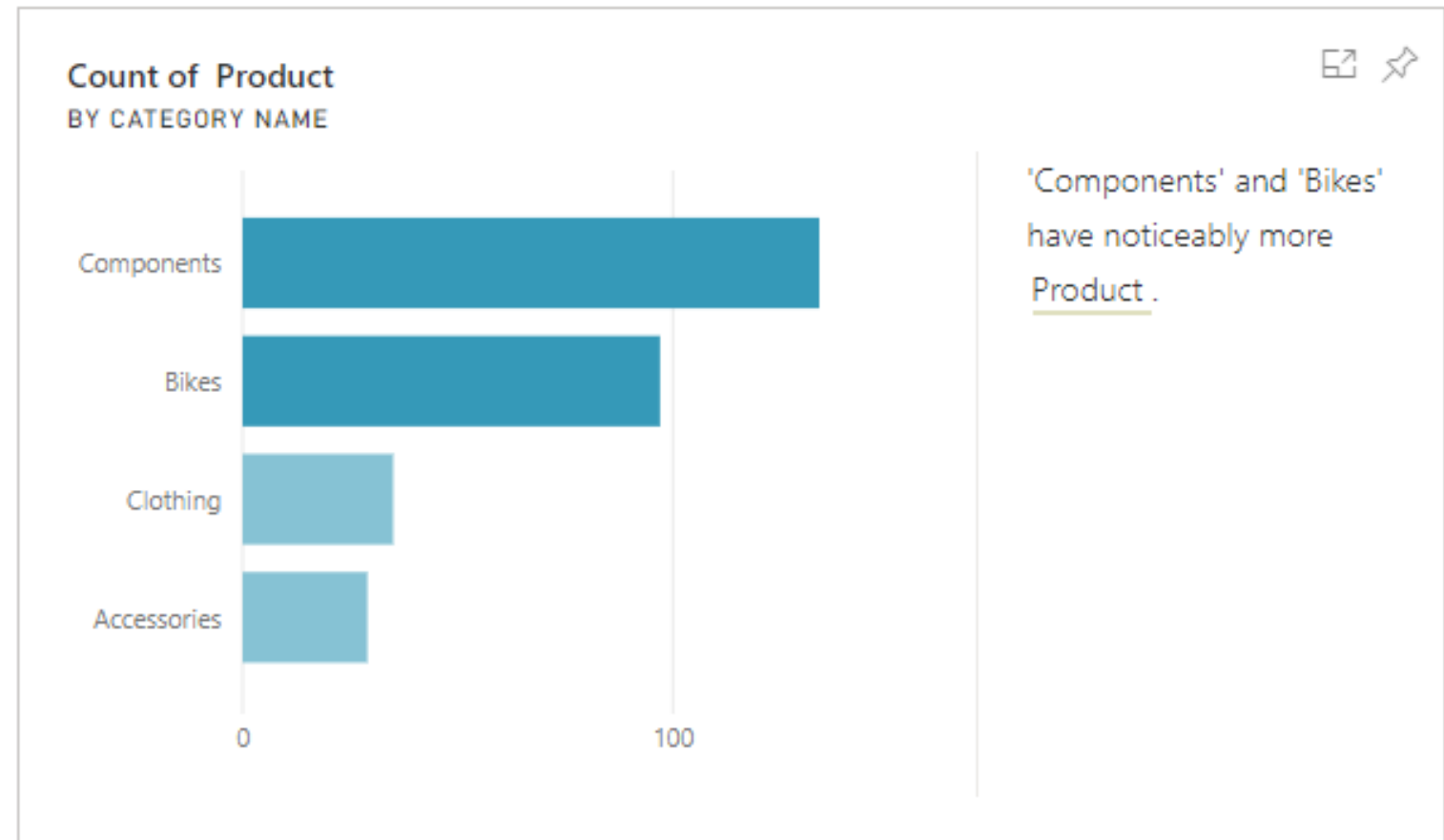Add a layer of data insights to your reports for further analysis.

Quick Insights

- Uses Machine Learning algorithms to produce quick insights.
- Uncover insights missed during report construction.
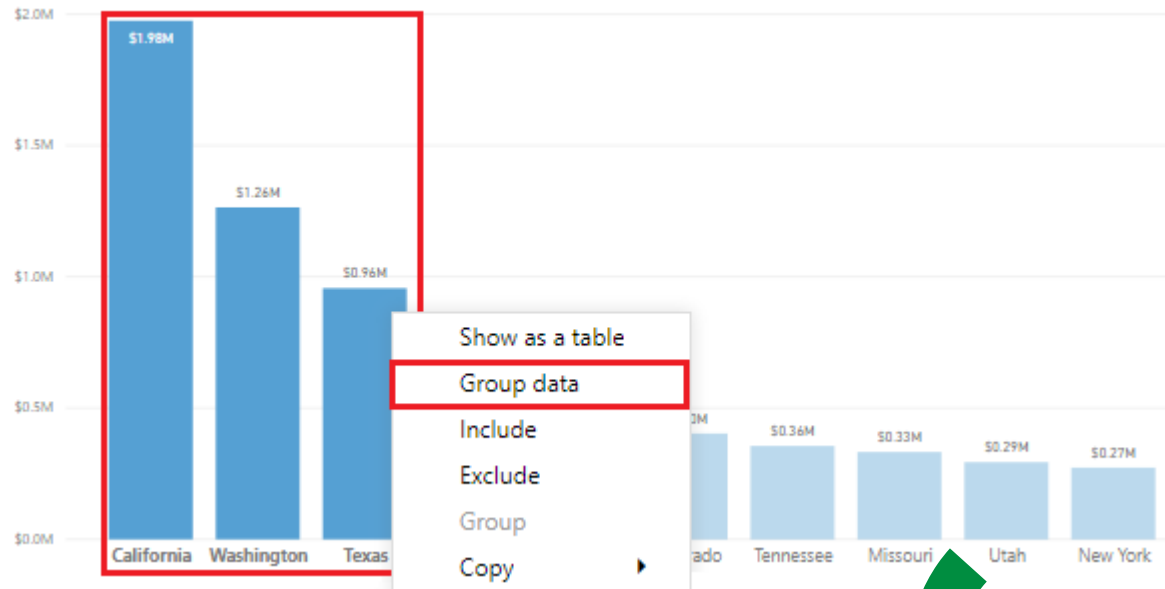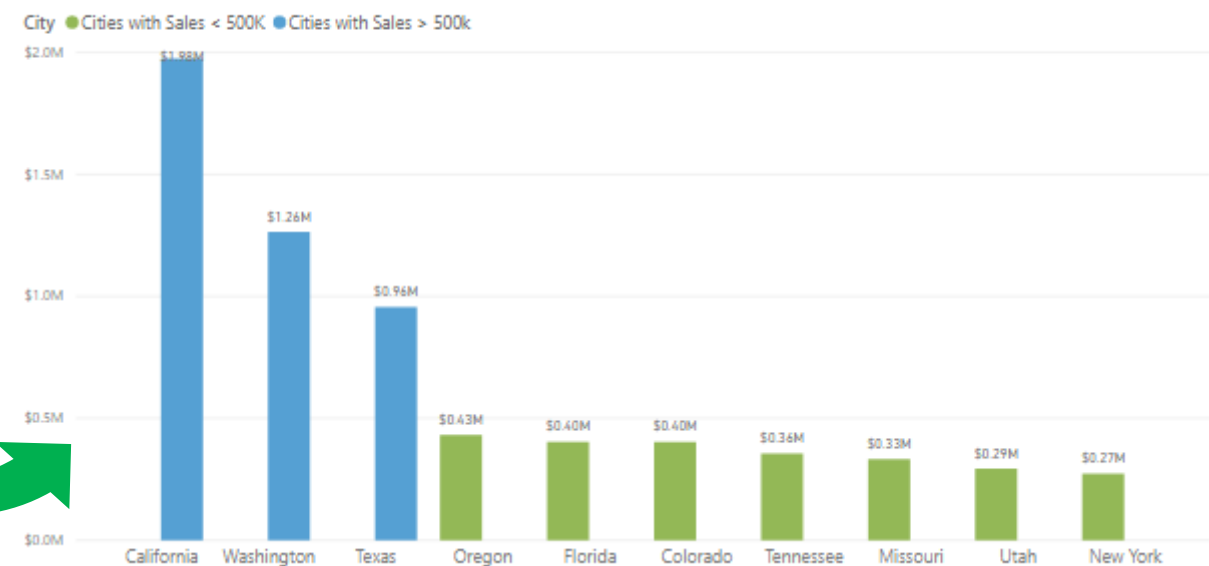- Generate stimulating visual interactions.

Grouping and Binning

Total Sales by City

- Grouping: Group categories of data.
- Binning: Group continuous fields.

Clustering Techniques
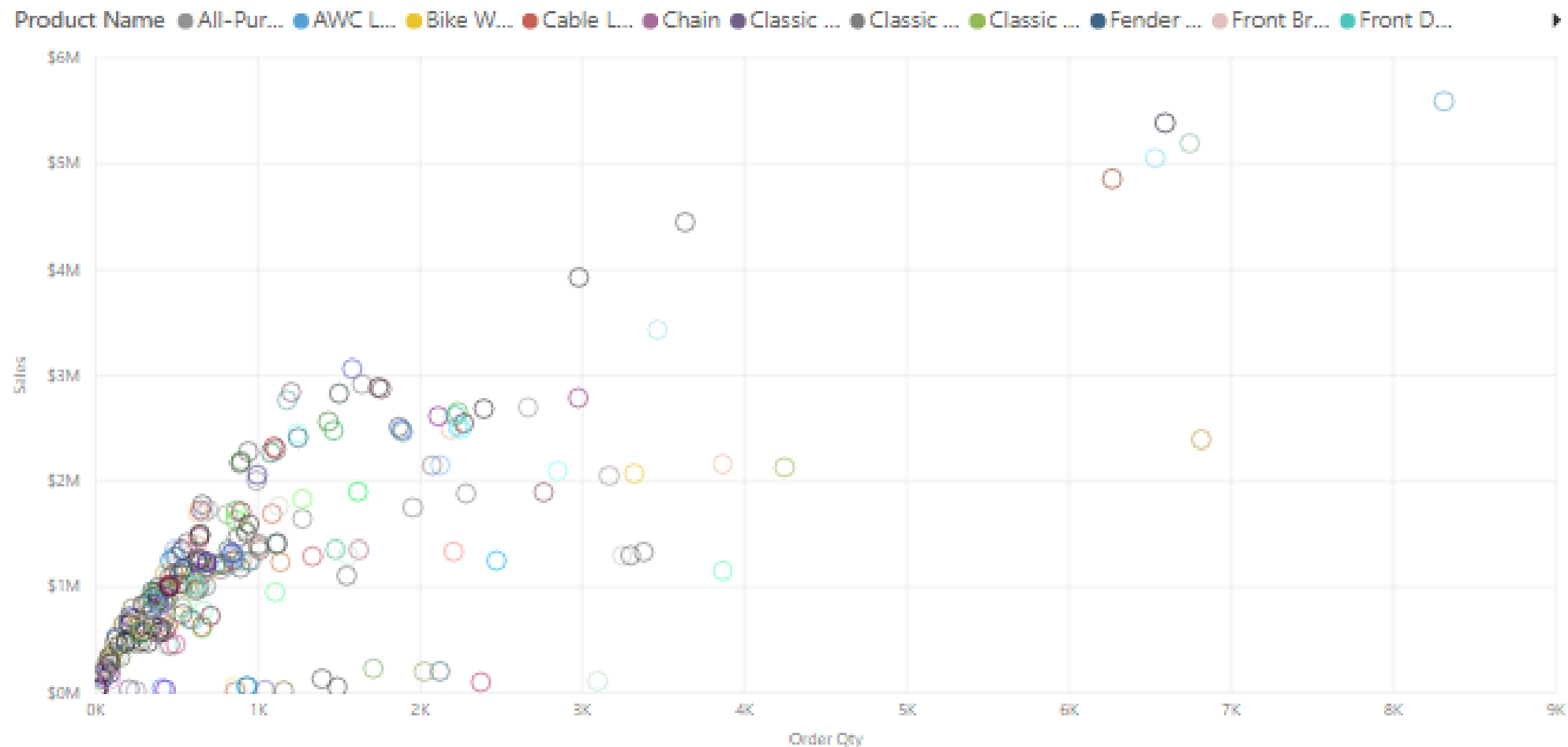
Lesson Review

- Advanced analytics enables organizations to make better business decisions and create actional and meaningful insights.
- The emerging power of advanced analytics.
- Bring value to an organization through Power BI's advanced analytics capabilities.

# Lesson 2: Data Insights through AI Visuals

Introduction to AI Visuals

- Power BI provides a wide range of methods to analyze data.
- Fastest way to get an answer is to ask a question.
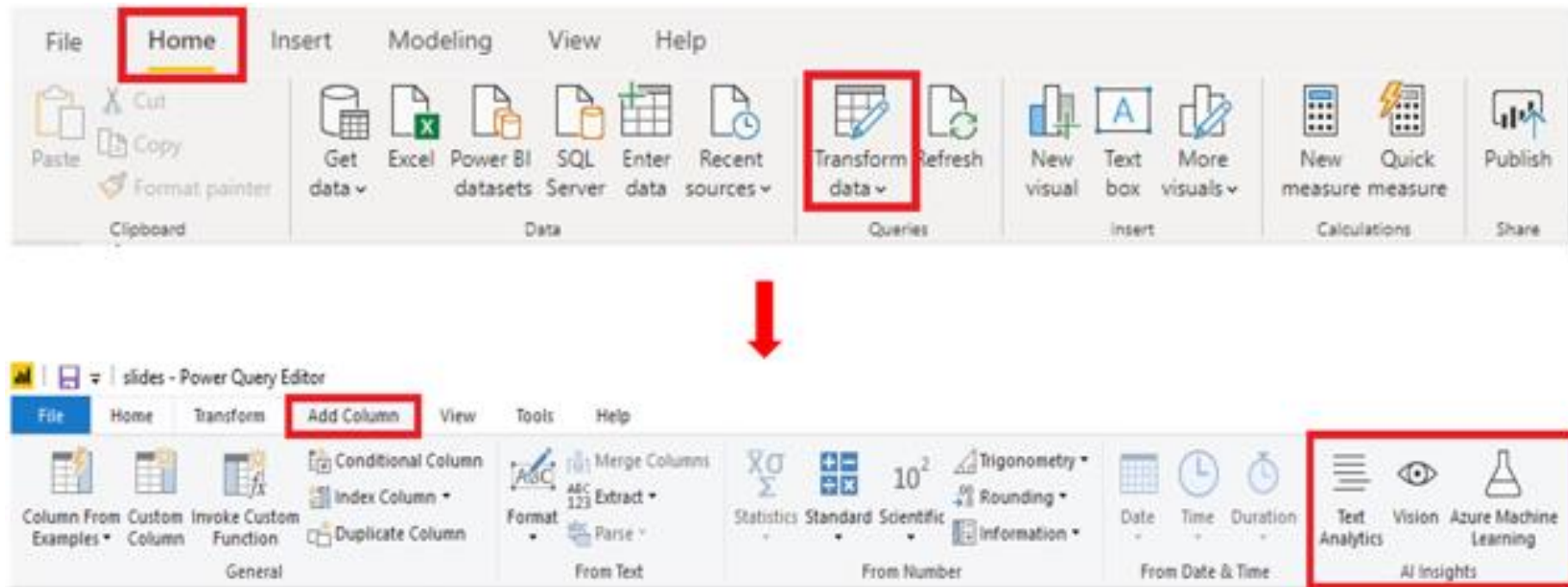- Analyze raw data and transform it into valuable information.

The Q&A Feature

- Explore data in your own words.
- Ask natural language questions.
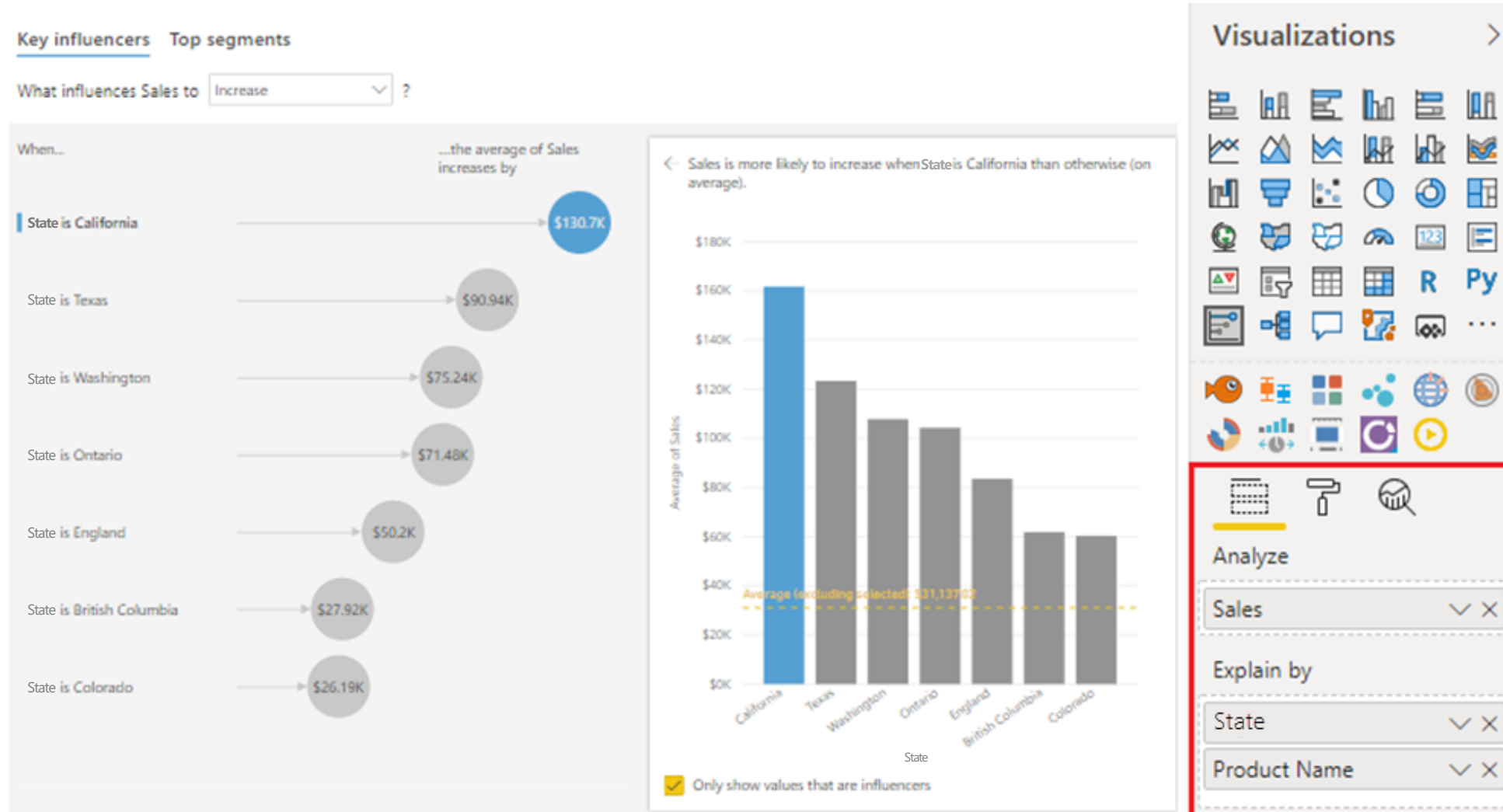- A "self-help" feature for insights the user is interested in.
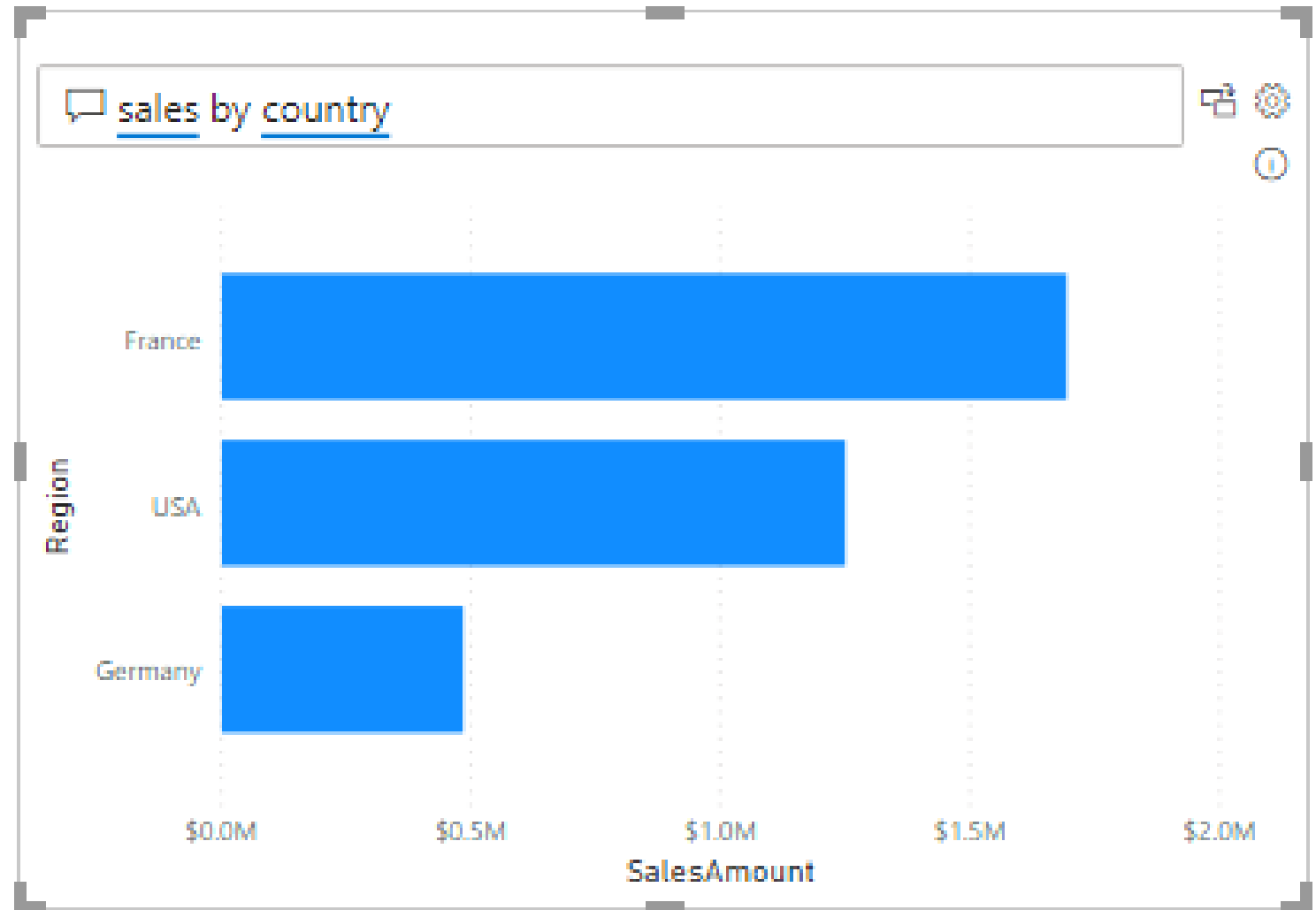
AI Insights

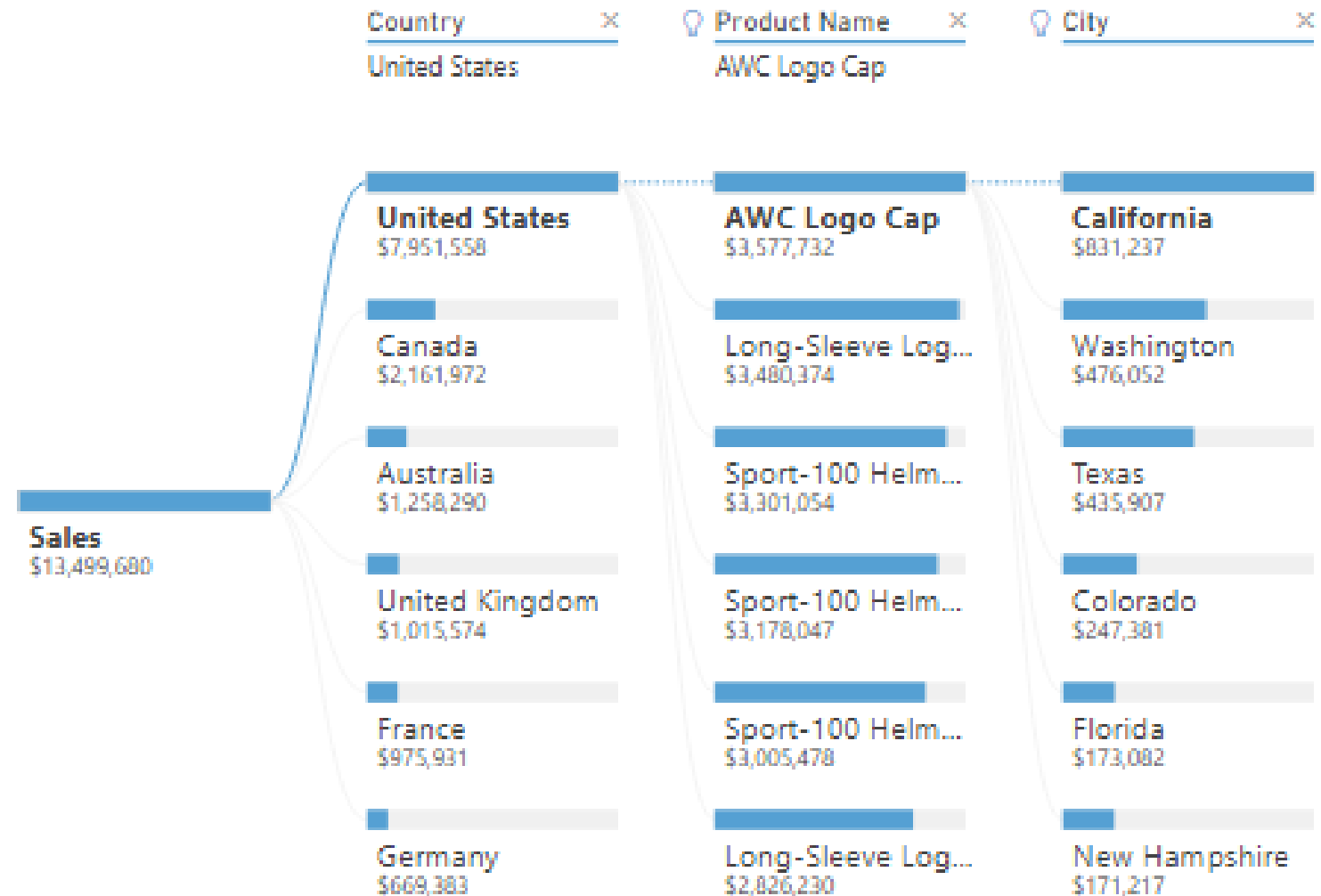Connect to a collection of pre-trained Machine Learning models.

Key Influencer Visual

Decomposition Tree Visual

- Aggregate data and dril down into your dimension.
- Improvise exploration and root cause analysis.

Lesson Review

- Use the AI aspects of advanced analytics in Power BI to dig deeper into data.
- Use AI to answer more business questions.
- Use AI visuals to understand factors affecting a metric or view data across multiple dimensions for root cause analysis.
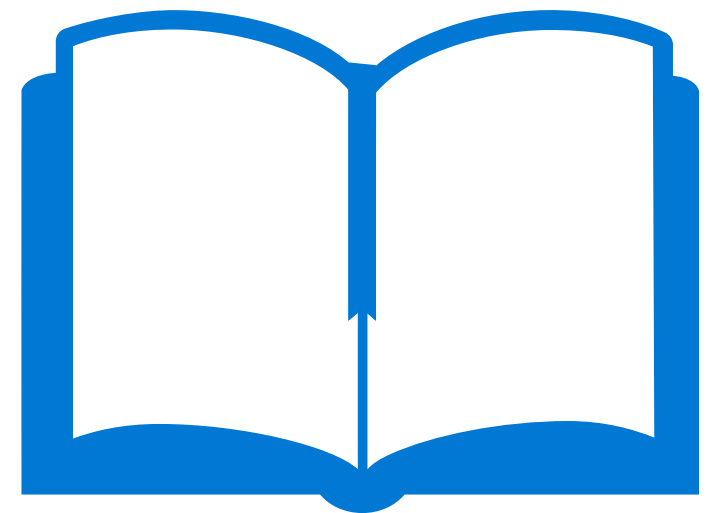
Module Overview

We covered the following concepts:

- Advanced Analytics
- Data Insights through AI Visuals

References

- PL-300 Perform analytics in Power BI
https://docs.microsoft.com/en-us/learn/paths/perform-analytics-power-bi/
- Work with AI visuals
https://docs.microsoft.com/en-us/learn/modules/ai-visuals-power-bi/

Azure Technical Trainer Role Based Training