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# **POWER B**Visualizing Data



#### **Objectives**



#### **Introduction to Power BI**

- Competitive Landscape
- Terminology & Navigation
- Power Query Editor
- Loading the Data Model
- Filters & Formatting
- Practice: Interpret an Interactive Dashboard



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## **Power Bl Intro**Competitive Landscape

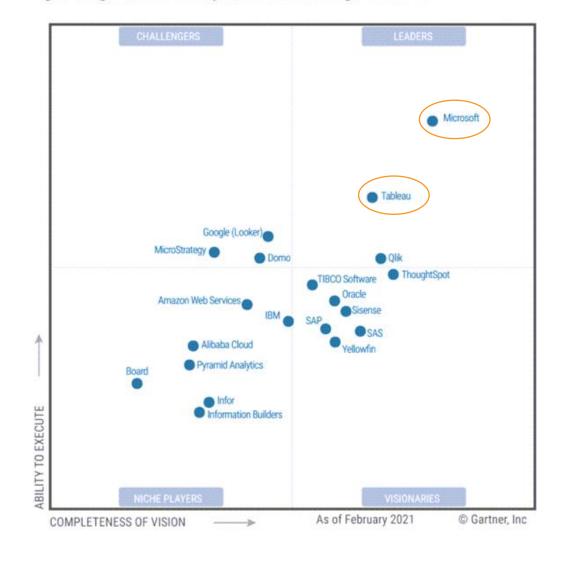


#### Gartner's 2021 Magic Quadrant

- · What does this mean?
- Functionality?
- Market Share?
- Free Software? ©

"LOW-COST, LOW-FRICTION, COMMUNITY-POSITIVE"

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms



### **Competitive Landscape**







★ Industry leader for data visualization
software, with VizQL IP for Interactive
Data Inquiry.

Integrated with Microsoft tool suite, including MS database offerings.

Olik Sense 2015 modeled after Tableau feature set to increase competition.

Logical & Physical Data Model with Hyper Database Engine for in memory columnar preparation. Extensive 80+ native data connectors. User navigation uses familiar selection interface for Data Model and Chart Navigation.

Automated Associative Indexing for table imports; dynamic Data Model with programmatic options.

Robust user-friendly interface designed to democratize access to visual data analysis.

Consistent user experience reduces learning curve for those with Excel experience and greatly enhances visuals coming from Excel.

Smart Search with suggested KPI's and Charts recommendations. Learning curve with user interface.

Extensive specialization options: PyTab, Extension libraries, 3<sup>rd</sup> party add-on integration, etc.

DAX extends creation options.

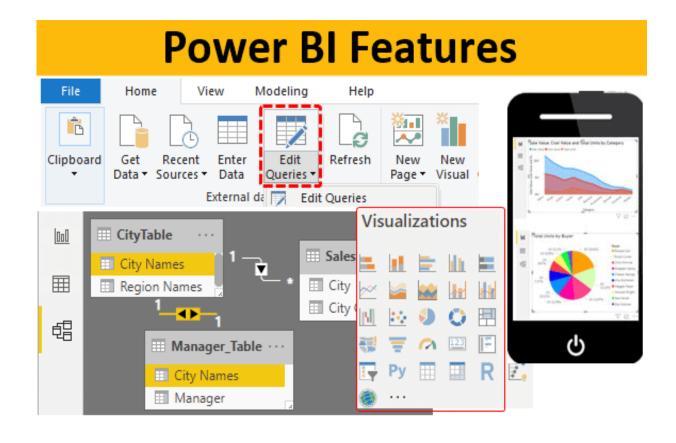
Direct SQL integration for aggregation and customization. SET Expressions.

#### **Power Bl**



#### **Top 8 Features**

- 1. Data Connection
- 2. Data Relationships
- 3. Power Query & Power Pivot
- 4. Ease of Chart Creation
- 5. Power Bl's Q&A
- 6. Cost of Power BI
- 7. Report Sharing
- 8. Mobile App





# **Power Bl Intro**Terms, Navigation & Query Editor

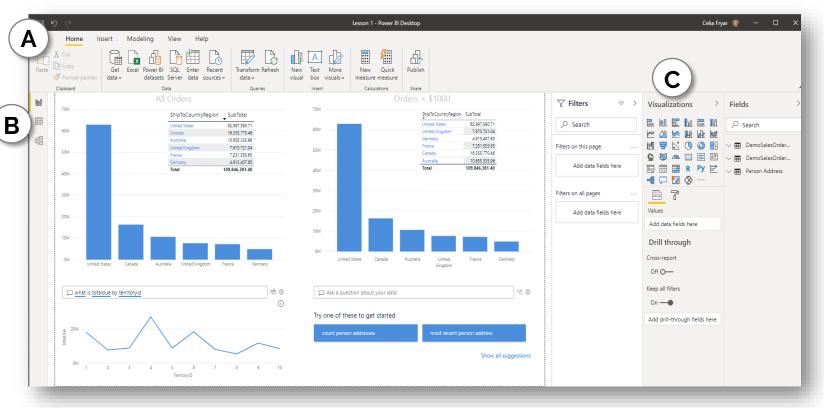
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### **Launch and Explore**



### MS Ribbon Menu System (A)

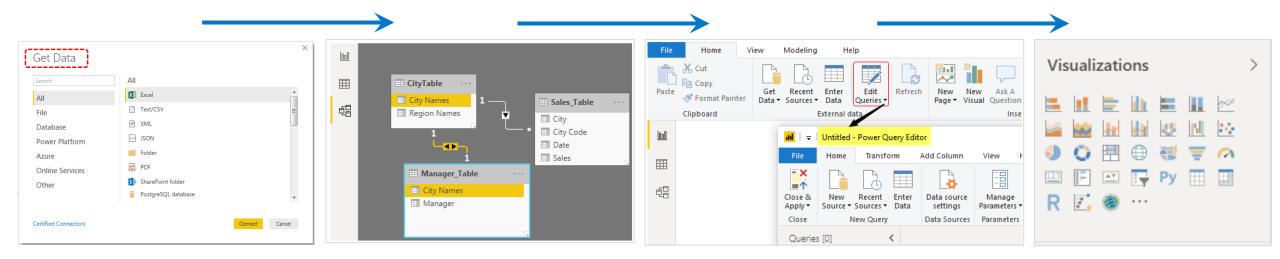
- 3 Views B
  - Report (default)
  - Data
  - Model
- 3 Chart Panes ©
  - Filters
  - Visualizations
  - Fields



#### Power BI Workflow



- Load Data: csv, txt, xlsx, database files and more.
- Data Modelling: define relationships between tables
- Query Editor: transform & manipulate data
- Visualize: select chart parameters & attributes



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