Microsoft Power BI

Fundamentals

Brief History

2010 *Power Query/Pivot*

2011 *Project Crescent*

2013 Renamed to *Power BI*

2015 *Power BI Desktop*

Power BI: Introduction to Business Analytics

Course Author: Joshua Michalik

Why Power BI?

Many Data Sources

Powerful Data Engine

Huge Selection of Visualizations

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Powerful features for any user!

Robust Visualization Tool

Self-Service Data Analysis Tool

Cloud-Based Report Sharing

Vast Support of Data Sources

Powerful Data Query Engines

Publish Dashboards to the Cloud

Extremely Customizable

Supports On-Prem & Cloud-based data

Build star-schemas

Data Measures

Calculated Columns

...much much more

Data Sources

Access

Excel

DB2

GitHub

DB2

And many more...

Data Engine

Relate Data

Calculated Columns

Measured Columns

Filter and Edit Data

Power BI: Introduction to Business Analytics

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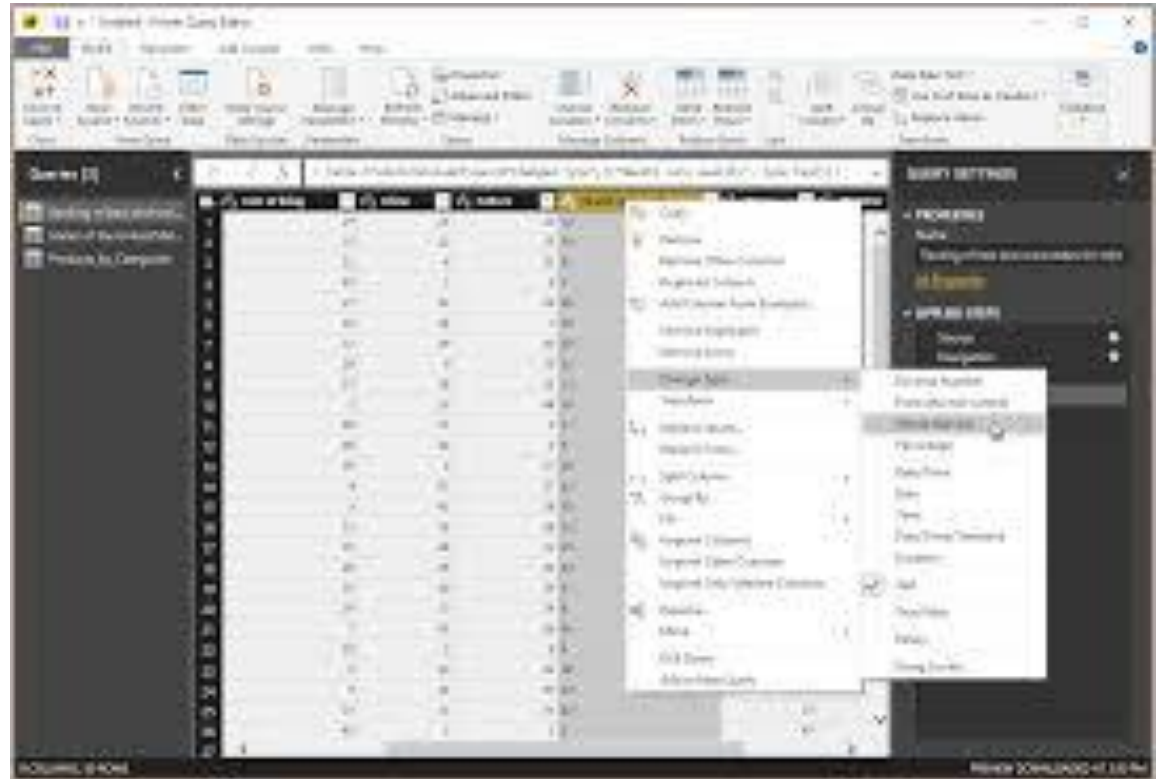
Visualizations

Bar Graphs

Waterfall Graphs

Pie Chart

Scatter Chart

3rd Party

Customizable

Power Components

Power Query

Power Pivot

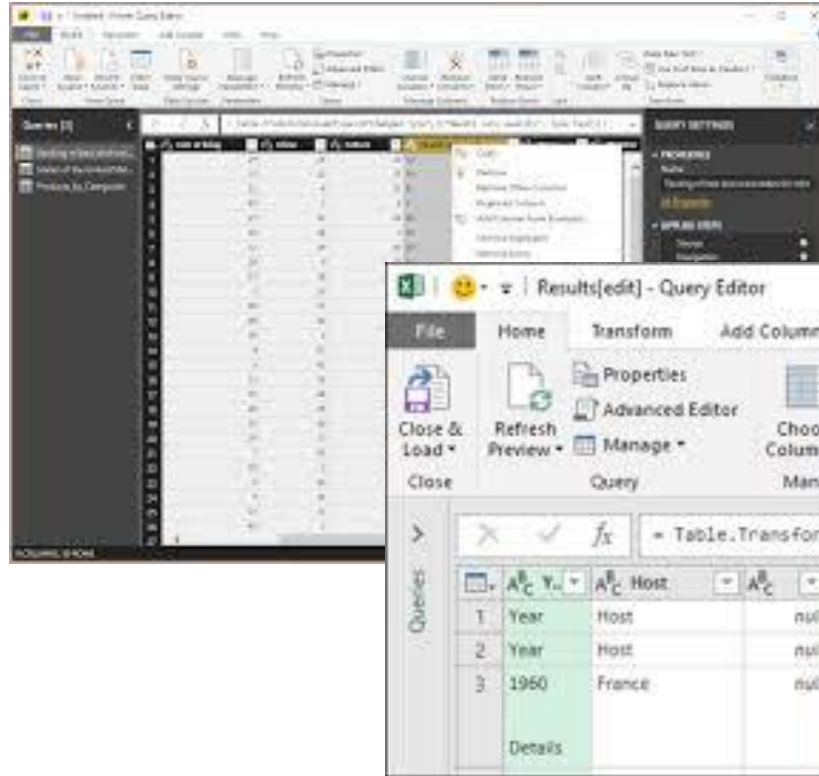Power View

Power Map

Power Q&A

Course Author: Joshua Michalik

Power Query

Extract data from
various sources

Transform data as
needed for your usage

Extensive UI

Powered by M
language

Power BI: Introduction to Business Analytics
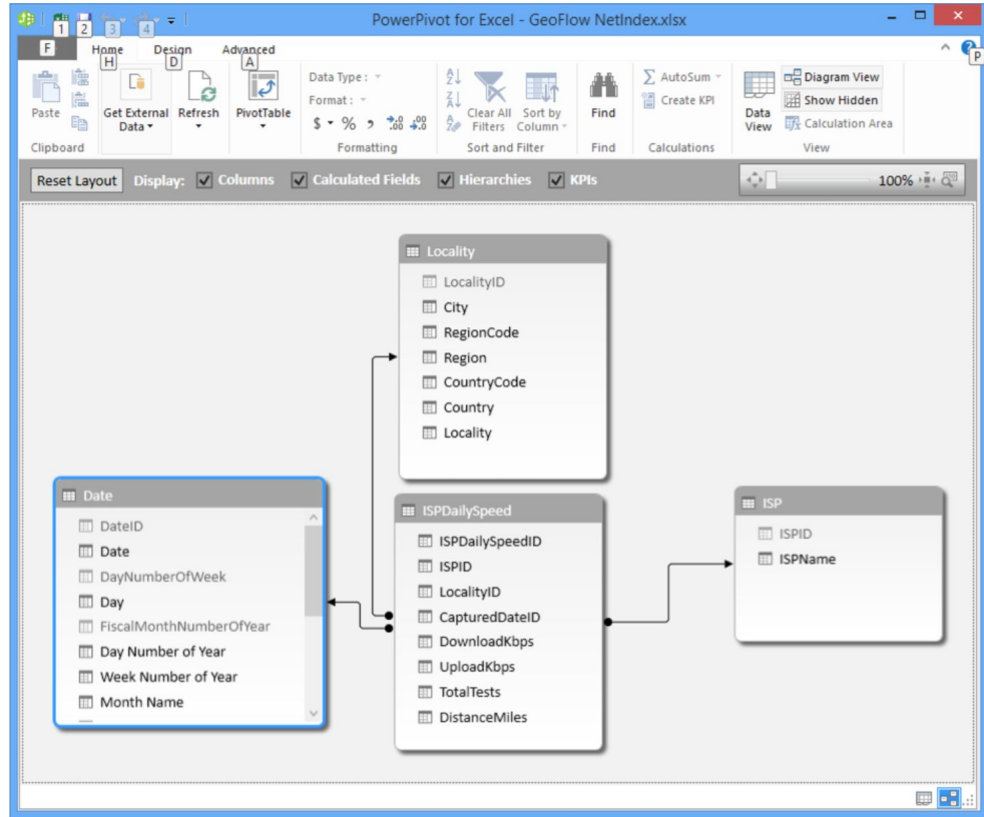
Course Author: Joshua Michalik

Power Pivot

Build relationships into data

Build measured columns

Create calculated columns

Powered by DAX

Power View

Connect to data sources

Fetch metadata for analysis

Filter data for a visual element

Interactive!
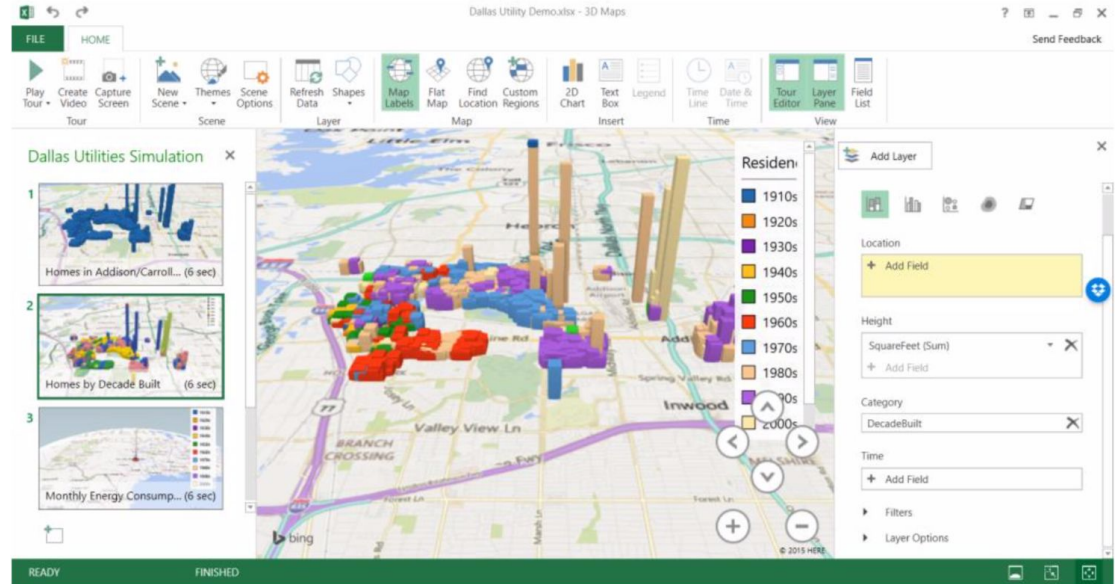
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Power Map

3D Geospatial data visualization tool

Visualize geographical maps, heat maps based on address or GPS coordinates
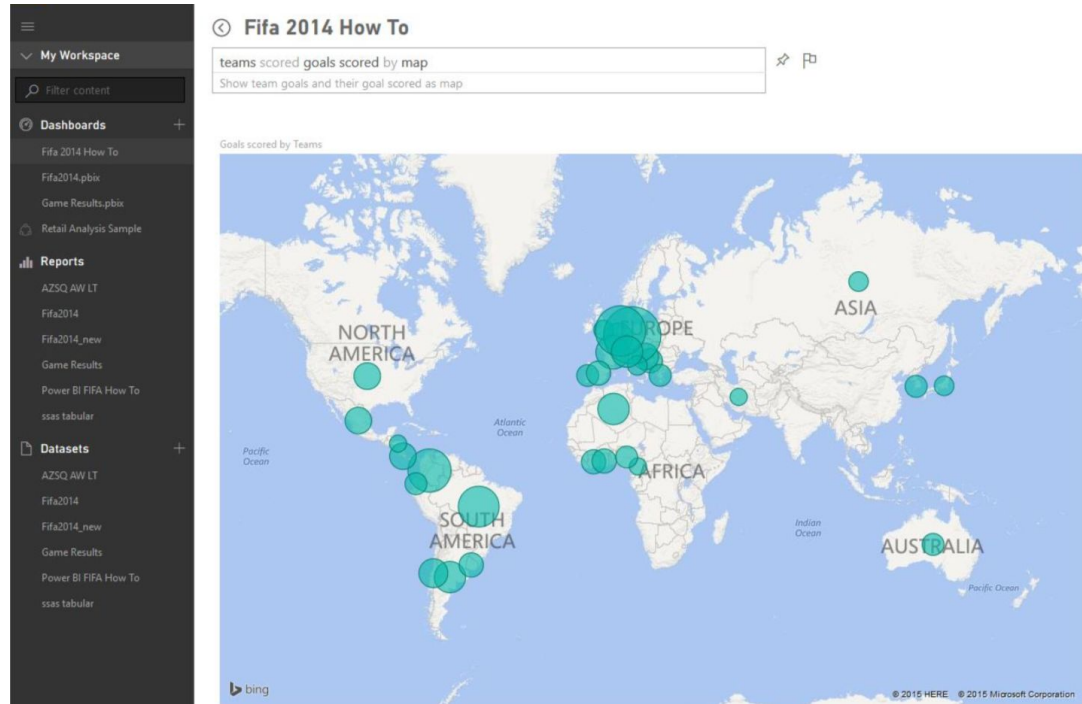
Power by Bing Maps

Power Q&A

Natural Language question and answering engine

Ask questions based on data

Creates visuals for questions

Power BI Applications

Power BI Desktop

Power BI Web

Power BI Mobile

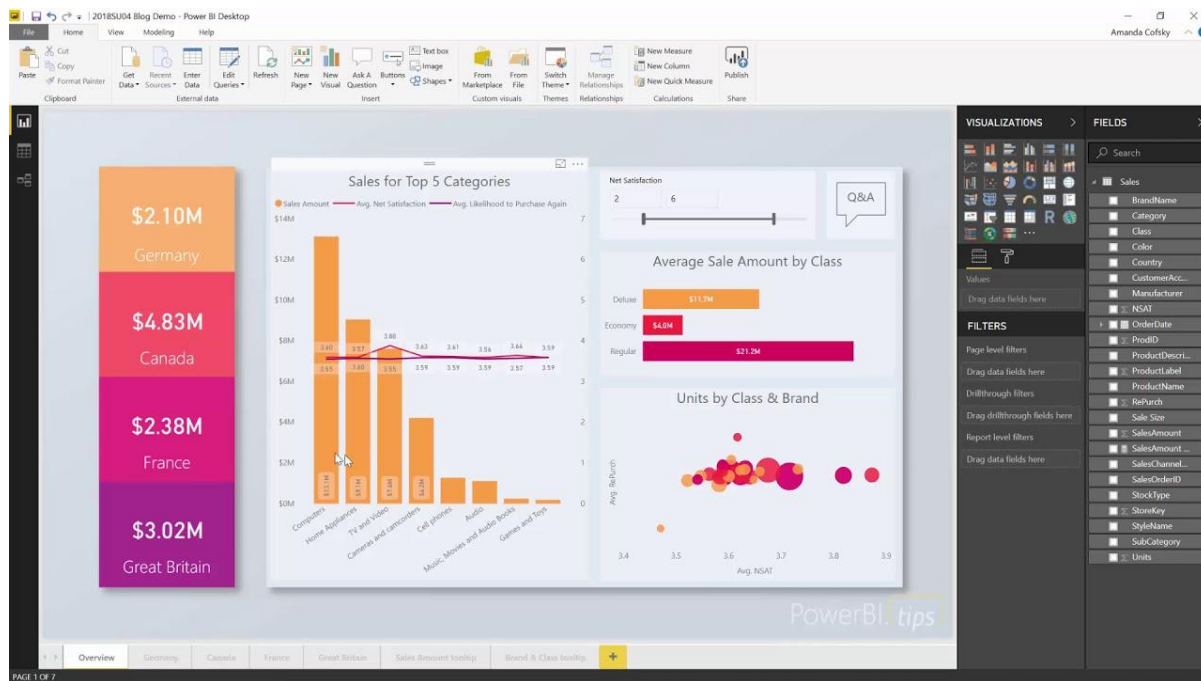**Power BI: Introduction to Business Analytics**

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