Power BI Overview

Learning Objectives

- Understand the Power BI architecture and interface
- Connect to different data sources
- Importing Data
- Clean, shape, and transform data
- Data Modeling
- Calculated columns, Measures, and DAX functions

Agenda

In this session, We'll discuss:

- Getting Started with Power BI
- Get data from files
- Simplify the data structure
- Evaluate and change column data types
- Combine multiple tables into a single table

Getting started with Power BI

What is Power BI?

Power BI is a business analytics service by Microsoft that provides interactive visualizations and business intelligence capabilities with an interface simple enough for end users to create their own reports and dashboards.
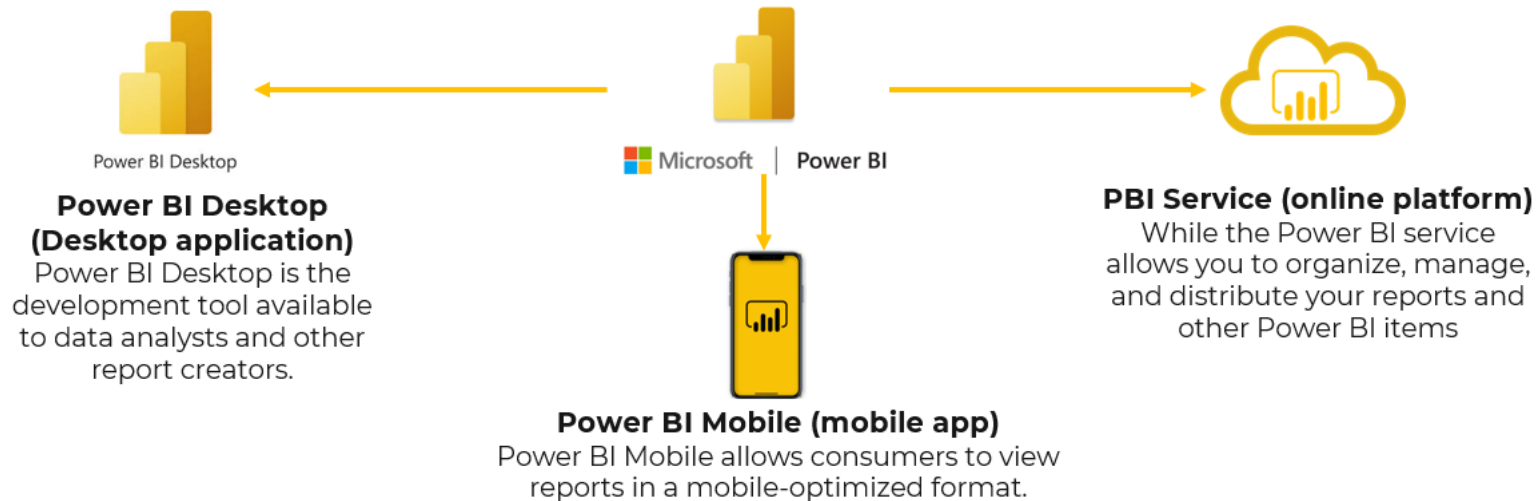
- Connect to and extract data from diverse data sources
- Create interactive visualizations, reports, and dashboards to share important data insights. ML/AI capabilities for advanced analytics
- Share and collaborate with small and large audience groups using a well-managed cloud-based infrastructure

Components of Power BI

Power BI Desktop

**Power BI Desktop
(Desktop application)**
Power BI Desktop is the
development tool available
to data analysts and other
report creators.

Microsoft | Power BI

Power BI Mobile (mobile app)
Power BI Mobile allows consumers to view
reports in a mobile-optimized format.

PBI Service (online platform)
While the Power BI service
allows you to organize, manage,
and distribute your reports and
other Power BI items

Explore the flow of Power BI
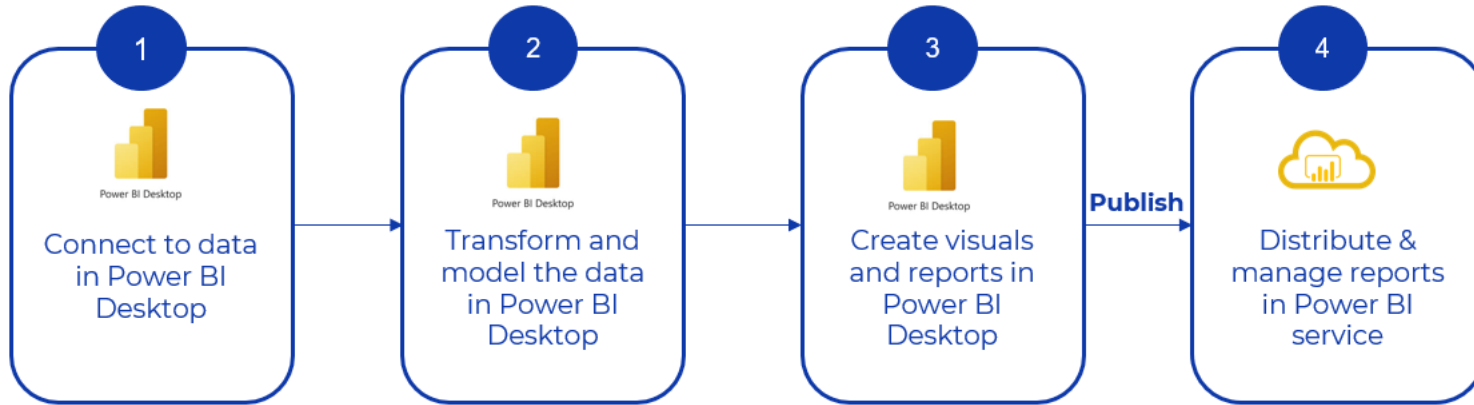
Building Blocks of Power BI

Semantic Model

A semantic model consists of all connected data, transformations, relationships, and calculations

Report

An interactive report containing visualizations and insights from your data

Dashboard

Dashboards are an excellent way to provide high-level information to consumers. They consist of a single page made up of tiles