



# Power BI for Beginners: A Teacher's Guide

Unlock the power of data analysis with Power BI! This presentation will equip you with the skills to transform your teaching with interactive reports and insightful visualizations.

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# What is Power BI and why is it important?

## Powerful Business Intelligence

Power BI is a business intelligence tool that allows you to collect, analyze, and visualize data to gain insights and make better decisions.

## Teacher's Advantage

It's ideal for educators to track student progress, analyze performance trends, and create engaging data-driven presentations.

# Key features and capabilities of Power BI



## Data Visualization

Create interactive dashboards and reports using various chart types, such as bar graphs, line charts, and scatter plots.

## Data Connectivity

Connect to multiple data sources, including Excel spreadsheets, databases, and cloud-based services.

## Data Transformation and Modeling

Clean, transform, and model your data to ensure accuracy and consistency for analysis.

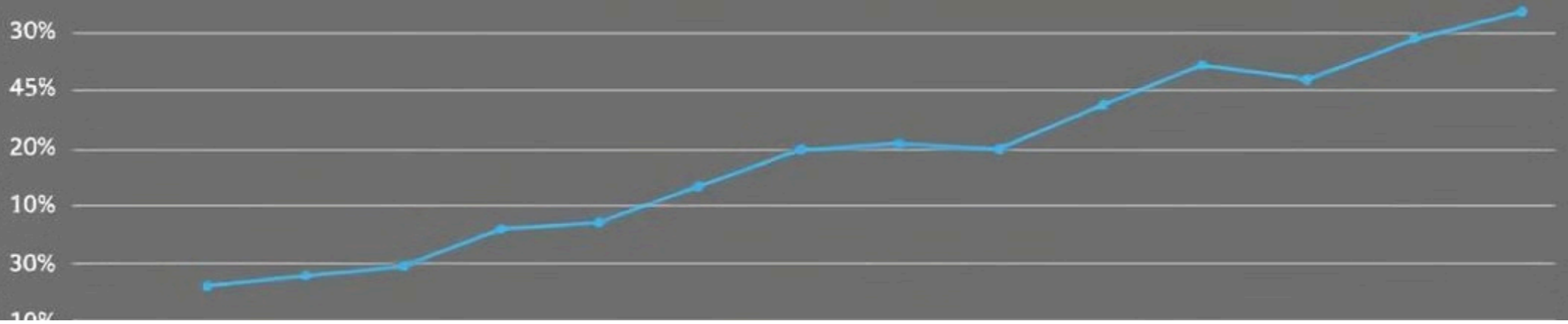
# Getting started with Power BI: Installation and setup

## Download Power BI Desktop

Download and install the free Power BI Desktop software from the Microsoft website. Choose the correct version for your operating system.

## Sign in to Power BI Service

Create a free Power BI account or sign in to your existing account. This will allow you to share and collaborate on your reports.



# Connecting data sources to Power BI

## Excel

Import data from Excel spreadsheets by selecting the file from your computer or network drive.

## Databases

Connect to SQL Server, Azure SQL, and other databases to access structured data.

## Cloud Services

Integrate with cloud services like Salesforce, Google Analytics, and Azure Blob Storage to leverage real-time data.

# Building interactive dashboards and reports



# Dashboard

Create a central hub for your key performance indicators (KPIs) and visualizations, providing a quick overview of the data.



# Report

Develop detailed reports with multiple pages that drill down into specific data points and analysis.



# Visualizing data effectively using Power BI

1

## Bar Charts

Compare categories or groups of data visually by displaying bars of different lengths.

2

## Line Charts

Show trends and patterns over time by connecting data points with lines.

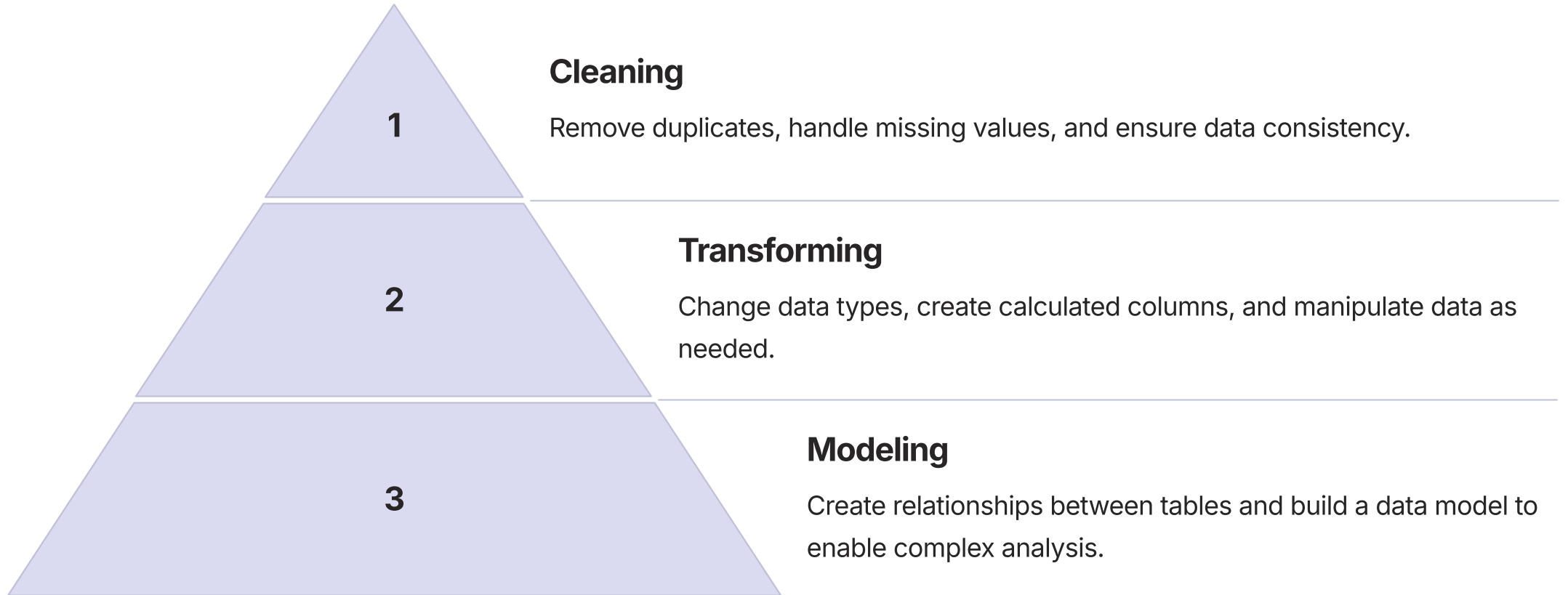
3

## Pie Charts

Display proportions or parts of a whole as slices of a circle.



# Applying data transformations and modeling





# Sharing and collaborating on Power BI content

1

## **Publish to Power BI Service**

Upload your dashboards and reports to the Power BI Service for easy access and sharing.

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2

## **Share with colleagues**

Grant access to specific users or groups to allow collaboration and data exploration.

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3

## **Embed in websites**

Embed your dashboards and reports into websites and applications for wider audience reach.

# Power BI best practices and optimization tips

## 1

### **Clear Visualizations**

Use simple and intuitive charts, ensuring clarity and easy interpretation.

## 2

### **Data Accuracy**

Validate and clean your data to ensure its accuracy and reliability for analysis.

## 3

### **Effective Storytelling**

Use narratives and insights to communicate data effectively and drive action.

