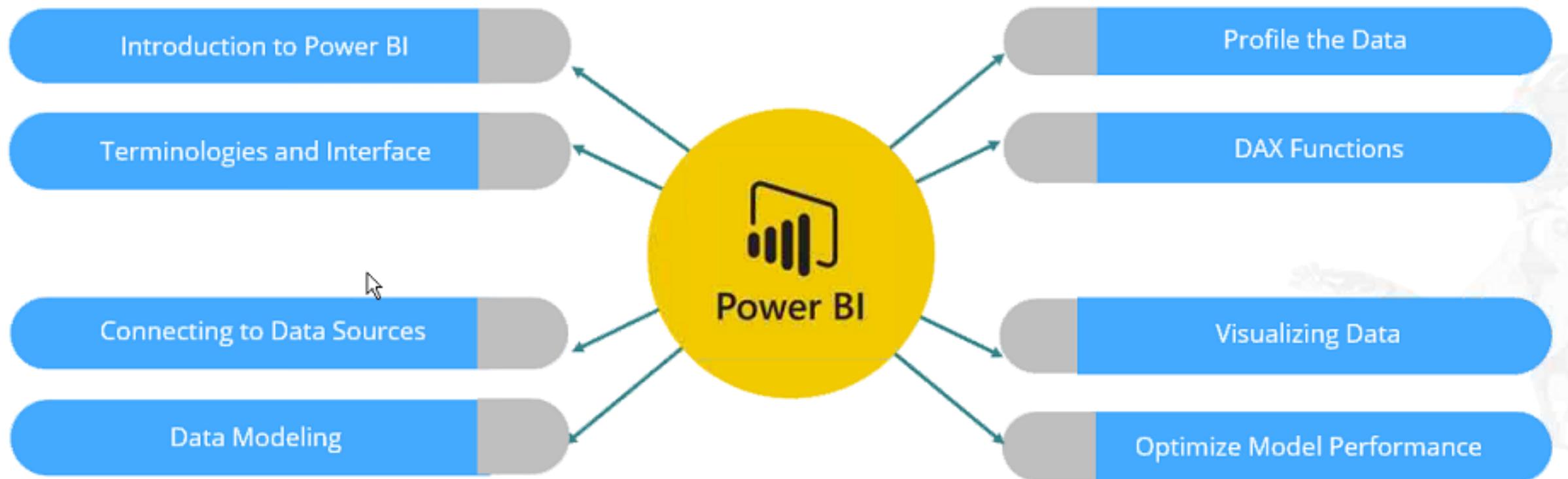


Course Outline



DATA AND
ARTIFICIAL INTELLIGENCE

**Data Manipulation and Reporting
with Power BI**

DATA AND
ARTIFICIAL INTELLIGENCE



Introduction to Power BI

Learning Objectives

By the end of this lesson, you will be able to:

- Understand the concepts of business intelligence and Power BI
- Understand the architecture of Power BI
- Identify the different offerings by Power BI
- Know the benefits and applications of Power BI
- Install a Power BI desktop



What Is Business Intelligence?

- ✓ Capability to make intelligent business decisions
- ✓ Makes information discovery simple
- ✓ Helps you in analysis of the data
- ✓ Enables you to send the right information to the right people
- ✓ Provides data insights to everyone from any type / size / source of data

Why Power BI?

- You can create a report and perform data manipulation easily.
- Power BI provides a 360-degree view to visualize the data and publish the resulting content.
- It supports natural query language.
- It allows you to fetch data from 60 different data sources.
- You can connect your data live or save it on your local machine.
- The product updates happen frequently and regularly.
- Power BI offers a simple learning curve.
- Performance of Power BI is much better as compared to the other BI tools in market.

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Power BI Architecture, Components, and Products

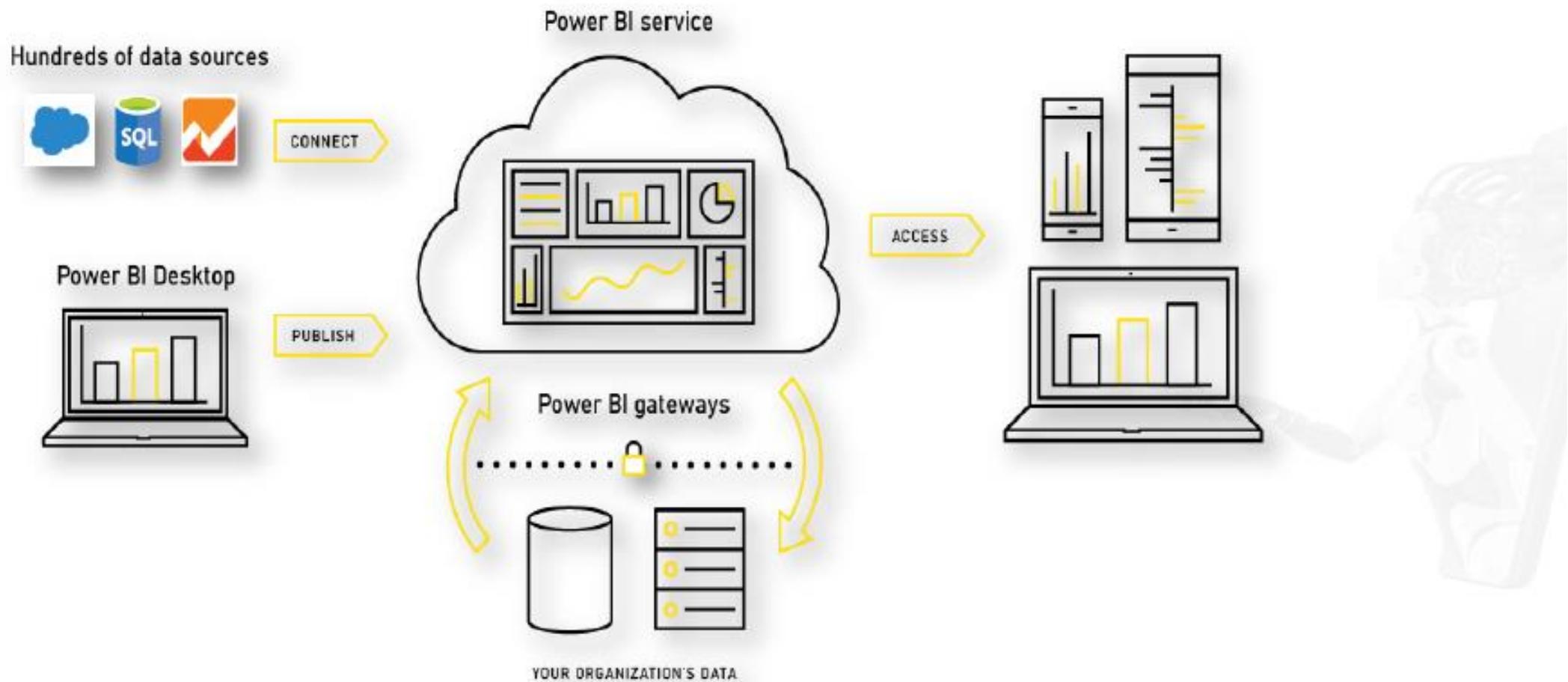
Power BI Offerings

You can choose from four different products that suit your need. They are:

- Power BI
- Power BI Desktop
- Power BI Mobile
- Power BI Embedded

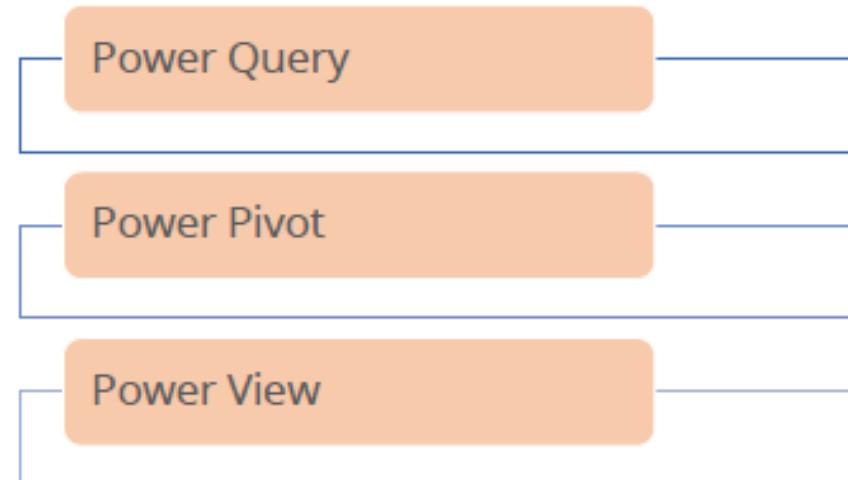


Power BI Desktop Architecture



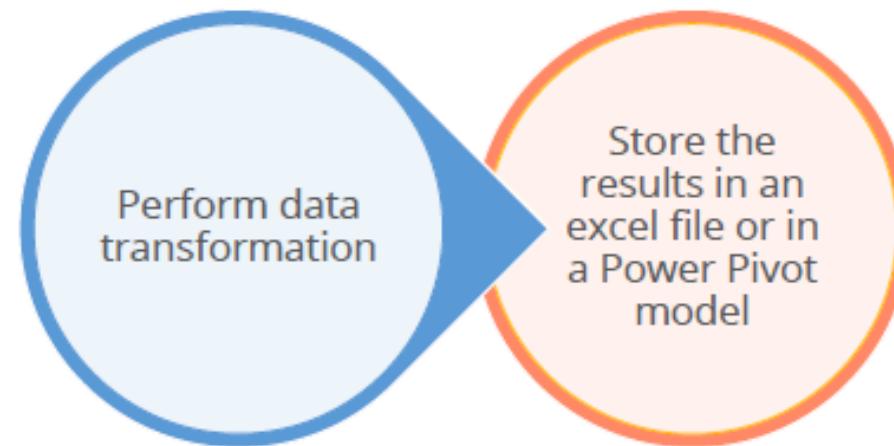
Power BI Desktop Components

Power BI Desktop uses three components to perform different operations. They are:



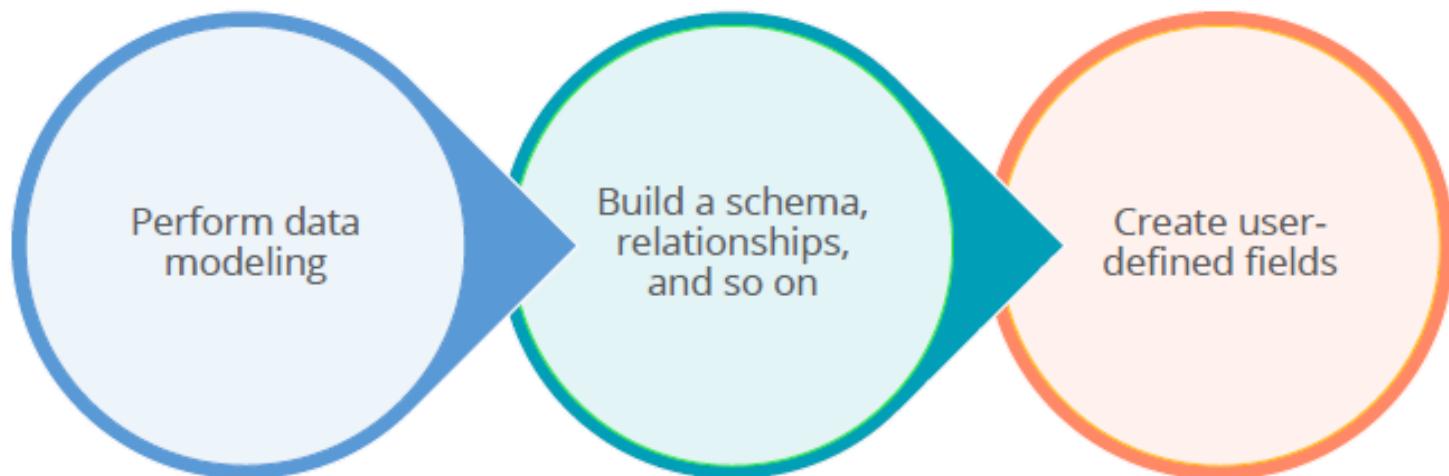
Power BI Desktop Components—Power Query

Power BI Desktop uses Power Query to:



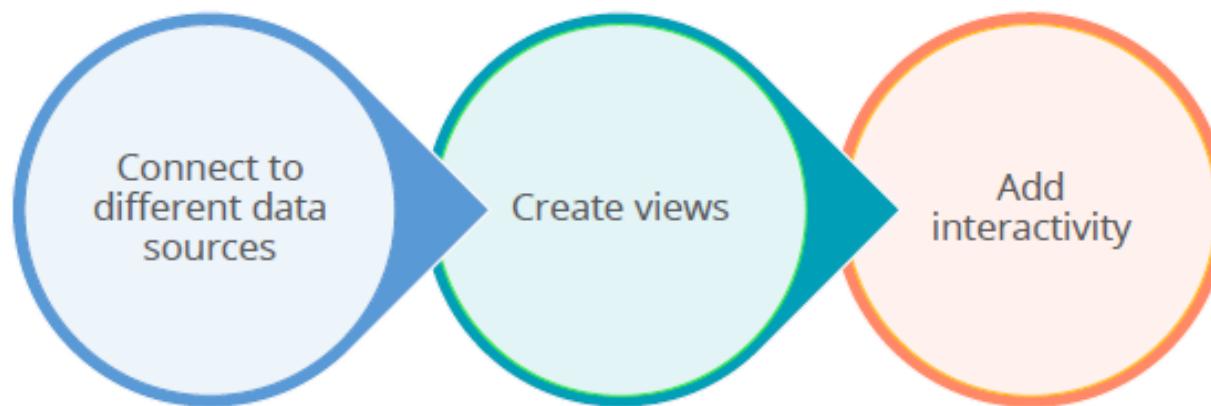
Power BI Desktop Components—Power Pivot

With Power Pivot you can:



Power BI Desktop Components— Power View

Power View allows you to:



Minimum Hardware Requirements

Before you install Power BI Desktop, your system should meet the minimum hardware requirements. They are:

- Windows 7 / Windows Server 2008 R2, or later
- .NET 4.5
- Internet Explorer 9 or later
- 1 gigahertz (GHz) or faster x86- or x64-bit processor
- At least 1440x900 or 1600x900 (16:9)
- Minimum 1 GB space should be available, Recommended available space should be 1.5 GB or more



Steps to Install Power BI Desktop

Here are the steps to install Power BI Desktop on your system.

Open a browser and navigate to the Power BI page.

Click on the Download Free button and enter the required details.

Click the Get Started button.

Locate the installed file and run it.

Follow the on-screen instructions.



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Knowledge Check

**Knowledge
Check**

1

Is it possible to publish a dashboard using Power BI Desktop?

- a. Yes
- b. No



The correct answer is **b**

The Power BI Desktop application only allows you to build and publish reports.

<https://powerbi.microsoft.com/>

USE BIG DATA IN POWER BI

Sales by Region

Quantity by month

Profit by country

Product Category