





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





Overview of Business Intelligence and Power BI

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

What is Business Intelligence?

- Power BI is a self-service cloud based BI tool, which can be used for reporting and data analysis from a variety of data sources.
- Power BI provides a simple and user-friendly drag and drop interface so that users can work with it and get benefits from it.
- Power BI produces highly interactive and beautiful graphs, dashboards, and reports in a matter of minutes.

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.



Power BI Architecture, Components, and Products

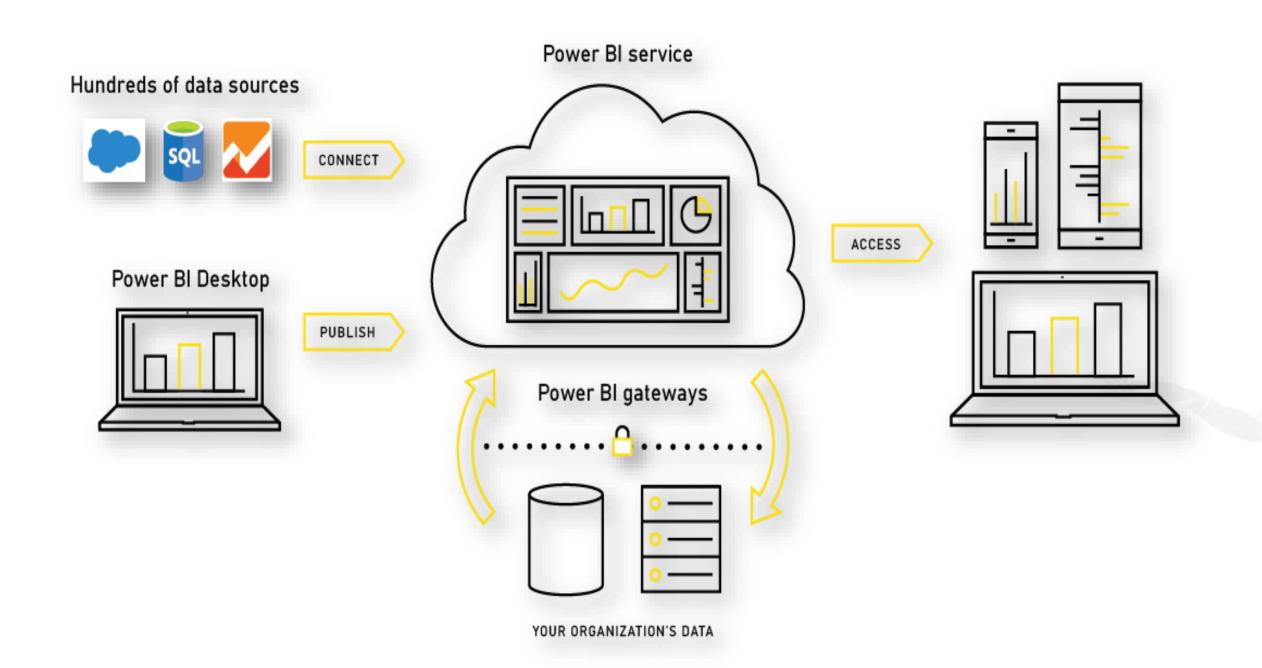


Power BI Offerings

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

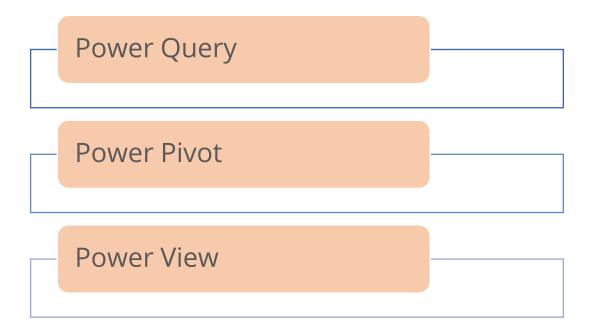
Power BI	
Power BI Desktop	
Power BI Mobile	
Power BI Embedded	

Power BI Desktop Architecture



Power BI Desktop Components

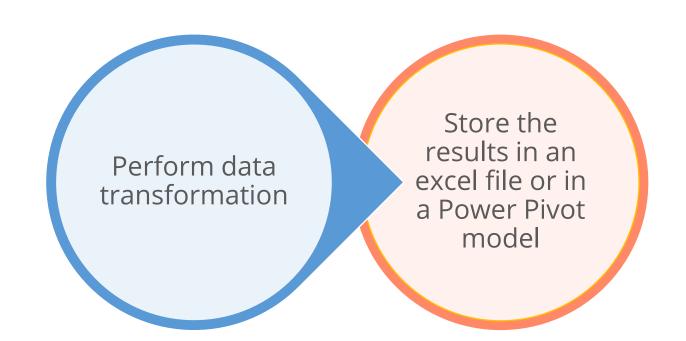
Power BI Desktop uses three components to perform different operations. They are:





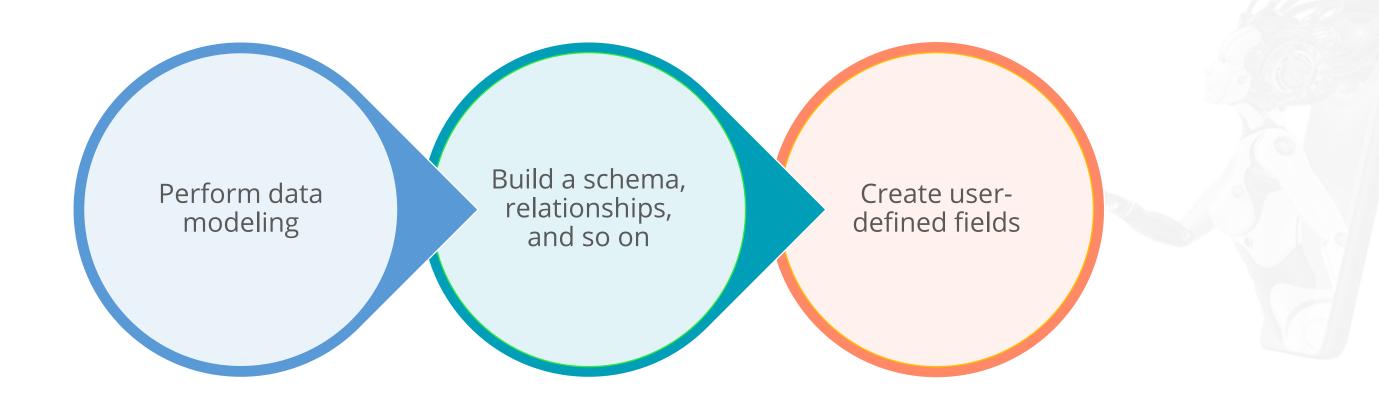
Power BI Desktop Components—Power Query

Power BI Desktop uses Power Query to:



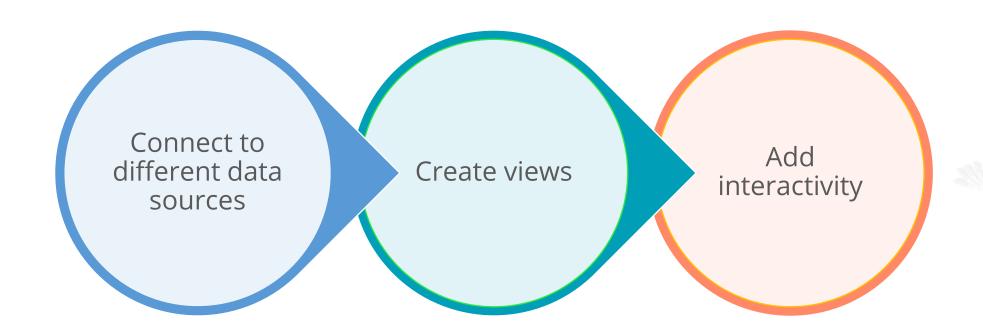
Power BI Desktop Components—Power Pivot

With Power Pivot you can:



Power BI Desktop Components— Power View

Power View allows you to:





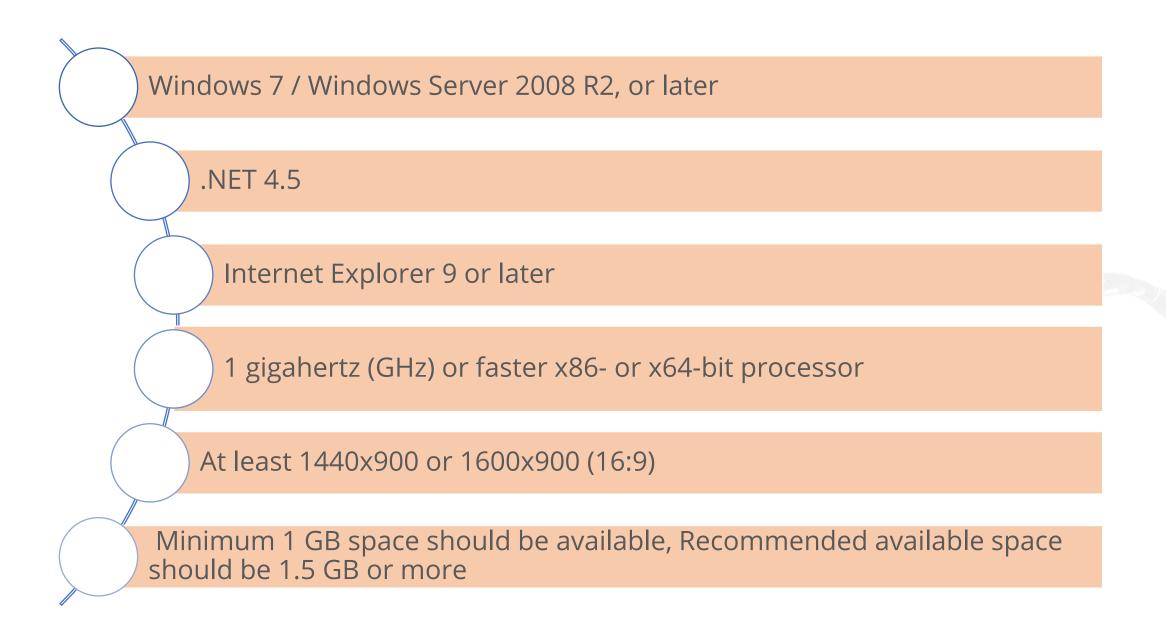
System Requirements and Installation



Minimum Hardware Requirements

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

They are:



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 Bl 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.

DATA AND ARTIFICIAL INTELLIGENCE



Knowledge Check



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

- a. Yes
- b. No





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.



2

Which type of device can be used to access a dashboard designed using a web layout?

- a. Laptop
- b. Mobile device
- c. Laptop and mobile device
- d. None





2

Which type of device can be used to access a dashboard designed using a web layout?

- a. Laptop
- b. Mobile device
- c. Laptop and mobile device
- d. None



The correct answer is c

Both mobile device and laptop can be used to access a dashboard designed using a web layout.



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Key Takeaways

Now, you are able to:

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