



Data Manipulation and Reporting with Power BI



Module1 – Introduction to Power BI

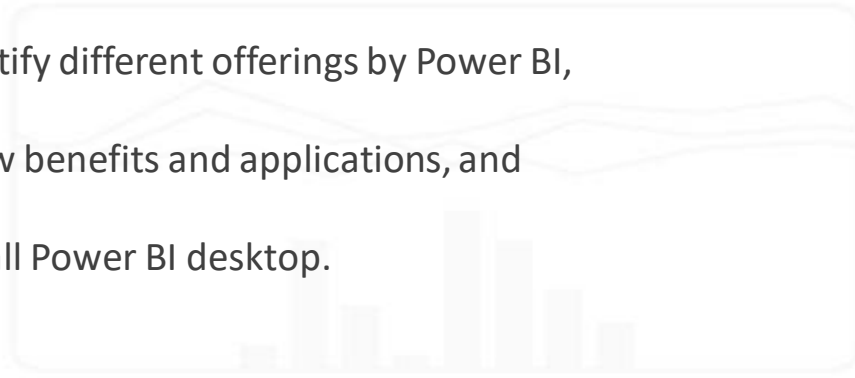




Module Objectives

In this module, you will:

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





Overview of Business Intelligence and Power BI

What is Business Intelligence?

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

Introduction to Power BI

- 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 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 live to your data, or save it on 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 other BI tools in markets.



Power BI Architecture, Components, and Products

Power BI Offerings

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

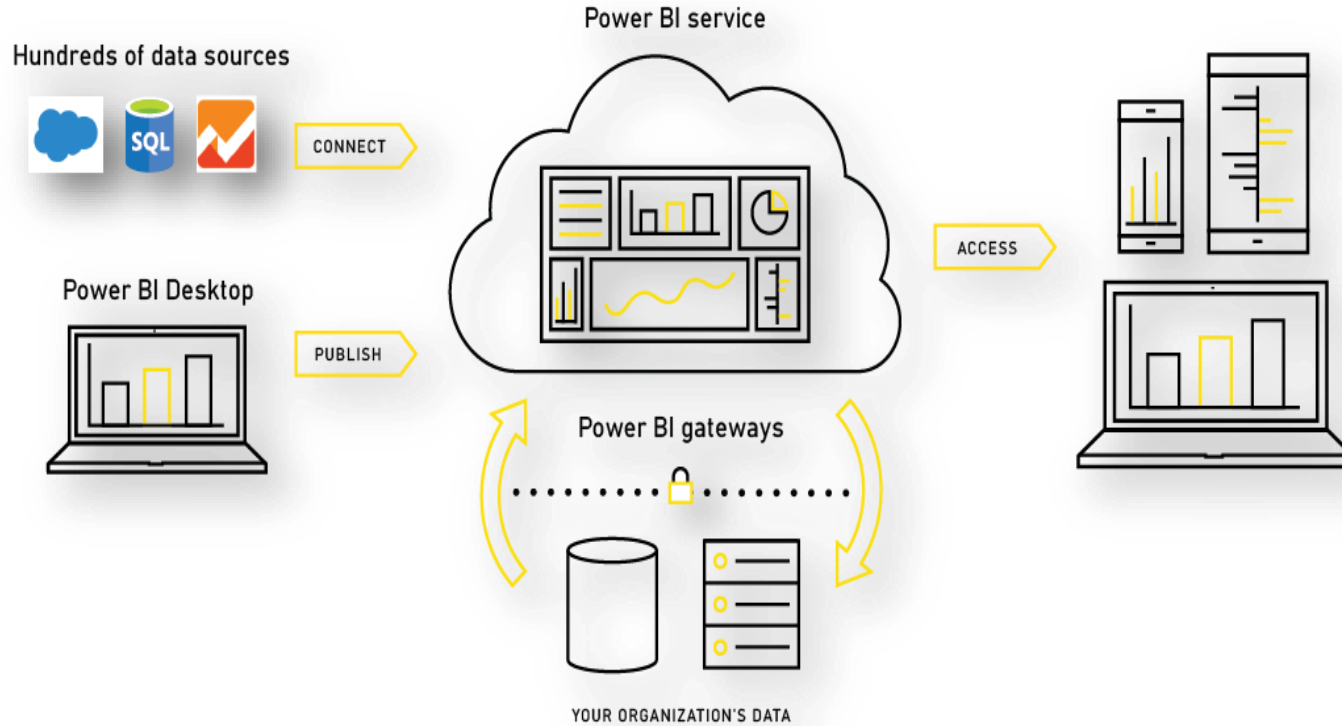
Power BI Desktop

Power BI Service

Power BI Mobile

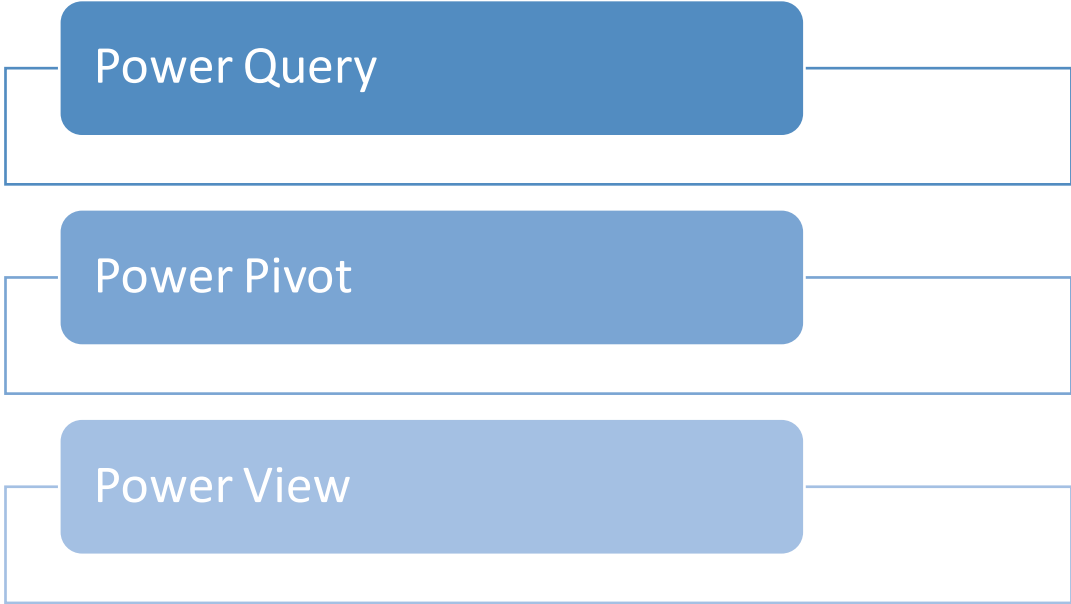
Power BI Embedded

Power BI Desktop Architecture



Power BI Desktop Components

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



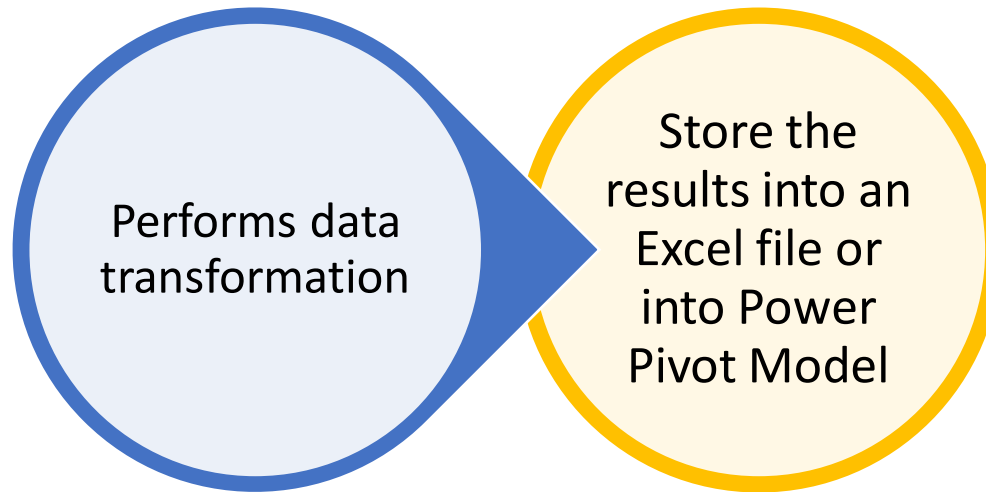
Power Query

Power Pivot

Power View

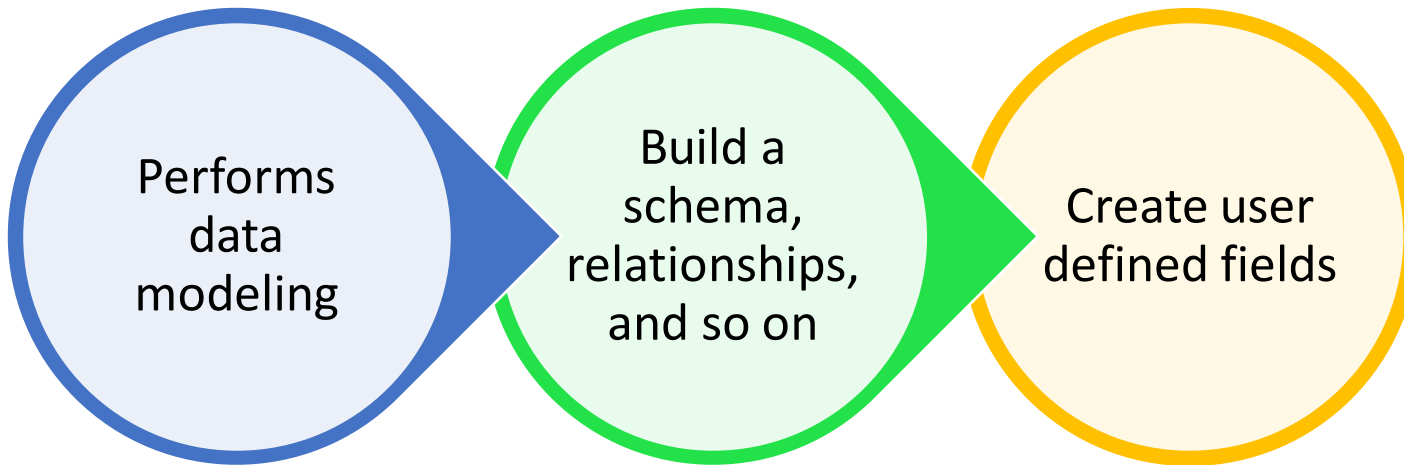
Power BI Desktop Components—Power Query

- Power BI Desktop uses power query to:



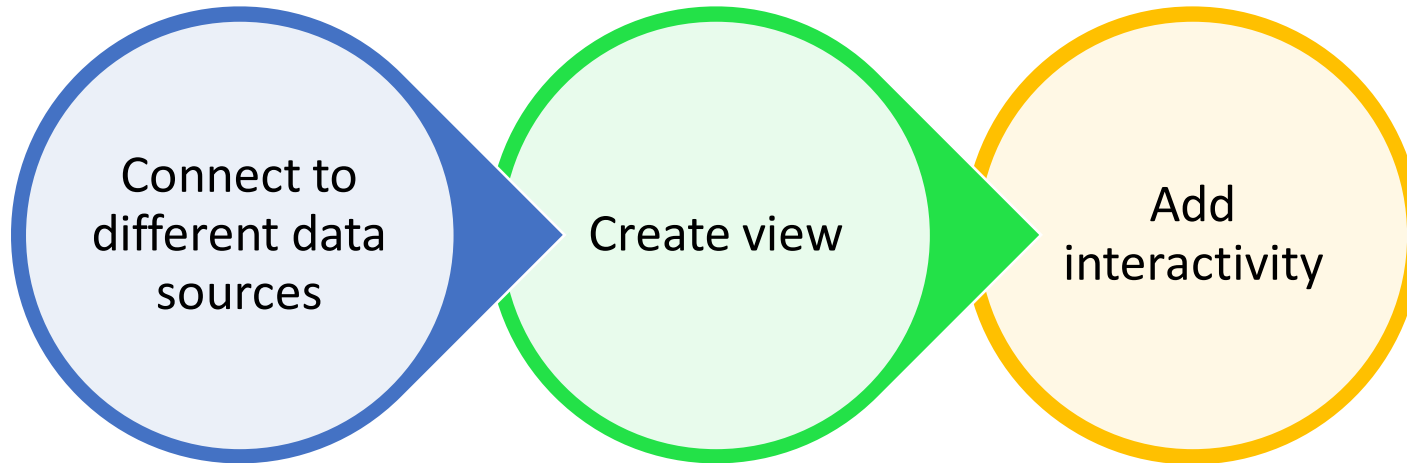
Power BI Desktop Components—Power Pivot

- With Power Pivot you can:



Power BI Desktop Components— Power View

- Power view allow you to:

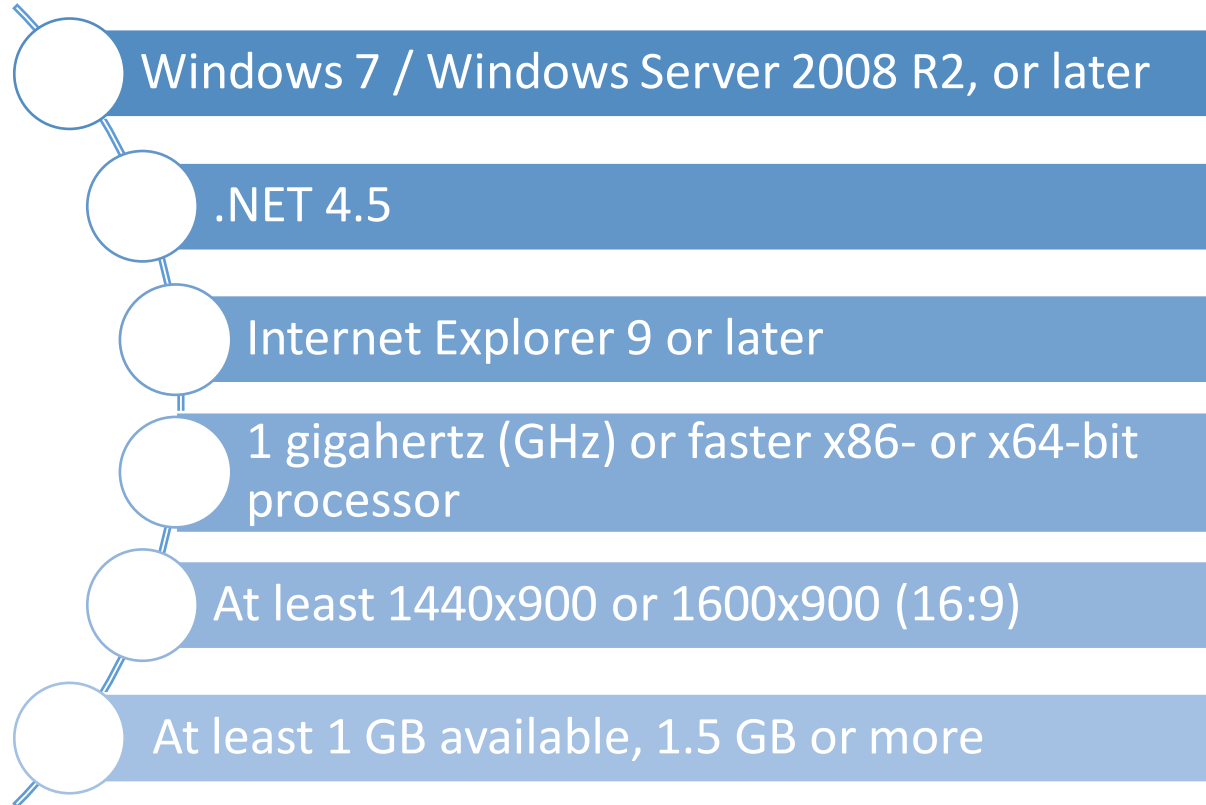




System Requirements and Installation

Minimum Hardware Requirements

- Before you install Power BI Desktop, your machine meets the minimum hardware requirements. They are:



Steps to Install Power BI Desktop

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

Open a browser and navigate to Power BI page.



Click **Download Free** and enter the required details.



Click the **Get Started** button



Locate the Windows installed file and run it.



Follow the on screen instructions



Quiz

Quiz

1) Is it possible to publish a dashboard using PowerBI Desktop?

- Yes



- No

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

- Laptop

- Mobile device



- Laptop and Mobile device

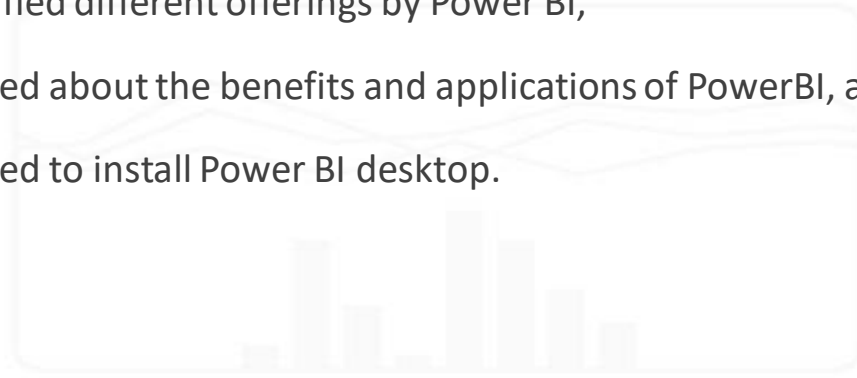
- None



Module Summary

In this module, you have,

- Understood what is business intelligence and Power BI,
- Understood the architecture of Power BI,
- Identified different offerings by Power BI,
- Learned about the benefits and applications of PowerBI, and
- Learned to install Power BI desktop.





End of Module1

