

# POWER BI

**Power BI** is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights. Your data may be an Excel spreadsheet, or a collection of cloud-based and on-premises hybrid data warehouses. Power BI lets you easily connect to your data sources, visualize and discover what's important, and share that with anyone or everyone you want.

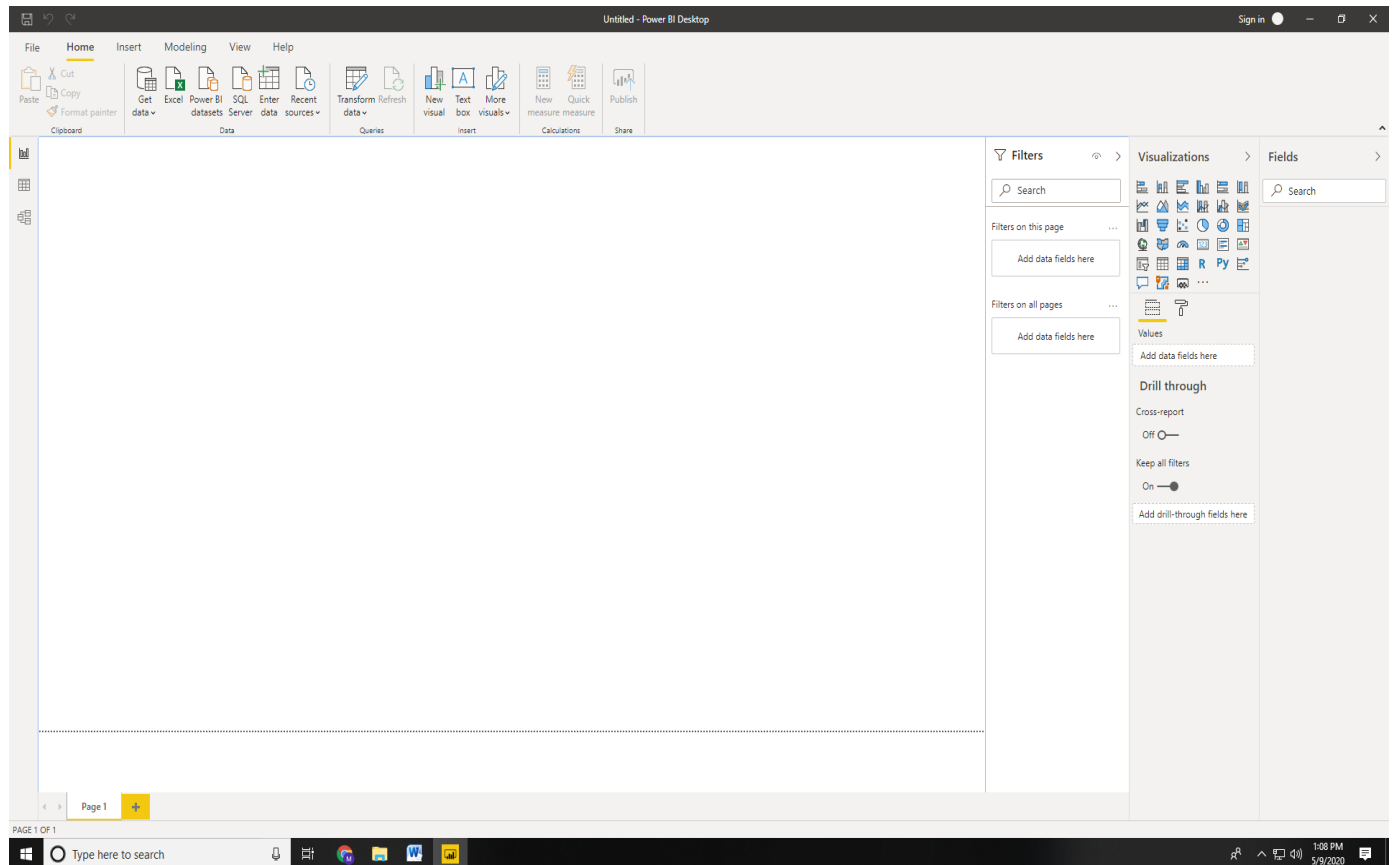
## The Parts of Power BI

Power BI consists of:

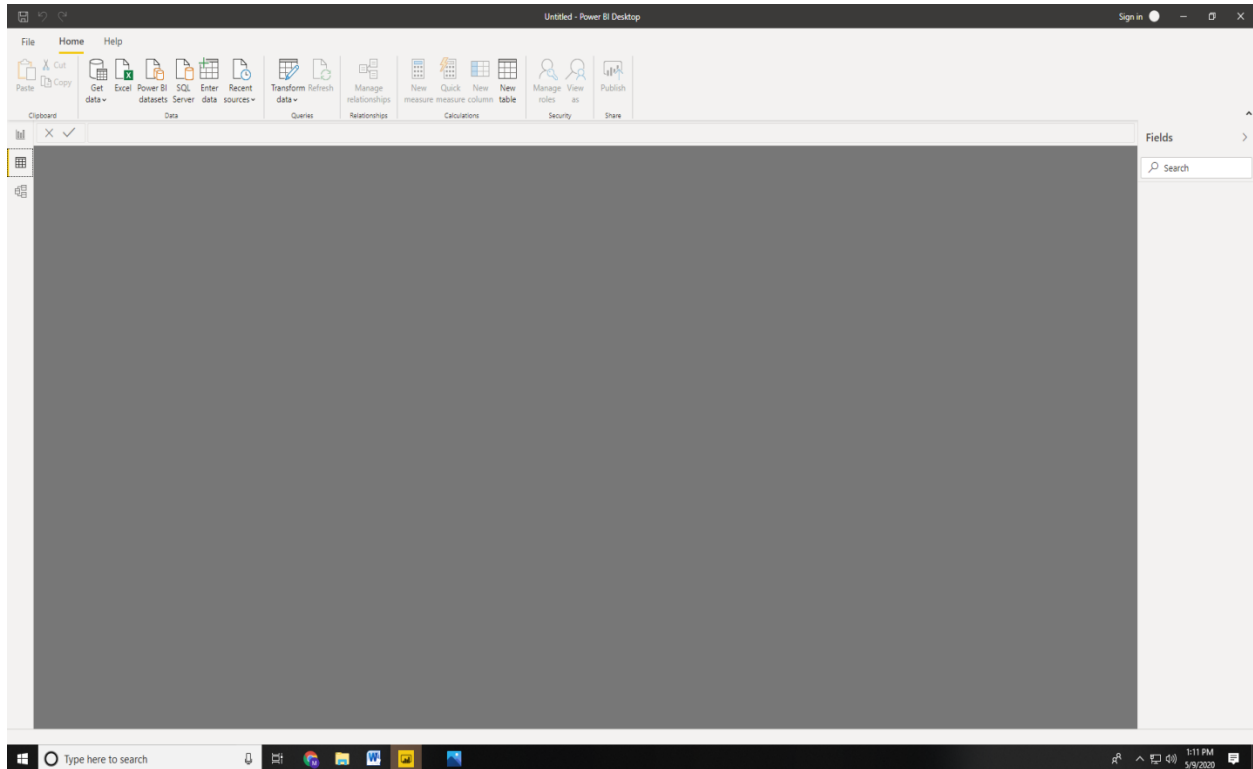
- A Windows desktop application called **Power BI Desktop**.
- An online SaaS (*Software as a Service*) service called the **Power BI service**.
- Power BI **mobile apps** for Windows, iOS, and Android devices.

# SCREENSHOT WHEN POWER BI DESKTOP STARTS

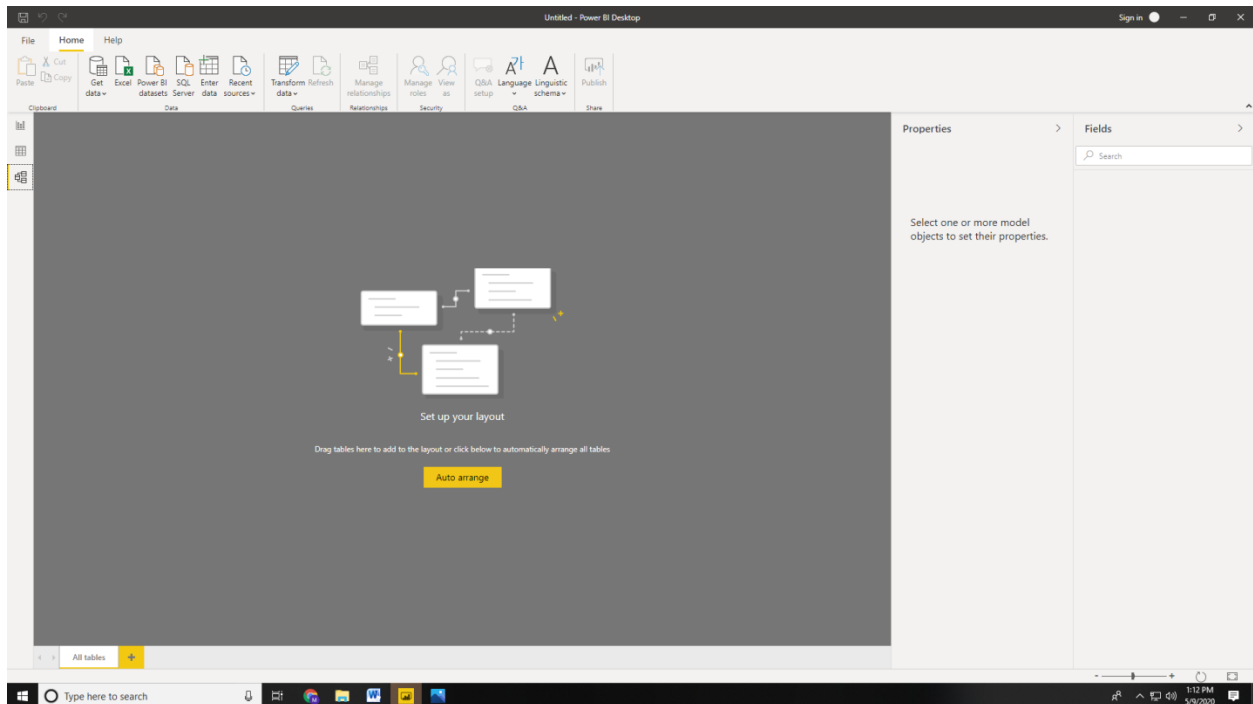
## 1.REPORT VIEW



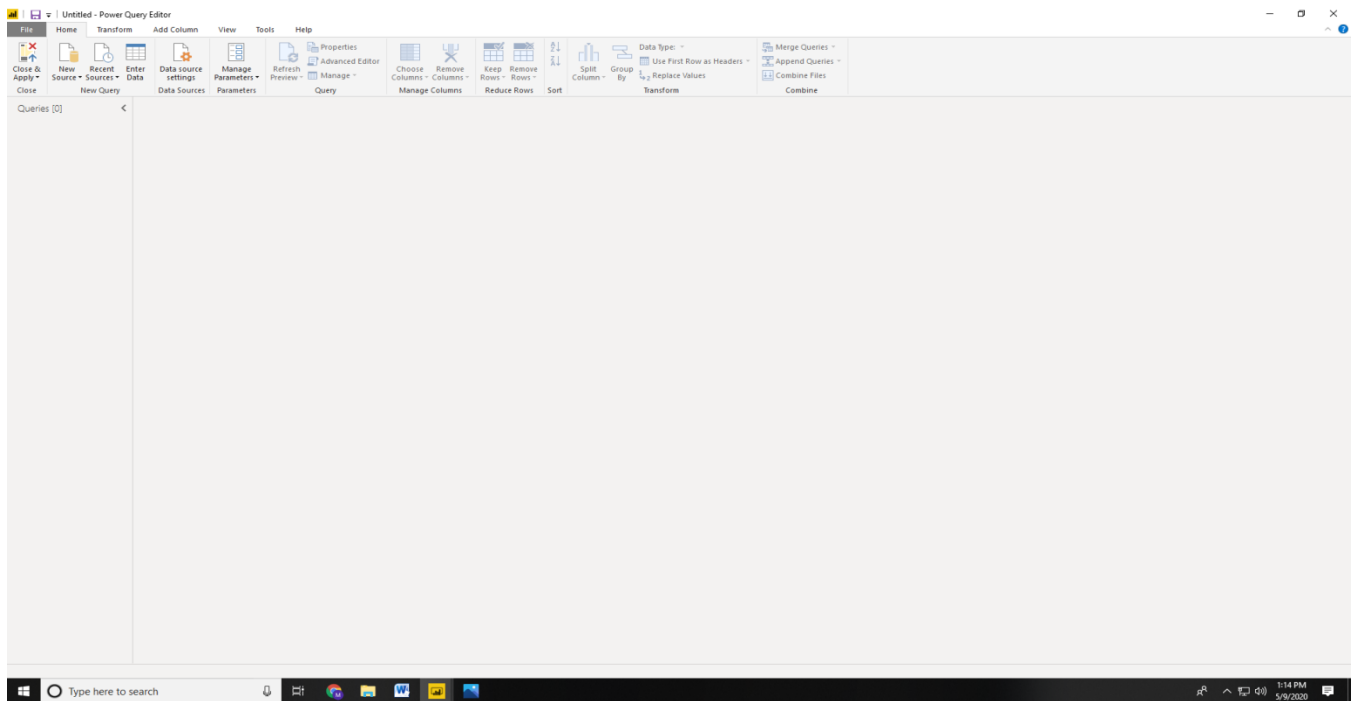
## 2. DATA VIEW



## 3. MODEL VIEW



## 4. POWER QUERY EDITOR



## 5. ADVANCE EDITOR



## POWER BI DESKTOP

*Power BI Desktop* is a free application you install on your local computer that lets you connect to, transform, and visualize your data. With Power BI Desktop, you can connect to multiple different sources of data, and combine them (often called *modeling*) into a data model. This data model lets you build visuals, and collections of visuals you can share as reports, with other people inside your organization. Most users who work on business intelligence projects use Power BI Desktop to create reports, and then use the *Power BI service* to share their reports with others.

The most common uses for Power BI Desktop are as follows:

- Connect to data
- Transform and clean that data, to create a data model
- Create visuals, such as charts or graphs, that provide visual representations of the data
- Create reports that are collections of visuals, on one or more report pages
- Share reports with others by using the Power BI service

People most often responsible for such tasks are often considered *data analysts* (sometimes referred to as *analysts*) or business intelligence professionals (often referred to as *report creators*). However, many people who don't consider themselves an analyst or a report creator use Power BI Desktop to create compelling reports, or to pull data from various sources and build data models, which they can share with their coworkers and organizations.

There are three views available in Power BI Desktop, which you select on the left side of the canvas. The views, shown in the order they appear, are as follows:

- **Report:** In this view, you create reports and visuals, where most of your creation time is spent.
- **Data:** In this view, you see the tables, measures, and other data used in the data model associated with your report, and transform the data for best use in the report's model.
- **Model:** In this view, you see and manage the relationships among tables in your data model.

## POWER BI PRO

Power BI Pro is an individual user license that lets users read and interact with reports and dashboards that others have published to the Power BI service. Users with this license type can share content and collaborate with other Power BI Pro users. Only Power BI Pro users can publish or share content with other users or consume content that's created by others, unless a Power BI Premium capacity hosts that content.

Pro licence holders can also integrate with Office 365 Groups and Teams, use collaborative workspaces and set up email subscriptions to Reports and Dashboards. Often called a "Creator" or "Author" licence, the Pro licence is the most common Power BI licence and in small to medium sized enterprises it is common to have a Pro licence for each user that wants to use Power BI.

A breakdown of Power BI Pro's differences against Power BI Desktop:

- Ability to embed Power BI visuals into apps (PowerApps, SharePoint, Teams, etc)
- Native integration with other Microsoft solutions (Azure Data Services)
- Share datasets, dashboards and reports with other Power BI Pro users
- Can create App Workspaces and peer-to-peer sharing

## Best for

- Medium to larger businesses
- Corporations with big data
- Multi-site businesses

## POWER BI PREMIUM

The Power BI Premium licence is not a per-user licence like a Free or Pro Licence. Instead a Premium licence provides a dedicated capacity for all users in the organisation. This dedicated capacity, a “Premium Workspace” can be used to host large datasets, up to 50GB in size and offers a total of 100TB of data storage.

It allows Reports and Dashboards to be wrapped up in an “app” and shared with users. These users then only need a free licence to view the app. It also allows Reports and Dashboards on a Premium Workspace to be shared with users having a free licence.

Multiple workspaces can be marked as “Premium” and each can be used to create apps or share with free licence users. A Power BI Premium licence is very much a “consumer” licence, allowing users with only a free licence the ability to view and interact with Reports and Dashboards hosted on a Premium workspace. To create these reports and dashboards in the first place you need a “Pro” licence.

You can use Power BI Premium to get dedicated and enhanced resources for your organization, so users in your organization can use the Power BI service with better performance and responsiveness. For example, with a Power BI Premium subscription, you and your organization's users get access to:

- Greater scale and performance
- Flexibility to license by capacity
- Unify self-service and enterprise BI
- Extend on-premises BI with Power BI Report Server
- Support for data residency by region (Multi-Geo)
- Share data with anyone without purchasing a per-user license

FEATURE	POWER BI FREE	POWER BI PRO	POWER BI PREMIUM
Cost	Free	£7.50/u/m	> £3100/m
Data Capacity Limit	10 GB	10 GB	100 TB
Maximum size of a DataModel	1 GB	1 GB	12 GB
Create and View Dashboards & Reports	Y	Y	VIEW ONLY
Share Dashboards & reports with other BI Users	N	Y	
Power BI Desktop	Y	Y	
Access via mobile Devices	Y	Y	
Import from Excel, CSV, and Power BI desktop Files	Y	Y	
Publish to Web	Y	Y	
Publish to Premium	N	Y	
Power BI Report Server (On Premise Server)	N	PREMIUM	Y
Scheduled Refresh	8 PER DAY	8 PER DAY	48 PER DAY
Streaming Data (per hour)	1M ROWS/HR	1M ROWS/HR	1 M ROWS/HR
Live Data Sources	N	Y	
Create & Publish Apps	N	Y	N
Consume Apps	N	Y	Y