Assignment 1

Q Comparison of power bi dektop , power bi pro and power bi premium

Power bi Desktop

Power BI Desktop is the free version of Power BI that you can install on your local computer as a program, and acts as a companion desktop application to the full version of Power BI.We can consolidate our data sources, create yur own reports and conduct our own analysis

Features

- We can connect and import data from over 70 cloud-based and on-premises sources
- The same rich visualisations and filters from Power BI Pro are included here also
- Auto-detect that finds and creates data relationships between tables and formats
- Export our reports to CSV, Microsoft Excel, Microsoft PowerPoint and PDF
- Python support
- Save, upload and publish our reports to the Web.
- Storage limit of 10 GB per user.

Limitations

- Can’t share created reports with non-Power BI Pro users
- No App Workspaces
- No API embedding
- No email subscriptions
- No peer-to-peer-sharing
- No support to analyse in Excel within Power BI Desktop

Power bi Pro

Power BI Pro is the full version of Power BI, complete with the ability to use Power BI can be used for both building dashboards and reports and unlimited viewing, sharing and consumption of our created reports (and reports shared by others). Sharing reports not possible by desktop version

Difference between Power bi desktop and Pro

- 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

Power BI Pro is licensed by individual user. For example, if our organisation has 20 people that need to full capabilities of self-service BI to create dashboards and reports, we need 20 licenses of Power BI Pro, which gives these users full access to creation of reports and unlimited consumption (viewing) of any created content.

Power bi Premium

Power BI Premium is the most expensive tier of Power BI currently available and very distinct from the other two versions available on the market.

On top of the features and functionality standard to all versions of the service, users of Power BI Premium get:

- Increased data capacity limits and maximum performance
- Access to one API surface
- Ability to embed Power BI visuals into apps (PowerApps, SharePoint, Teams, etc)
- Larger storage sizes for extended deployments
- Geo distribution, higher refresh rates, isolation, pin to memory, read-only replicas
- Power BI Report Server

Power BI Premium differs from the free version and Power BI pro in its licensing model, which only suits a specific size and type of organisation and business scenario. We can purchase Premium in a range of capacity sizes that offer different numbers of memory and virtual cores that can scale as our data analysis requirements change.

With Power BI Premium, we are licensing capacity to our datasets, dashboards and reports, not just licensing all users of that content. In other words, we are not buying individual licenses, we are buying them in bulk to allow a large number of your users to use Power BI to view reports. All of our content is stored in Premium and can then be viewed by as many users in our organisation as you want, without additional per-user costs**.**

USAGE OF Power bi PRO and PREMIUM

The choice between only having *either* Power BI Pro and Power BI Premium comes down to a comprehensive assessment of our total organisation size, identifying the amount of staff that need access to the full capabilities of Power BI Pro, and determining those users that only need to have access to view your dashboards and reports.

If we are a large company with more users that need to consume your reports than create them, Power BI Premium is the optimal choice, and you can purchase a lesser amount of Pro licenses for your self-service team.

Pro Version -

1. Max dataset size per user 1GB
2. Max refreshes allowed per day 8
3. Maximum storage allowed is 10 GB

Premium Version

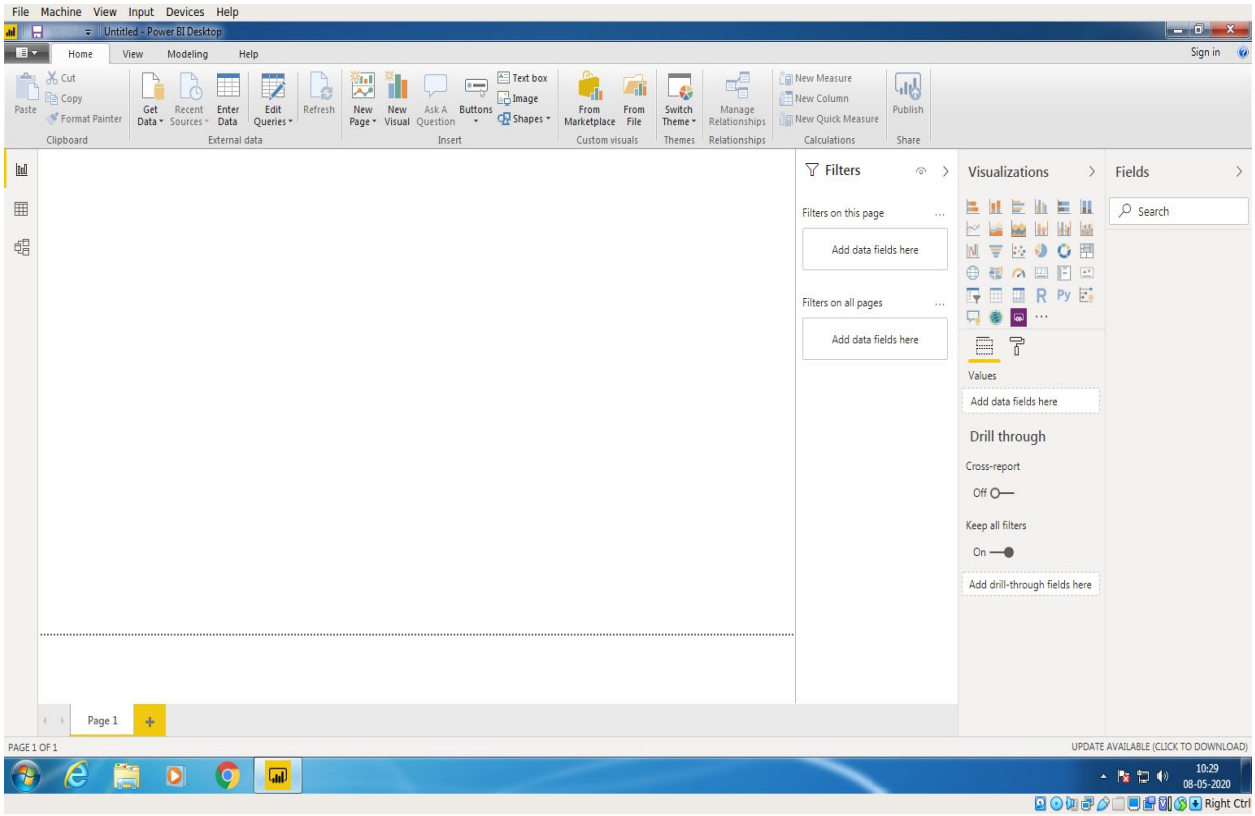
1. max dataset size per user 10 GB
2. Maximum refreshes allowed per day is 48
3. Maximum storage allowed is 100 TB

However, if you have more self-service BI users that need to be able to create reports than those who actually need to view them, Power BI Pro's individual licensing model on its own may be more cost-effective BI option.

Pricing

1. Pro Version 9.99 Dollars per month
2. Premium Version 4995 dollars per month

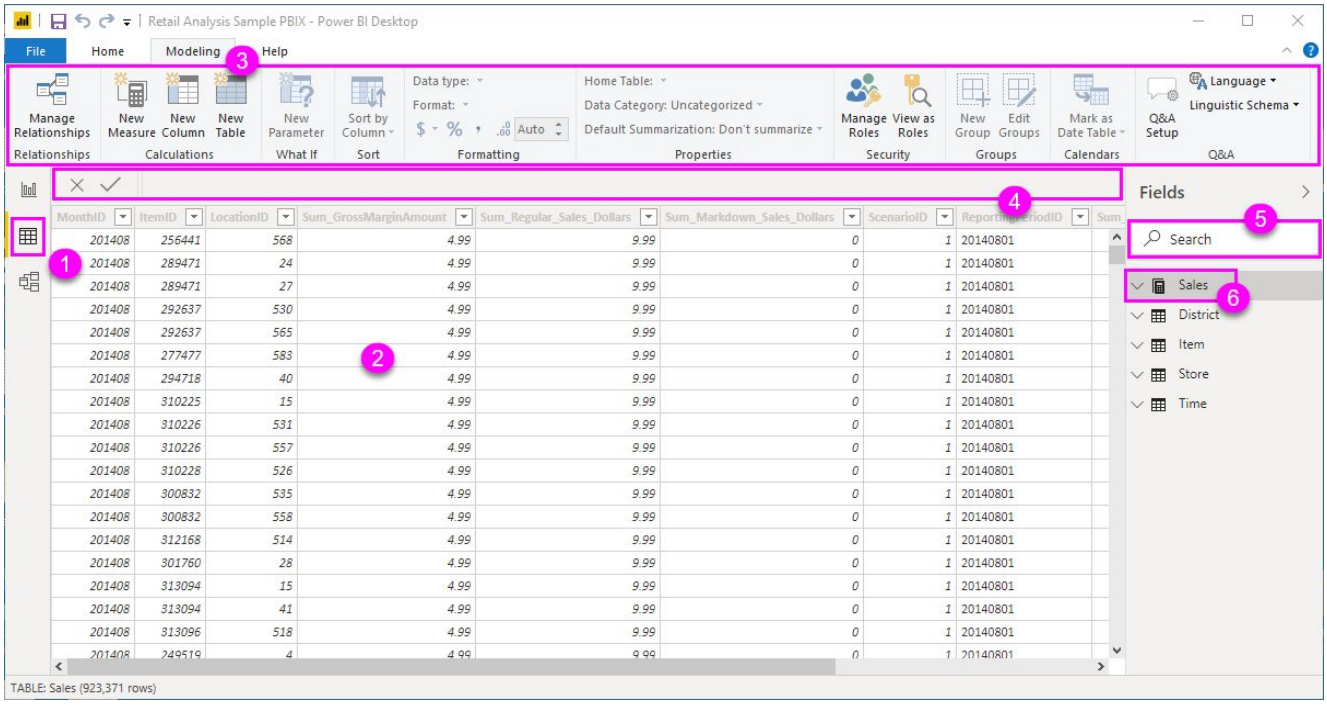
Installation



1 Report view

The view where we can visualize the graphs and charts which are obrtained by our analysis on the dataset

2 Data view



Data view helps you inspect, explore, and understand data in your *Power BI Desktop* model. It's different from how you view tables, columns, and data in *Power Query Editor*. With Data view, you're looking at your data *after* it has been loaded into the model.

1. **Data view icon**. Select this icon to enter Data view.

2. **Data Grid**. This area shows the selected table and all columns and rows in it. Columns hidden from *Report* view are greyed out. You can right-click on a column for options.

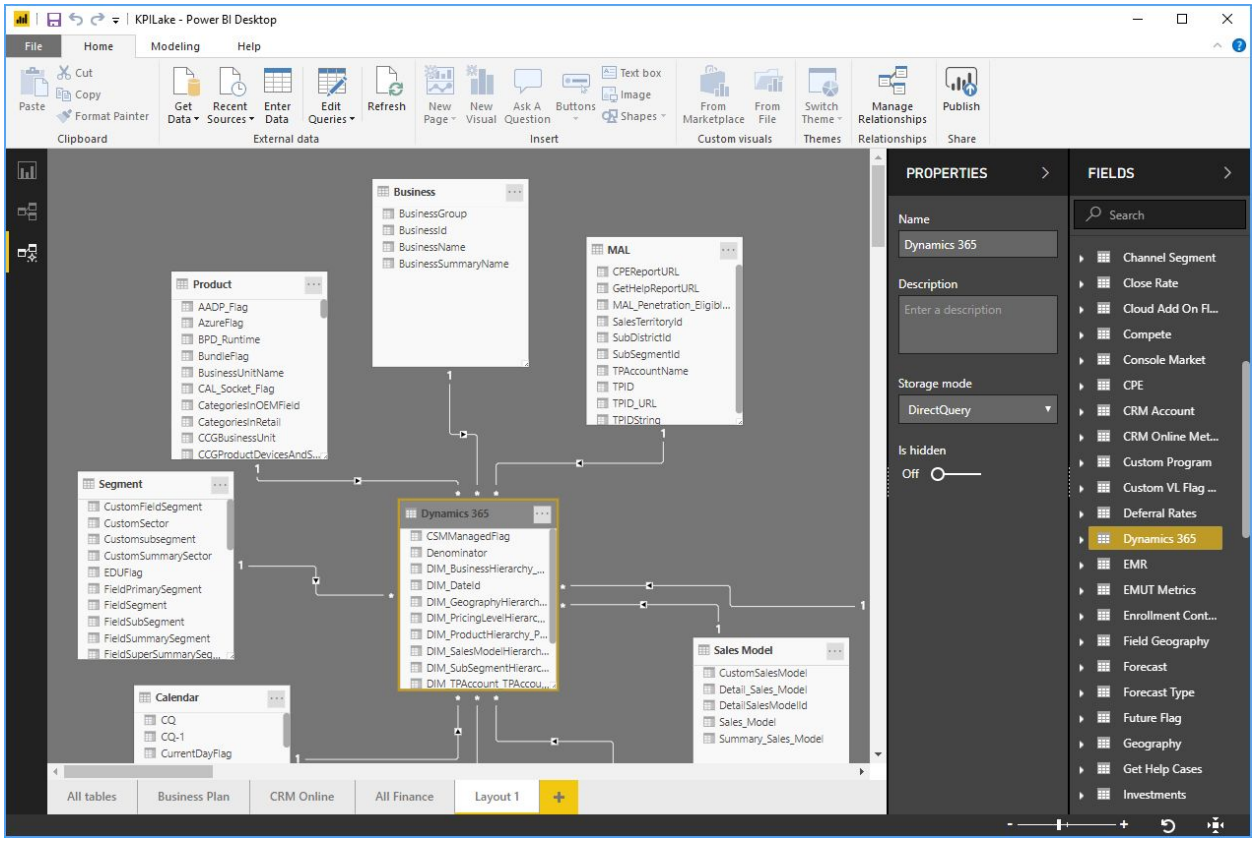
3. **Modeling ribbon**. Here you can manage relationships, create calculations, change data type, format, data category for a column.

4. **Formula bar**. Enter Data Analysis Expression (DAX) formulas for Measures and Calculated columns.

5. **Search**. Search for a table or column in your model.

6. **Fields list**. Select a table or column to view in the data grid.

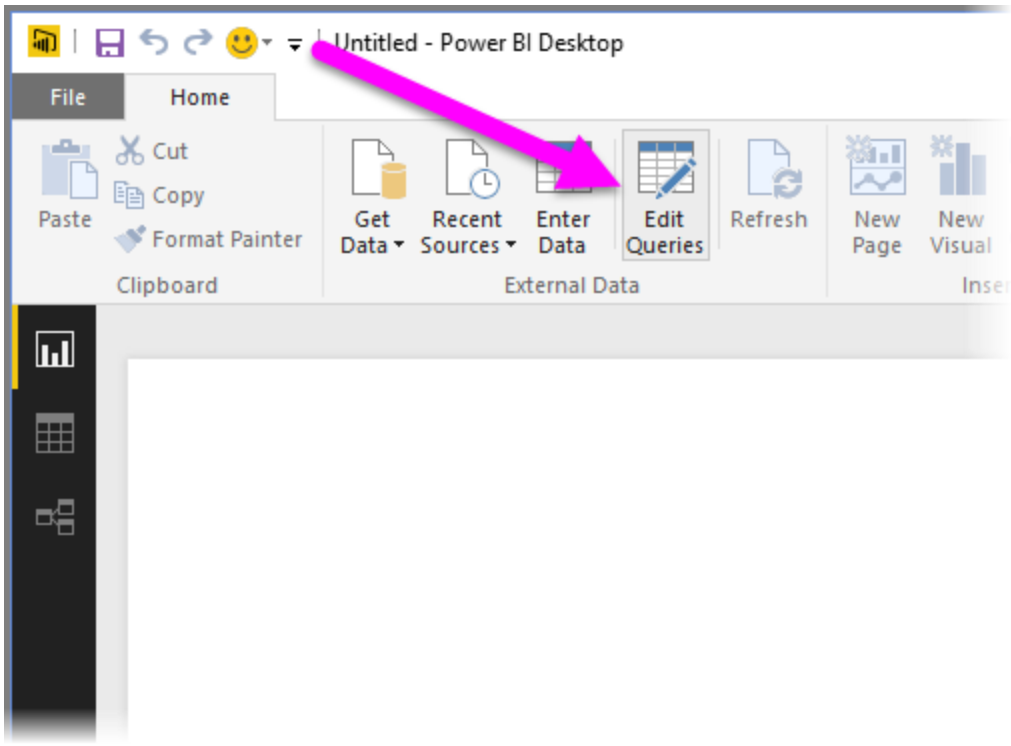
3 Model View



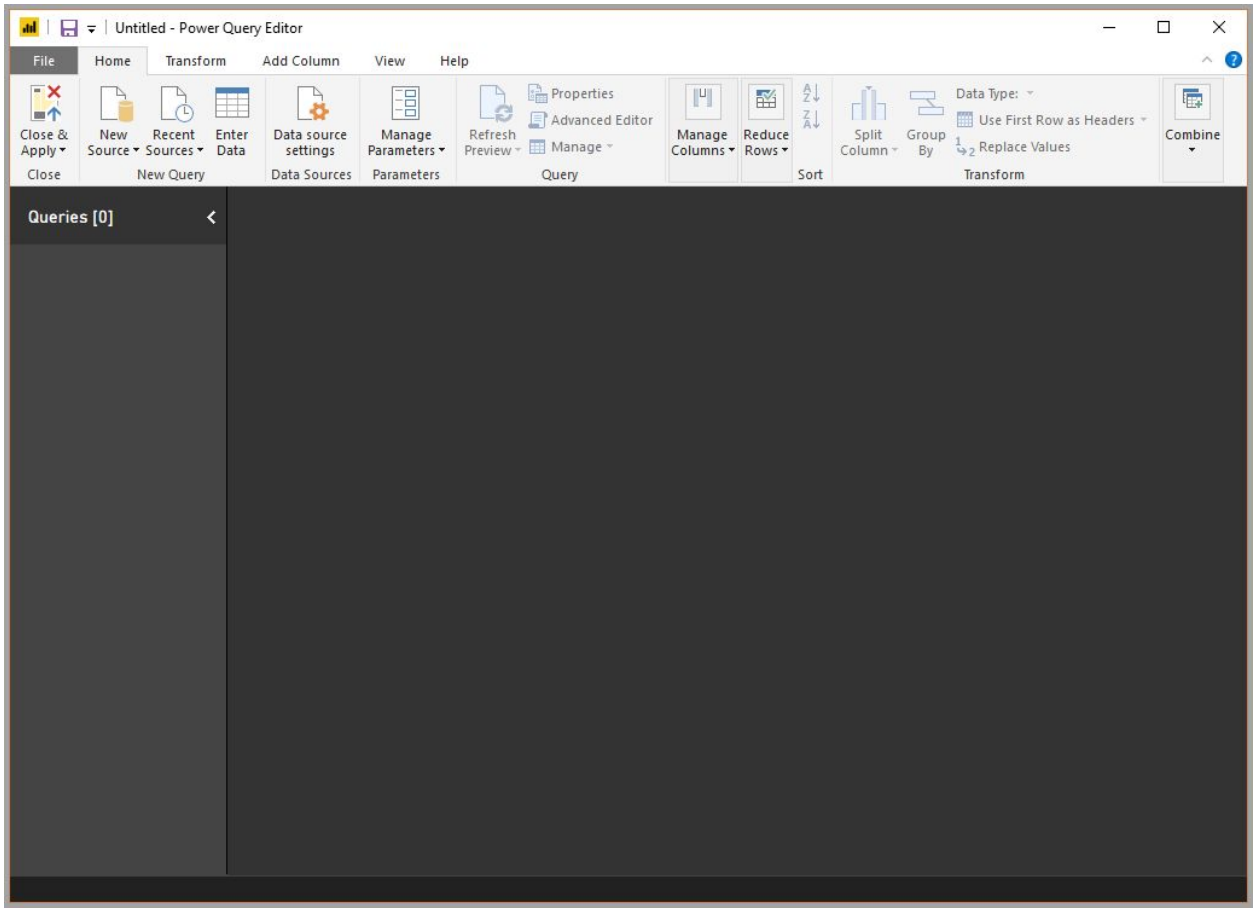
- Using Modeling view you can create diagrams of your model which has the subset of the tables in your model. It makes your working easier with the complex datasets and helps provide a clearer view of the tables.
- Click the '+' sign next to the 'All tables' tab to create a new diagram as a subset of the tables.
- Drag the table from the Fields list onto the diagram surface. Right-click the table, and then select 'Add related tables' from the menu that appears.

4 Power query editor

With **Power Query** in **Power BI** you can connect to many different data sources, transform the data into the shape you want, and quickly be ready to create reports and insights. When using Power BI Desktop, **Power Query** functionality is provided in the **Power Query Editor**.



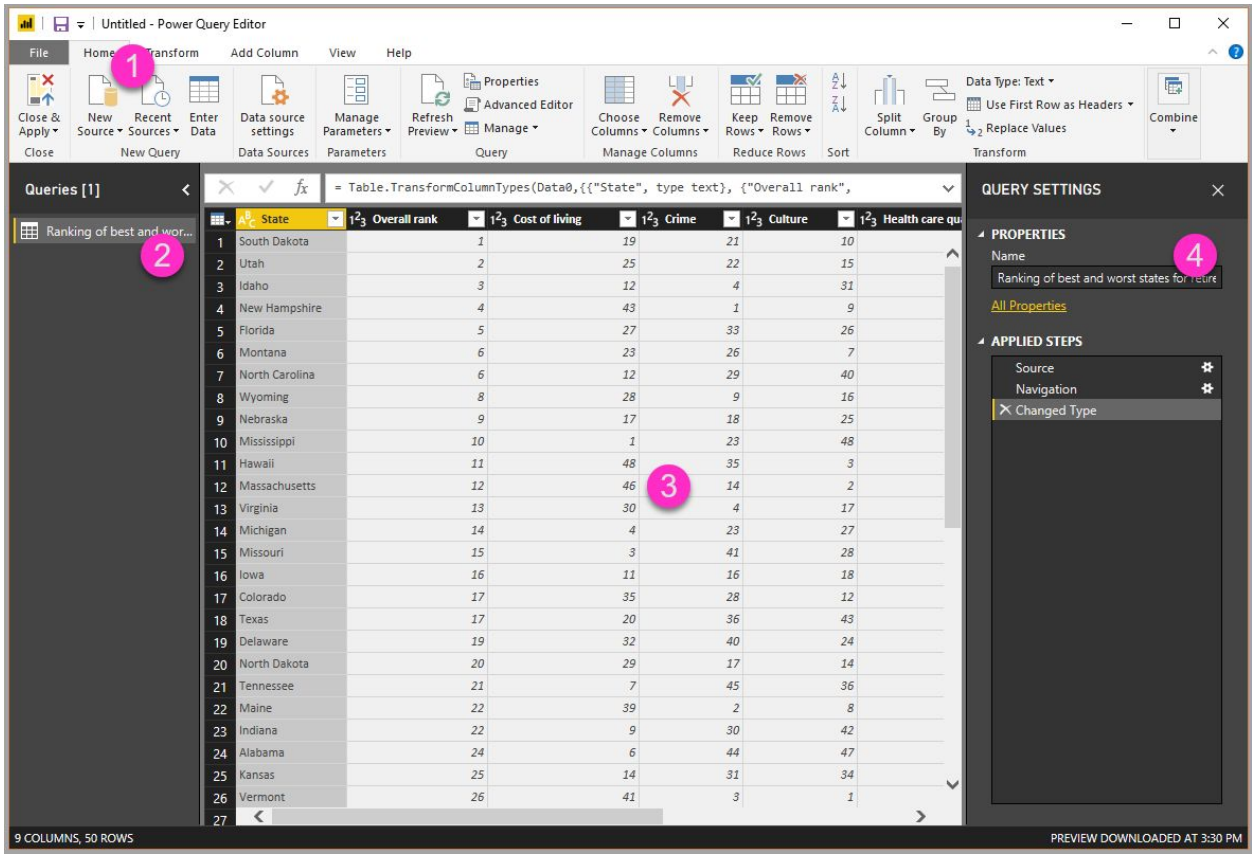
Once query is loaded query editor becomes interesting



Here's how **Power Query Editor** appears once a data connection is established:

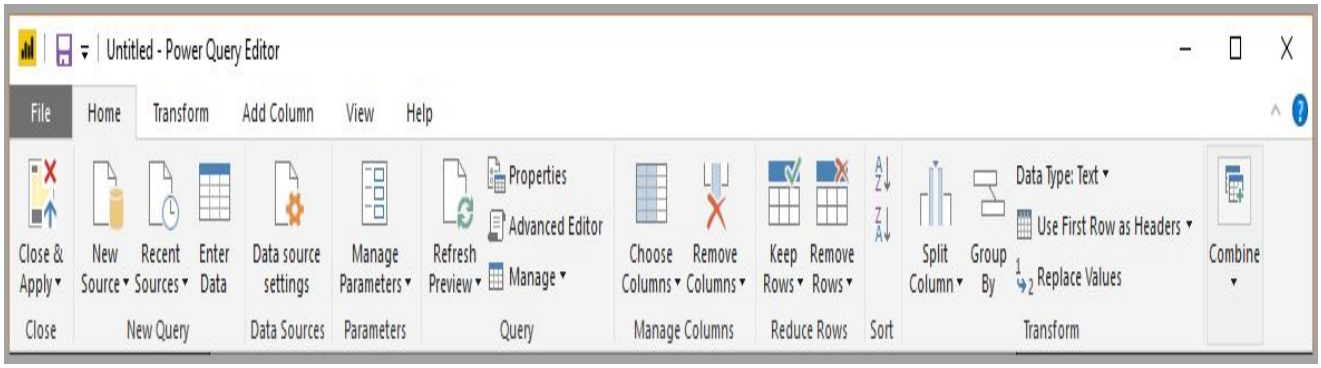
- In the ribbon, many buttons are now active to interact with the data in the query.
- In the left pane, queries are listed and available for selection, viewing, and shaping.
- In the center pane, data from the selected query is displayed and available for shaping.

- The **Query Settings** window appears, listing the query's properties and applied steps.



The ribbon in **Power Query Editor** consists of five tabs—**Home**, **Transform**, **Add Column**, **View**, and **Help**.

The **Home** tab contains the common query tasks, including the first step in any query, which is **Get Data.** The following image shows the **Home** ribbon.



The **Transform** tab provides access to common data transformation tasks, such as adding or removing columns, changing data types, splitting columns, and other data-driven tasks. The following image shows the **Transform** tab.

The **Add Column** tab provides additional tasks associated with adding a column, formatting column data, and adding custom columns. The following image shows the **Add Column** tab.

The **View** tab on the ribbon is used to toggle whether certain panes or windows are displayed. It's also used to display the Advanced Editor. The following image shows the **View** tab.

5 The Advanced Editor

If you want to see the code that **Power Query Editor** is creating with each step, or want to create your own shaping code, you can use the **Advanced Editor**. To launch the advanced editor, select **View** from the ribbon, then select **Advanced Editor**. A window appears, showing the existing query code.