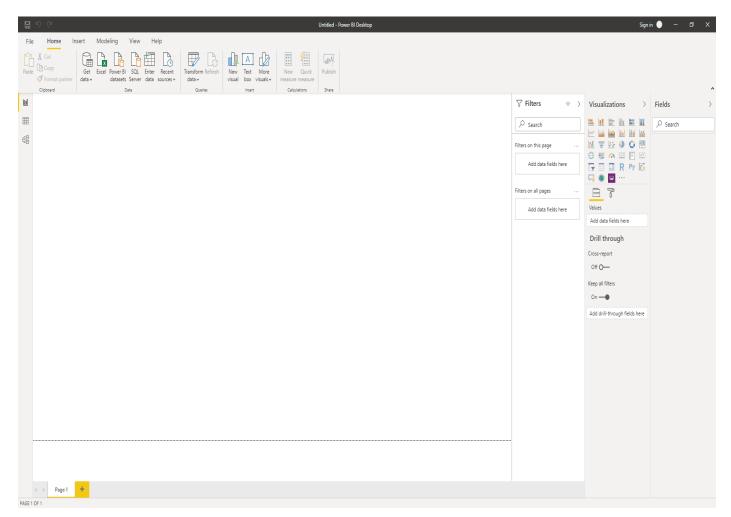
Power BI Assignment 1

Screenshot of Report View after Installation:



What is Power BI?

A business analytics service to

- Get a self-serve analytics platform that scales across the organization.
- Find and share meaningful insights using smart tools.
- Help keep your data secure and compliant—even when exported.
- Reduce the added cost and complexity of multiple solutions.

Power BI Desktop: Cost: Free for single user use.

Power BI Desktop is a free application we install on our local computer that lets us connect to, transform, and visualize our data. With Power BI Desktop, we can connect to multiple different sources of data, and combine them (often called *modelling*) into a data model. This data model lets us build visuals, and collections of visuals that we can share as reports, with other people inside our 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

Disadvantages:

- Cannot 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: Cost: \$9.99/₹660/user/month

In addition to all the features of Power BI desktop, Pro includes data collaboration, data governance, building dashboards with a 360-degree real-time view and the ability to publish reports anywhere.

- Self-service and modern BI in the cloud
- Collaboration, publishing, sharing, and ad-hoc analysis
- Fully managed by Microsoft

Power BI Premium: Cost: \$4,995/₹330,190/month

In addition to all the features of Power BI Pro, Premium plan includes dedicated cloud compute and storage resource.

- Enterprise BI, big data analytics, cloud, and on-premises reporting
- Advanced administration and deployment controls
- Dedicated cloud compute and storage resources
- Allows any user to consume Power BI content

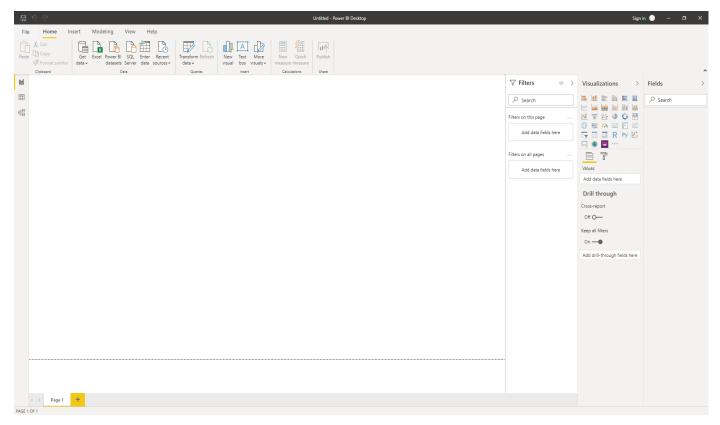
What is the difference between Power BI Pro and Power BI Premium?

With Power BI Pro, users are licensed individually and participate fully in the use of Power BI – both the creation of content and the consumption. All Pro users can connect to hundreds of data sources on-premises and in the cloud, create interactive reports and 360-degree dashboards, share that content with other Pro users, and consume content shared by others.

With Power BI Premium, you are licensing capacity for your content rather than licensing all users of that content. Content (datasets, dashboards, and reports) is stored in Premium and can then be viewed by as many users as you want, without additional per-user costs. These users can only view content, not create it. Viewing includes looking at dashboards and reports on the web, in our mobile apps, or embedded in your organization's portals or apps. The creators of content in Premium still need their own Pro licenses.

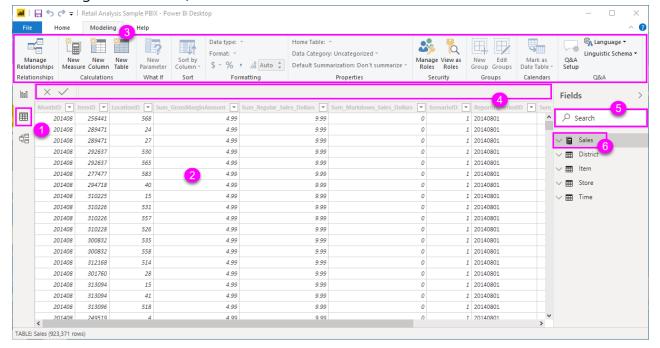
Report view:

Power BI Desktop includes a *Report view*, where we can create any number of report pages with visualizations. We can move visualizations around, copy and paste, merge, and so on. We can also work with our queries and model our data to make sure our data supports the best insights in our reports. We can then save our Power BI Desktop file wherever we like, whether it is our local drive or to the cloud.

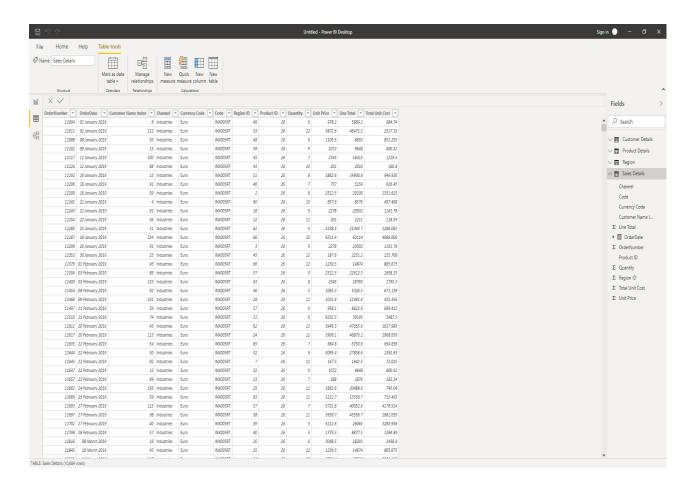


Data View:

Data view helps us inspect, explore, and understand data in our *Power BI Desktop* model. It is different from how we view tables, columns, and data in *Power Query Editor*. With Data view, we are looking at our data *after* it has been loaded into the model.

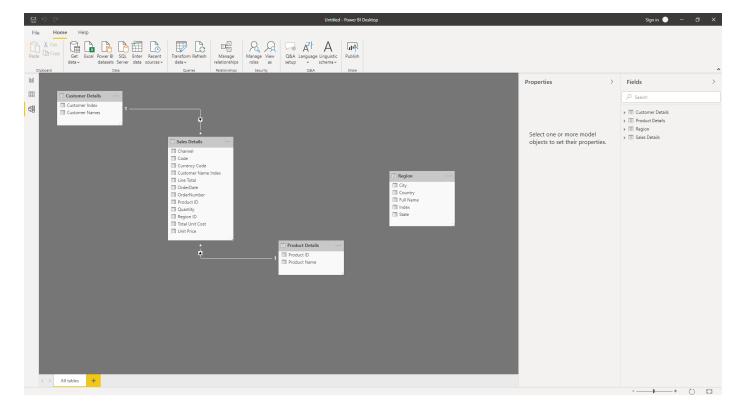


- 1. **Data view icon**. Select this icon to enter Data view.
- 2. **Data Grid**. This area shows the selected table and all columns and rows in it. Columns hidden from *Report* view are greyed out. We can right-click on a column for options.
- 3. **Modelling ribbon**. Here we can manage relationships, 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 our model.
- 6. **Fields list**. Select a table or column to view in the data grid.



Model View:

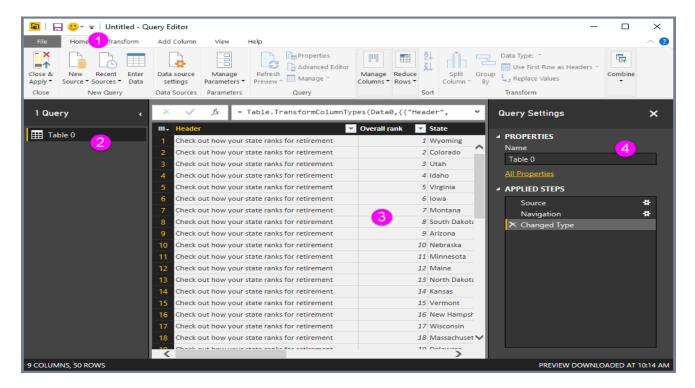
Model view shows all the tables, columns, and relationships in our model. This view can be especially helpful when our model has complex relationships between many tables. Selecting the **Model** icon near the side of the window shows view of the existing model.

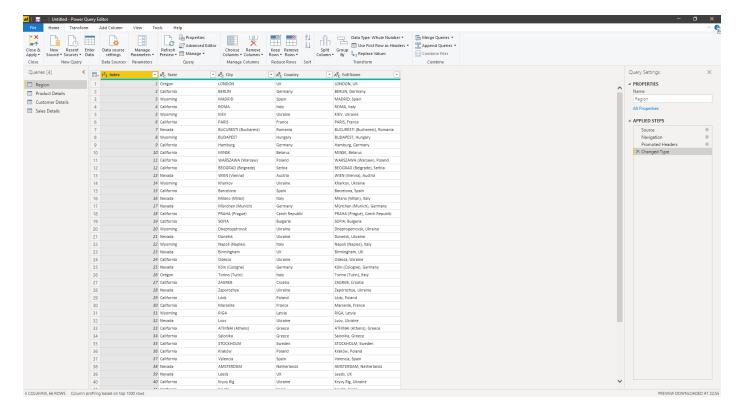


Power Query Editor:

The Query Editor only appears when we load, edit, or create a new query. With Query Editor, we can navigate, define, and perform data transform operations over a data source.

- 1. In the ribbon, many buttons are now active to interact with the data in the query.
- 2. In the left pane, queries are listed and available for selection, viewing, and shaping.
- 3. In the centre pane, data from the selected query is displayed and available for shaping.
- 4. The **Query Settings** pane appears, listing the query's properties and applied steps.





Advance Editor:

The **Advanced Editor** lets us see the code that Power Query Editor is creating with each step. It also lets us create our own shaping code. To launch the advanced editor, select **View** from the ribbon, then select **Advanced Editor**. A window appears, showing the existing query code.

