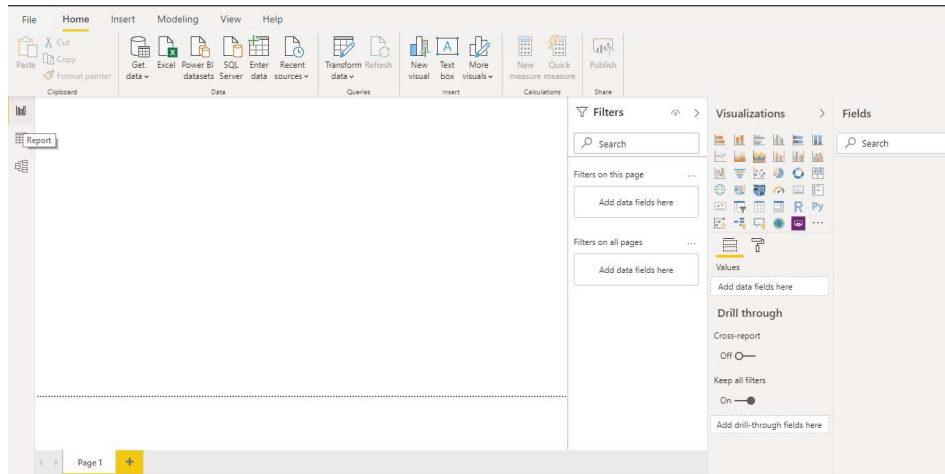# Assignment -1: Power BI Installation and Basics

1. **Install Power BI Desktop and share the final screenshot of the report view page which appears when power desktop starts.**
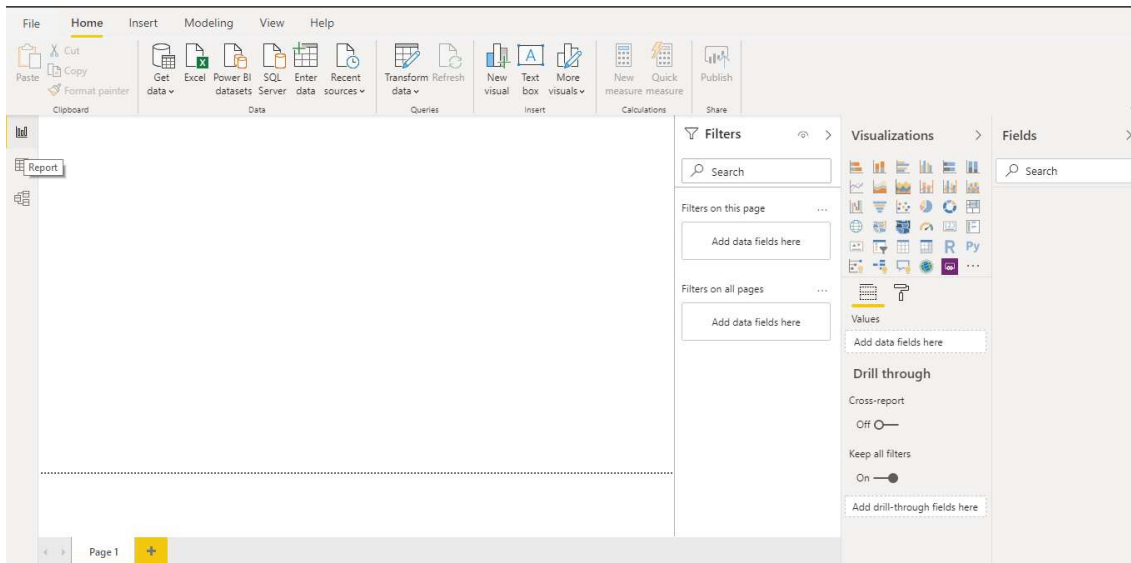

2. **Prepare a document and with the following screenshot**
   - **Report View**
   - **Data View**
   - **Model View**
   - **Power Query Editor**
   - **Advance Editor**

   a. Report View:

   In Power BI, Report view is the place where you create complete visuals (charts/tables/cards/slicers etc...) and show case it to the end users or stake holders. In this you can create various types of visualizations and resize or colour them based on the requirement. We can create multiple pages with different visualizations. There is option to Hide the page where the hidden page is not displayed in Power BI Service.

b. Data View:

Data view is the view in which where you can see actual data in all tables after loading data and also some times there could be some necessity where you want to see what actually the data consists of and its data type, format etc... Data view will be very helpful to see the data in the tables and specially while creating measures. Data View and Model View wouldn't exist if the data is real time streaming data.
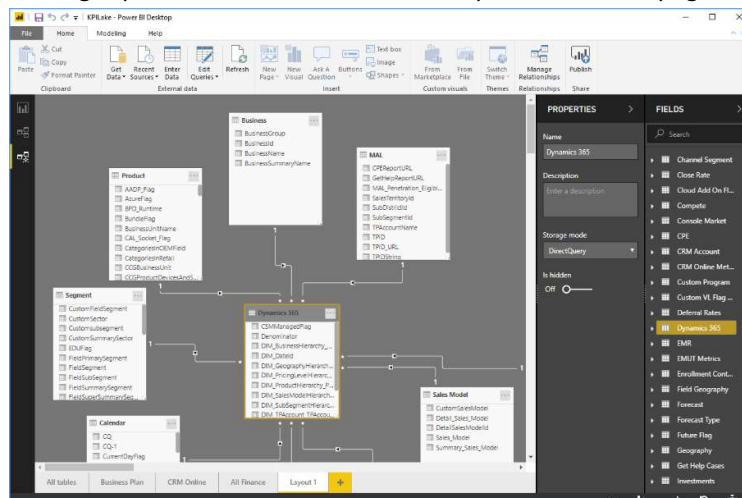

Explanation of different elements in Data view

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. **Modelling 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.
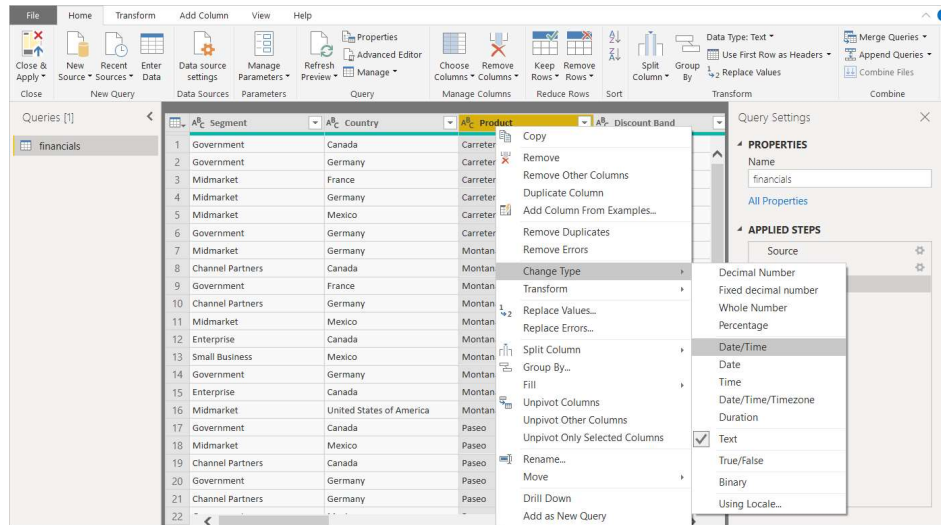
c. Model View:

Model view is the place where we can manage complete relationships between the tables and grouping the tables into a specific folder. Setting common properties for more than one table. Creating separate tables and its relationships in a different page.
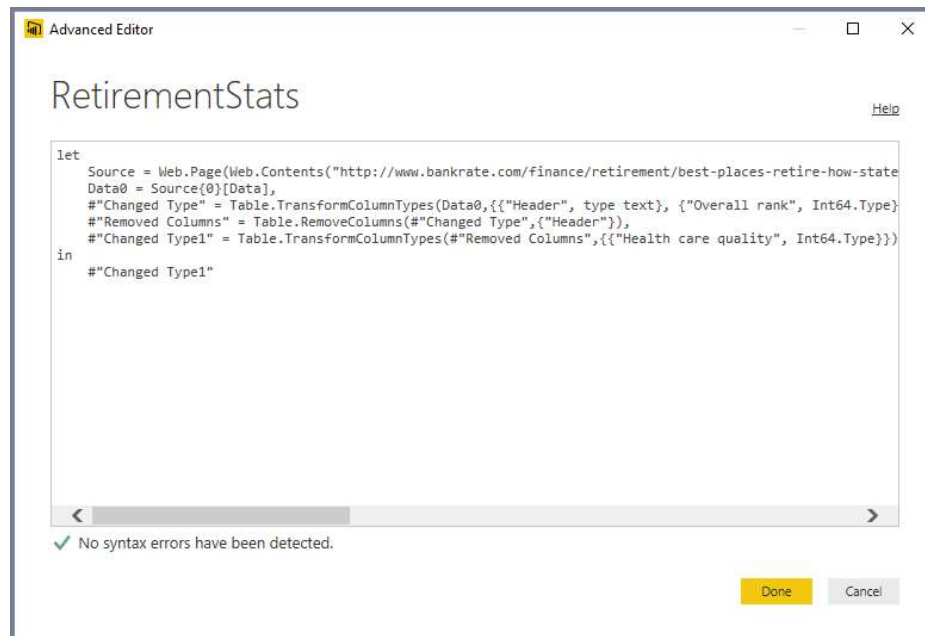
d. Power Query Editor:

Power Query Editor is the super useful tool provided by Microsoft Power BI where we can manipulate/transform data based on our requirement. Its like an operation theatre/ Kitchen of various elements to transform and shape the data. It contains multiple sections and also it records each and every step we performed on the dataset in **Applied Steps** section.

e. Advance Editor:

The **Advanced Editor** lets you see the code that Power Query Editor is creating with each step. It also lets you create your 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.

3. Prepare a document with details of the following along with their price
   - Power BI Desktop

- Power BI Pro
- Power BI Premium

a. **Power BI Desktop:**
Power BI Desktop is free per user and need an official(organizational) email id for publishing reports to Power BI service

b. **Power BI Pro:**
Power BI Pro is Rs. 660 INR monthly per user
Facilities:
- Self-service and modern BI in the cloud
- Collaboration, publishing, sharing, and ad-hoc analysis
- Fully managed by Microsoft

c. **Power BI Premium:**
Power BI Premium is Rs. 3,30,190 INR Monthly price per dedicated cloud compute and storage resource with annual subscription
Facilities:
- 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