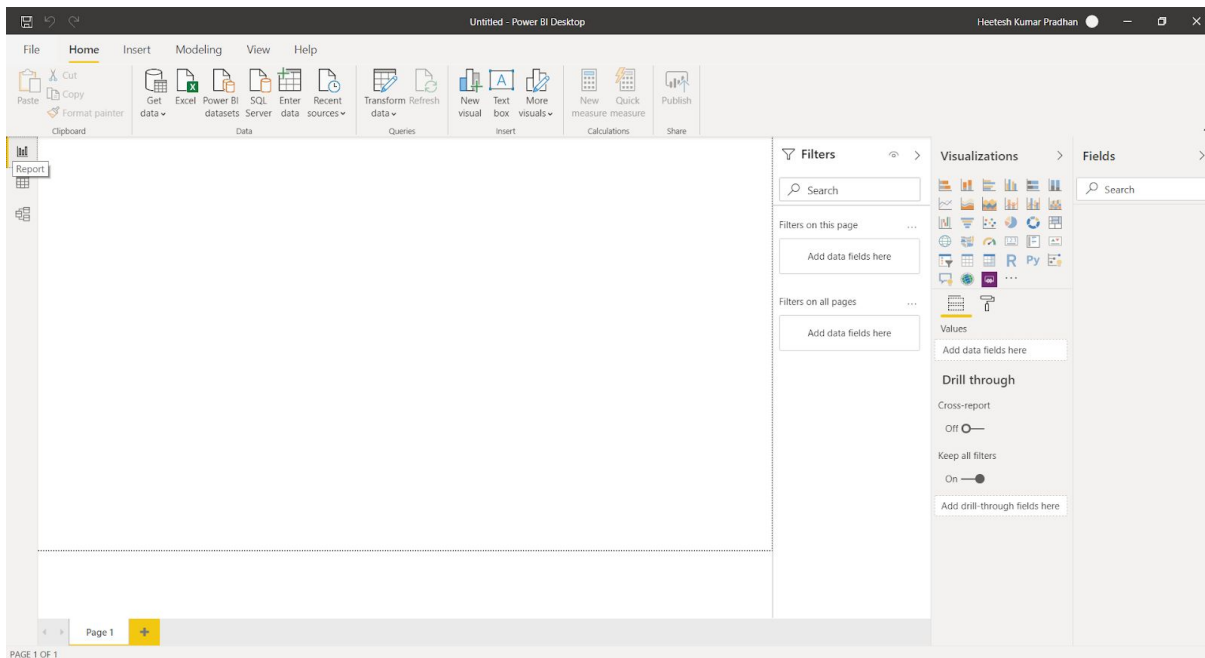


Assignment -1: Power BI Installation and Basics

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

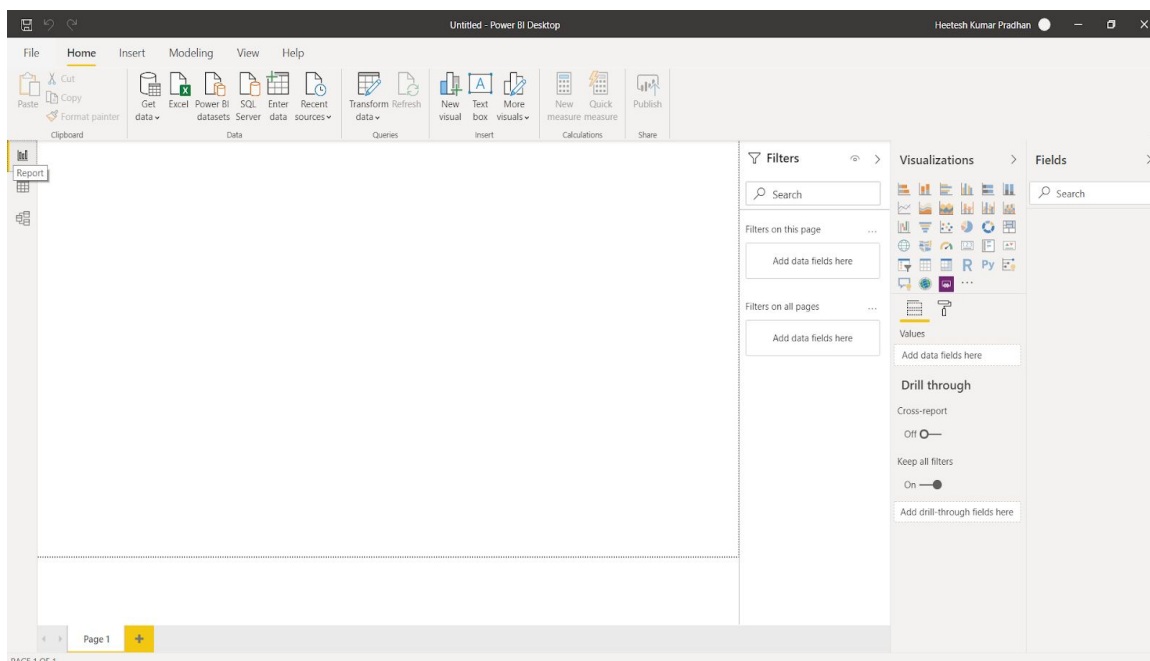


2. Prepare a document and with the following screenshot

- 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 showcase it to the end users or stakeholders. 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 an 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 you can see actual data in all tables after loading data and also sometimes 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.

The screenshot shows the Power BI Desktop interface in Data View. The top ribbon includes 'Table tools' with options like 'Mark as date table', 'Manage relationships', 'New measure', 'Quick measure', and 'New table'. Below the ribbon is the 'Table tools' tab with a 'Data' icon (1) and a 'Formula bar' (3). The main area displays a data grid for the 'Orders' table with columns: Row ID, Order Priority, Discount, Unit Price, Shipping Cost, Customer ID, Customer Name, Ship Mode, Customer Segment, Product Category, Product Sub-Category, Product Container, and Product Name. The grid shows 20 rows of data. On the right, there is a 'Fields' pane (4) with a search bar and a list of tables: Orders (5), Returns, and Users.

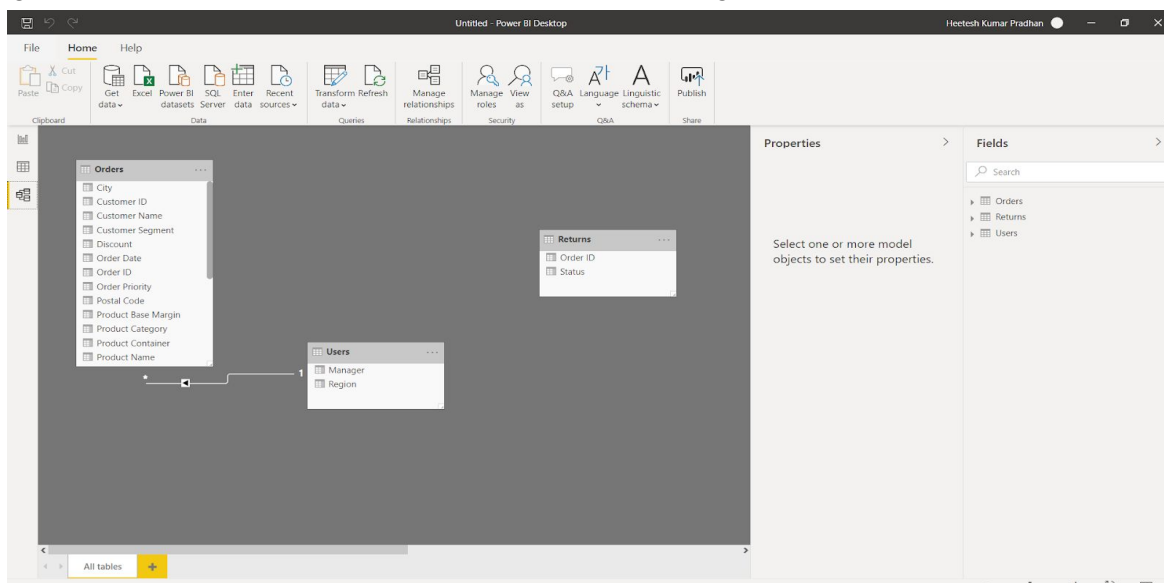
Row ID	Order Priority	Discount	Unit Price	Shipping Cost	Customer ID	Customer Name	Ship Mode	Customer Segment	Product Category	Product Sub-Category	Product Container	Product Name
20334	Low	0.04	6.48	5.74	119	Judy Kennedy	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1994
18129	Low	0.02	6.48	5.9	119	Judy Kennedy	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1976
24273	Not Specified	0.02	6.48	8.17	194	Tammy Goldman	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1998
18904	High	0.06	6.48	6.74	247	Marshall Brandt Briggs	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 215
19823	Medium	0.08	6.48	7.03	266	Ross Frederick	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 214
24425	Low	0.06	6.48	7.86	300	Larry W Lehman	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 213
24864	Medium	0.01	6.48	7.49	358	Chris F Brandt	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 220
24662	Low	0.08	6.48	7.91	500	Brenda Cowan	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 216
18593	High	0	6.48	7.86	533	Jamie Dixon	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 213
20281	Medium	0.05	6.48	6.57	537	Nelson Coley	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 20
21274	Medium	0.06	6.48	7.37	600	Vickie Morse	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 210
118	Not Specified	0.08	6.48	5.14	607	Clara Hausner	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 23
6575	Medium	0.1	6.48	9.17	607	Clara Hausner	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1996
18113	Not Specified	0.08	6.48	5.14	608	Daniel Jones	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 23
24575	Medium	0.1	6.48	9.17	609	Shawn Adler	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1996
23207	Low	0.1	6.48	9.54	680	Laurence Poe	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1905
23208	Low	0.02	6.48	5.19	680	Laurence Poe	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1995
22735	Low	0	6.48	8.19	719	Stephan Lam	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 217
24851	Low	0.09	6.48	8.86	797	Eileen Riddle	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 204
24763	Critical	0.06	6.48	8.89	868	Sharon Ellis	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 224
2055	Critical	0.02	6.48	6.41	894	Gail Rankin Cole	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 221
7955	High	0.09	6.48	7.03	894	Gail Rankin Cole	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 214
25955	High	0.09	6.48	7.03	895	Gordon Sutherland	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 214
20055	Critical	0.02	6.48	6.41	896	Jennifer Segel	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 221
19655	Low	0.09	6.48	8.88	1088	Jeremy Orr	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 224
26163	High	0.02	6.48	9.54	1090	Seth Davies	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 1905
23447	High	0.04	6.48	8.6	1113	Julia Reynolds	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 21
18546	Not Specified	0.09	6.48	8	1273	Lois Bloom	Regular Air	Corporate	Office Supplies	Paper	Small Box	Xerox 2

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. Formula bar.** Enter Data Analysis Expression (DAX) formulas for Measures and Calculated columns.
- 4. Search.** Search for a table or column in your model.
- 5. Fields list.** Select a table or column to view in the data grid.

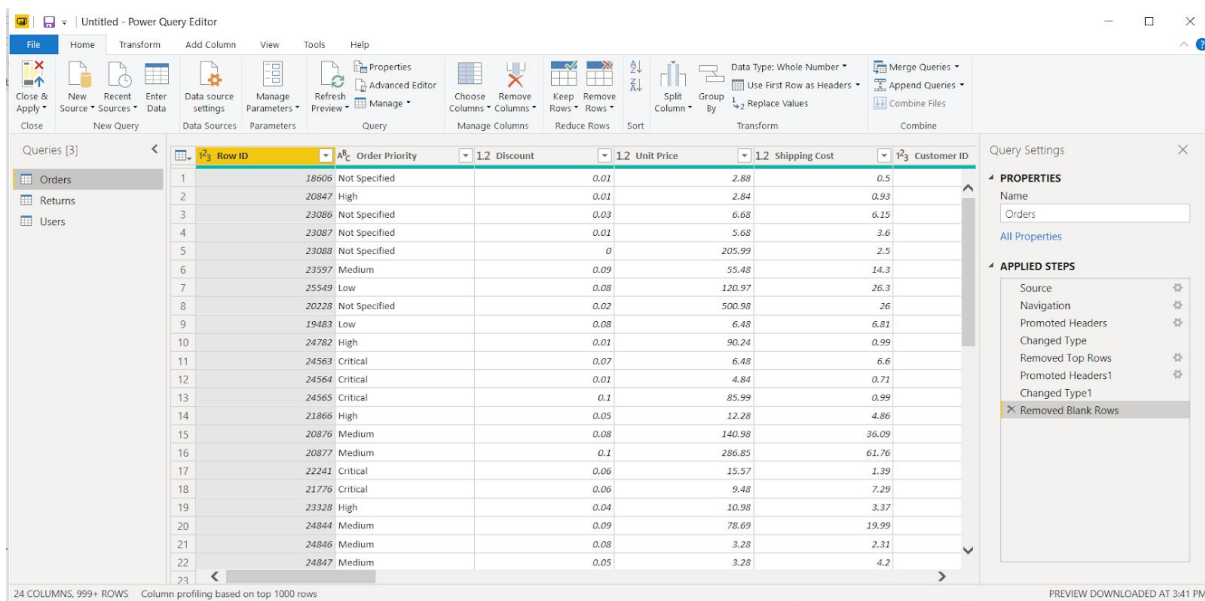
C. Model View:

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. It's 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 the 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