

Assignment - 1

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

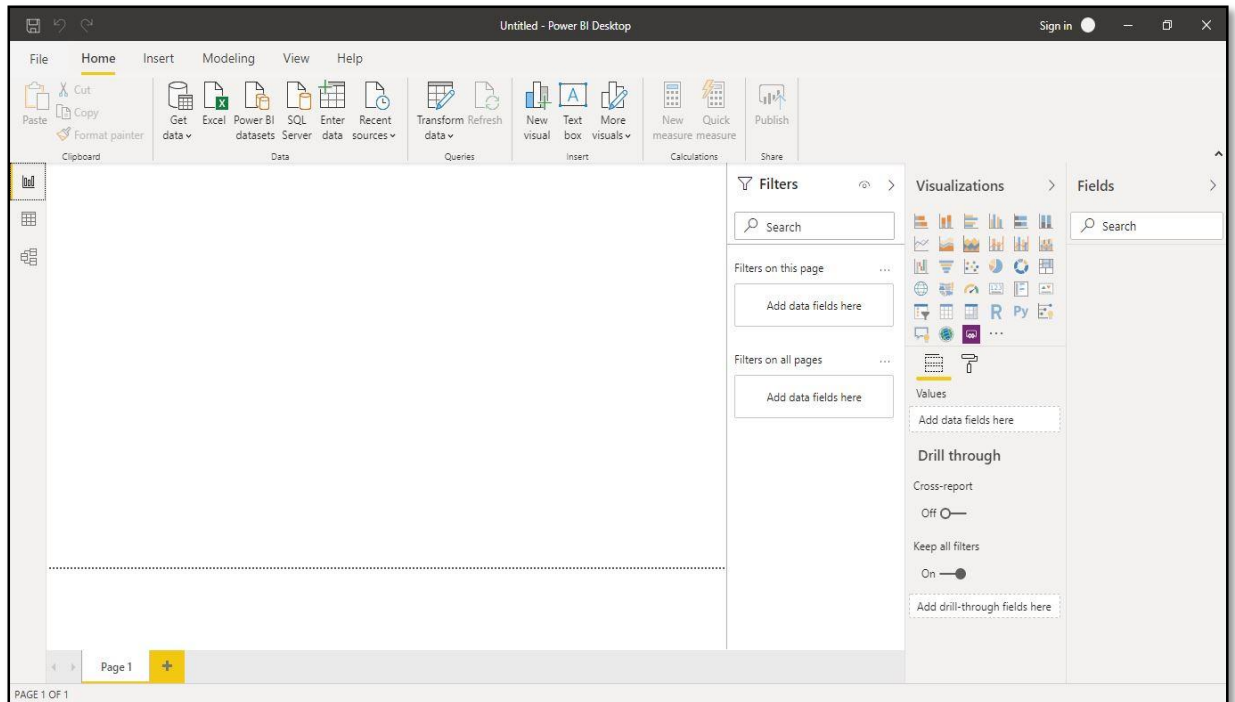


Figure-1: Report View

2. Prepare a document and with the following screenshot

- Report View
- Data View
- Model View
- Power Query Editor
- Advance Editor

1. **Report View:** - It is used to show the visualization of the data inside the power BI desktop. You can see a dashboard and a chart, table and card selected for data visualization. You can select different chart types as per your need.

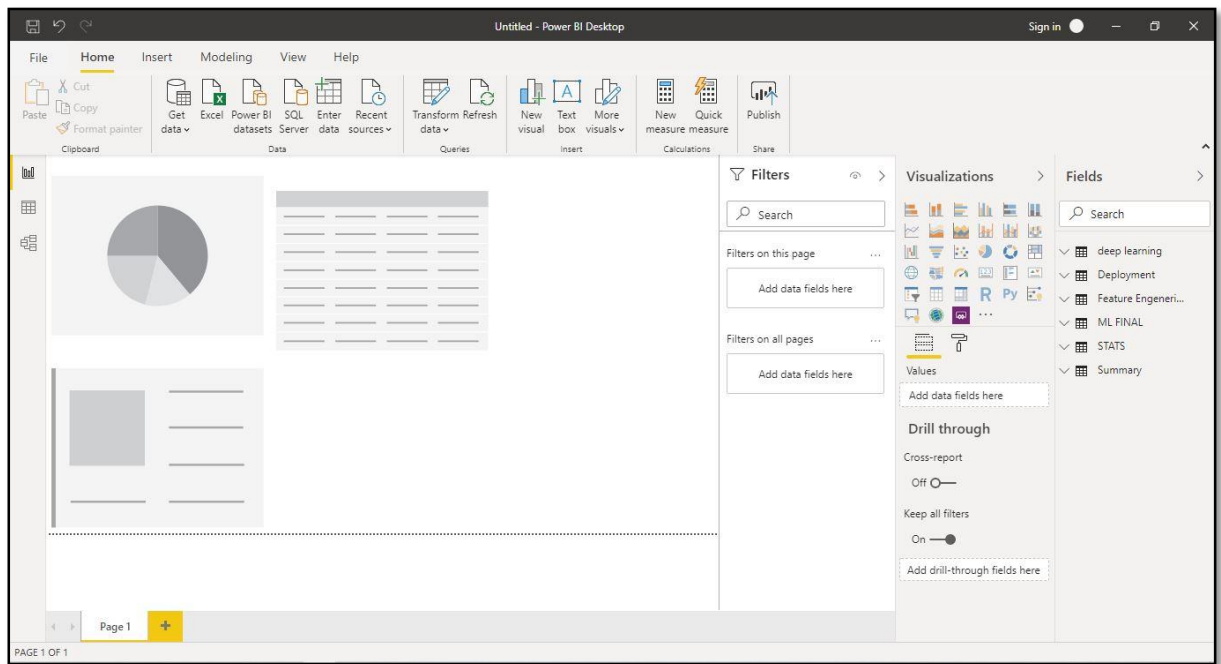


Figure 2. Report View

2. **Data View:** - In this section you can see all the data as per the defined Relationship from the data sources.

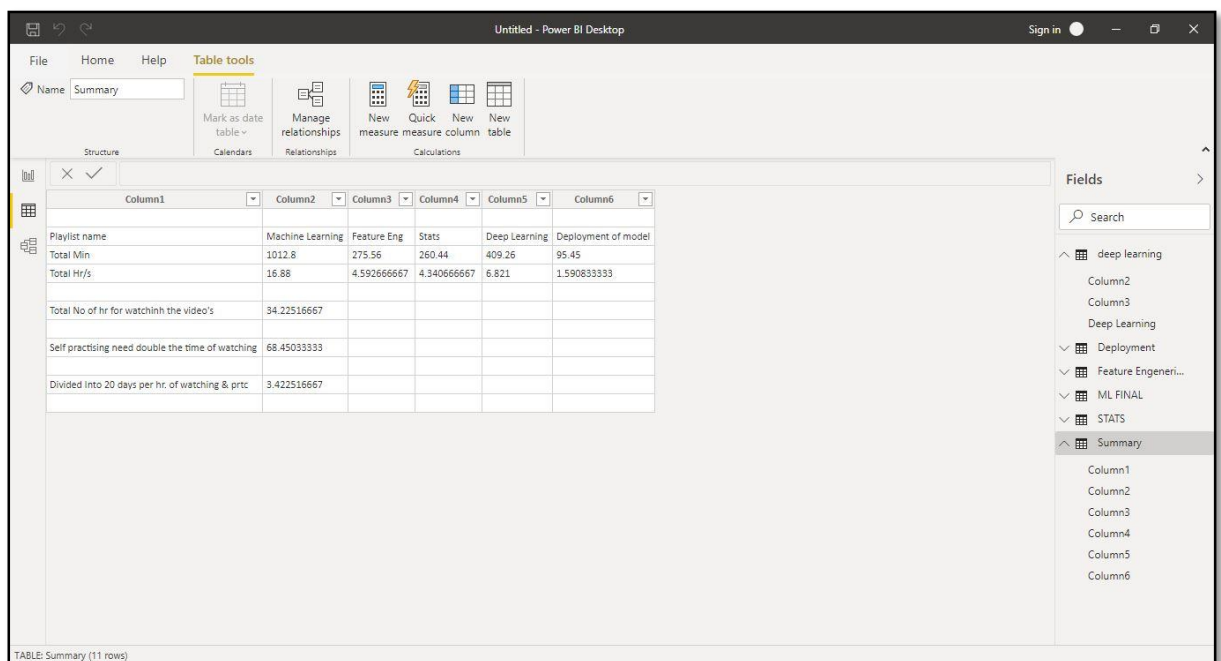


Figure 3. Data View

3. **Model View:** - In this section you can see the relationship between data sources. When you add multiple data sources to Power BI visualization, the tool automatically tries to detect the relationship between the columns. When you navigate to the Relationship tab, you can view

The screenshot displays the Microsoft Power BI Desktop interface. The top ribbon shows the 'Home' tab, which includes various data source connectors (Get data, Excel, Power BI datasets, SQL Server, Enter data, Recent sources), transformation tools (Transform data, Refresh), and management options (Manage relationships, Manage roles, View as, Q&A, Language, Linguistic schema, Publish). The main workspace shows a data model diagram with the following tables and their relationships:

- deep learning**: Contains Column2, Column3, and Deep Learning. It is connected to the **Summary** table via a one-to-many relationship.
- Deployment**: Contains Column2, Column3, and Deployment of model. It is connected to the **Summary** table via a one-to-many relationship.
- Feature Engineering**: Contains Column2, Column3, and Feature Eng. It is connected to the **Summary** table via a one-to-many relationship.
- ML FINAL**: Contains Column2, Column3, and Machine Learning. It is connected to the **Summary** table via a one-to-many relationship.
- STATS**: Contains Column2, Column3, and Stats. It is connected to the **Summary** table via a one-to-many relationship.
- Summary**: Contains Column1, Column2, Column3, Column4, Column5, and Column6. It is the central table in the model.

The bottom of the interface shows a 'Fields' pane on the right and a 'Properties' pane on the left. The status bar at the bottom indicates 'All tables' are loaded.

4. Power Query Editor: - It is used to transform or edit data files before they are actually loaded into the Power BI.

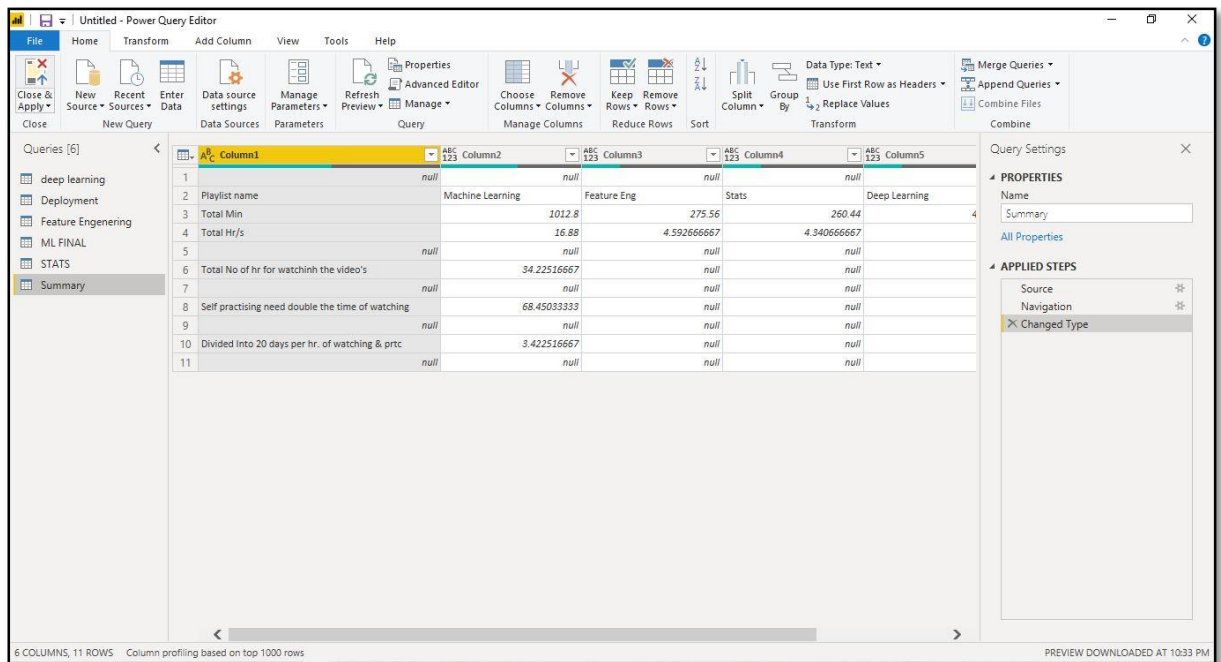


Figure 5. Power Query Editor

5. **Advanced Editor:** - It lets you see the code that Power Query Editor is creating with each step. It also lets you create your own shaping code.



Figure 6. Advanced Editor

3. **Prepare a document with details of the following along with their price**

- Power BI Desktop
- Power BI Pro
- Power BI Premium

1. **Power BI Desktop:** - Power BI Free enables you to connect to 70+ data sources, publish to the web, and export to excel. There are some limitations to the free version. For example, you can't do peer-to-peer sharing and you can't create App workspaces. However, the free version is great if you are doing your own analysis and don't need to distribute the analysis to other end users. You also have connectivity options such as Direct Query, live connection, and the use of the gateway. The same visualizations that are available in Power BI Pro are available in Power BI Free.

a. **Best for:** -

- Companies without a business intelligence or data science budget.
- Businesses with less data to analyse, possibly only a handful of data sets.
- Small businesses and solo entrepreneurs.

b. Price: - Free

- 2. Power BI Pro:** - The biggest difference between Free and Pro is that with Pro you can share your data, reports, and dashboards with other users who also have a Power BI Pro license. You can also create App workspaces. Both Power BI Free and Pro have a 10 GB per Pro user data storage limit.

a. Best for: -

- Medium and large-scale business.
- Corporations with big data and data scientists.
- Multi-location businesses.

b. Price: - \$9.99 (₹660.00) Monthly price per user.

- 3. Power BI Premium:** - Power BI Premium is an on premise deployment and distribution of Power BI reports using the Power BI Report Server. This allows you to maintain reports on premise and move to the cloud when your organization is ready. Power BI Premium is designed to address the challenges of large enterprise deployments and workloads. It enables your organization to use your own dedicated capacity and hardware rather than relying on Microsoft's shared capacity. You'll need to provide that capacity and ensure you have enough for your reporting and analysis purposes. This allows for much larger scale and better performance if you size it properly. Microsoft offers three sizes for Premium capacity and each come with a different number of v-cores and memory size.

a. Best for: -

- Large scale businesses with huge data sets.
- Corporations with big data and data scientists.
- They both possess 50GB Mailboxes, Custom Email addresses, 1TB of OneDrive, 24/7 Support, among other features.

b. Price: - \$4,995 (₹330,190) Monthly price per dedicated cloud compute and storage resource with annual subscription.