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Project On Exhaustive Analysis Of Indian Agriculture – Week 1 Power BI is a tool from Microsoft which is used for data cleaning, data analysis and data visualization. It has an ETL process which means

Extract – It means to pull data from data source in the form of excel file, csv file, text file, database file. Transform means doing data processing, data cleaning.

Load means to load data in power bi for data analysis.

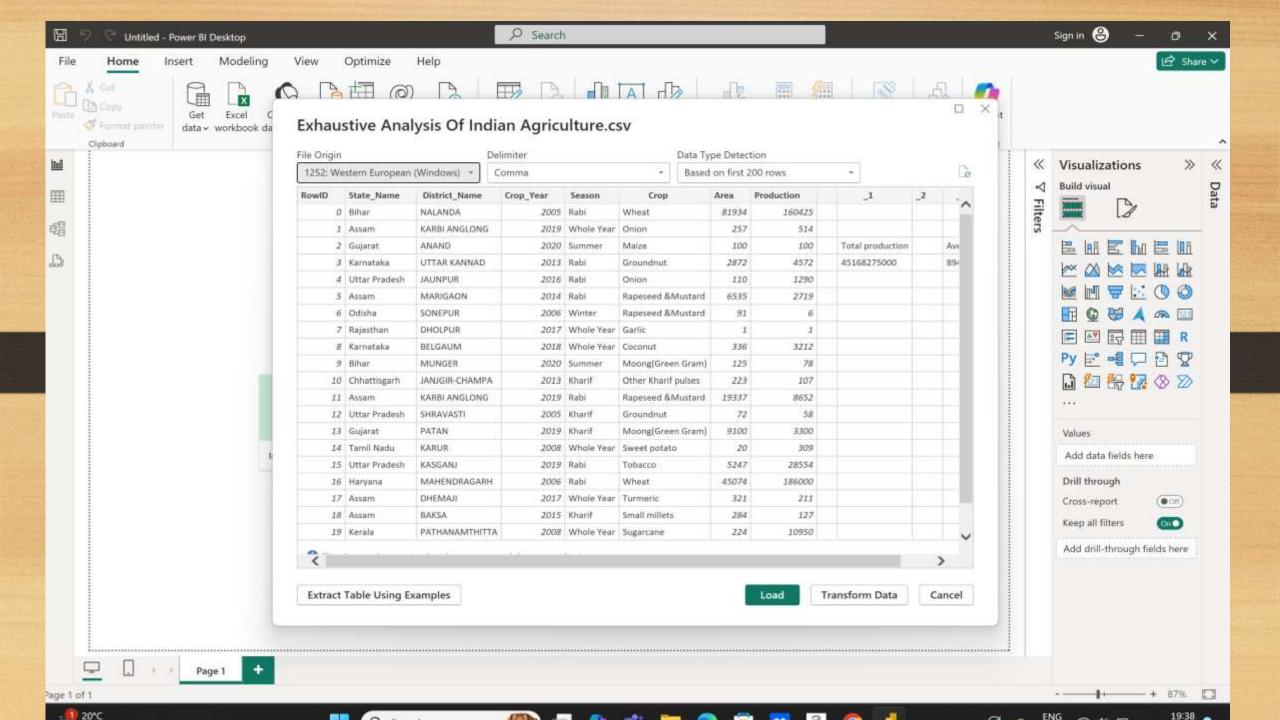
Data analysis means to analyze large data sets in order to discover meaningful insights and identify trends and patterns and create dashboards.

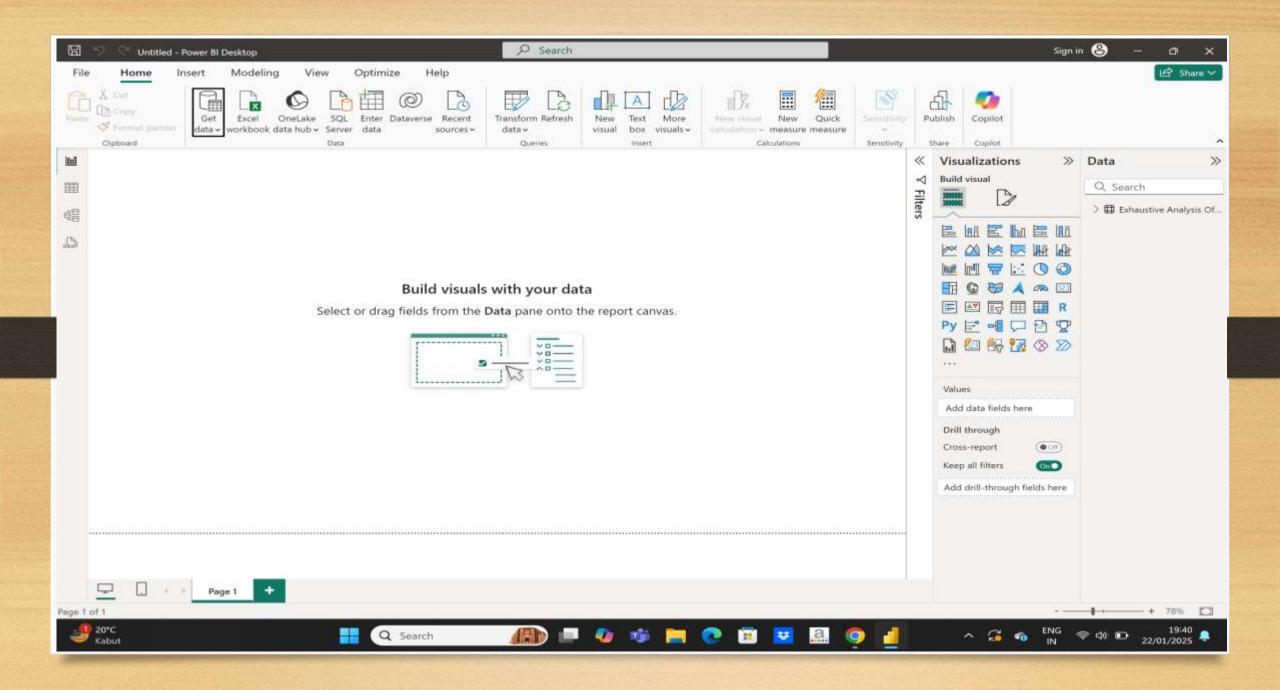
Data Cleaning is the process of fixing or removing errors, inconsistencies or missing data from a dataset.

Data Visualization is the representation of data through use of common graphics such as charts, plots, graphs, Etc.

Steps to load Dataset in Power BI

- Select Home tab in Power BI.
- Click on Get Data .
- Select Text/CSV option.
- Search for this file in it's destination.
- Select the file.
- Then click on open.
- After a few seconds that file will be displayed on the computer screen.
- Click on **Load** button and the fill we be loaded in Power BI.





After the file is being loaded in Power BI this type on screen will be displayed .

We can see our loaded file on the right corner of our screen.

At the left corner of the screen three types of menu are there. These views are:

- 1. Report View This view is for Data Visualization. All the visualizations will be displayed in this view.
- 2. Table View This view is to see or display data on the screen.
- 3. Model View This view is to integrate different files and to join or establish a relationship among data.

In the **Home** tab there is an option named Transform Data which is used for cleaning data. On clicking this, it opens a new window Power Query Editor which is considered as the Heart of any analysis.

Here we have deleted unnecessary columns by just selecting the column and doing a right click on that particular column and Click on **Remove** option.

In Order to check whether there is any error or null value in our data, we need to select the **View** tab and select the option named column quality.

To save all the changes that we have done in the data click on **File** tab and select **Close & Apply** button. Then all the changes will be reflected on the Power BI Desktop. Then we can see all the changed data in the **Table** view.

