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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 file will be loaded in Power BI.

Clipboard

Get data

Excel workbook data

Exhaustive Analysis Of Indian Agriculture.csv

File Origin: 1252: Western European (Windows)

Delimiter: Comma

Data Type Detection: Based on first 200 rows

RowID	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production	_1	_2
0	Bihar	NALANDA	2005	Rabi	Wheat	81934	160425		
1	Assam	KARBI ANGLONG	2019	Whole Year	Onion	257	514		
2	Gujarat	ANAND	2020	Summer	Maize	100	100	Total production	Avi
3	Karnataka	UTTAR KANNAD	2013	Rabi	Groundnut	2872	4572	45168275000	894
4	Uttar Pradesh	JAUNPUR	2016	Rabi	Onion	110	1290		
5	Assam	MARIGAON	2014	Rabi	Rapeseed & Mustard	6535	2719		
6	Odisha	SONEPUR	2006	Winter	Rapeseed & Mustard	91	6		
7	Rajasthan	DHOLPUR	2017	Whole Year	Garlic	1	1		
8	Karnataka	BELGAUM	2018	Whole Year	Coconut	336	3212		
9	Bihar	MUNGER	2020	Summer	Moong(Green Gram)	125	78		
10	Chhattisgarh	JANIGIR-CHAMPA	2013	Kharif	Other Kharif pulses	223	107		
11	Assam	KARBI ANGLONG	2019	Rabi	Rapeseed & Mustard	19337	8652		
12	Uttar Pradesh	SHRAVASTI	2005	Kharif	Groundnut	72	58		
13	Gujarat	PATAN	2019	Kharif	Moong(Green Gram)	9100	3300		
14	Tamil Nadu	KARUR	2008	Whole Year	Sweet potato	20	309		
15	Uttar Pradesh	KASGANJ	2019	Rabi	Tobacco	5247	28554		
16	Haryana	MAHENDRAGARH	2006	Rabi	Wheat	45074	186000		
17	Assam	DHEMAJI	2017	Whole Year	Turmeric	321	211		
18	Assam	BAKSA	2015	Kharif	Small millets	284	127		
19	Kerala	PATHANAMTHITTA	2008	Whole Year	Sugarcane	224	10950		

Extract Table Using Examples

LoadTransform DataCancel

Visualizations

Build visual

Filters

Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Untitled - Power BI Desktop

Search

Sign in

Share

FileHomeInsertModelingViewOptimizeHelp

Clipboard

Get data

Excel workbook

OneLake data hub

SQL Server Data

Enter data

Dataverse

Recent sources

Transform data

Refresh data

Queries

New visual

Text box

More visuals

Insert

New Visual calculation

Calculations

New measure

Quick measure

Sensitivity

Sensitivity

Publish


Share

Copilot

Copilot

Build visuals with your data


Select or drag fields from the **Data** pane onto the report canvas.



Visualizations

Build visual

Filters



Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Data

Search

Exhaustive Analysis Of...

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Search

Taskbar icons

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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.

CLEANED DATA

Untitled - Power BI Desktop

Search

File Home Help Table tools

Name: Exhaustive Analysis...

Structure Relationships Calculations

Manage relationships New measure Quick measure New table New table Mark as date table

Data

Search

Exhaustive Analysis Of Indian Agri...

State Name	District Name	Crop Year	Season	Crop	Area	Production
Bihar	NALANDA	2005	Rabi	Wheat	81934	160425
Assam	KARBI ANGLONG	2019	Whole Year	Onion	257	514
Gujarat	ANAND	2020	Summer	Maize	100	100
Karnataka	UTTAR KANNAD	2013	Rabi	Groundnut	2872	4572
Uttar Pradesh	JAUNPUR	2016	Rabi	Onion	110	1290
Odisha	SONEPUR	2006	Winter	Rapeseed & Mustard	91	6
Rajasthan	DHOLPUR	2017	Whole Year	Garlic	1	1
Chhattisgarh	JANJIGIR-CHAMPA	2013	Kharif	Other Kharif pulses	223	107
Tamil Nadu	KARUR	2008	Whole Year	Sweet potato	20	309
Haryana	MAHENDRAGARH	2006	Rabi	Wheat	45074	186000
Kerala	PATHANAMTHITTA	2008	Whole Year	Sugarcane	224	10950
Madhya Pradesh	NEEMUCH	2019	Whole Year	Sesamum	780	456
West Bengal	BARDHAMAN	2015	Kharif	Sannhamp	37	275
Punjab	AMRITSAR	2006	Rabi	Peas & beans (Pulses)	400	300
Andhra Pradesh	KADAPA	2012	Kharif	Ragi	25	35
Maharashtra	PARBHANI	2012	Kharif	Arhar/Tur	63900	21500
Telangana	RANGAREDDI	2021	Rabi	Rice	17986	40163
Nagaland	DIMAPUR	2017	Rabi	Barley	60	90
Meghalaya	WEST GARO HILLS	2007	Whole Year	Arecanut	2424	3384
Jharkhand	GODDA	2011	Rabi	Gram	118177	111441
Uttarakhand	RUDRA PRAVAG	2016	Kharif	Ragi	6504	10941
Himachal Pradesh	KULLU	2013	Whole Year	Potato	1300	6535
Arunachal Pradesh	UPPER SIANG	2010	Kharif	Maize	950	1100
Mizoram	KOLASIB	2013	Kharif	Groundnut	3	2
Manipur	TAMENGLONG	2011	Whole Year	Jack Fruit	5	23
Puducherry	PONDICHERRY	2022	Summer	Ragi	32	58
Dadra and Nagar Haveli	DADRA AND NAGAR HAVELI	2021	Rabi	Rice	325	631
Chandigarh	CHANDIGARH	2015	Rabi	Wheat	600	2800
Sikkim	NORTH DISTRICT	2016	Rabi	Wheat	380	320

Table: Exhaustive Analysis Of Indian Agriculture (33 rows)

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Search

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