

Exhaustive Analysis of Indian Agriculture Sector Using Power BI

Week 1 Task

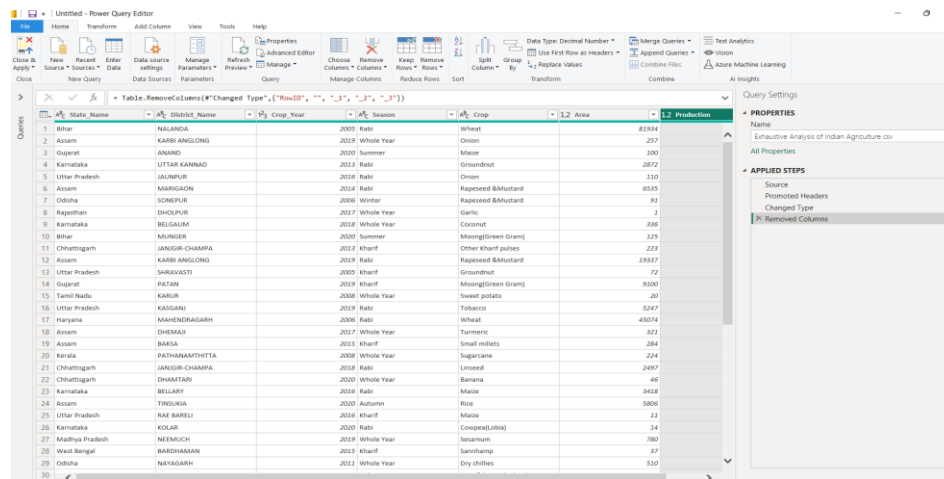
Steps Taken

1. Dataset Upload in Power BI

- Imported the agriculture dataset into Power BI.

2. Removing Blank Columns

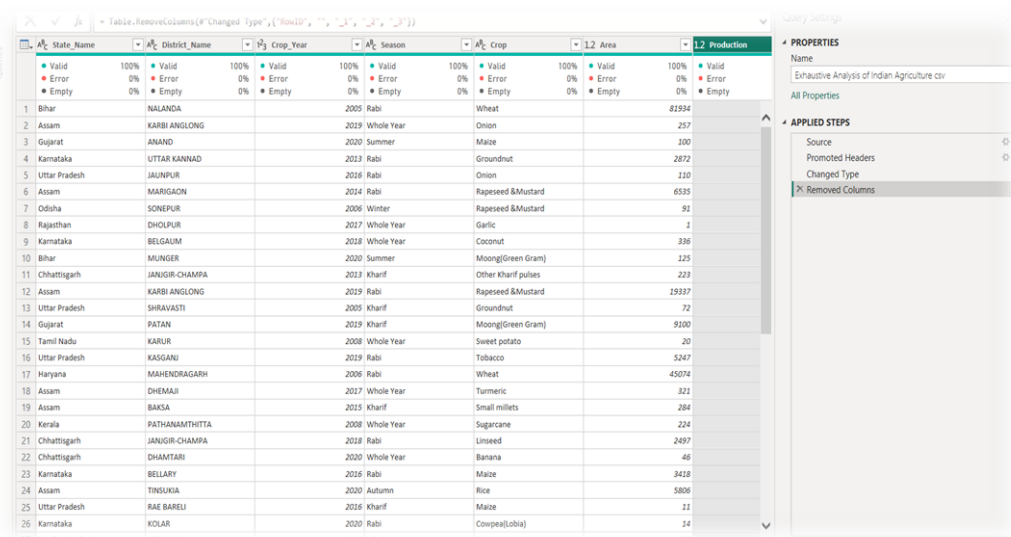
- Identified and removed unnecessary blank columns to clean the dataset.



The screenshot shows the Power Query Editor interface. The formula bar contains the expression: `Table.RemoveColumns(*Changed Type,{"RowID", " ", " ", " ", " "})`. The data table below has the following columns: State_Name, District_Name, Crop_Year, Season, Crop, Area, and Production. The table contains 30 rows of data, including entries for Bihar, Assam, Gujarat, Karnataka, Uttar Pradesh, Odisha, Rajasthan, and others.

3. Column Quality Check

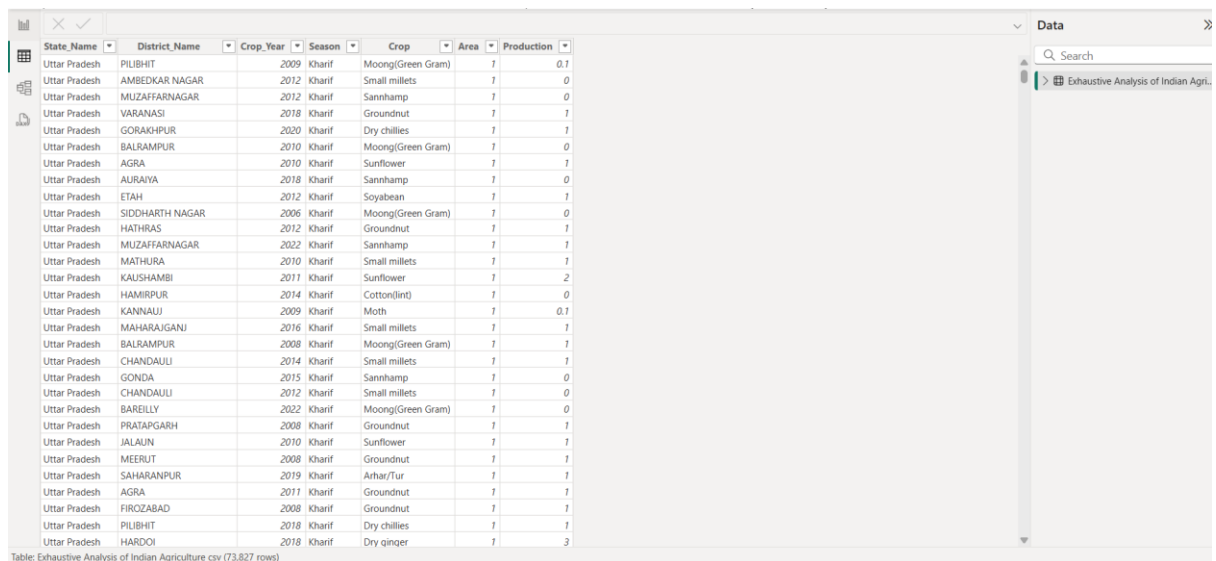
- Used the **View > Column Quality** feature to check for valid, error, and empty data entries in each column.



The screenshot shows the 'Column Quality' view in the Power Query Editor. The formula bar contains the expression: `Table.RemoveColumns(*Changed Type,{"RowID", " ", " ", " ", " "})`. The table displays quality metrics for each column: State_Name, District_Name, Crop_Year, Season, Crop, Area, and Production. The metrics are: Valid (100%), Error (0%), and Empty (0%) for all columns.

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4. Close And Apply Step And View in Table View



State Name	District Name	Crop Year	Season	Crop	Area	Production
Uttar Pradesh	PILIBHIT	2009	Kharif	Moong(Green Gram)	1	0.1
Uttar Pradesh	AMBEDKAR NAGAR	2012	Kharif	Small millets	1	0
Uttar Pradesh	MUZAFFARNAGAR	2012	Kharif	Sannhamp	1	0
Uttar Pradesh	VARANASI	2018	Kharif	Groundnut	1	1
Uttar Pradesh	GORAKHPUR	2020	Kharif	Dry chillies	1	1
Uttar Pradesh	BALRAMPUR	2010	Kharif	Moong(Green Gram)	1	0
Uttar Pradesh	AGRA	2010	Kharif	Sunflower	1	1
Uttar Pradesh	AURAIYA	2018	Kharif	Sannhamp	1	0
Uttar Pradesh	ETAH	2012	Kharif	Soyabean	1	1
Uttar Pradesh	SIDDHARTH NAGAR	2006	Kharif	Moong(Green Gram)	1	0
Uttar Pradesh	HATHRAS	2012	Kharif	Groundnut	1	1
Uttar Pradesh	MUZAFFARNAGAR	2022	Kharif	Sannhamp	1	1
Uttar Pradesh	MATHURA	2010	Kharif	Small millets	1	1
Uttar Pradesh	KAUSHAMBI	2011	Kharif	Sunflower	1	2
Uttar Pradesh	HAMIRPUR	2014	Kharif	Cotton(lint)	1	0
Uttar Pradesh	KANNAUJ	2009	Kharif	Moth	1	0.1
Uttar Pradesh	MAHARAJGANJ	2016	Kharif	Small millets	1	1
Uttar Pradesh	BALRAMPUR	2008	Kharif	Moong(Green Gram)	1	1
Uttar Pradesh	CHANDAUJI	2014	Kharif	Small millets	1	1
Uttar Pradesh	GONDA	2015	Kharif	Sannhamp	1	0
Uttar Pradesh	CHANDAUJI	2012	Kharif	Small millets	1	0
Uttar Pradesh	BAREILLY	2022	Kharif	Moong(Green Gram)	1	0
Uttar Pradesh	PRATAPGARH	2008	Kharif	Groundnut	1	1
Uttar Pradesh	JALAUN	2010	Kharif	Sunflower	1	1
Uttar Pradesh	MEERUT	2008	Kharif	Groundnut	1	1
Uttar Pradesh	SAHARANPUR	2019	Kharif	Arhar/Tur	1	1
Uttar Pradesh	AGRA	2011	Kharif	Groundnut	1	1
Uttar Pradesh	FIROZABAD	2008	Kharif	Groundnut	1	1
Uttar Pradesh	PILIBHIT	2018	Kharif	Dry chillies	1	1
Uttar Pradesh	HARDOI	2018	Kharif	Dry ginger	1	3

Table: Exhaustive Analysis of Indian Agriculture csv (73,827 rows)

- **ETL:** Extract - PULL DATA from data source: excel, csv, text, database file Transform - data processing, data cleaning LOAD: for analysis
- **Analysis:** keep facts, insights via dashboards
- **Load:** when your data is cleaned
- **Transformed:** when you want to process the data.
- **Report view:** visualization
- **Table view:** see the data
- **Model view:** so that we can create relationship among data.