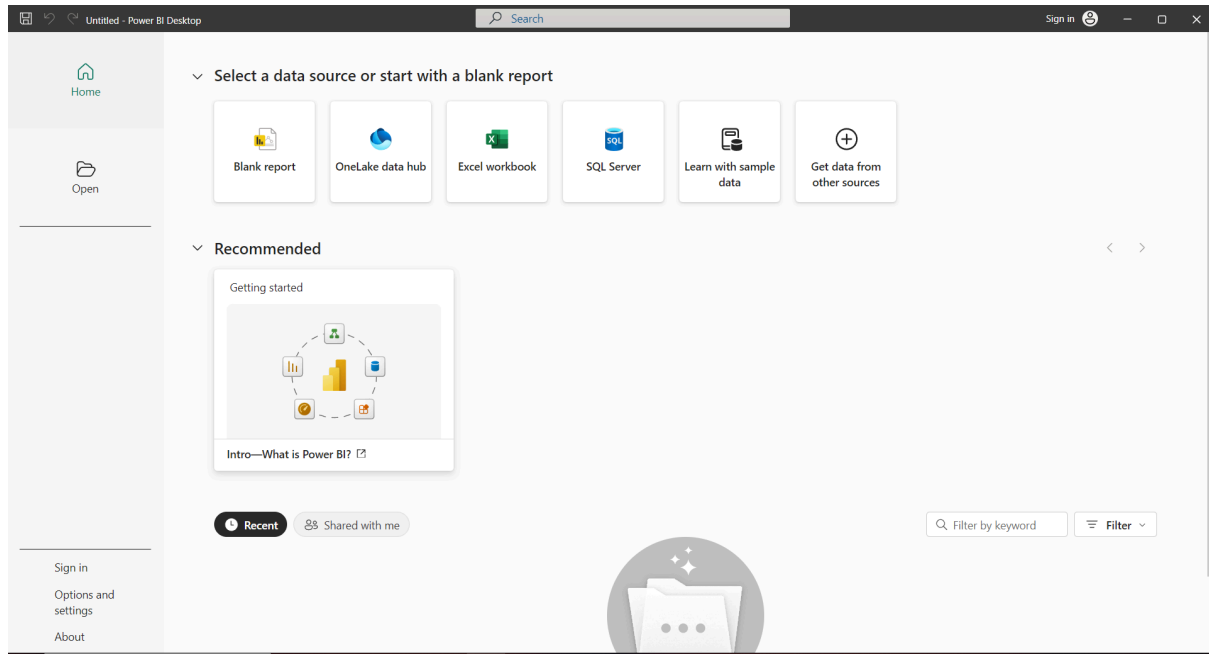


How to download Power BI?

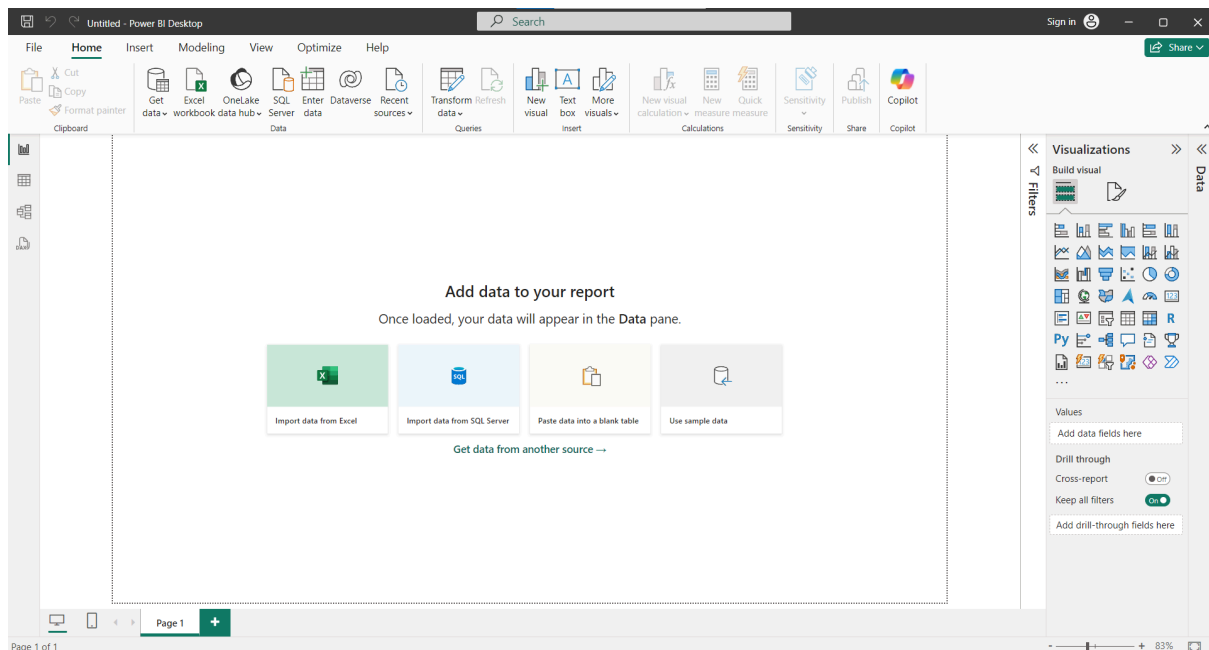
Step 1:

Click on this link: <https://www.microsoft.com/en-us/download/details.aspx?id=58494>

Step 2: After download & install Power Bi Platform then open it.



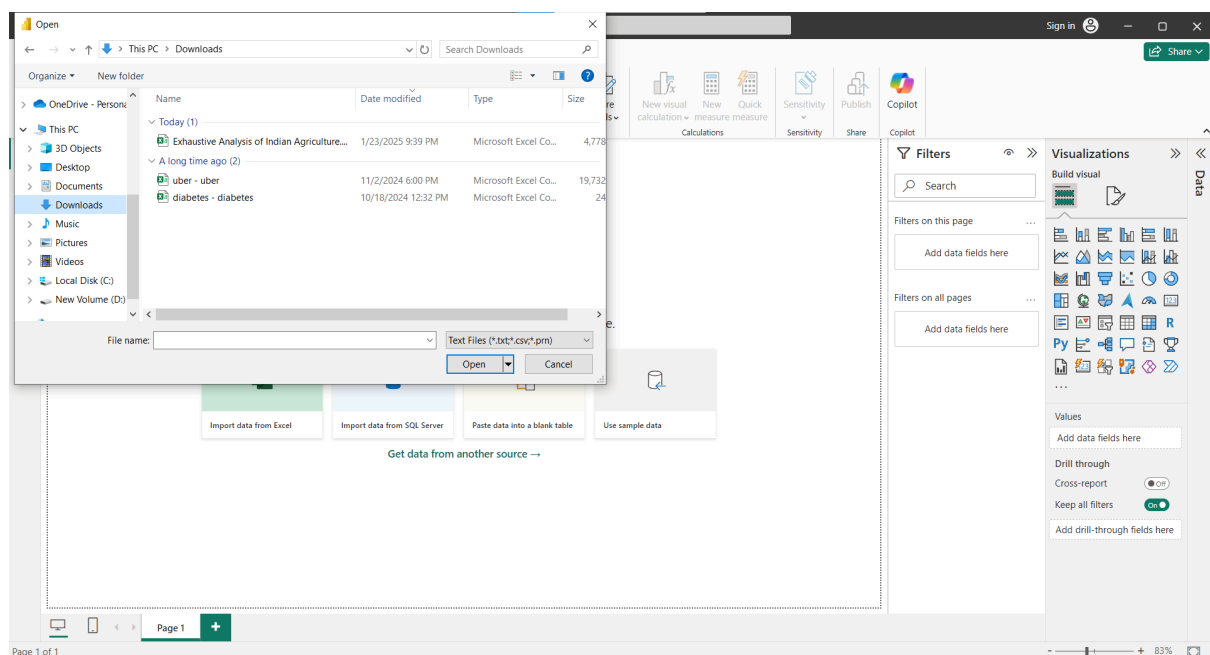
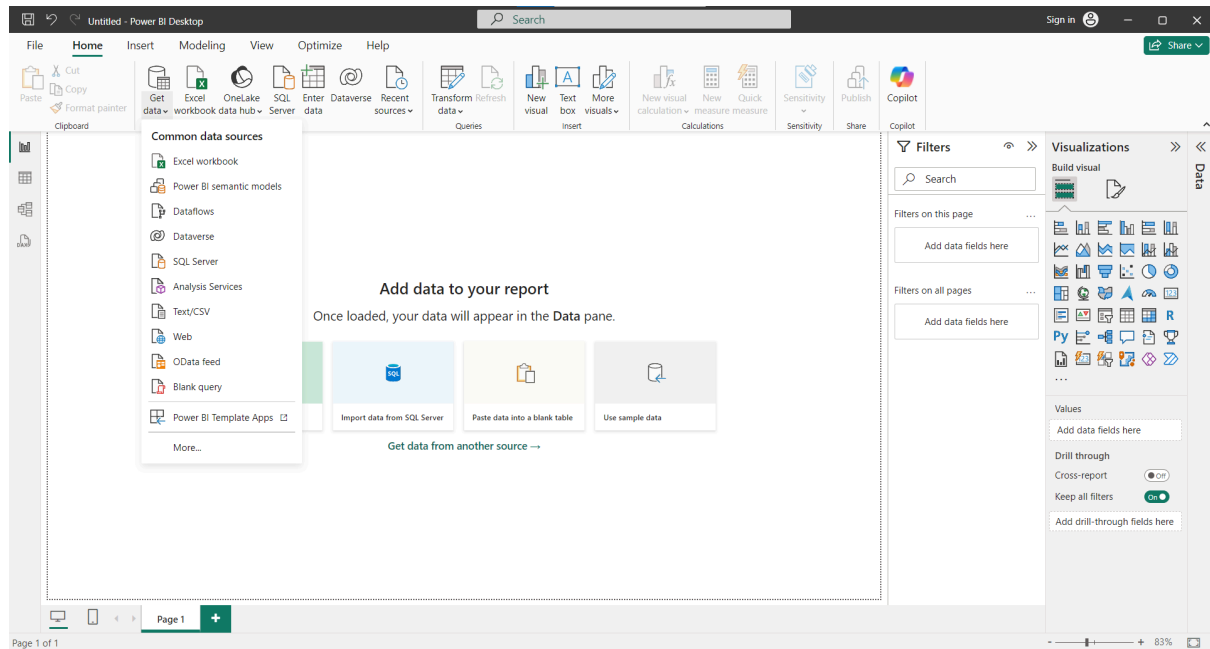
Step 3: After click on **Blank report** then appear Power BI Desktop Window.



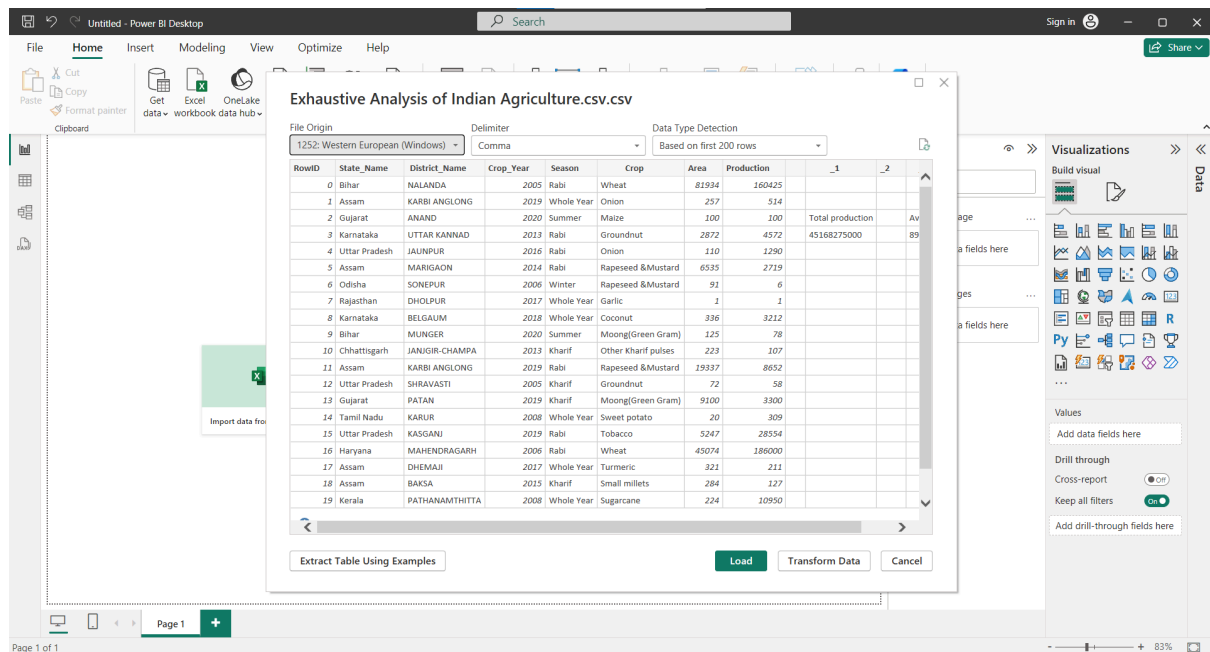
How to Extract Data?

Need the DataSet. We used (Exhaustive Analysis of Indian Agriculture.csv.csv) Dataset..

Step 4: Click on **Get Data** from which multiple data sources are available. Read the data from multiple data sources. We read data from **csv data source**.



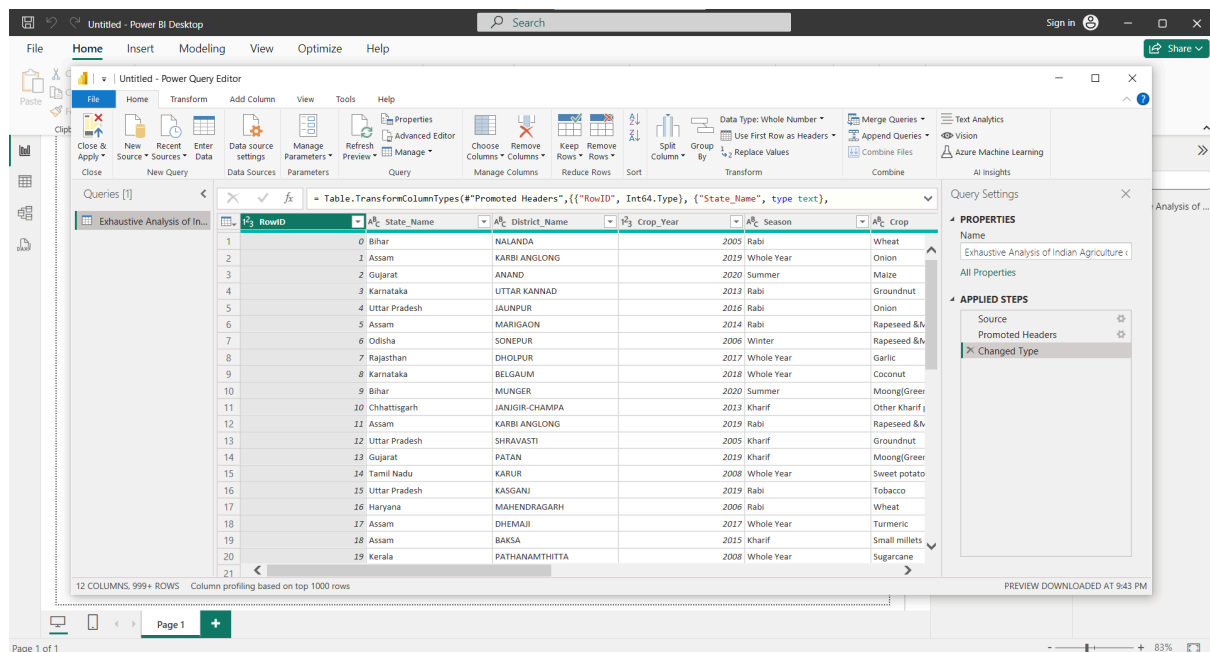
Step 5: You can see the Overview of Data window



Step 6: If your data is not clean then click on **Load** Button.

How to Transform Data?

Step 7: Click on **Transform Data**, another window is open(Power Query Editor).



How to remove Columns?

Step 8: Select that column then right click and click on **remove** option.



Untitled - Power Query Editor

File Home Transform Add Column View Tools Help

Close & Apply * New * Recent * Enter Data * Data source settings * Manage Parameters * Refresh * Properties * Advanced Editor * Manage * Choose * Remove Columns * Keep * Remove Rows * Sort * Split * Group By * Transform * Data Type: Decimal Number * Merge Queries * Text Analytics * Append Queries * Vision * Combine Files * Azure Machine Learning * Combine * AI Insights

Queries [1] `= Table.RemoveColumns(#"Changed Type",{"_1", "_2", "_3"})`

| | District_Name | Crop_Year | Season | Crop | Area | Production |
|----|----------------|-----------|------------|---------------------|-------|------------|
| 1 | NALANDA | 2005 | Rabi | Wheat | 81934 | 160425 |
| 2 | KARBI ANGLONG | 2019 | Whole Year | Onion | 257 | 514 |
| 3 | ANAND | 2020 | Summer | Maize | 100 | 100 |
| 4 | UTTAR KANNAD | 2013 | Rabi | Groundnut | 2872 | 4572 |
| 5 | JAUNPUR | 2016 | Rabi | Onion | 110 | 1290 |
| 6 | MARIGAON | 2014 | Rabi | Rapeseed & Mustard | 6535 | 2719 |
| 7 | SONEPUR | 2006 | Winter | Rapeseed & Mustard | 91 | 6 |
| 8 | DHOLPUR | 2017 | Whole Year | Garlic | 1 | 1 |
| 9 | BELGAUM | 2018 | Whole Year | Coconut | 336 | 3212 |
| 10 | MUNGER | 2020 | Summer | Moong(Green Gram) | 125 | 78 |
| 11 | JANIGIR-CHAMPA | 2013 | Kharif | Other Kharif pulses | 223 | 107 |
| 12 | KARBI ANGLONG | 2019 | Rabi | Rapeseed & Mustard | 19337 | 8652 |
| 13 | SHRAVASTI | 2005 | Kharif | Groundnut | 72 | 58 |
| 14 | PATAN | 2019 | Kharif | Moong(Green Gram) | 9100 | 3300 |
| 15 | KARUR | 2008 | Whole Year | Sweet potato | 20 | 309 |
| 16 | KASGANJ | 2019 | Rabi | Tobacco | 5247 | 28554 |
| 17 | MAHENDRAGARH | 2006 | Rabi | Wheat | 45074 | 186000 |
| 18 | DHEMAJI | 2017 | Whole Year | Turmeric | 321 | 211 |
| 19 | BAKSA | 2015 | Kharif | Small millets | 284 | 127 |
| 20 | PATHANAMTHITTA | 2008 | Whole Year | Sugarcane | 224 | 10950 |
| 21 | JANIGIR-CHAMPA | 2018 | Rabi | Linseed | 2497 | 658 |
| 22 | DHAMTARI | 2020 | Whole Year | Banana | 46 | 1520 |
| 23 | BELLARY | 2016 | Rabi | Maize | 3418 | 7487 |
| 24 | TINSUKIA | 2020 | Autumn | Rice | 5806 | 7994 |
| 25 | RAE BARELI | 2016 | Kharif | Maize | 11 | 13 |
| 26 | KOLAR | 2020 | Rabi | Cowpea(Lobia) | 14 | 5 |
| 27 | NEEMUCH | 2019 | Whole Year | Sesamum | 780 | 456 |
| 28 | ... | ... | ... | ... | ... | ... |

8 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 11:55 PM

Query Settings

PROPERTIES

Name

Exhaustive Analysis of Indian Agriculture

APPLIED STEPS

Source

Promoted Headers

Changed Type

Removed Columns

Step 9: We can restore the deleted columns.click on **cross button** in **Applied steps**.

Table: Table.RemoveColumns(*Changed Type,{"", "1", "2", "3"})

| | District_Name | Crop_Year | Season | Crop | Area | Production |
|----|----------------|-----------|------------|---------------------|-------|------------|
| 1 | NALANDA | 2005 | Rabi | Wheat | 81934 | 160425 |
| 2 | KARBI ANGLONG | 2019 | Whole Year | Onion | 257 | 514 |
| 3 | ANAND | 2020 | Summer | Maize | 100 | 100 |
| 4 | UTTAR KANNAD | 2013 | Rabi | Groundnut | 2872 | 4572 |
| 5 | JAINPUR | 2016 | Rabi | Onion | 110 | 1290 |
| 6 | MARIGAON | 2014 | Rabi | Rapeseed & Mustard | 6535 | 2719 |
| 7 | SONEPUR | 2006 | Winter | Rapeseed & Mustard | 91 | 6 |
| 8 | DHOLPUR | 2017 | Whole Year | Garlic | 1 | 1 |
| 9 | BELGAUM | 2018 | Whole Year | Coconut | 336 | 3212 |
| 10 | MUNGER | 2020 | Summer | Moong(Green Gram) | 125 | 78 |
| 11 | JANIGIR-CHAMPA | 2013 | Kharif | Other Kharif pulses | 223 | 107 |
| 12 | KARBI ANGLONG | 2019 | Rabi | Rapeseed & Mustard | 19337 | 8652 |
| 13 | SHRAVASTI | 2005 | Kharif | Groundnut | 72 | 58 |
| 14 | PATAN | 2019 | Kharif | Moong(Green Gram) | 9100 | 3300 |
| 15 | KARUR | 2008 | Whole Year | Sweet potato | 20 | 309 |
| 16 | KASGANJ | 2019 | Rabi | Tobacco | 5247 | 28554 |
| 17 | MAHENDRAGARH | 2006 | Rabi | Wheat | 45074 | 186000 |
| 18 | DHEMAJI | 2017 | Whole Year | Turmeric | 321 | 211 |
| 19 | BAKSA | 2015 | Kharif | Small millets | 284 | 127 |
| 20 | PATHANAMTHITTA | 2008 | Whole Year | Sugarcane | 224 | 10950 |
| 21 | JANIGIR-CHAMPA | 2018 | Rabi | Linseed | 2497 | 658 |
| 22 | DHAMTARI | 2020 | Whole Year | Banana | 46 | 1520 |
| 23 | BELLARY | 2016 | Rabi | Maize | 3418 | 7487 |
| 24 | TINSUKIA | 2020 | Autumn | Rice | 5806 | 7964 |
| 25 | RAE BARELI | 2016 | Kharif | Maize | 11 | 13 |
| 26 | KOLAR | 2020 | Rabi | Cowpea(Lobia) | 14 | 5 |
| 27 | NEEMUCH | 2019 | Whole Year | Sesamum | 780 | 456 |
| 28 | BANDHUMAN | 2016 | Kharif | Groundnut | 33 | 13 |

How i can check my data contains NULL Value OR Missing Value?

Step 10: Go to **View** tab in which click on **Column quality**. One small box appear below the Column names. Then click on **Empty** we check NULL Values.

Table: Table.RemoveColumns(*Changed Type,{"", "1", "2", "3"})

| | District_Name | Crop_Year | Season | Crop | Area | Production |
|----|----------------|-----------|------------|---------------------|-------|------------|
| 1 | NALANDA | 2005 | Rabi | Wheat | 81934 | 160425 |
| 2 | KARBI ANGLONG | 2019 | Whole Year | Onion | 257 | 514 |
| 3 | ANAND | 2020 | Summer | Maize | 100 | 100 |
| 4 | UTTAR KANNAD | 2013 | Rabi | Groundnut | 2872 | 4572 |
| 5 | JAINPUR | 2016 | Rabi | Onion | 110 | 1290 |
| 6 | MARIGAON | 2014 | Rabi | Rapeseed & Mustard | 6535 | 2719 |
| 7 | SONEPUR | 2006 | Winter | Rapeseed & Mustard | 91 | 6 |
| 8 | DHOLPUR | 2017 | Whole Year | Garlic | 1 | 1 |
| 9 | BELGAUM | 2018 | Whole Year | Coconut | 336 | 3212 |
| 10 | MUNGER | 2020 | Summer | Moong(Green Gram) | 125 | 78 |
| 11 | JANIGIR-CHAMPA | 2013 | Kharif | Other Kharif pulses | 223 | 107 |
| 12 | KARBI ANGLONG | 2019 | Rabi | Rapeseed & Mustard | 19337 | 8652 |
| 13 | SHRAVASTI | 2005 | Kharif | Groundnut | 72 | 58 |
| 14 | PATAN | 2019 | Kharif | Moong(Green Gram) | 9100 | 3300 |
| 15 | KARUR | 2008 | Whole Year | Sweet potato | 20 | 309 |
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| 22 | DHAMTARI | 2020 | Whole Year | Banana | 46 | 1520 |
| 23 | BELLARY | 2016 | Rabi | Maize | 3418 | 7487 |
| 24 | TINSUKIA | 2020 | Autumn | Rice | 5806 | 7964 |
| 25 | RAE BARELI | 2016 | Kharif | Maize | 11 | 13 |

Step 11: If NULL Value present in the Dataset then click on the **Remove Rows** below are options to Remove NULL Value.

Power Query Editor interface showing a table with columns: District_Name, Crop_Year, Season, Crop, Area, and Production. The table contains 25 rows of data. The 'Crop' column lists various crops like Wheat, Maize, Groundnut, etc. The 'Area' and 'Production' columns show numerical values. The interface includes a ribbon with tabs like Home, Transform, and View, and a right-hand pane with 'Query Settings' and 'Applied Steps'.

Step 12: All the changes will reflect in **Power Bi Desktop** click on **Close & Apply**.
Step 13: Go to **Table View** and check it.

Power BI Desktop interface showing the 'Table View' of the 'Exhaustive Analysis of Indian Agriculture' table. The table has columns: RowID, State_Name, District_Name, Crop_Year, Season, Crop, Area, and Production. The table contains 18820 rows of data. The 'State_Name' column lists various states like Uttar Pradesh, Bihar, etc. The 'Crop' column lists various crops like Moong(Green Gram), Small millets, etc. The 'Area' and 'Production' columns show numerical values. The interface includes a ribbon with tabs like File, Home, and Help, and a right-hand pane with 'Data' and 'Applied Steps'.