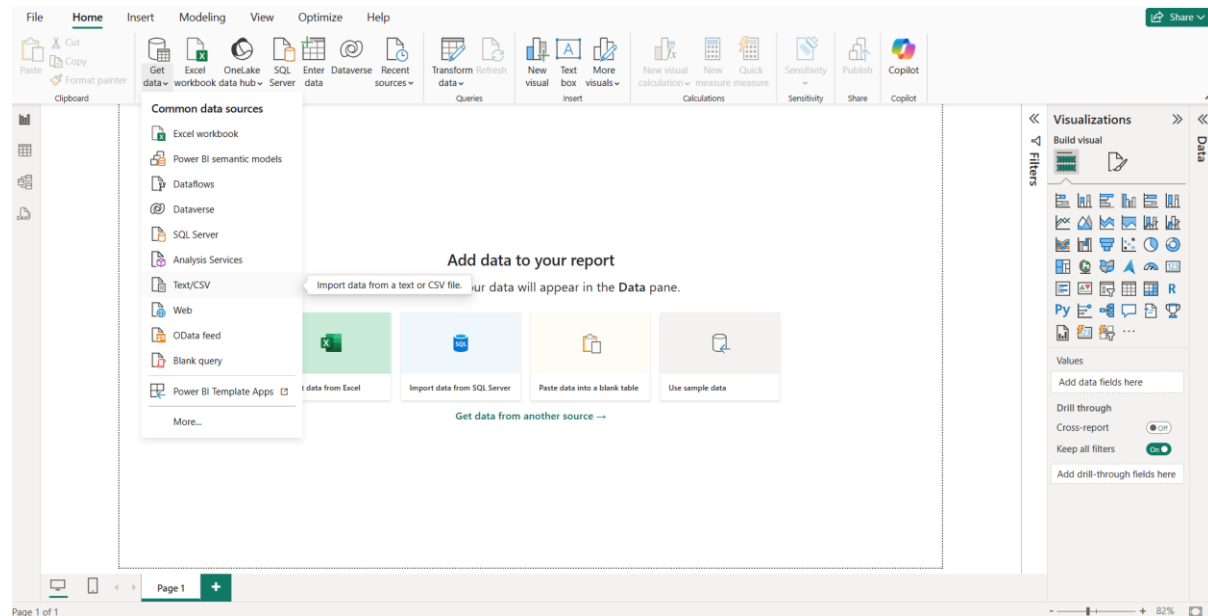


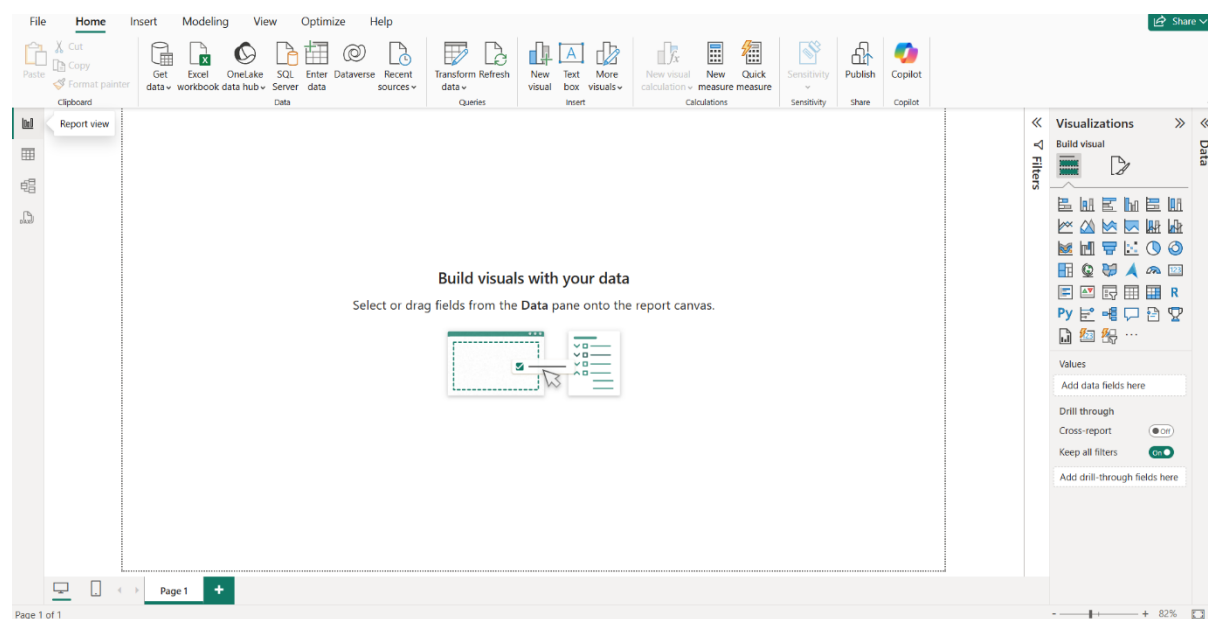
## STEP 1 :- EXTRACT THE DATA FROM VARIOUS DATA SOURCE

(Click on the GET DATA tab and import data from CSV File)



## STEP 2:- There are three types of view-

a) REPORT VIEW- We perform all the visualizations



## b) TABLE VIEW:- Overview of all the data

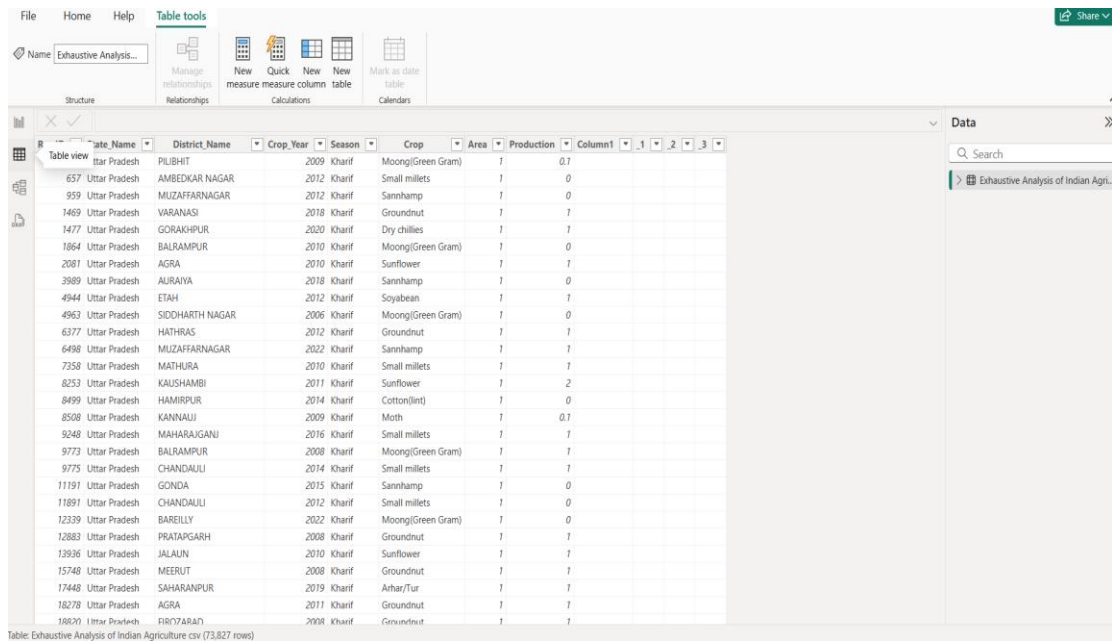
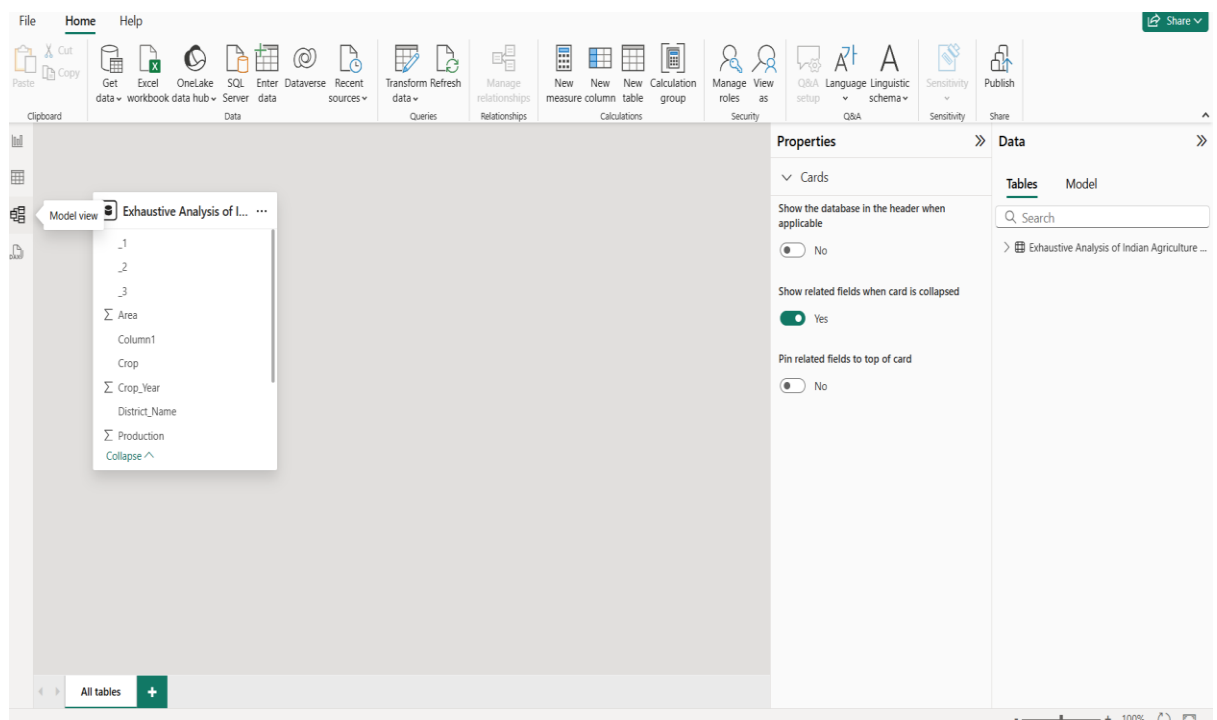


Table view	District Name	Crop	Area	Production	Column1	.1	.2	.3
657	Uttar Pradesh	PILIBHIT	2009 Kharif	Moong(Green Gram)	1	0.7		
959	Uttar Pradesh	AMBEDKAR NAGAR	2012 Kharif	Small millets	1	0		
1469	Uttar Pradesh	MUZAFFARNAGAR	2012 Kharif	Sannhamp	1	0		
1477	Uttar Pradesh	VARANASI	2018 Kharif	Groundnut	1	1		
1864	Uttar Pradesh	GORAKHPUR	2020 Kharif	Dry chillies	1	1		
2081	Uttar Pradesh	BALRAMPUR	2010 Kharif	Moong(Green Gram)	1	0		
3969	Uttar Pradesh	AGRA	2010 Kharif	Sunflower	1	1		
4944	Uttar Pradesh	AURAIYA	2018 Kharif	Sannhamp	1	0		
4963	Uttar Pradesh	ETAH	2012 Kharif	Soyabean	1	1		
6377	Uttar Pradesh	SIDDHARTH NAGAR	2006 Kharif	Moong(Green Gram)	1	0		
6498	Uttar Pradesh	HATHRAS	2012 Kharif	Groundnut	1	1		
7358	Uttar Pradesh	MUZAFFARNAGAR	2022 Kharif	Sannhamp	1	1		
8253	Uttar Pradesh	MATHURA	2010 Kharif	Small millets	1	1		
8499	Uttar Pradesh	KAUSHAMBI	2011 Kharif	Sunflower	1	2		
8508	Uttar Pradesh	HAMIRPUR	2014 Kharif	Cotton(lint)	1	0		
9248	Uttar Pradesh	KANNAUJ	2009 Kharif	Moth	1	0.7		
9773	Uttar Pradesh	MAHARAJGANJ	2016 Kharif	Small millets	1	1		
11191	Uttar Pradesh	BALRAMPUR	2008 Kharif	Moong(Green Gram)	1	1		
11891	Uttar Pradesh	CHANDAUJI	2014 Kharif	Small millets	1	1		
12339	Uttar Pradesh	GONDA	2015 Kharif	Sannhamp	1	0		
12883	Uttar Pradesh	CHANDAUJI	2012 Kharif	Small millets	1	0		
13936	Uttar Pradesh	BAREILLY	2022 Kharif	Moong(Green Gram)	1	0		
15748	Uttar Pradesh	PRATAPGARH	2008 Kharif	Groundnut	1	1		
17448	Uttar Pradesh	JALAIUN	2010 Kharif	Sunflower	1	1		
18278	Uttar Pradesh	MEERUT	2008 Kharif	Groundnut	1	1		
18620	Uttar Pradesh	SAHARANPUR	2019 Kharif	Arhar/Tur	1	1		
	Uttar Pradesh	AGRA	2011 Kharif	Groundnut	1	1		
	Uttar Pradesh	FIRIYARAH	2008 Kharif	Groundnut	1	1		

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

## c) MODEL VIEW:- Data being collected from two sources and joining the data from both the sources



Model view

Exhaustive Analysis of Indian Agriculture

- .1
- .2
- .3
- Σ Area
- Column1
- Crop
- Σ Crop\_year
- District\_Name
- Σ Production
- Collapse ^

Properties

Cards

Show the database in the header when applicable

☐ No

Show related fields when card is collapsed

☒ Yes

Pin related fields to top of card

☐ No

Tables

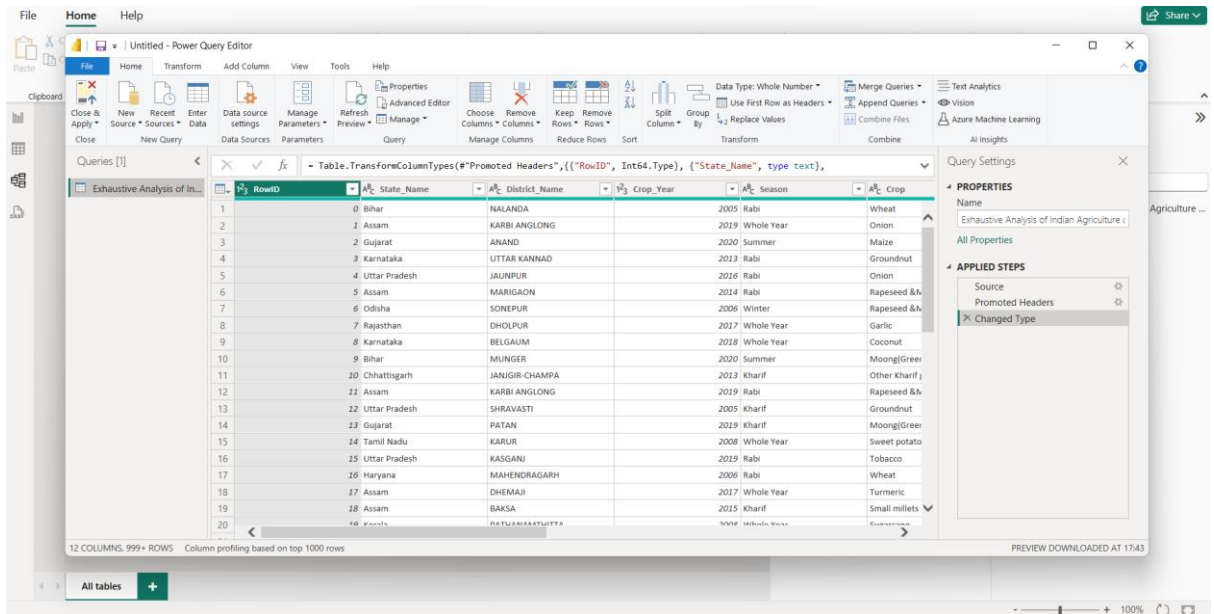
Model

Exhaustive Analysis of Indian Agriculture

All tables

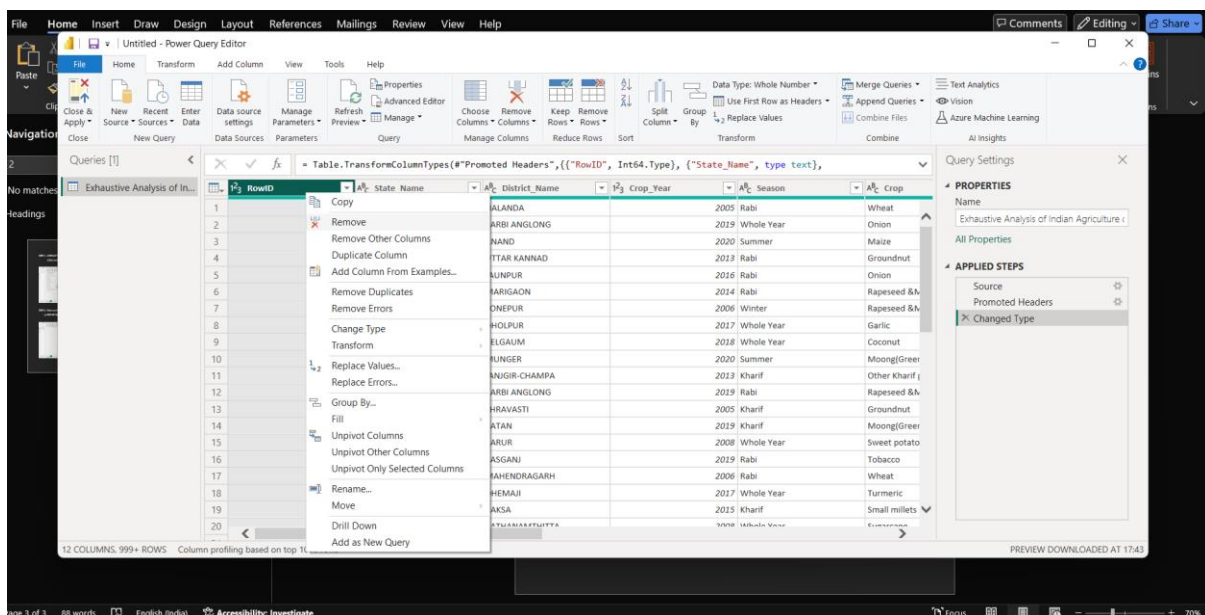
## STEP 3:- POWER QUERY EDITOR

(It is used for transformation process)



## STEP 4:- REMOVE A COLUMN

- 1) Right click
- 2) Click on the REMOVE Button



## STEP 5:- TO CHECK WHETHER YOUR DATA CONTAINS NULL VALUE OR NOT

- 1) Click on VIEW Button
- 2) Click on the Column Quality

The screenshot shows the Power Query Editor interface. The 'View' tab is selected, and the 'Column Quality' button is highlighted. The main data table is displayed with columns: State\_Name, District\_Name, Crop\_Year, Season, Crop, Area, and Production. The 'Column Quality' pane on the right shows the quality of each column, with 'Valid' status and 'Error' count for each. The 'APPLIED STEPS' pane on the right shows the steps applied to the query, including 'Removed Columns'.

Column	Valid	Error	Empty
State_Name	100%	0%	0%
District_Name	100%	0%	0%
Crop_Year	100%	0%	0%
Season	100%	0%	0%
Crop	100%	0%	0%
Area	100%	0%	0%
Production	100%	0%	0%

## STEP 6:- TO REMOVE THE NULL VALUES

- 1) Click on REMOVE Button and Click on REMOVE Duplicates

The screenshot shows the Power Query Editor interface. The 'Remove Duplicates' button is highlighted in the 'Transform' tab. The main data table is displayed with columns: State\_Name, District\_Name, Crop\_Year, Season, Crop, Area, and Production. The 'Column Quality' pane on the right shows the quality of each column, with 'Valid' status and 'Error' count for each. The 'APPLIED STEPS' pane on the right shows the steps applied to the query, including 'Removed Duplicates'.

Column	Valid	Error	Empty
State_Name	100%	0%	0%
District_Name	100%	0%	0%
Crop_Year	100%	0%	0%
Season	100%	0%	0%
Crop	100%	0%	0%
Area	100%	0%	0%
Production	100%	0%	0%

## STEP 7:- TO MAKE THE CHANGES REFLECTED ON POWER BI DESKTOP (Click on the CLOSE AND APPLY BUTTON)

Close the Query Editor window and apply any pending changes.

Table.RemoveRowsWithErrors(\*Removed Duplicates\*, ("Area"))

	State	District	Crop Year	Season	Crop	Area
1	Bihar	NALANDA	2005	Rabi	Wheat	81934
2	Assam	KARBI ANGLONG	2019	Whole Year	Onion	257
3	Gujarat	ANAND	2020	Summer	Maize	100
4	Karnataka	UTTAR KANNAD	2013	Rabi	Groundnut	2872
5	Uttar Pradesh	JALNPUR	2016	Rabi	Onion	110
6	Assam	MARIGAON	2014	Rabi	Rapeseed & Mustard	6535
7	Odisha	SONEPUR	2006	Winter	Rapeseed & Mustard	91
8	Rajasthan	DHOLPUR	2017	Whole Year	Garlic	1
9	Karnataka	BELGAUM	2018	Whole Year	Coconut	336
10	Bihar	MUNGER	2020	Summer	Moong(Green Gram)	125
11	Chhattisgarh	JANIGIR-CHAMPA	2013	Kharif	Other Kharif pulses	223
12	Assam	KARBI ANGLONG	2019	Rabi	Rapeseed & Mustard	19337
13	Uttar Pradesh	SHRAVASTI	2005	Kharif	Groundnut	72
14	Gujarat	PATAN	2019	Kharif	Moong(Green Gram)	9100
15	Tamil Nadu	KARUR	2008	Whole Year	Sweet potato	20
16	Uttar Pradesh	KASGANI	2019	Rabi	Tobacco	5247
17	Haryana	MAHENDRAGARH	2006	Rabi	Wheat	45074
18	Assam	DHEMAJI	2017	Whole Year	Turmeric	321
19	Assam	BAKSA	2015	Kharif	Small millets	284
20	Kerala	PATHANAMTHITTA	2008	Whole Year	Sugarcane	224
21	Chhattisgarh	JANIGIR-CHAMPA	2018	Rabi	Linseed	2497
22	Chhattisgarh	DHAMTARI	2020	Whole Year	Banana	46
23	Karnataka	BELLARY	2016	Rabi	Maize	3418
24	Assam	TINSUKIA	2020	Autumn	Rice	5806
25	Uttar Pradesh	RAE BARELI	2016	Kharif	Maize	11

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

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## STEP 8:- DATA TYPES- We can also change the data type

Table.RemoveRowsWithErrors(\*Removed Duplicates\*, {"Area"})

	State	District	Crop Year	Season	Crop	Area	
1.2	Decimal Number	Valid	100%	Valid	100%	Valid	100%
\$	Fixed decimal number	Error	0%	Error	0%	Error	0%
y3	Whole Number	Empty	0%	Empty	0%	Empty	0%
1	%	AND	2005	Rabi	Wheat	81934	
2	Date/Time	BI ANGLONG	2019	Whole Year	Onion	257	
3	Date	ND	2020	Summer	Maize	100	
4	Time	AR KANNAD	2013	Rabi	Groundnut	2872	
5	Date/Time/Timezone	NPUR	2016	Rabi	Onion	110	
6	Duration	IGAON	2014	Rabi	Rapeseed & Mustard	6535	
7	Text	EPUR	2006	Winter	Rapeseed & Mustard	91	
8	True/False	LPUR	2017	Whole Year	Garlic	1	
9	Binary	JAUM	2018	Whole Year	Coconut	336	
10	Using Locale...	WGER	2020	Summer	Moong(Green Gram)	125	
11		IGIR-CHAMPA	2013	Kharif	Other Kharif pulses	223	
12		KARBI ANGLONG	2019	Rabi	Rapeseed & Mustard	19337	
13		SHRAVASTI	2005	Kharif	Groundnut	72	
14		PATAN	2019	Kharif	Moong(Green Gram)	9100	
15		KARUR	2008	Whole Year	Sweet potato	20	
16		KASGANI	2019	Rabi	Tobacco	5247	
17		MAHENDRAGARH	2006	Rabi	Wheat	45074	
18		DHEMAJI	2017	Whole Year	Turmeric	321	
19		BAKSA	2015	Kharif	Small millets	284	
20		PATHANAMTHITTA	2008	Whole Year	Sugarcane	224	
21		JANIGIR-CHAMPA	2018	Rabi	Linseed	2497	
22		DHAMTARI	2020	Whole Year	Banana	46	
23		BELLARY	2016	Rabi	Maize	3418	
24		TINSUKIA	2020	Autumn	Rice	5806	
25		RAE BARELI	2016	Kharif	Maize	11	

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

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