

# Abdulrahim Tanwar

## Week-1 Task-1

### 1. Load the dataset into powerbi

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	Ave
3	Karnataka	UTTAR KANNAD	2013	Rabi	Groundnut	2872	4572	45168275000	890
4	Uttar Pradesh	JAINPUR	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	BEIGALUR	2018	Whole Year	Coconut	336	3212		
9	Bihar	MUNGER	2020	Summer	Moong(Green Gram)	125	78		
10	Chhattisgarh	JANAGIR-CHAMPA	2013	Kharif	Other Kharif pulses	223	107		
11	Assam	KARBI ANGLONG	2019	Rabi	Rapeseed & Mustard	19337	8652		
12	Uttar Pradesh	SHIVASTI	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	KASGANI	2019	Rabi	Tobacco	5247	28554		
16	Haryana	MAHENDRAGARH	2006	Rabi	Wheat	45074	186000		
17	Assam	DHEMAJAI	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 | Load | Transform Data | Cancel

### 2. Tables in transform tab

Table tools

Name: Exhaustive Analysis...

Structure | Manage relationships | New measure | Quick measure | New column | New table | Mark as date table | Calendars

RowID	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production	Column1	.1	.2	.3
48	Uttar Pradesh	PIUBHIT	2009	Kharif	Moong(Green Gram)	1	0.1				
657	Uttar Pradesh	AMBEDKAR NAGAR	2012	Kharif	Small millets	1	0				
959	Uttar Pradesh	MUZAFFARNAGAR	2012	Kharif	Sannhamp	1	0				
1469	Uttar Pradesh	VARANASI	2018	Kharif	Groundnut	1	1				
1477	Uttar Pradesh	GORAKHPUR	2020	Kharif	Dry ch   Groundnut	1	1				
1864	Uttar Pradesh	BALRAMPUR	2010	Kharif	Moong(Green Gram)	1	0				
2081	Uttar Pradesh	AGRA	2010	Kharif	Sunflower	1	1				
3989	Uttar Pradesh	AURAIYA	2018	Kharif	Sannhamp	1	0				
4944	Uttar Pradesh	ETAH	2012	Kharif	Soyabean	1	1				
4963	Uttar Pradesh	SIDHARTH NAGAR	2006	Kharif	Moong(Green Gram)	1	0				
6377	Uttar Pradesh	HATHRAS	2012	Kharif	Groundnut	1	1				
6498	Uttar Pradesh	MUZAFFARNAGAR	2022	Kharif	Sannhamp	1	1				
7358	Uttar Pradesh	MATHURA	2010	Kharif	Small millets	1	1				
8253	Uttar Pradesh	KALSHAMBI	2011	Kharif	Sunflower	1	2				
8499	Uttar Pradesh	HAMIRPUR	2014	Kharif	Cotton(lint)	1	0				
8508	Uttar Pradesh	KANNIAJ	2009	Kharif	Moth	1	0.1				
9248	Uttar Pradesh	MAHARAGANJ	2016	Kharif	Small millets	1	1				
9773	Uttar Pradesh	BALRAMPUR	2008	Kharif	Moong(Green Gram)	1	1				
9775	Uttar Pradesh	CHANDAUJI	2014	Kharif	Small millets	1	1				
11191	Uttar Pradesh	GONDA	2015	Kharif	Sannhamp	1	0				
11891	Uttar Pradesh	CHANDAUJI	2012	Kharif	Small millets	1	0				
12339	Uttar Pradesh	BARILLI	2022	Kharif	Moong(Green Gram)	1	0				
12883	Uttar Pradesh	PRATAPGARH	2008	Kharif	Groundnut	1	1				

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

### 3. Deletion of empty and unwanted columns

Power Query Editor interface showing a table with 7 columns and 999+ rows. The formula bar displays the query name and parameters: `Table.RemoveColumns(#"Changed Type",{"RowID", "", "_1", "_2", "_3"})`. The right sidebar shows the 'APPLIED STEPS' list with 'Remove...' selected.

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
Assam	MARIGAOIN	2014	Rabi	Rapeseed & Mustard	6535	2719
Odisha	SONEPUR	2006	Winter	Rapeseed & Mustard	91	6
Rajasthan	DHOLPUR	2017	Whole Year	Garlic	1	1
Karnataka	BELGAUM	2018	Whole Year	Coconut	336	3212
Bihar	MUNGER	2020	Summer	Moong(Green Gram)	125	78
Chhattisgarh	JANIGIR-CHAMPA	2013	Kharif	Other Kharif pulses	223	107
Assam	KARBI ANGLONG	2019	Rabi	Rapeseed & Mustard	19337	8652
Uttar Pradesh	SHRAVASTI	2005	Kharif	Groundnut	72	58
Gujarat	PATAN	2019	Kharif	Moong(Green Gram)	9100	3300
Tamil Nadu	KARUR	2008	Whole Year	Sweet potato	20	309
Uttar Pradesh	KASGANJ	2019	Rabi	Tobacco	5247	28554
Haryana	MAHENDRAGARH	2006	Rabi	Wheat	45074	186000
Assam	DHEMAJI	2017	Whole Year	Turmeric	321	211
Assam	BAKSA	2015	Kharif	Small millets	284	127
Kerala	PATHANAMTHITTA	2008	Whole Year	Sugarcane	224	10950
Chhattisgarh	JANIGIR-CHAMPA	2018	Rabi	Linseed	2497	658
Chhattisgarh	DHAMTARI	2020	Whole Year	Banana	46	1520
Karnataka	BELLARY	2016	Rabi	Maize	9418	7487

### 4. Column quality

Power Query Editor interface showing the same table as before, but with a 'Column quality' column added. The formula bar displays the query name and parameters: `Table.RemoveColumns(#"Changed Type",{"RowID", "", "_1", "_2", "_3"})`. The right sidebar shows the 'APPLIED STEPS' list with 'Remove...' selected.

State_Name	District_Name	Crop_Year	Season	Crop	Area	Production	Column quality
Bihar	NALANDA	2005	Rabi	Wheat	81934	160425	Valid
Assam	KARBI ANGLONG	2019	Whole Year	Onion	257	514	Valid
Gujarat	ANAND	2020	Summer	Maize	100	100	Valid
Karnataka	UTTAR KANNAD	2013	Rabi	Groundnut	2872	4572	Valid
Uttar Pradesh	JAUNPUR	2016	Rabi	Onion	110	1290	Valid
Assam	MARIGAOIN	2014	Rabi	Rapeseed & Mustard	6535	2719	Valid
Odisha	SONEPUR	2006	Winter	Rapeseed & Mustard	91	6	Valid
Rajasthan	DHOLPUR	2017	Whole Year	Garlic	1	1	Valid
Karnataka	BELGAUM	2018	Whole Year	Coconut	336	3212	Valid
Bihar	MUNGER	2020	Summer	Moong(Green Gram)	125	78	Valid
Chhattisgarh	JANIGIR-CHAMPA	2013	Kharif	Other Kharif pulses	223	107	Valid
Assam	KARBI ANGLONG	2019	Rabi	Rapeseed & Mustard	19337	8652	Valid
Uttar Pradesh	SHRAVASTI	2005	Kharif	Groundnut	72	58	Valid
Gujarat	PATAN	2019	Kharif	Moong(Green Gram)	9100	3300	Valid
Tamil Nadu	KARUR	2008	Whole Year	Sweet potato	20	309	Valid
Uttar Pradesh	KASGANJ	2019	Rabi	Tobacco	5247	28554	Valid
Haryana	MAHENDRAGARH	2006	Rabi	Wheat	45074	186000	Valid
Assam	DHEMAJI	2017	Whole Year	Turmeric	321	211	Valid
Assam	BAKSA	2015	Kharif	Small millets	284	127	Valid
Kerala	PATHANAMTHITTA	2008	Whole Year	Sugarcane	224	10950	Valid
Chhattisgarh	JANIGIR-CHAMPA	2018	Rabi	Linseed	2497	658	Valid

5. Updated table at table view

Untitled - Power BI Desktop

File Home Help Table tools

Name Exhaustive Analysis...

Manage relationships Relationships

New measure Quick New New Mark as date table

Calculations Calendars

Structure

Data

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	2010	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	CHANDAULI	2014	Kharif	Small millets	1	1
Uttar Pradesh	GONDA	2015	Kharif	Sannhamp	1	0
Uttar Pradesh	CHANDAULI	2012	Kharif	Small millets	1	0
Uttar Pradesh	BAREILLY	2022	Kharif	Moong(Green Gram)	1	0
Uttar Pradesh	PRATAPGARH	2008	Kharif	Groundnut	1	1

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

2010 22-01-2025