Data analytics with power BI

Global food Production

Trends and Analysis

A comprehensive study from 1961 to 2023 using Power BI

Team members

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World Food Production

Different Food Production Data Since 1961-2023

Data Card | Code (16) | Discussion (1) | Suggestions (0)

About Dataset

This dataset contains data of total production of different types of foods in per year in each country from 1961-2023 of all country.

The foods are:

Usability

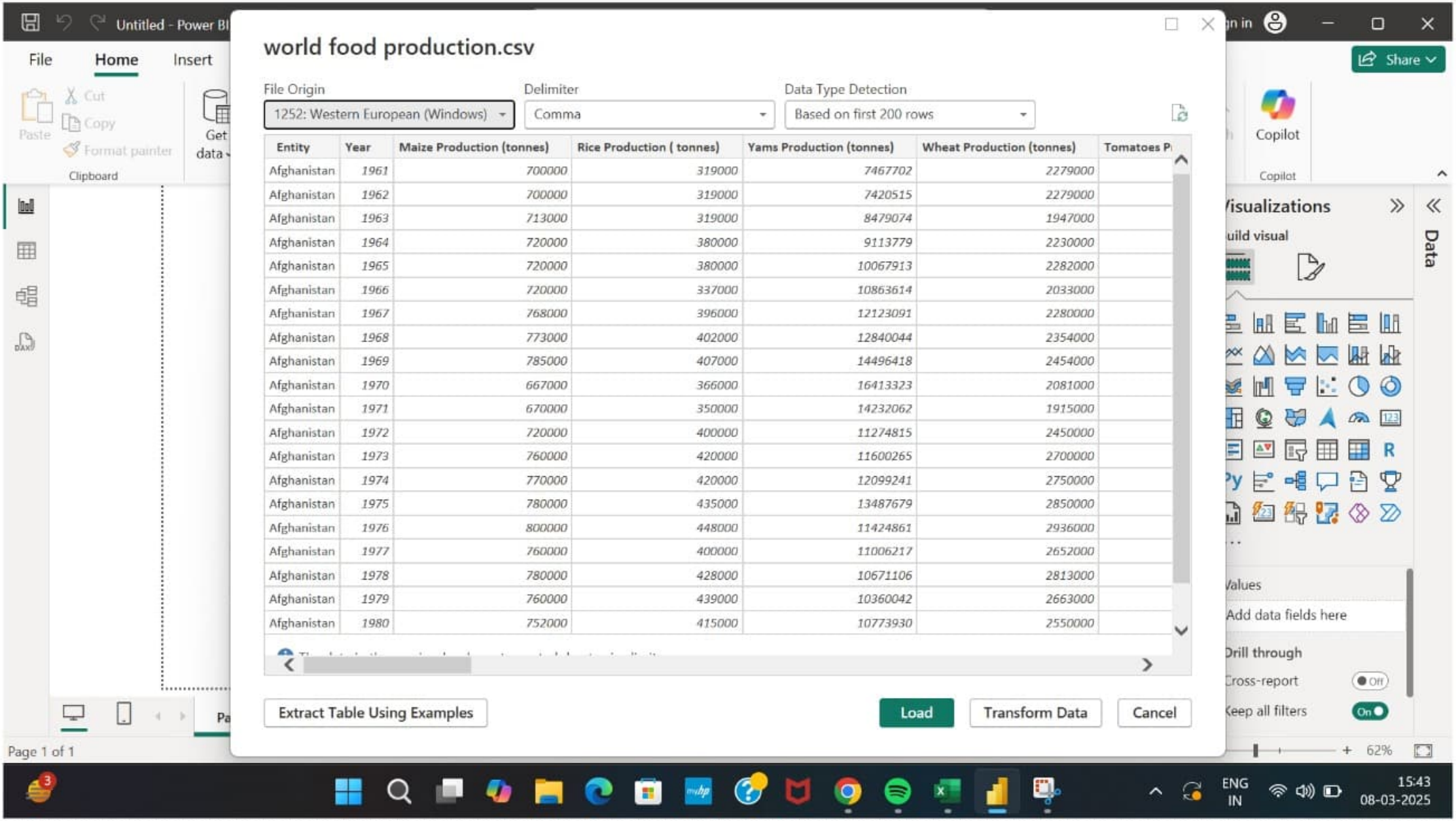
10.00

License

World Bank Dataset Terms of Use

Expected update frequency

Annually



world food production.csv

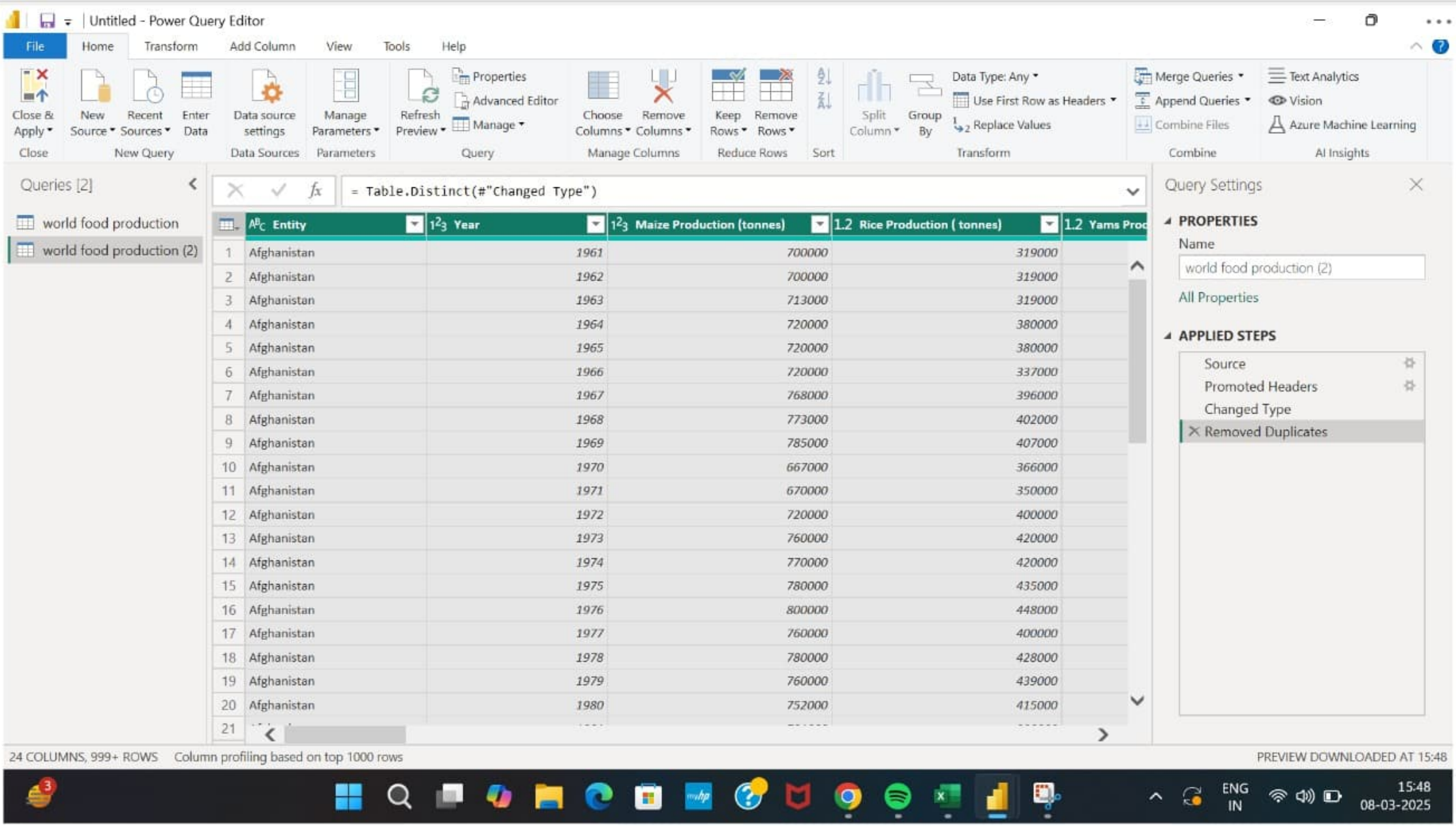
File Origin: 1252: Western European (Windows)

Delimiter: Comma

Data Type Detection: Based on first 200 rows

Entity	Year	Maize Production (tonnes)	Rice Production (tonnes)	Yams Production (tonnes)	Wheat Production (tonnes)	Tomatoes P
Afghanistan	1961	700000	319000	7467702	2279000	
Afghanistan	1962	700000	319000	7420515	2279000	
Afghanistan	1963	713000	319000	8479074	1947000	
Afghanistan	1964	720000	380000	9113779	2230000	
Afghanistan	1965	720000	380000	10067913	2282000	
Afghanistan	1966	720000	337000	10863614	2033000	
Afghanistan	1967	768000	396000	12123091	2280000	
Afghanistan	1968	773000	402000	12840044	2354000	
Afghanistan	1969	785000	407000	14496418	2454000	
Afghanistan	1970	667000	366000	16413323	2081000	
Afghanistan	1971	670000	350000	14232062	1915000	
Afghanistan	1972	720000	400000	11274815	2450000	
Afghanistan	1973	760000	420000	11600265	2700000	
Afghanistan	1974	770000	420000	12099241	2750000	
Afghanistan	1975	780000	435000	13487679	2850000	
Afghanistan	1976	800000	448000	11424861	2936000	
Afghanistan	1977	760000	400000	11006217	2652000	
Afghanistan	1978	780000	428000	10671106	2813000	
Afghanistan	1979	760000	439000	10360042	2663000	
Afghanistan	1980	752000	415000	10773930	2550000	

Extract Table Using Examples | Load | Transform Data | Cancel


Untitled - Power Query Editor
File
Home
Transform
Add Column
View
Tools
Help
Close & Apply
New Source
Recent Sources
Enter Data
Data source settings
Manage Parameters
Refresh Preview
Properties
Advanced Editor
Manage
Choose Columns
Remove Columns
Keep Rows
Remove Rows
Split Column
Group By
Data Type: Any
Use First Row as Headers
Replace Values
Merge Queries
Append Queries
Combine Files
Text Analytics
Vision
Azure Machine Learning
Close
New Query
Data Sources
Parameters
Query
Manage Columns
Reduce Rows
Sort
Transform
Combine
AI Insights
Queries [2]
world food production
world food production (2)
= Table.Distinct(#"Changed Type")
Entity
Year
Maize Production (tonnes)
Rice Production (tonnes)
Yams Proc
1 Afghanistan 1961 700000 319000
2 Afghanistan 1962 700000 319000
3 Afghanistan 1963 713000 319000
4 Afghanistan 1964 720000 380000
5 Afghanistan 1965 720000 380000
6 Afghanistan 1966 720000 337000
7 Afghanistan 1967 768000 396000
8 Afghanistan 1968 773000 402000
9 Afghanistan 1969 785000 407000
10 Afghanistan 1970 667000 366000
11 Afghanistan 1971 670000 350000
12 Afghanistan 1972 720000 400000
13 Afghanistan 1973 760000 420000
14 Afghanistan 1974 770000 420000
15 Afghanistan 1975 780000 435000
16 Afghanistan 1976 800000 448000
17 Afghanistan 1977 760000 400000
18 Afghanistan 1978 780000 428000
19 Afghanistan 1979 760000 439000
20 Afghanistan 1980 752000 415000
21
Query Settings
PROPERTIES
Name
world food production (2)
All Properties
APPLIED STEPS
Source
Promoted Headers
Changed Type
Removed Duplicates
24 COLUMNS, 999+ ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 15:48
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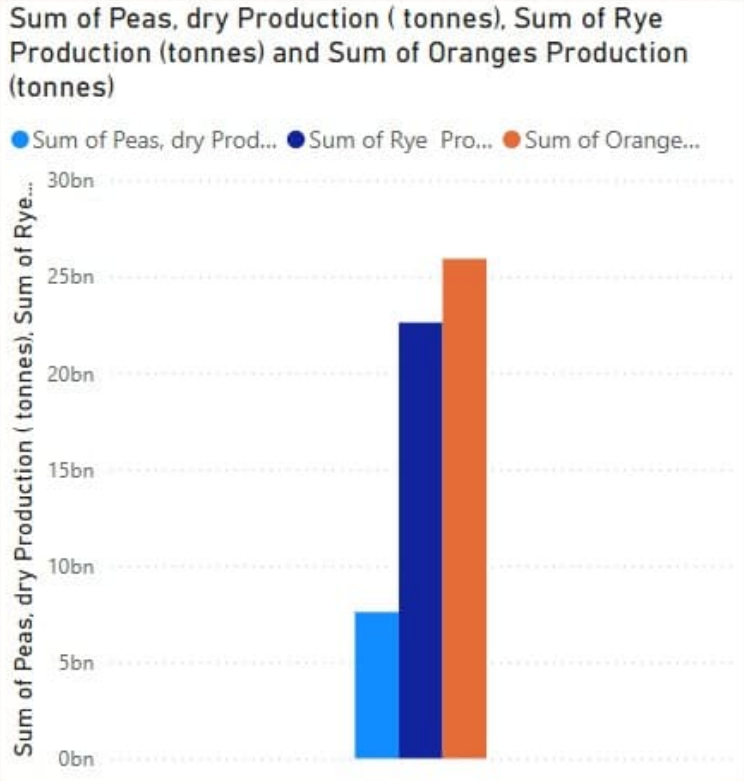
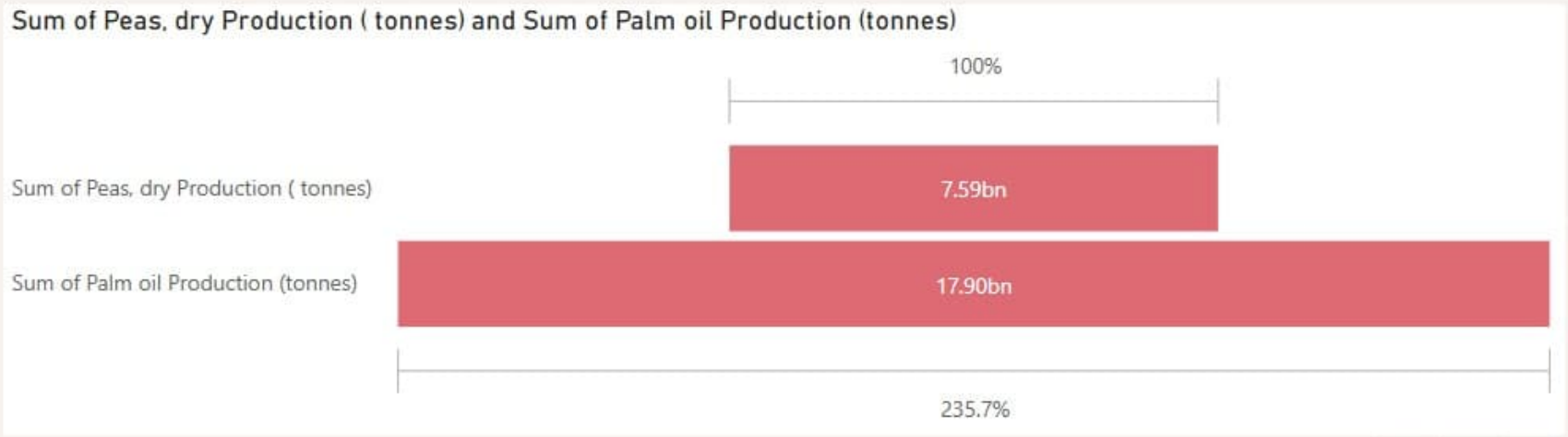
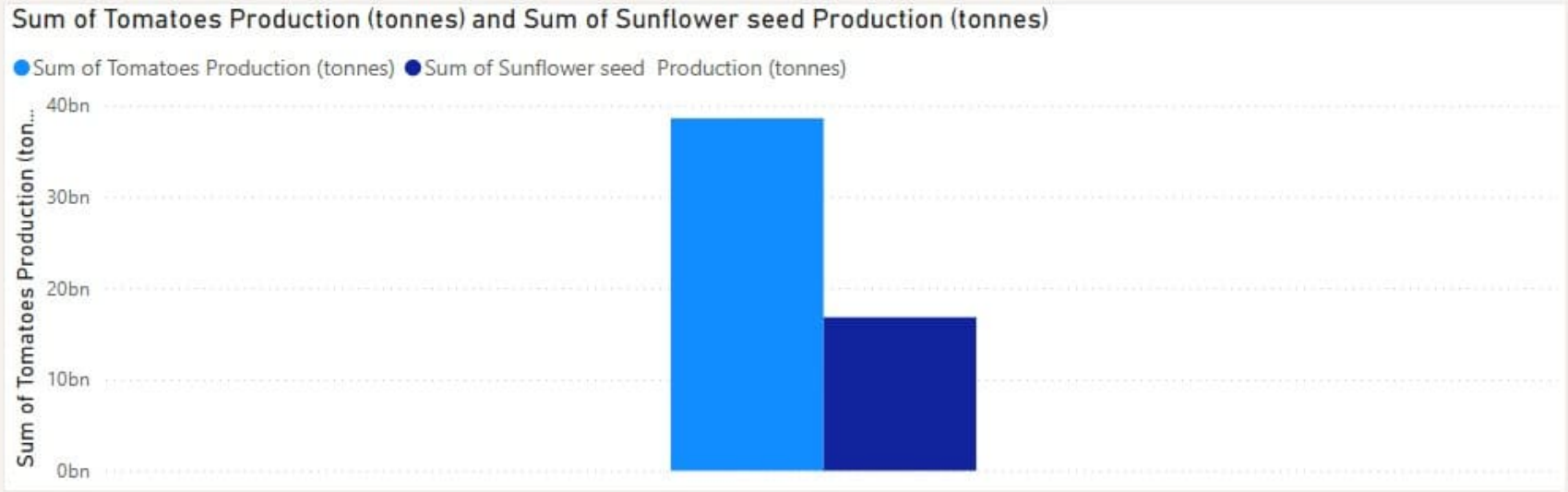
08-03-2025

DATA VISUALIZATION

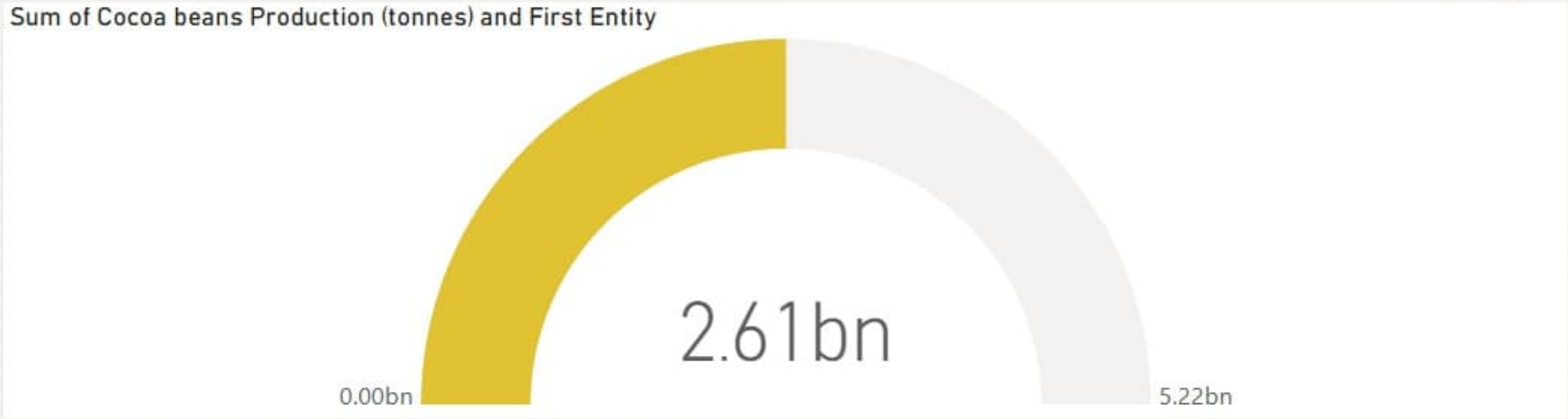


Food trend vis plant-ualizations help analyze changing consumer preferences and market shifts . line charts can track trends overtime , such as the rise of plant - based diets or organic food sales . bar charts compare different catagories pie charts illustrate market shares


Sum of Peas, dry Production (tonnes) and Sum of Palm oil Production (tonnes)
100%
Sum of Peas, dry Production (tonnes)
7.59bn
Sum of Palm oil Production (tonnes)
17.90bn
235.7%

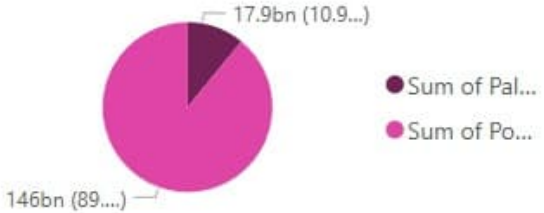

Sum of Tomatoes Production (tonnes) and Sum of Sunflower seed Production (tonnes)
Sum of Tomatoes Production (tonnes)
Sum of Sunflower seed Production (tonnes)
Sum of Tomatoes Production (ton...
40bn
30bn
20bn
10bn
0bn


Sum of Sunflower seed Production (tonnes) and Sum of Soybeans Production (tonnes)
Sum of Sunflower seed Production (tonnes)
Sum of Soybeans Production (tonnes)
0bn
20bn
40bn
60bn
80bn
100bn
Sum of Sunflower seed Production (tonnes) and Sum of Soybeans Production (tonnes)

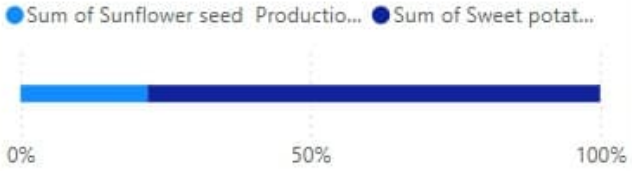

Sum of Cocoa beans Production (tonnes) and First Entity
2.61bn
0.00bn
5.22bn

DATA DASHBOARD

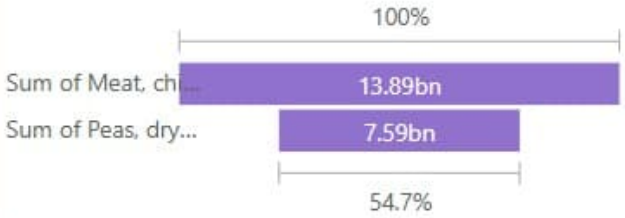
Sum of Palm oil Production (tonnes) and Sum of Potatoes Production (tonnes)



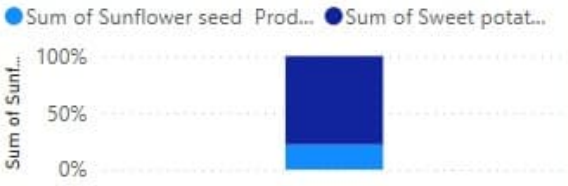
Sum of Sunflower seed Production (tonnes) and Sum of Sweet potatoes Production (tonnes)



Sum of Meat, chicken Production (tonnes) and Sum of Peas, dry Production (tonnes)



Sum of Sunflower seed Production (tonnes) and Sum of Sweet potatoes Production (tonnes)

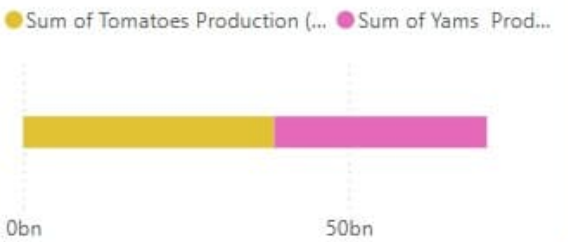


Sum of Potatoes Production (tonnes) and Sum of Rice Production (tonnes)

43.16bn

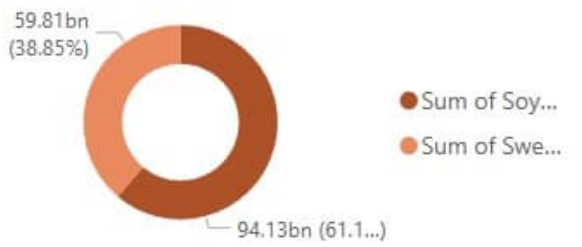
Sum of Grapes Production (tonnes)

Sum of Tomatoes Production (tonnes) and Sum of Yams Production (tonnes)



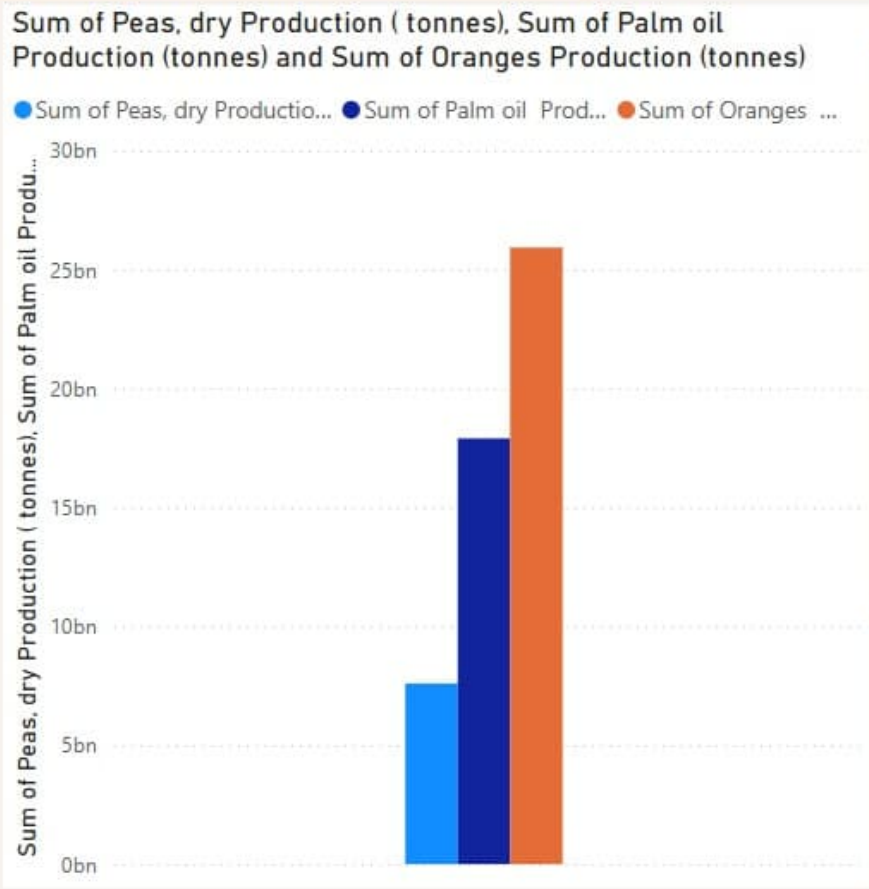
Sum of Potatoes Production (tonnes)

Sum of Soybeans Production (tonnes) and Sum of Sweet potatoes Production (tonnes)



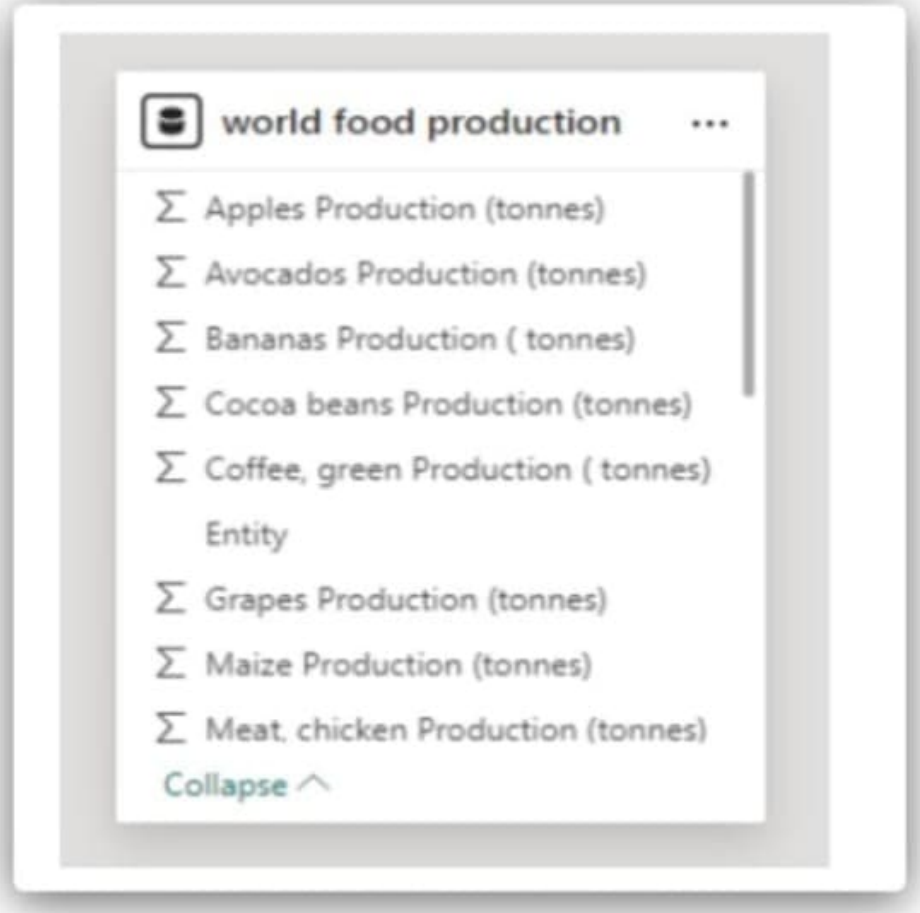
REPORT

From 1961 to 2023, global food trends have evo lved significantly. The 1960s saw the rise of convenience foods, TV dinners, and fast food chains. The 1970s introduced organic and health-conscious eating. The 1980s embraced processed and microwaveable meals, while the 1990s saw a surge in low-fat and diet foods. The 2000s brought organic, farm-to-table, and superfoods into the mainstream. The 2010s focused on plant-based diets, keto, and gluten-free options. By the 2020s, sustainability, lab-grown meats, AI-driven nutrition, and functional foods became dominant, shaping the future of food trends toward health, technology, and environmental consciousness.



PERFORMANCE TESTING

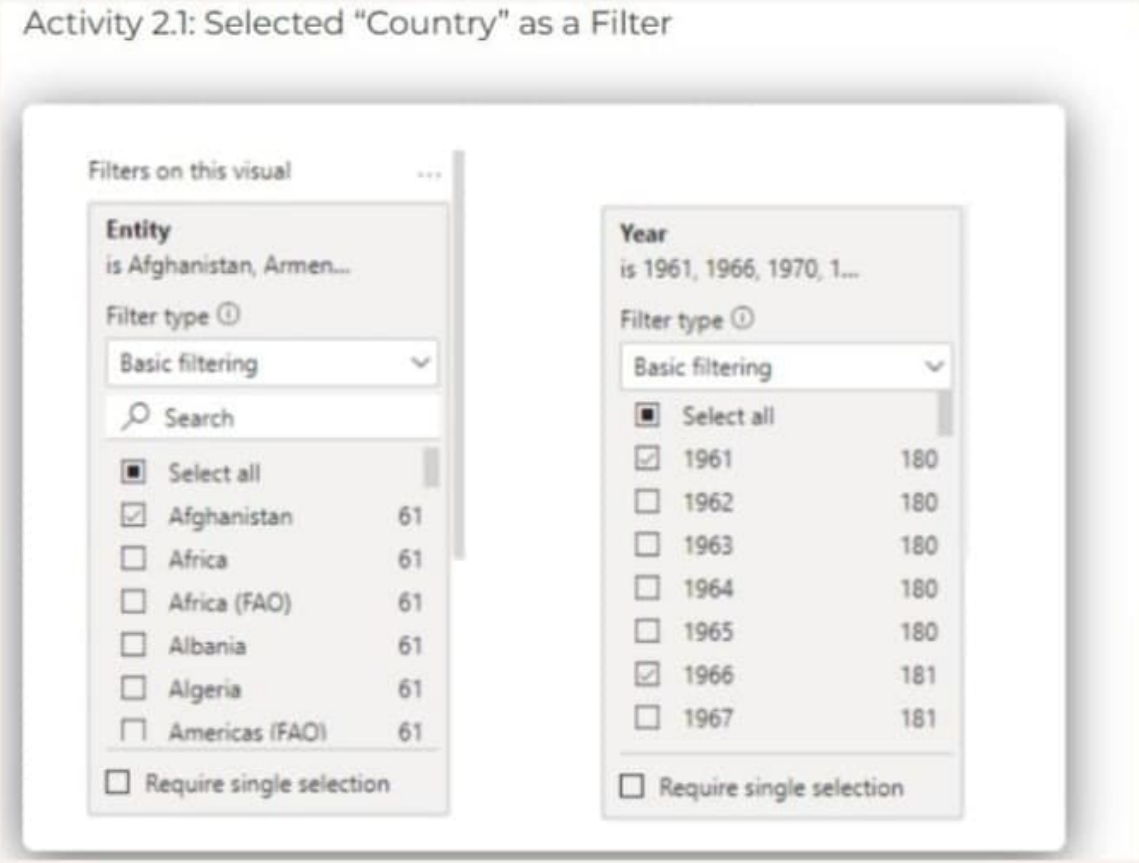
I. Amount of Data Loaded:



PERFORMANCE TESTING

II. Utilization of filters:

1) Selected 'country' as a filter:



PERFORMANCE TESTING

2)No. of Visualizations/Graphs:

- Sum of Rice Production (tonnes)
- Sum of Wheat Production (tonnes)
- Sum of Tea Production (tonnes)
- Sum of Coffee, Green Production (tonnes) by Entity
- Sum of Wheat Production (tonnes), Maize Production (tonnes), Rice Production (tonnes) by Year
- Sum of Apples, Avocados, Bananas, Oranges Production (tonnes) by Entity
- Sum of Maize Production (tonnes) by Year
- Sum of Grapes, Apples, Bananas, Oranges Production (tonnes)

PROJECT DEMONSTRATION

Developing a Global Food Production Data Analysis project using Power BI involves collecting comprehensive datasets from reputable sources .These datasets encompass global production volumes, crop types, and regional statistics. After importing this data into Power BI, the next step is data cleaning and transformation, which includes removing duplicates, handling missing values, and ensuring consistency in data formatting. Establishing relationships between tables—such as linking crop production data with regional and temporal information—is crucial for accurate analysis. Power BI's interactive features facilitate the creation of dynamic dashboards that present insights through various visualizations, including global maps, bar charts, line graphs, and pie charts. These visualizations enable users to explore trends, identify patterns, and derive actionable insights, thereby enhancing understanding of global food production dynamics.

PROJECT DOCUMENTATION

step I : load data

Step2: data into power B1 import

step 3: analyse Data

step 4 : Remove duplicate data

step 5: graphical Representiton

step6: of dash

board preperation

step 7: preperation of report

step 8: performance testing of data set

THANK YOU