

Business Question and Visualization Report

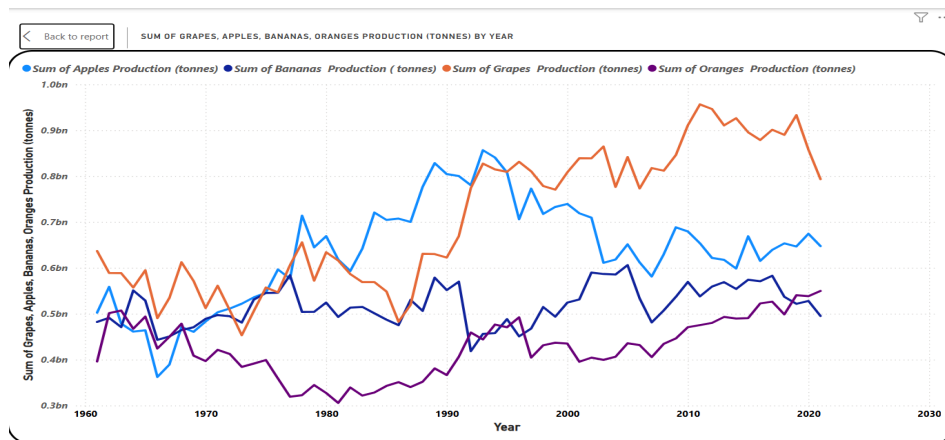
Date	20 December 2025
Team ID	PNT2022TMIDxxxxxx
Project Name	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	5 Marks

Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. Visualization development involves selecting appropriate visual elements, designing layouts, and using interactive features to enhance the user experience. This process is commonly associated with data visualization tools and platforms, and it plays a crucial role in business intelligence, analytics, and reporting

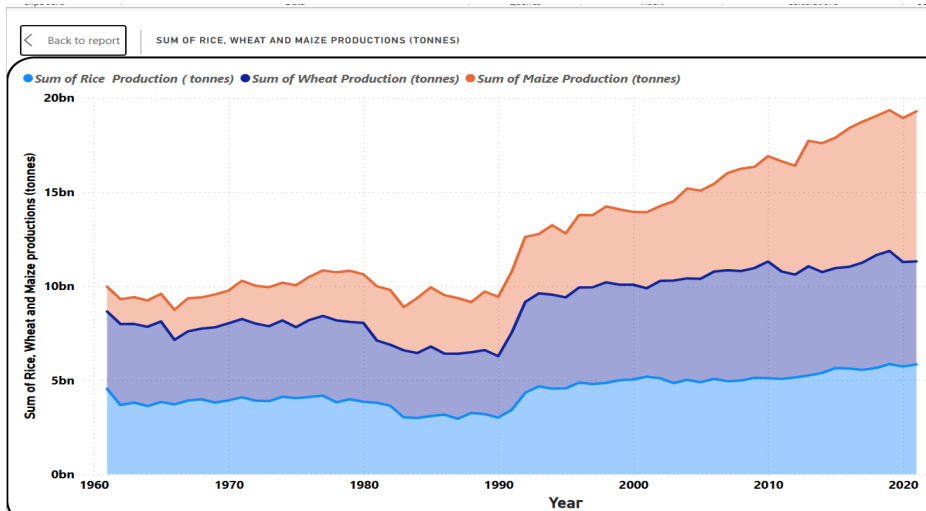
Business Questions and Visualisation

The process involves defining specific business questions to guide the creation of meaningful and actionable visualizations in Power BI. Well-framed questions help in identifying key metrics, selecting relevant data, and building visualisation that provide insights.

1. **How has global food production changed from 1961 to 2023?**
 - o *Visualization:* Line chart showing year-wise global food production trends.



2. **How does rice, wheat, and maize production compare over the years?**
 - o *Visualization:* Multi-line or stacked area chart



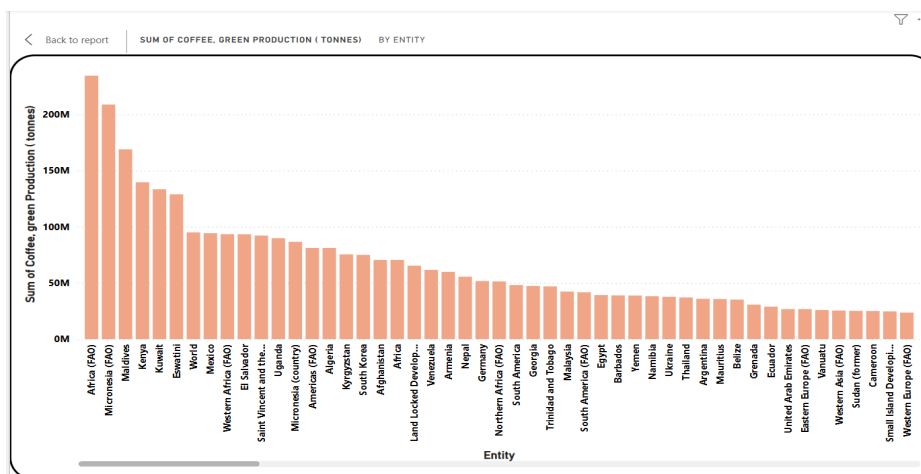
3. Which food commodities have the highest total production globally?

- Visualization: KPI cards / summary tiles of Rice and Wheat



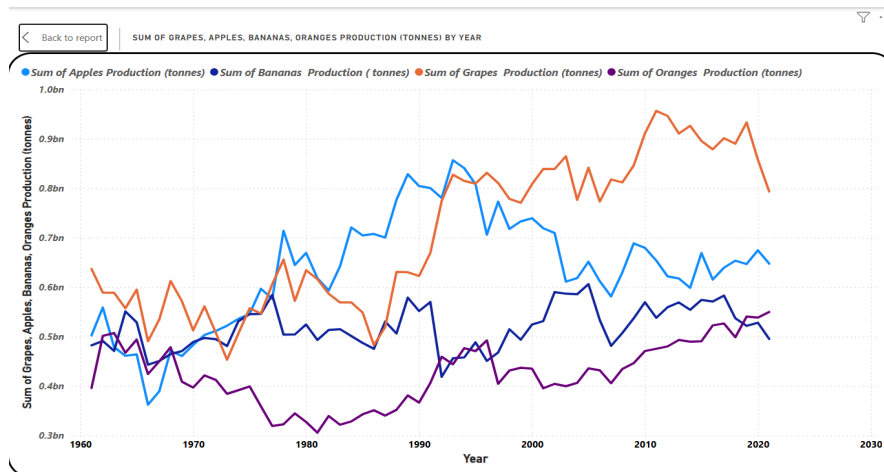
4. Which countries or regions are the top producers of coffee?

- Visualization: Bar chart showing coffee production by entity.



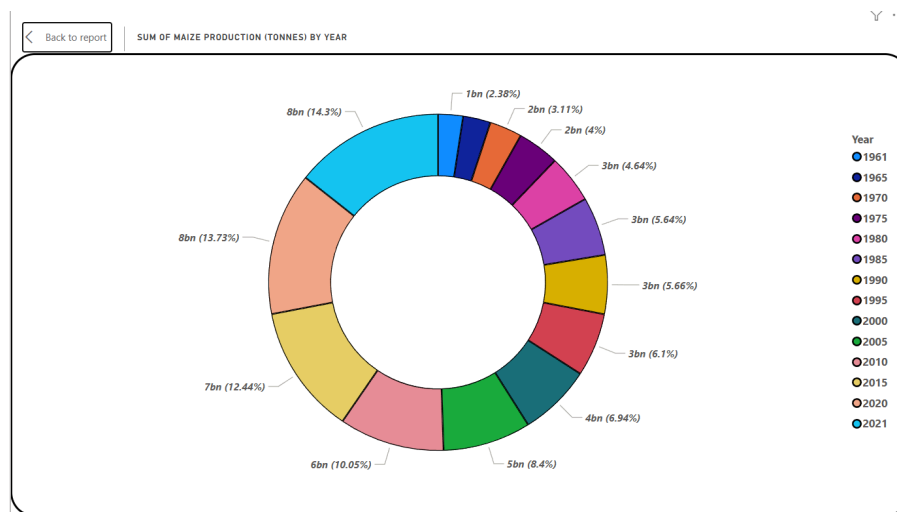
5. How has fruit production evolved over time?

- *Visualization:* Line chart comparing fruit production trends



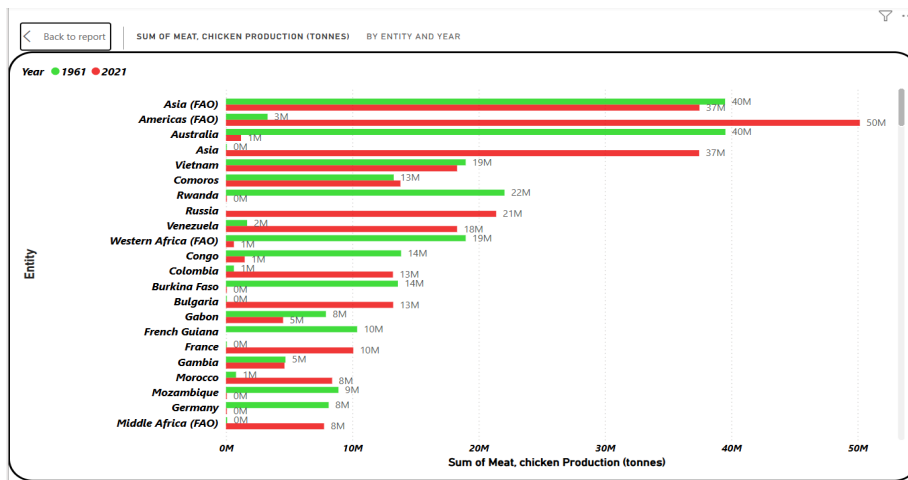
6. What is the distribution of maize production across different years?

- *Visualization:* Donut chart of maize production by year



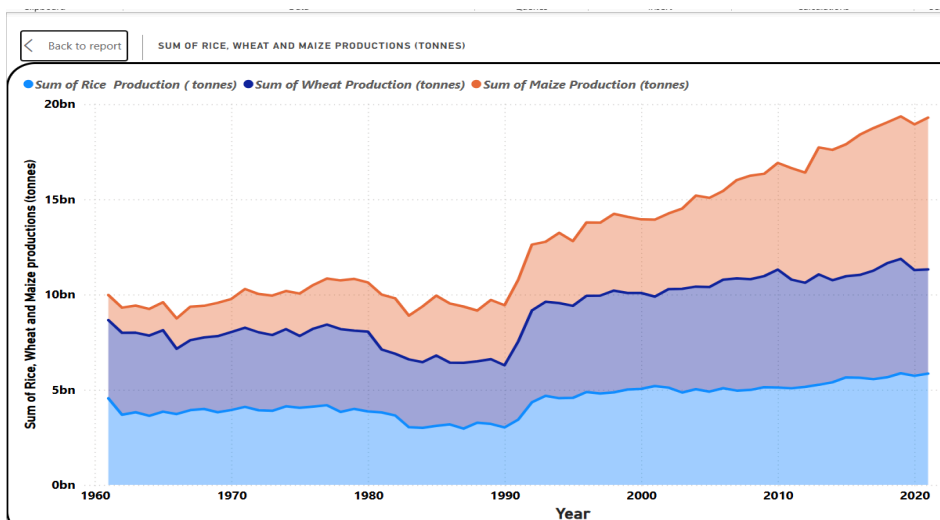
7. Which regions lead in meat (chicken) production over different years?

- *Visualization:* Horizontal bar chart comparing meat production by region and year



8. Which food categories show the most consistent growth from 1961 to 2023?

- *Visualization:* Line chart highlighting long-term trends across multiple commodities



9. Which Year and Entity is the data present in the datasets

- *Visualization:* Year and Entity slicers represents analysis of global food production from 1961 to 2023.

Year

1961 2021

Slider control for selecting a range of years.

Entity

☐ Select all

☐ Afghanistan

☐ Africa

☐ Africa (FAO)

☐ Albania

☐ Almeria