

Business Question and Visualization Report

Date	22 JUNE 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

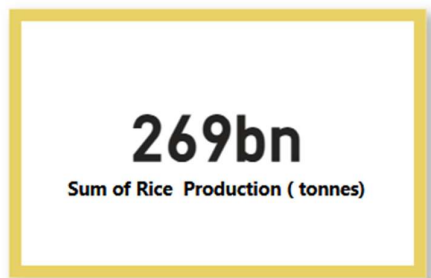
Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. 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. What is the sum of Rice Production (tonnes)?

- *Visualization:* Card showing the sum of rice production.



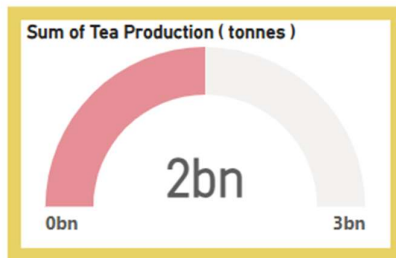
2. What is the sum of Wheat Production (tonnes)?

- *Visualization:* Card showing the sum of wheat production.



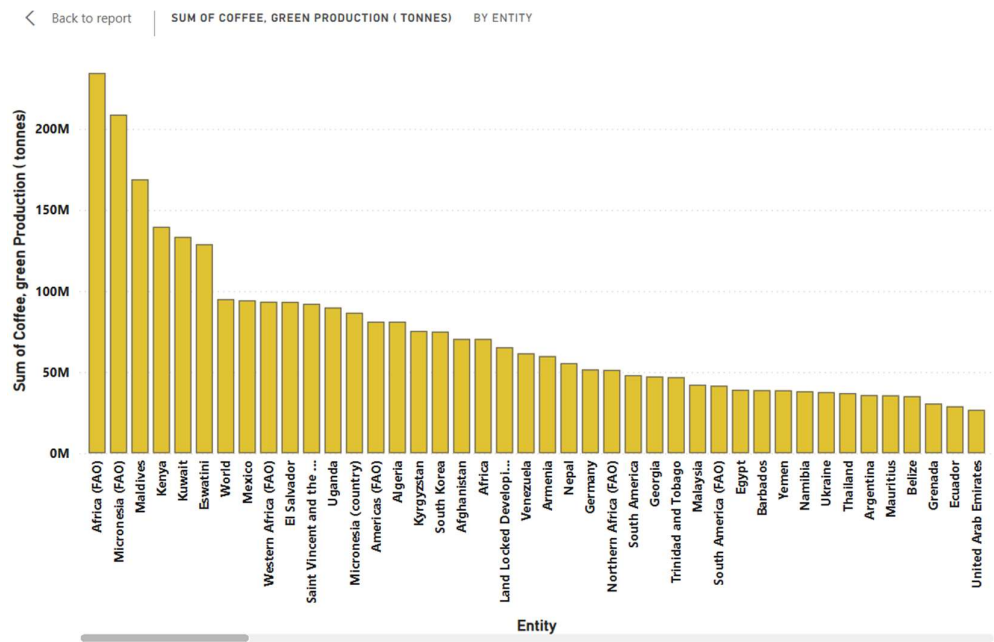
3. What is the sum of Tea Production (tonnes)?

- Visualization: Gauge chart showing the sum of tea production.



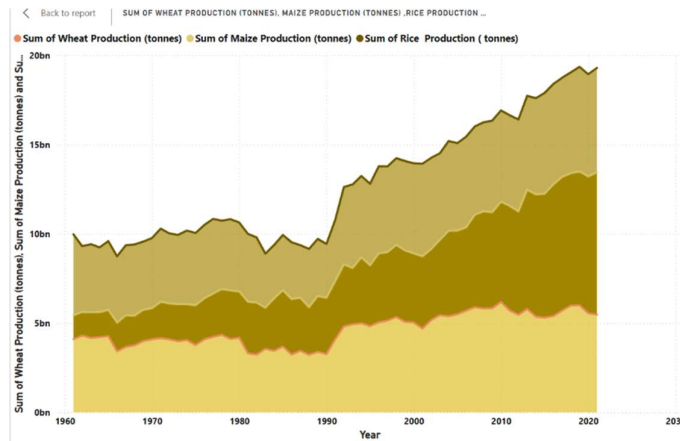
4. What is the sum of Coffee, Green Production (tonnes) by Entity?

- Visualization: Bar chart depicting the distribution of green coffee production among various entities..



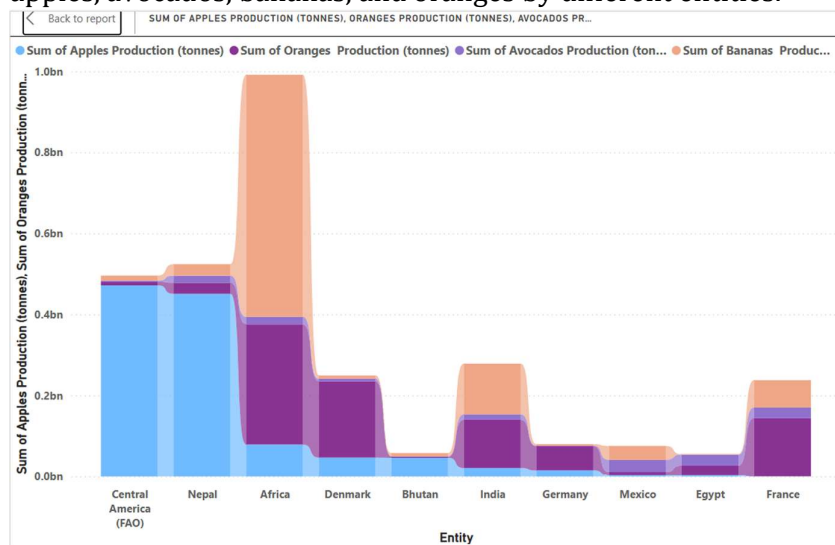
5. What is the sum of Wheat, Maize, and Rice Production (tonnes) by Year.

- Visualization: An area chart showing the annual production trends of wheat, maize, and rice from 1961 to 2023.



6. What is the sum of Apples, Avocados, Bananas, and Oranges Production (tonnes) by Entity.

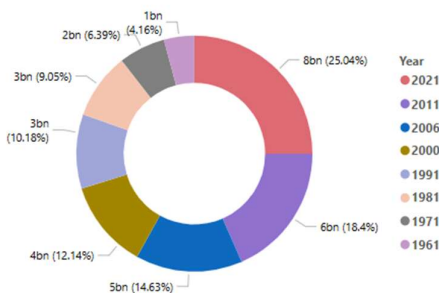
- Visualization: This ribbon chart illustrates the production volumes of apples, avocados, bananas, and oranges by different entities.



7. What is the sum of Maize Production (tonnes) by Year.

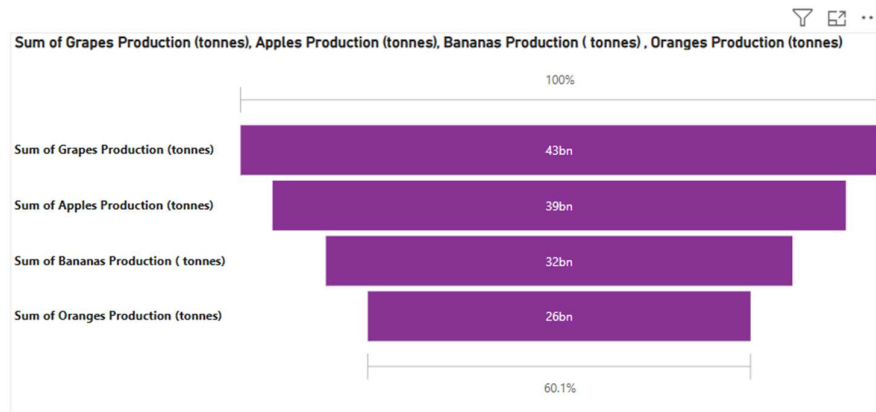
- Visualization: A donut chart depicting the yearly maize production distribution across different years.

Sum of Maize Production (tonnes) by Year



8. What is the sum of Grapes, Apples, Bananas, and Oranges Production (tonnes).

- *Visualization:* This bar chart compares the total production volumes of grapes, apples, bananas, and oranges .



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Note: Min 8 business question and visualisations Required inform of above