

Business Question and Visualization Report

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| Date | 9 May 2025-12 may 2025 |
| Team ID | |
| 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

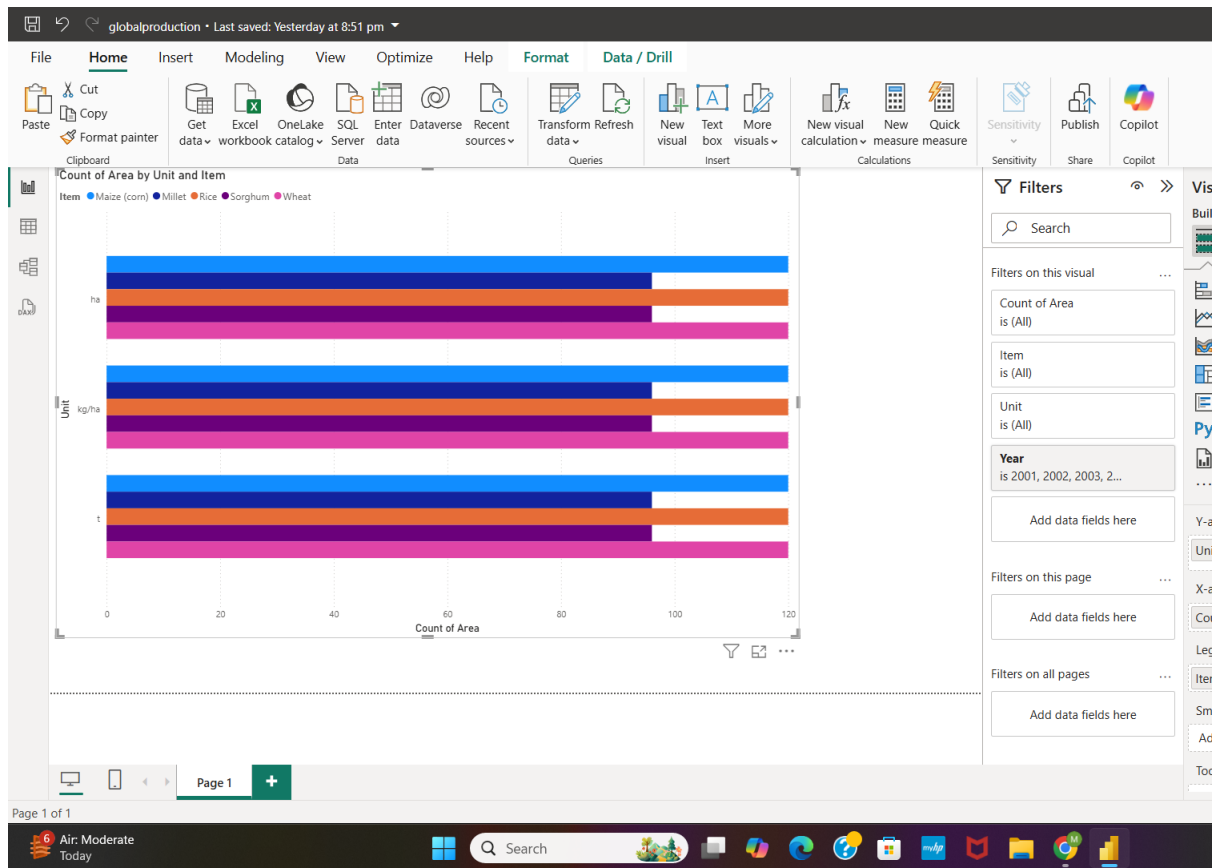
Business Questions and Visualisation

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.

Sample

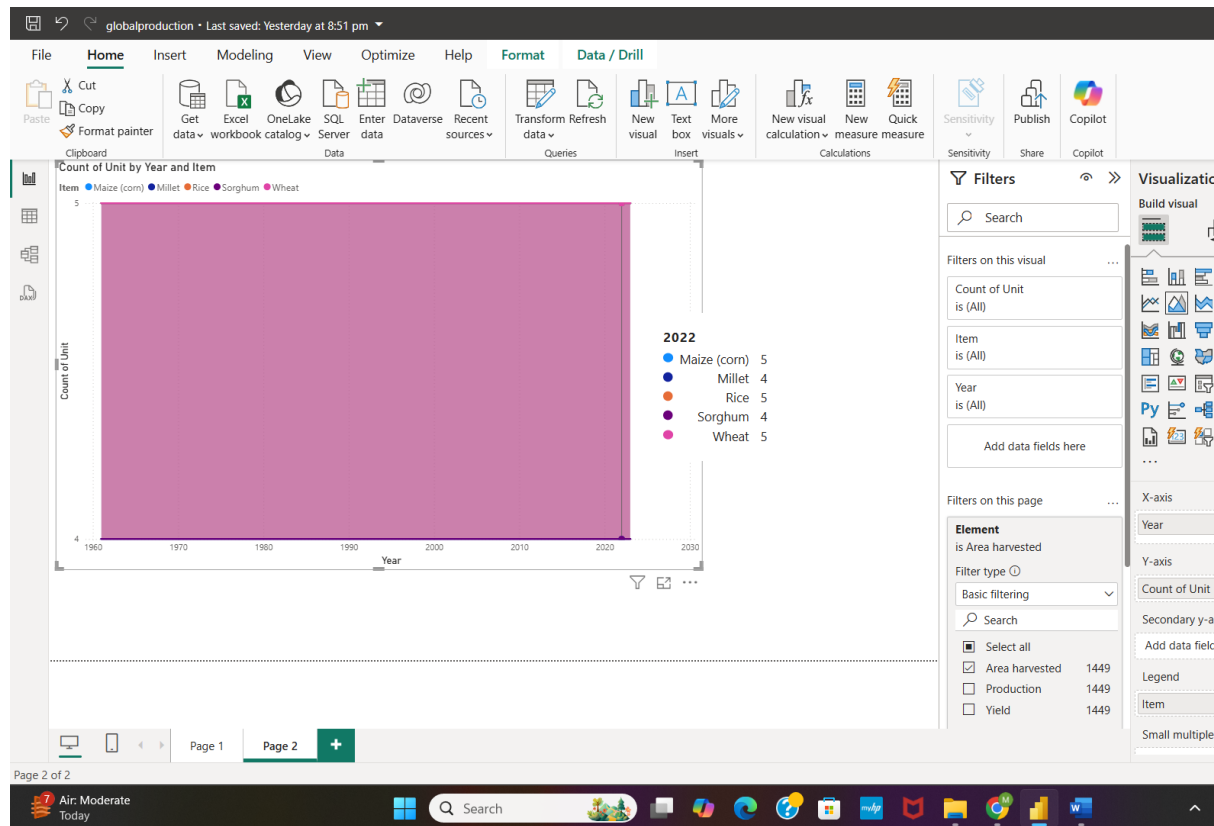
1. Which country had the highest average yield per hectare for each crop during 2000–2023?

- *Visualization:* Clustered Bar Chart.
- Screenshot of visualisation



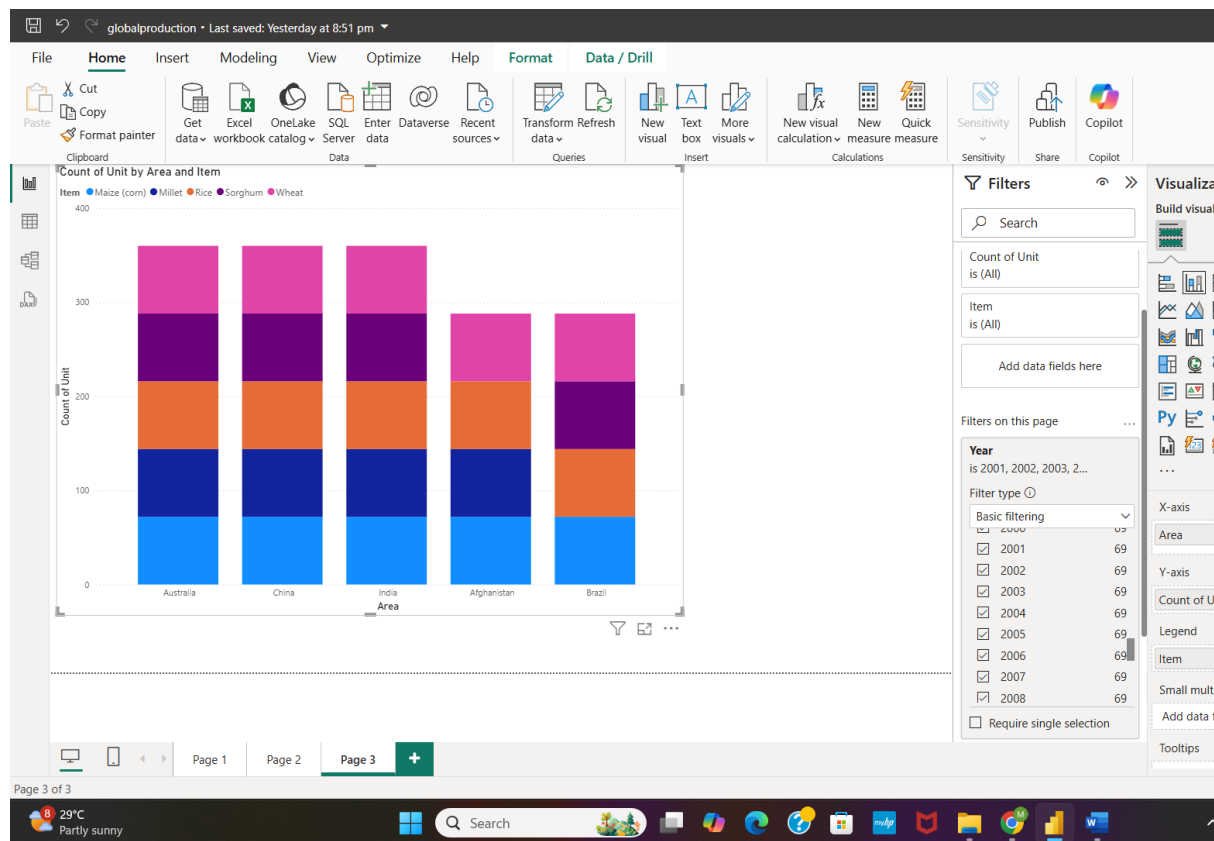
2. What is the trend in area harvested for each crop across countries from 1961 to 2023?

- *Visualization: Area Chart*
- *Screenshot of visualisation*



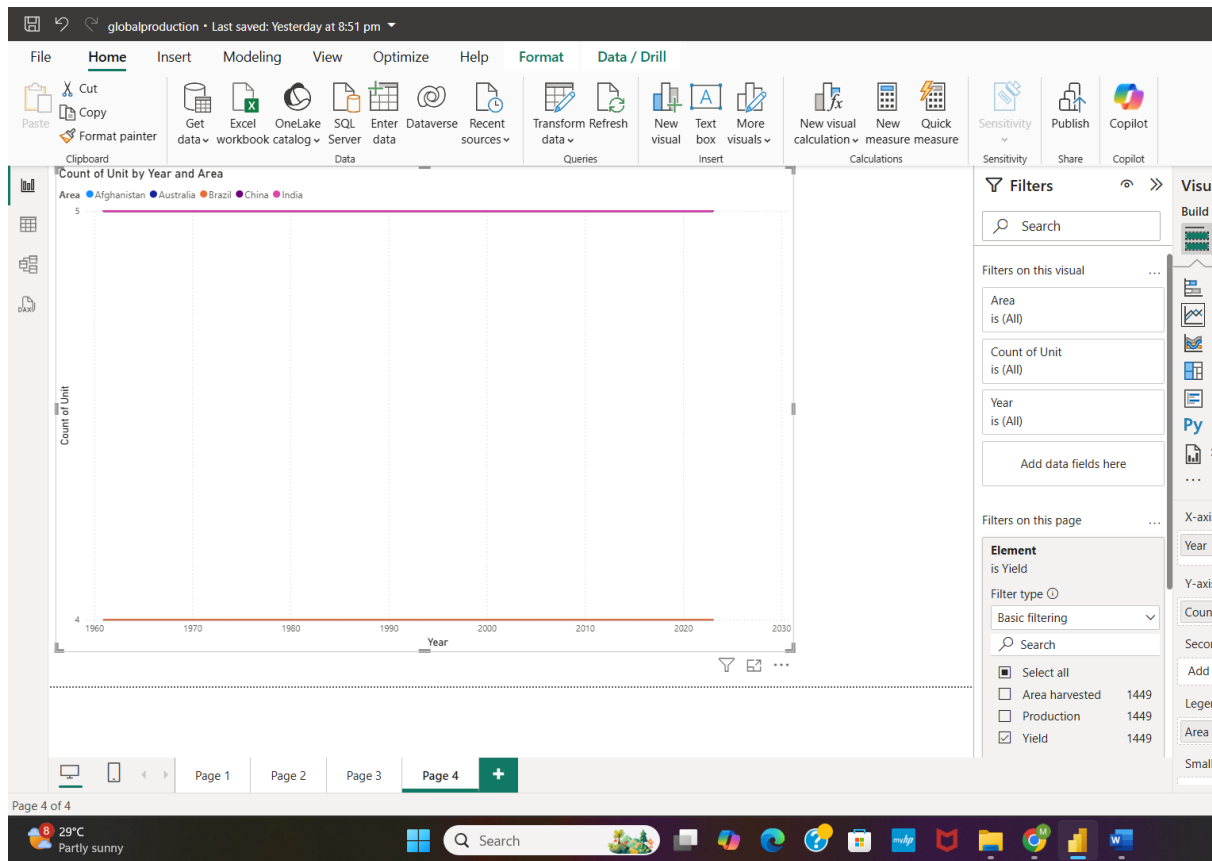
3. Which crop dominates production in each country in recent years (e.g., 2020–2023)?

- *Visualization: Stacked Column Chart.*
- *Screenshot of visualisation*



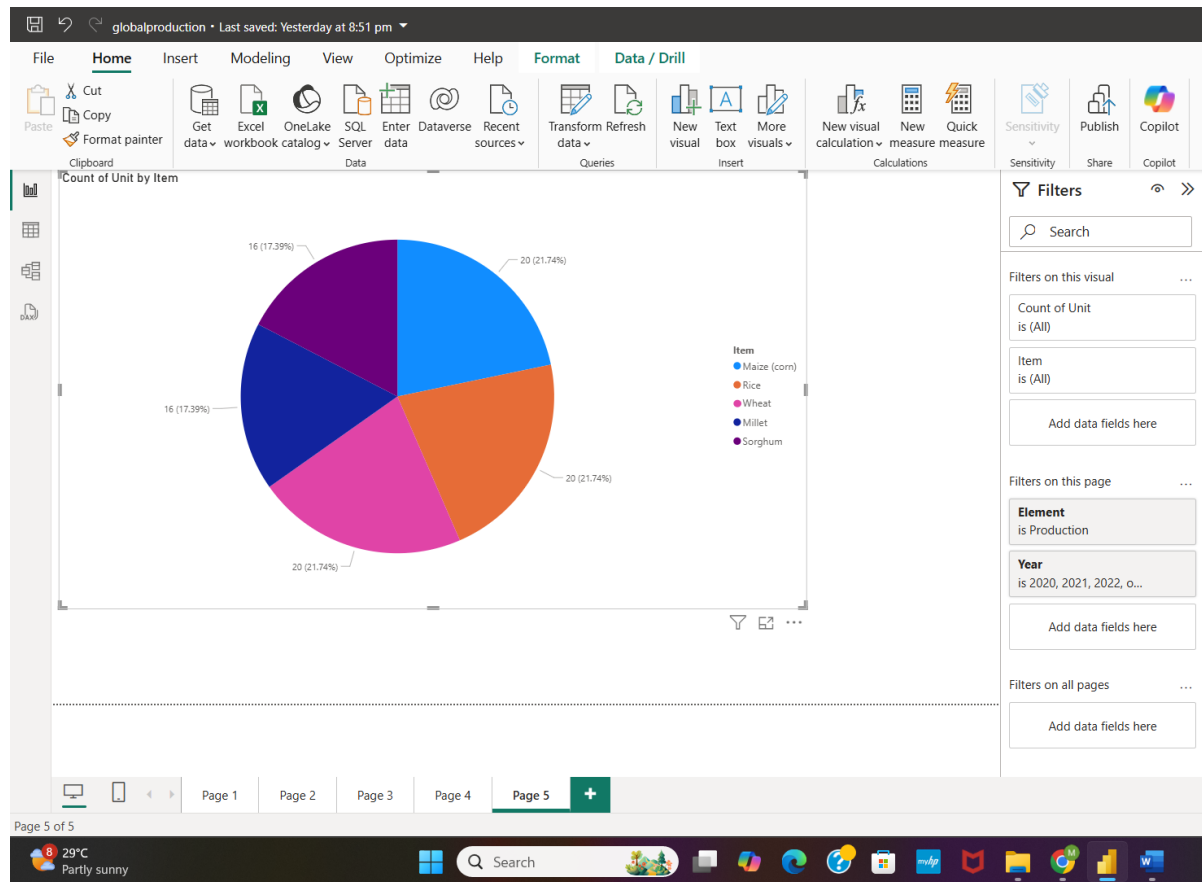
4. How does the productivity (yield per hectare) compare between countries for each crop over time??

- Visualization: line Chart.
- Screenshot of visualisation



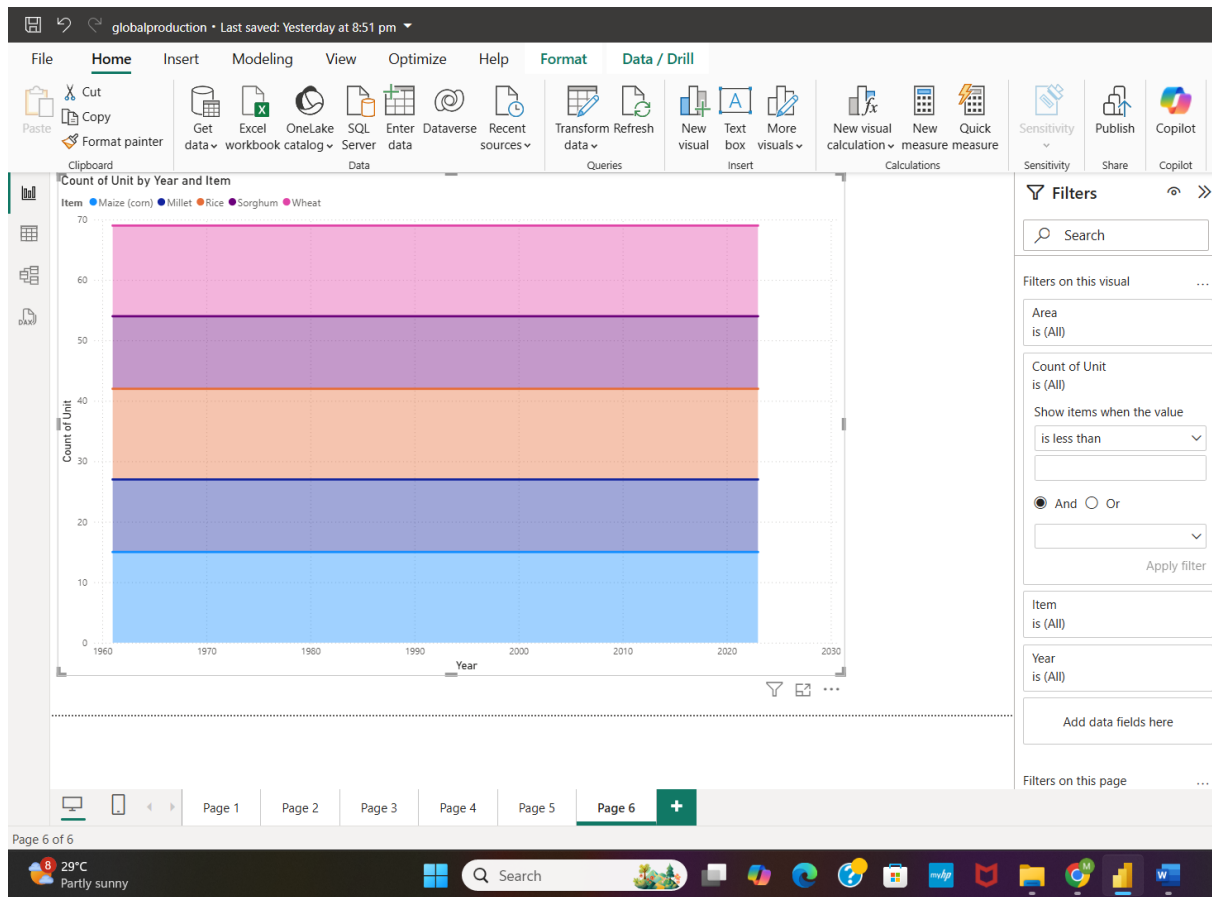
5. What is the share of each crop in total cereal production for each country in recent years?

- Visualization: Pie Chart.
- Screenshot of visualisation



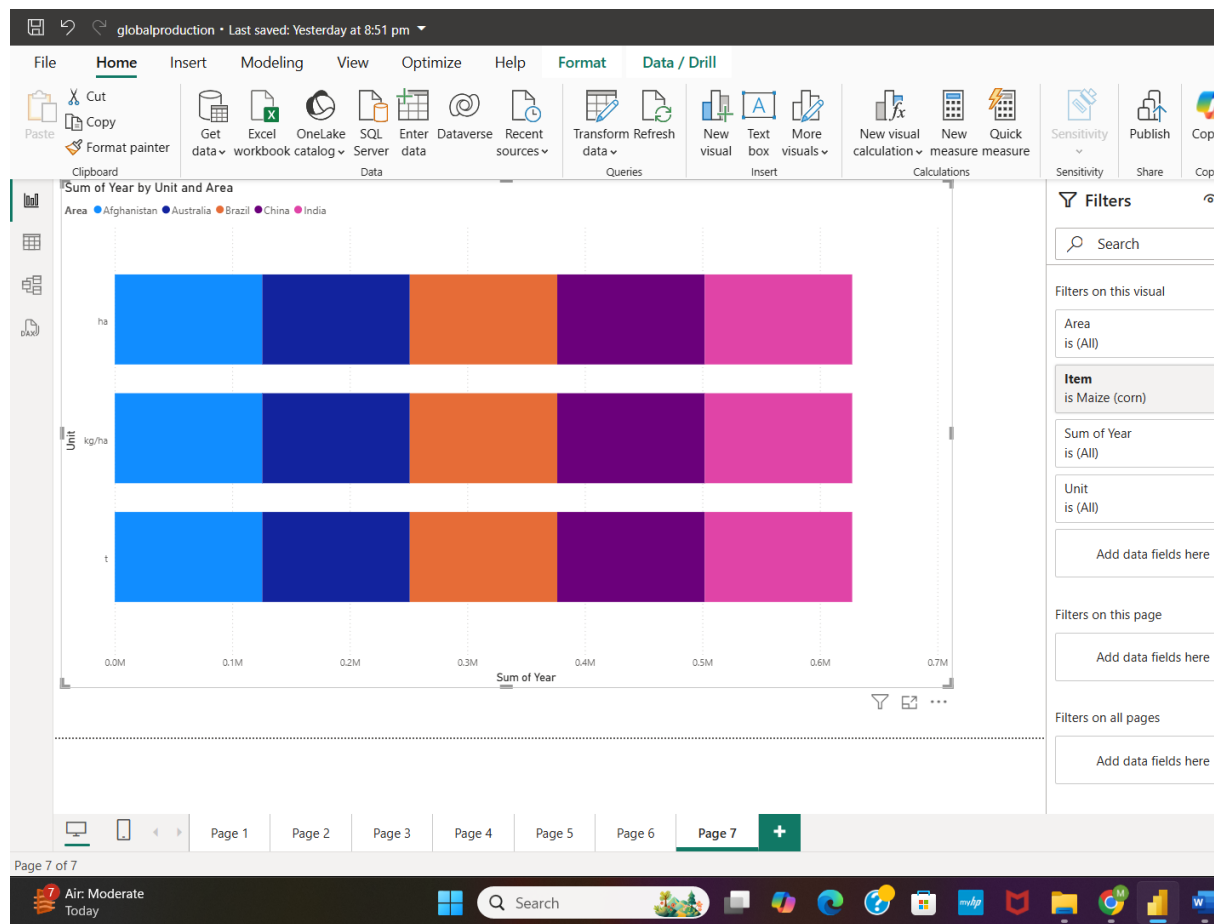
6. What is the cumulative production of each crop in each country from 1961–2023?

- *Visualization: Stacked Area Chart.*
- *Screenshot of visualisation*



7. Which country achieved the highest year-on-year growth rate in maize production?

- Visualization: Bar Chart.
- Screenshot of visualisation



8. How has the production volume of major crops changed over time (1961–2023) in selected countries??

- *Visualization: line Chart.*
- *Screenshot of visualisation*

