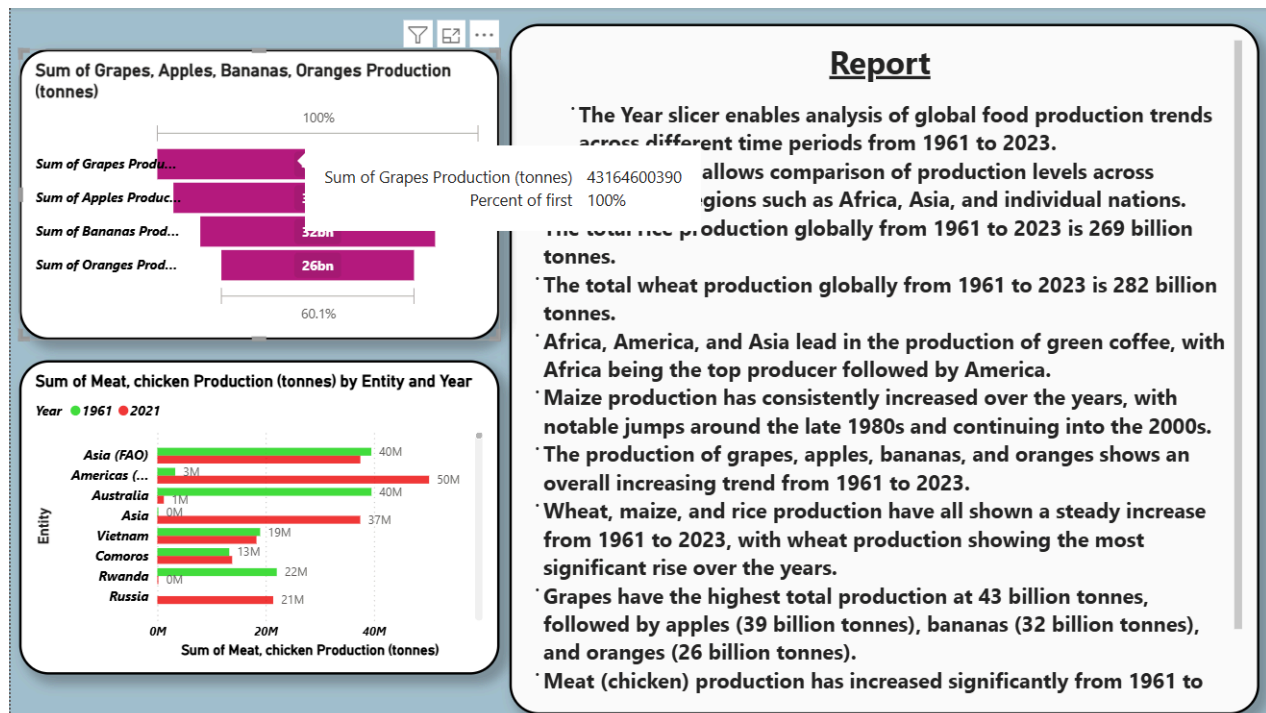# Report

Date	24 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

A report is a comprehensive document that provides a detailed and structured account of data analysis, findings, and insights. It is typically used for in-depth analysis, documentation, and communication of results. Reports are suitable for a diverse audience, including decision-makers, analysts, and stakeholders who need a comprehensive understanding of the data.

Designing a report in Power BI involves connecting to data sources, creating visualizations like charts and graphs, customizing their appearance and interactivity, organizing them logically on the canvas, formatting elements for consistency and clarity, and optionally creating dashboards for a summarized view. Throughout the process, it's essential to consider the audience's needs and ensure the report effectively communicates insights from the data. Finally, iterate based on feedback to continually improve the report's design and usefulness.

Observations drawn from reports in Power BI can provide valuable insights into business performance and trends.

- **Trends Over Time:**

  The dashboard shows a **clear and consistent increase** in global food production from **1961 to 2023**, indicating long-term growth in agricultural output across regions.

- **Performance Comparison of Major Crops:**

  Among major food commodities, **wheat (282 billion tonnes)and rice (269 billion tonnes)** have the highest total production, highlighting their role as staple crops worldwide.

- **Regional Production Analysis:**

  The visualizations indicate that **Asia, Africa, and the Americas are leading** regions in the production of cereals, coffee, and meat, reflecting regional agricultural strengths.

- **Fruit Production Insights:**

  Fruit production analysis shows that **grapes** have the **highest total production**, followed by apples, bananas, and oranges, demonstrating strong global demand for fruit crops.

- **Tea Production Growth:**

  Tea production has shown **steady growth** over the years, suggesting increasing consumption and sustained agricultural development in tea-producing regions.

- **Meat (Chicken) Production Trends:**

  Meat (chicken) production has **increased significantly** from 1961 to 2023, with **Asia and the Americas** contributing the largest share.

- **Year-wise Contribution:**

  Recent decades contribute a larger share of total food production compared to earlier years, reflecting improvements in farming techniques and productivity.

- **Overall Insight:**

  The dashboard effectively highlights global food production patterns, regional dominance, and commodity-wise trends, supporting data-driven decisions in food security and agricultural planning.