Dashboard Design

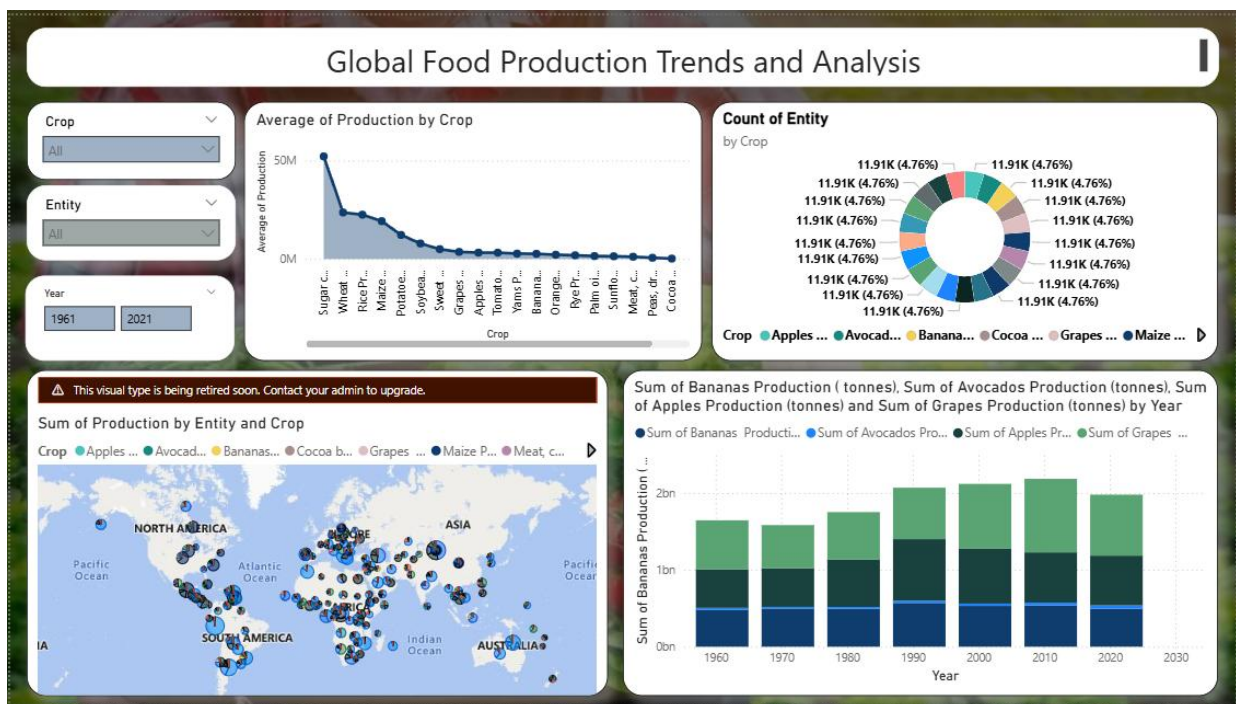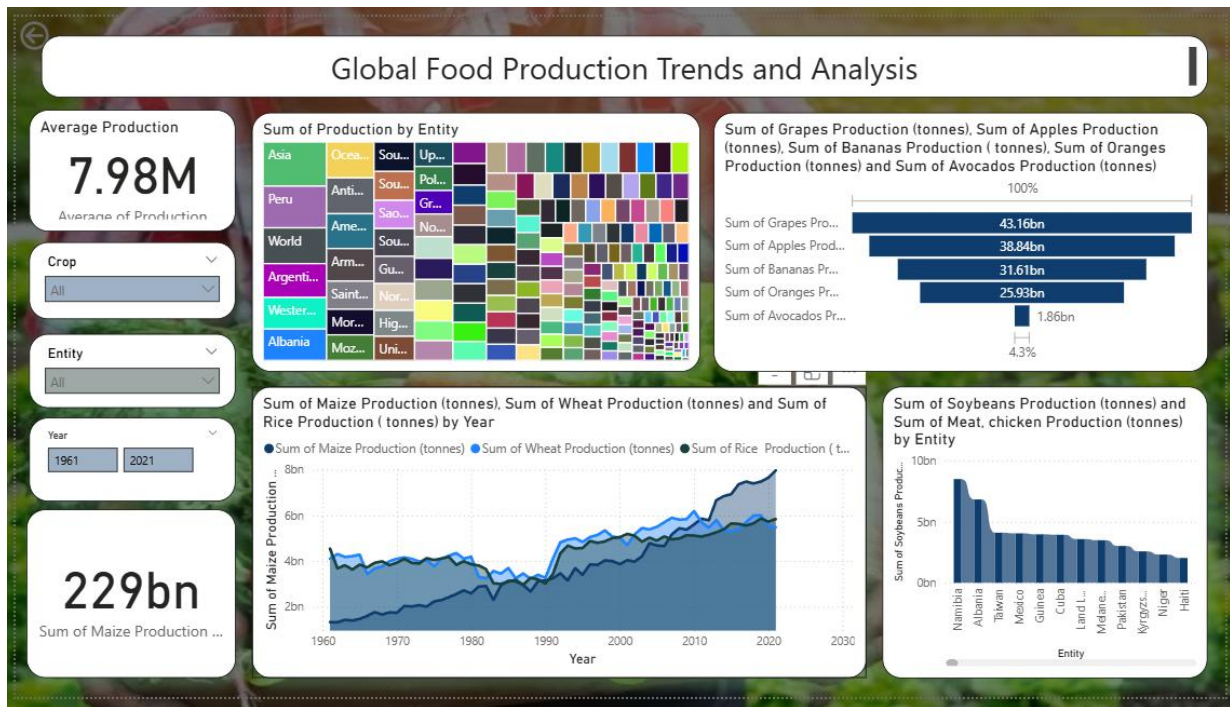| Date	5 OCTOBER 2025
Team ID	SWUID20250213607
Project Name	Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	5 Marks

Creating an effective dashboard involves thoughtful design to ensure that the presented information is clear, relevant, and easily understandable for the intended audience. Here are some key principles and best practices for dashboard design

Activity 1: Interactive and visually appealing dashboards

Creating interactive and visually appealing dashboards involves a combination of thoughtful design, effective use of visual elements, and the incorporation of interactive features. Here are some tips to help you design dashboards that are both visually appealing and engaging for users so take care of below points

- Clear and Intuitive Layout
- Use Appropriate Visualizations
- Colour and Theming
- Interactive Filters and Slicers
- Drill-Down Capabilities
- Responsive Design
- Custom Visuals and Icons
- Use of Infographics

Global Food Production Trends and Analysis

Global Food Production Trends and Analysis

Here are ten potential outcomes from the dashboard image provided:

1. **Average Production Card**: The typical food entity produces around 7.98 million tonnes, indicating a high level of global agricultural productivity.

2. **Total Maize Production Card:** Maize dominates staple crop output, with cumulative global production reaching 229 billion tonnes over the analyzed period.

3. **Tree Map by Entity:** Asia leads all entities in total food production, with other regions and countries contributing significant but smaller shares, highlighting geographic specialization.

4. **Top Fruits Bar Chart:** Grapes, apples, bananas, and oranges are the highest-volume fruits worldwide, showing where the greatest consumer and market demand exists.

5. **Production Trend Line Chart (Maize/Wheat/Rice):** There is a consistent upward trend in maize, wheat, and rice production over six decades, resulting from technological advancements and rising food demand.

6. **Soybean/Meat Production Bar Chart**: Namibia, Taiwan, and Turkey rank highest for soybean and chicken meat output, revealing key agri-specialist countries.

7. **Average Production by Crop Line Chart:** Sugar and wheat have the highest average productions, with the rest of the crops trailing, indicating resource allocation and economic importance.

8. **Entity Count by Crop Donut Chart:** Crop entity distribution is relatively balanced across crop types, suggesting ongoing crop diversity and global engagement.

9. **Global Map (Entity & Crop):** Major food production regions are clustered in Asia, South America, and North America, pinpointing core global agricultural hubs.

10. **Stacked Bar Chart (Fruit Production by Year):** Production of bananas, avocados, apples, and grapes has steadily increased by decade, reflecting changing dietary preferences and market growth.