Sanjivani Rural Education Society's

Sanjivani College of Engineering, Kopargaon-423603

(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)
NAAC 'A' Grade Accredited, ISO 9001:2015 Certified

Department of Information Technology

NBA Accredited-UG Program

Class: S.Y. B. Tech   Semester: IV
Subject: Data Visualization and Story Telling (SEIT261)

Practical No.: 10

Title:

Implementing assignment based on design and publishing dashboards in tableau

Software Requirements:

● Tableau Public

Objectives:

● Design Interactive Dashboards
● Ensure Data Accuracy and Consistency
● Publish and Share Dashboards on Tableau Public and download as pdf

Theory:

To implement an assignment involving designing and publishing dashboards in Tableau, focus on understanding the assignment requirements, connecting to relevant data sources, creating effective visualizations, and sharing the dashboard with your audience. This involves designing the dashboard layout, choosing appropriate charts, and ensuring the dashboard is accessible and interactive.

1. Designing the Dashboard

● **Understand the Requirements**: Before starting, ensure you have a clear understanding of the requirements for the dashboard. This could involve gathering data, understanding the key metrics, and deciding on the type of visualizations (charts, graphs, maps) you want to use.

● **Sketch the Layout**: If needed, create a rough sketch or wireframe of how you want the dashboard to look. This will guide the visualization choices and overall design.

● **Choose the Right Visuals**: Decide on which Tableau visualizations best represent the data and insights you need to present (bar charts, line graphs, scatter plots, heatmaps, etc.).

2. Publishing the Dashboard to Tableau Public

- **Save the Workbook**: Save your workbook in Tableau Desktop or Tableau Public format (`.twb` or `.twbx`).

- **Sign in to Tableau Public**: If you haven't already, create a free Tableau Public account and sign in to the application.

- **Publish the Workbook**:

  - In Tableau Desktop, go to **Server > Tableau Public > Save to Tableau Public**.

  - Choose a name for your dashboard and hit "Save." Tableau will upload your workbook to Tableau Public.

- **Set Permissions**: You can choose to make your dashboard public or restrict access to specific users, depending on the level of privacy you need.

- **Get the Link**: Once published, you'll get a link to your dashboard that you can share with others. You can also embed the dashboard in websites or blogs.

3. Share and Collaborate

- Once the dashboard is live on Tableau Public, you can share the link or embed it in a presentation or website. You can also get feedback from peers or stakeholders to iterate and improve the design.

4. Share the Dashboard

- **Get the Link**: After publishing, Tableau provides a unique link to your dashboard.

- **Share the Link**: Share the link with others, or embed the dashboard in websites or presentations.

- **Collect Feedback**: Share the dashboard with stakeholders or peers for feedback and make necessary adjustments.

5. Iterate and Improve

- **Monitor Usage**: Check if your audience is interacting with the dashboard as expected.

- **Update Based on Feedback**: Use feedback to make improvements or add additional visualizations, filters, or data sources.

- **Keep it Updated**: Regularly update the data and refresh the dashboard if new data becomes available.
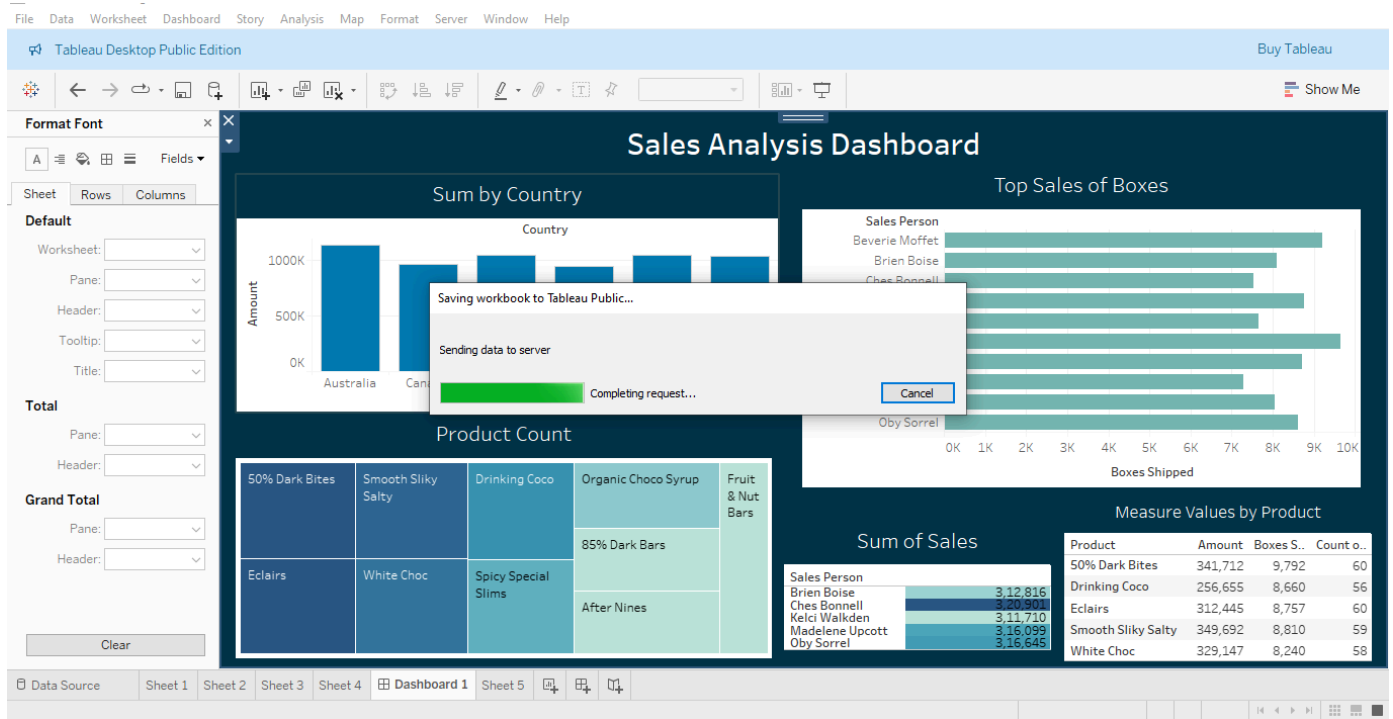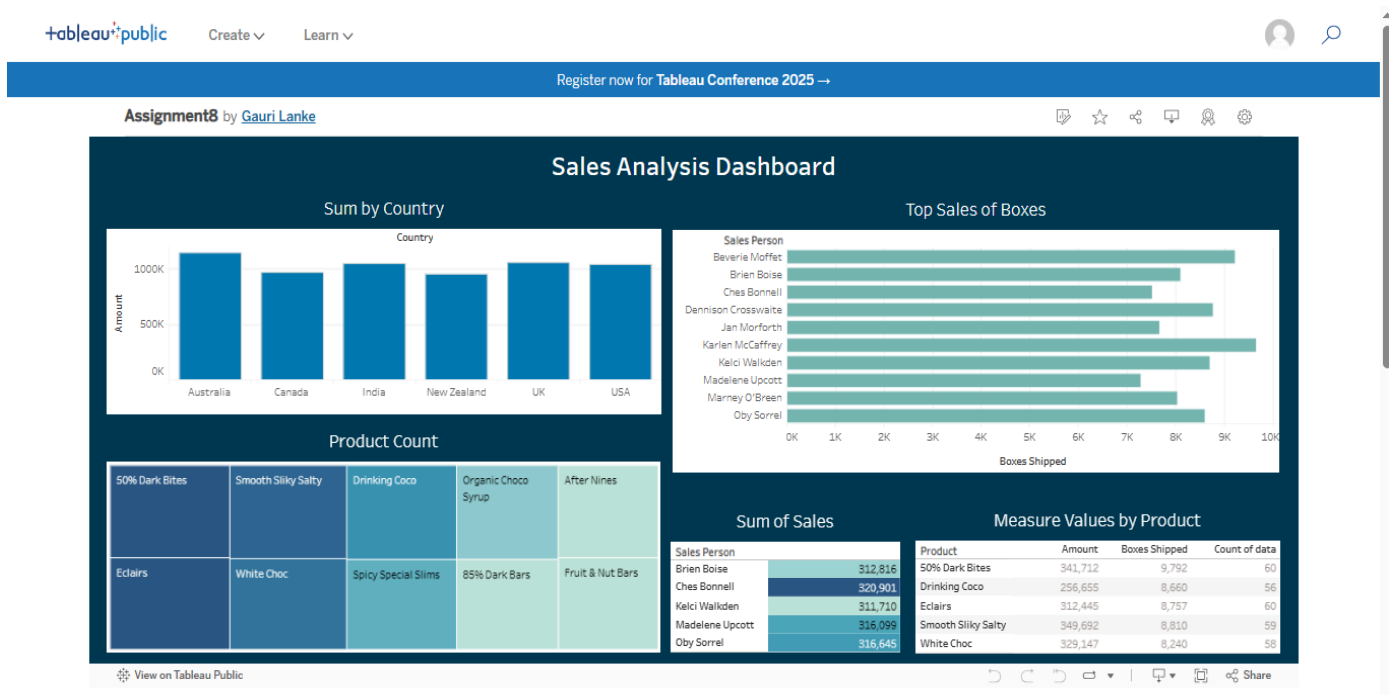
Fig1. Saving Workbook to Tableau Public

Fig2. Published Dashboard on Tableau Public

Frequently Asked Questions:

1. What is Tableau Public and how is it different from Tableau Desktop?

2. How can I make my Tableau Public dashboard private?

3. What types of data sources can I connect to in Tableau Public?

4. Can I update my dashboard after publishing it to Tableau Public?

5. How can I embed a Tableau Public dashboard on my website?

Conclusion:

Thus, Successfully Implementing assignment based on design and publishing dashboards in tableau. With its user-friendly interface and powerful features. Tableau Public is an excellent platform for creating, sharing, and publishing interactive dashboards to a global audience. It provides a free and accessible way to display data visualizations but comes with the limitation of public visibility. By understanding the features, such as connecting to various data sources and embedding dashboards, users can effectively present their insights. However, for more privacy and control, options like Tableau Desktop or Tableau Server are recommended.

References:

- Practical Tableau: 100 Tips, Tutorials, and Strategies from a Tableau Zen Master, Ryan Sleeper, Oreilly Publications, 2018
- Data Visualization with R: 111 Examples by Thomas Rahlf, Springer, 2020.
- Learning Microsoft Power BI - Jeremey Arnold, 2022
- Learn Power BI: A Comprehensive, Step-by-step Guide for Beginners to Learn Real-worldBusiness Intelligence - Greg Deckler, 2022.
- Tableau 10 Complete Reference: Joshua N Milligan.

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