

Assignment 7.1: Tableau Dashboard (Individual) Project ▲

Start Assignment

- Due Monday by 11:59pm
- Points 80
- Submitting a text entry box, a website url, a media recording, or a file upload
- Attempts 0
- Allowed Attempts 3

In the field of Data Science, you are likely to be called on to create interactive dashboards for your stakeholders. For this assignment, select one of the provided datasets to build a Tableau dashboard and data story. Then, [publish your dashboard \(viz\) to Tableau Public](#) (<https://help.tableau.com/current/guides/get-started-tutorial/en-us/get-started-tutorial-share.htm>) (it is free!) and share the link in your one-page summary and comment session on Canvas. Unleash your creativity and visualization skills to create an effective dashboard and have a little fun!

Tableau also offers free one-year [licenses to the students](#) (<https://www.tableau.com/university-students>) by using the USD email address through the Tableau for Students program.

Dashboard:

Requirements for this assignment:

1. **One-page summary** - Describe the business problem, the analytic approach, the data source(s) used, the applied data cleaning and transformation steps, the calculations, and other functionality used in your dashboard. Additionally, provide a short user guide to your dashboard, including print screens.
2. **Visualizations** - Create a variety of the right type of charts and tables (basic and advanced) that transform the data into useful information and insights that support your data story. Visualize [KPIs](#) (<https://public.tableau.com/en-us/gallery/20-ways-visualize-kpis>) and build a [map](#) (https://help.tableau.com/current/pro/desktop/en-us/maps_howto_simple.htm) (geographic visualization) if possible. Visualizations should adhere to the seven essential principles for better visual storytelling (Reference Ch 7 in Effective Data Storytelling). DO NOT use pie charts!
3. **Dashboard Interactivity** - Incorporate several interactive features into your dashboard, including but not limited to multiple tabs or sheets, global or universal filters, parameters like calculated fields, histogram bins, reference lines, and top N filters. Other interactive features include dashboard actions, including filter action actions, highlight actions, and URL actions. Tooltips are another way to make your dashboard more interactive.
4. **Dashboard Aesthetics** - Your dashboard and charts should be visually appealing. The dashboard should be intuitive and easy to understand. Charts should not be cramped together. Text and numbers should be readable, and color pallets should be appropriate for the specific chart being used. Colors must be color-blind friendly. Colors should not be too bright or loud either. Your charts should meet the 5-second rule. It should take your audience no more than 5 seconds to understand the chart and the information it is conveying.

It is critical to note that no extensions will be given for the Module 7 assignment due dates for any reason, and assignments submitted after the final due date will not be graded.

Data Options:

Select *one* of these data sets for your dashboard development assignment.

- **Covid Job Impacts** (<https://registry.opendata.aws/us-hiring-rates-pandemic/>) - Use this [AWS Resource](#) (<https://docs.aws.amazon.com/AmazonS3/latest/userguide/download-objects.html>) link to help guide you in downloading data from S3.
- **FiveThirtyEight Police Misconduct** (<https://github.com/fivethirtyeight/police-settlements/>) - Clone this repository by following this [GitHub Guide](#) (<https://docs.github.com/en/repositories/creating-and-managing-repositories/cloning-a-repository>) or download the data as a .zip on the web client.
- **Hemolytic Uremic Syndrome Post-diarrheal to Hepatitis B, Acute** (<https://catalog.data.gov/dataset/nndss-table-1p-hemolytic-uremic-syndrome-post-diarrheal-to-hepatitis-b-acute-5d968>) - Download the data as .csv.

Assignment Deliverables and Submission Format:

- **Submission Format** - The Summary should be submitted as one **PDF document** in Canvas and include a **link** to your online Tableau dashboard.
 - **Summary** - Submit a one-page summary document, 2-3 paragraphs, containing a description of the business problem, the analytic approach, the data source(s) used, the applied data cleaning and transformation steps, the calculations, and any other functionality used in your interactive dashboard.
 - **Dashboard** - Provide a **link** to your *public* Tableau dashboard in your Summary document and in the "**Comments**" session before submitting the deliverables in Canvas.

**Plagiarism, or passing another person's code/work/answers off as one's own either by directly copying or even paraphrasing it without proper citation, is a serious offense and can result in sanctions, including grade reductions, course failures, and even expulsion from the university. For more information, please see the [USD Code of Honor](#). (<https://www.sandiego.edu/conduct/documents/Honor-Code.pdf>)

To understand how your work will be assessed, view the scoring rubric below.

Click the **Start Assignment** button above to submit your assignment.

Assignment 7.1 Scoring Rubric

Total Points: 80