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**Date:** April 25, 2021

**Course:** DSC640-T301 Data Presentation & Visualization

**Assignment:** Project Task 2 – Design Methodology

I brought a new windows laptop to understand the use of Power-Bi. For first few visualizations I felt some difficulties but letter on it becomes too easy.

For this assignment I used the COVID-19 dataset found on Kaggle. <https://www.kaggle.com/imdevskp/corona-virus-report>

1. **Overall design choices**:
   1. Dataset used country\_wise\_latest.csv, day\_wise.csv, usa\_county\_wise.csv, covid\_19\_clean\_complete.csv, full\_grouped.csv, worldometer\_data.csv downloaded from Kaggle.com
   2. Color palettes used: The plotted the diversified graph so I couldn’t used any specific colors.
2. **Clustered Bar chart** – Sum of Deaths, Sum of new cases and Sum of new recovered by WHO by region:
   1. Data came from country\_wise\_latest.csv
   2. Created the Clustered Bar chart to show the Sum of Deaths, Sum of new cases and Sum of new recovered by WHO by region.
   3. Used the format to updated the title size and name from PowerBI default.
   4. Decided to go with a light/medium shade of blue for total deaths by region.
3. **Line chart** – Total Cases and Total Deaths by Country/Region:
   1. Data came from worldometer\_data.csv file
   2. Created the line chart to show the trends of Total Cases and Total Deaths by Country/Region.
   3. Used the format to updated the title size and name from PowerBI default.
   4. Decided to go with a light/medium shade of blue for Total Cases amd Dark Blue to total deaths.
4. **Clustered Bar chart** – Deaths, Confirmed, Active and Recovered by Country/Region:
   1. Data came from covid\_19\_clean\_complete.csv
   2. Created the Clustered Bar chart to show the Sum of Deaths, Sum of new cases and Sum of new recovered by WHO by region.
   3. Used the format to updated the title size and name from PowerBI default.
   4. Decided to go with a light/medium shade of blue for deaths. Dark blue for Confirmed cases, Orange for Active cases and Purple for Recovered cases.
5. **Treemap chart** – Confirmed by Province states:
   1. Data came from usa\_county\_wise.csv.
   2. Created the Treemap chart to show the confirmed cases by United state province.
   3. Used the format to updated the title size and name from PowerBI default.
6. **Stacked Area chart** – New deaths, New cases, Recovered / 100 Cases, Deaths and Active by Month:
   1. Data came from day\_wise.csv
   2. Created the line Stacked Area chart to show the trends of New deaths, New cases, Recovered / 100 Cases, Deaths and Active by Month
   3. Used the format to updated the title size and name from PowerBI default.
   4. Went with a medium/dark shade of blue for new Deaths, Dark Blue for new cases, Orange for recovered and Purple for Deaths and Red for active cases.
7. **Stacked Column chart**– Active and New cases by Country/Region:
   1. Used dataset full\_grouped.csv.
   2. Updated title, axis, and legend names.
   3. Went with light blue and dark rea palette for Active and Deaths.

GitHub location-

<https://github.com/dhirajbankar/DSC640.git>