**Scenario:**  
You are a Data Analyst at Health Insights, a healthcare analytics firm, tasked with providing insights to optimize the management of COVID-19 resources. The organization has received a dataset of COVID-19 cases over several months, including data on the number of cases, deaths, and recovery rates by region and other factors. The Chief Data Officer (CDO) has asked for a strategic recommendation, based on your analysis of the COVID-19 data, to guide the future response strategies.

The CDO says:  
"Team, we are at a critical point in managing COVID-19 resources for the coming months. Some regions are seeing an increasing number of cases, while others are showing promising recovery trends. We need a clearer understanding of what factors contribute to successful containment and recovery rates, and how we should allocate resources in the upcoming phase.

**Columns:**

**Country/Region**: The country or region where the COVID-19 data was recorded.

**Confirmed**: The total number of confirmed COVID-19 cases in the region.

**Deaths**: The total number of deaths attributed to COVID-19 in the region.

**Recovered**: The total number of people who have recovered from COVID-19 in the region.

**Active**: The number of currently active COVID-19 cases in the region.

**New cases**: The number of new COVID-19 cases reported in the most recent data update.

**New deaths**: The number of new deaths reported in the most recent data update.

**New recovered**: The number of new recoveries reported in the most recent data update.

**Deaths / 100 Cases**: The percentage of deaths per 100 confirmed COVID-19 cases.

**Recovered / 100 Cases**: The percentage of recoveries per 100 confirmed COVID-19 cases.

**Deaths / 100 Recovered**: The percentage of deaths per 100 people who have recovered.

**Confirmed last week**: The total number of confirmed COVID-19 cases from the previous week.

**1 week change**: The change in the number of confirmed cases over the past week.

**1 week % increase**: The percentage increase in confirmed COVID-19 cases over the past week.

**WHO Region**: The region as defined by the World Health Organization (WHO) to which the country or region belongs.

**Tasks:**

1. EDA Process for dataset
   1. Head, tail
   2. Info
   3. Describe
   4. Nunique
   5. Check null values
   6. Check columns
2. Check distribution of main columns
3. Check outliers of dataset
4. Make visiualizations top 5 countries as certain columns:
   1. Top 5 Confirmes columns
   2. Top 5 Death columns
   3. Top 5 Recover columns
   4. Top 5 Active columns
5. Make visiualizations last 5 countries as certain columns:
   1. Last 5 Confirmes columns
   2. Last 5 Death columns
   3. Last 5 Recover columns
   4. Last 5 Active columns
6. Make visiualizations top 5 Region as certain columns:
   1. Last 5 Confirmes columns
   2. Last 5 Death columns
   3. Last 5 Recover columns
   4. Last 5 Active columns
7. Make visiualizations last 5 Region as certain columns:
   1. Last 5 Confirmes columns
   2. Last 5 Death columns
   3. Last 5 Recover columns
   4. Last 5 Active columns