1. Data Understanding

- **Data Preprocessing**: Are there any missing values or duplicates in columns like `Confirmed`, `Deaths`, `Recovered`, `Tests`, or `Date`?
- **Data Types**: What data types are assigned to columns such as `Confirmed`, `Deaths`, `Recovered`, and `Date`? Are they correct?
- **Time-Series Data**: Is the dataset structured in a time-series format with the `Date` column? Can you analyze trends over time based on this column?

2. Descriptive Analysis

- **Total Cases & Deaths**: What is the total number of Covid-19 cases (`Confirmed`) and deaths (`Deaths`) in each country (`Country`)? Which country has the highest values?
- **Trend Analysis**: What is the trend in the number of Covid-19 cases (`Confirmed`) and deaths (`Deaths`) over time (`Date`) in each country (`Country`)?
- **Geographical Distribution**: Which countries (`Country`) have the highest number of confirmed cases (`Confirmed`) and deaths (`Deaths`)?
- **Cases per Population**: What is the number of Covid-19 cases (`Confirmed`) per 1,000 people for each country (`Country`), using the `Population` column?

3. Comparative Analysis

- **Country-wise Comparison**: Which countries (`Country`) have the highest and lowest number of confirmed Covid-19 cases (`Confirmed`) and deaths (`Deaths`)?
- **Testing & Positivity Rates**: What is the correlation between the number of tests (`Tests`) and the number of confirmed cases (`Confirmed`)? Does a higher number of tests correlate with a higher positivity rate?
- **Recovery vs. Death Rate**: How does the recovery rate (`Recovered`/`Confirmed`) compare to the death rate (`Deaths`/`Confirmed`) across countries (`Country`)?

4. Predictive Modeling

- **Prediction of Future Cases**: Can we predict future Covid-19 cases (`Confirmed`) in a country (e.g., `India`) using a time-series forecasting model with the `Date` column?
- **Prediction of Deaths**: Can a regression model predict the number of deaths (`Deaths`) in a country (e.g., `USA`) based on the current number of confirmed cases (`Confirmed`)?
- **Impact of Vaccination**: If vaccination rate data is available, is there a relationship between the number of vaccinations and the number of cases (`Confirmed`) or deaths (`Deaths`) in a country (`Country`)?

- **Machine Learning Model**: Can we build a machine learning model to classify countries (`Country`) based on the severity of Covid-19, using features such as `Confirmed`, `Deaths`, and `Population`?

5. Correlation and Causality

- **Correlation between Cases & Deaths**: Is there a correlation between the number of confirmed cases (`Confirmed`) and deaths (`Deaths`) across different countries (`Country`)? What is the Pearson correlation coefficient?
- **Effect of Social Distancing or Lockdown**: Is there a significant change in the number of cases (`Confirmed`) before and after lockdown measures were implemented? Can you compare this based on `Date` and the government's lockdown date?

6. Visualization

- **Heatmap for Geographical Spread**: Can you create a heatmap that shows the spread of Covid-19 across countries (`Country`) with values of confirmed cases (`Confirmed`) and deaths (`Deaths`)?
- **Line Charts for Trends**: Can you visualize the trend of new Covid-19 cases (`Confirmed`) and deaths (`Deaths`) over time (`Date`) for a specific country (`Country`) using a line chart?
- **Bar Charts**: Can you create bar charts that compare Covid-19 cases (`Confirmed`), deaths (`Deaths`), and recovery rates (`Recovered`) across different countries (`Country`)?
- **Pie Chart for Cases Distribution**: Can you show the proportion of total cases (`Confirmed`), recoveries (`Recovered`), and deaths (`Deaths`) across countries (`Country`) using a pie chart?

7. Advanced Analysis

- **Clustering of Countries**: Can you apply K-means clustering or another clustering technique to group countries (`Country`) based on the severity of Covid-19 cases (`Confirmed`), deaths (`Deaths`), and population (`Population`)?
- **Risk Factor Analysis**: Is there a correlation between population density (if available in `Population` or another column) and the number of Covid-19 cases (`Confirmed`)? Does population density explain the spread of Covid-19 in certain countries (`Country`)?
- **Sentiment Analysis**: If there is a column for social media sentiment or news articles related to Covid-19, can you perform sentiment analysis to assess public opinion over time (`Date`) and correlate it with the number of cases (`Confirmed`) or deaths (`Deaths`)?

Example Questions (with Columns):

1. **Descriptive Analysis**: "What is the trend of daily Covid-19 cases (`Confirmed`) and deaths (`Deaths`) in `India` over the last 6 months (using `Date`)?"
2. **Predictive Modeling**: "Can we predict the number of Covid-19 cases (`Confirmed`) in `Brazil` for the next 30 days using a time-series model (based on `Date`)?"
3. **Visualization**: "Can you create a heatmap to visualize the spread of Covid-19 (`Confirmed`) in different regions (`Country`) over time (`Date`)?"
4. **Correlation Analysis**: "Is there a significant correlation between the number of Covid-19 cases (`Confirmed`) and the number of tests (`Tests`) conducted in `USA`?"