Project Definition: The project involves analyzing COVID-19 cases and deaths data using IBM Cognos. The objective is to compare and contrast the mean values and standard deviations of cases and associated deaths per day and by country in the EU/EEA. This project encompasses defining analysis objectives, collecting COVID-19 data, designing relevant visualizations in IBM Cognos, and deriving insights from the data.

Analyzing COVID-19 cases and deaths data using IBM Cognos is a valuable project that can provide insights into the impact of the pandemic in the EU/EEA region. Here's a step-by-step guide on how to approach this project:

1. Define Analysis Objectives:

Start by clearly defining the objectives of your analysis. In your case, it seems like the primary objectives are:

- Compare and contrast the mean values of COVID-19 cases and associated deaths per day.

- Compare and contrast the mean values of COVID-19 cases and associated deaths by country in the EU/EEA.

- Calculate and compare the standard deviations of cases and deaths per day and by country.

2. Data Collection:

To perform this analysis, you will need access to COVID-19 data for the EU/EEA region. You can obtain this data from reliable sources such as the European Centre for Disease Prevention and Control (ECDC) or government health agencies. Ensure that the data is up-to-date and well-structured, with information on cases, deaths, dates, and countries.

3. Data Preparation:

Before you can start analyzing the data in IBM Cognos, you need to clean and prepare it. This may involve tasks like:

- Removing duplicates and missing values.

- Formatting date fields correctly.

4. Import Data into IBM Cognos:

Once your data is prepared, you can import it into IBM Cognos. This may involve creating data sources or connections to your dataset.

5. Design Relevant Visualizations:

IBM Cognos provides a variety of tools for creating visualizations. To achieve your objectives, consider creating the following types of visualizations:

- Line charts: Use these to visualize the trends in daily COVID-19 cases and deaths over time.

- Bar charts: Display the mean values of cases and deaths by country.

- Tables: Present standard deviations alongside means for a more detailed analysis.

6. Create Dashboards:

Combine your visualizations into dashboards that provide a comprehensive view of the data. Dashboards allow you to present your insights clearly and make it easier for stakeholders to understand the information.

7. Perform Analysis:

Use IBM Cognos to calculate the mean values and standard deviations of cases and deaths per day and by country. You can apply statistical functions and filters to segment the data as needed.

8. Derive Insights:

Once you have your visualizations and analysis in place, it's time to derive insights from the data. Look for patterns, trends, and anomalies in the data. Identify which countries have been most affected and how the situation has evolved over time.

9. Present Findings:

Create a report or presentation summarizing your findings and insights. Use clear visuals and annotations to communicate your results effectively. Make sure to address the objectives you defined at the beginning of the project.

10. Share and Collaborate:

Share your findings with relevant stakeholders, such as public health officials or policymakers. Collaborate with others to ensure that your analysis informs decision-making and contributes to the understanding of the COVID-19 situation in the EU/EEA.

11. Maintain and Update:

COVID-19 data is dynamic and constantly changing. Consider setting up a system to regularly update your analysis with the latest data to provide ongoing insights.