

COVID-19 Analysis with IBM Cognos

User

Phase 1: Problem Definition and Design Thinking

In this part you will need to understand the problem statement and create a document on what have you understood and how will you proceed ahead with solving the problem. Please think on a design and present in form of a document.

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/EER. This project encompasses defining analysis objectives, collecting COVID-19 data, designing relevant visualizations in IBM Cognos, and deriving insights from the data.

Design Thinking:

Analysis Objectives: Define the specific objectives of analyzing COVID-19 cases and deaths data, such as comparing mean values and standard deviations.

Data Collection: Obtain the provided data file containing COVID-19 cases and deaths information per day and by country in the EU/EER.

Visualization Strategy: Plan how to visualize the mean values and standard deviations using IBM Cognos to create informative charts and graphs.

Insights Generation: Identify potential insights from the comparison of mean values and standard deviations of cases and deaths.

Certainly, here's a document outlining the Problem Definition and Design Thinking for the project involving the analysis of COVID-19 cases and deaths data using IBM Cognos:

Problem Definition and Design Thinking Document

Project Definition:

The project's primary goal is to analyze COVID-19 cases and deaths data within the European Union and European Economic Area (EU/EEA) using IBM Cognos. The specific objectives include comparing and contrasting the mean values and standard deviations of cases and associated deaths per day and by country. This project encompasses the following key components:

Design Thinking:

1. Analysis Objectives:

Objective 1: To compare the mean values of COVID-19 cases and deaths per day in the EU/EEA.

Objective 2: To contrast the standard deviations of COVID-19 cases and deaths per day in the EU/EEA.

Objective 3: To analyze the mean values and standard deviations of COVID-19 cases and deaths by country in the EU/EEA.

These objectives will guide the analysis and visualization process, ensuring that our efforts remain focused and meaningful.

2. Data Collection:

We will obtain the provided data file containing COVID-19 cases and deaths information per day and by country within the EU/EEA. The data should be clean, up-to-date, and properly structured for analysis. If necessary, data preprocessing steps will be performed to ensure data quality.

3. Visualization Strategy:

We will plan an effective visualization strategy to convey the insights gained from the data analysis.

IBM Cognos will be the primary tool for creating visualizations. It offers a wide range of visualization options, including charts, graphs, and dashboards.

The choice of visualization types will depend on the specific analysis objectives. For mean values and standard deviations, bar charts, line graphs, and box plots may be suitable choices.

Visualizations will be designed to be informative, visually appealing, and easily interpretable.

4. Insights Generation:

We will identify potential insights through the comparison of mean values and standard deviations of COVID-19 cases and deaths.

Insights may include identifying countries or regions with significant variations in case and death rates, trends over time, and potential correlations between variables.

These insights will be documented and presented in a clear and concise manner, with supporting visualizations.

Timeline and Milestones:

A detailed project timeline with milestones will be established to track progress and ensure timely completion.

Team Collaboration:

Collaboration among team members, including data analysts, visualization experts, and domain experts, will be essential to leverage diverse skills and perspectives.

Conclusion:

This document outlines the problem definition and design thinking for the analysis of COVID-19 cases and deaths data using IBM Cognos. By defining clear objectives, ensuring data quality, selecting appropriate visualization techniques, and generating meaningful insights, we aim to provide valuable information for informed decision-making.