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IBM CONGNOS DATA ANALYSIS

COVID 19-GROUP 2

Step 1: Data Collection

Find a reliable source for COVID-19 data. Websites like Johns Hopkins University, World Health Organization (WHO), or government health department websites often provide updated datasets.

Step 2: Data Loading and Preprocessing

Loading Data:

Import the COVID-19 dataset into IBM Cognos. This process usually involves uploading a CSV or Excel file.

Data Cleaning:

Handle missing values, outliers, and inconsistencies in the dataset.

Data Transformation:

Convert data types if necessary (e.g., dates, numerical values).

Normalize or standardize data if you plan to use algorithms sensitive to the scale of the variables.

Step 3: Data Analysis and Visualization

Descriptive Statistics:

Calculate basic statistics like mean, median, and standard deviation.

Exploratory Data Analysis (EDA):

Use histograms, box plots, or scatter plots to understand the distribution of variables.

Advanced Analytics:

Perform more complex analyses like regression, clustering, or time series forecasting if your dataset allows.

Visualizations:

Create visualizations like bar charts, line graphs, heat maps, and geographical maps to represent the COVID-19 data.

Dashboard Creation:

Design interactive dashboards displaying key metrics and trends. Cognos allows you to create dynamic and customizable dashboards.

Step 4: Interpreting Results

Identify Patterns:

Look for patterns or trends in the data. For example, analyze how infection rates vary over time or across regions.

Data Insights:

Derive meaningful insights from the analyses. Understand the impact of various factors on the spread of COVID-19.

Step 5: Report Generation and Sharing

Create Reports:

Generate comprehensive reports summarizing your analyses, insights, and visualizations.

Sharing:

Share your reports and dashboards with stakeholders. Cognos allows you to export reports in various formats (PDF, Excel) or share them online.

Remember, the specific steps and features can vary based on the version of IBM Cognos you are using. Consult Cognos documentation or online tutorials for detailed instructions related to your version. If you have specific questions or encounter challenges during any of these steps, feel free to ask for assistance!