BABU BANARASI DAS UNIVERSITY

LUCKNOW

Session : 2024-2025

SCHOOL OF COMPUTER APPLICATION

ASSIGNMENT

ON

Interactive Data Story on COVID-19 Using IBM Cognos Analytics

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Semester: 3rd

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Submitted To:

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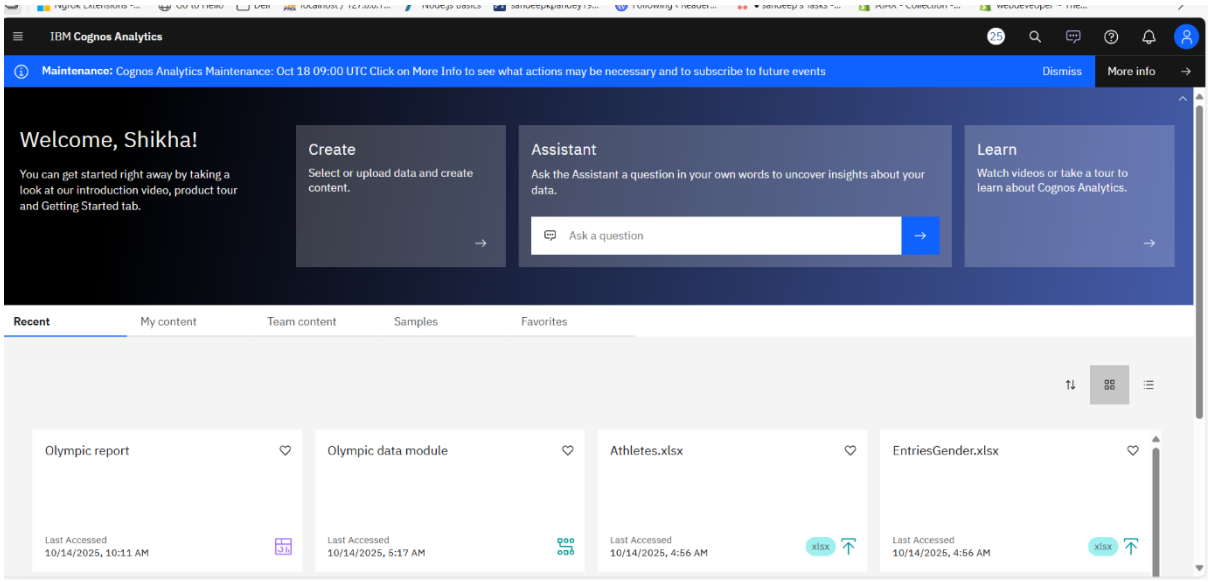
Agenda/Definition: The main objective of this project is to create an interactive data story in IBM Cognos Analytics using the COVID-19 dataset. The story visualizes confirmed cases, recoveries, deaths, and vaccination trends to show the overall pandemic impact.

Outcomes/Learning: Through this project, I learned how to use IBM Cognos Analytics to create interactive data stories and visualize large datasets effectively.

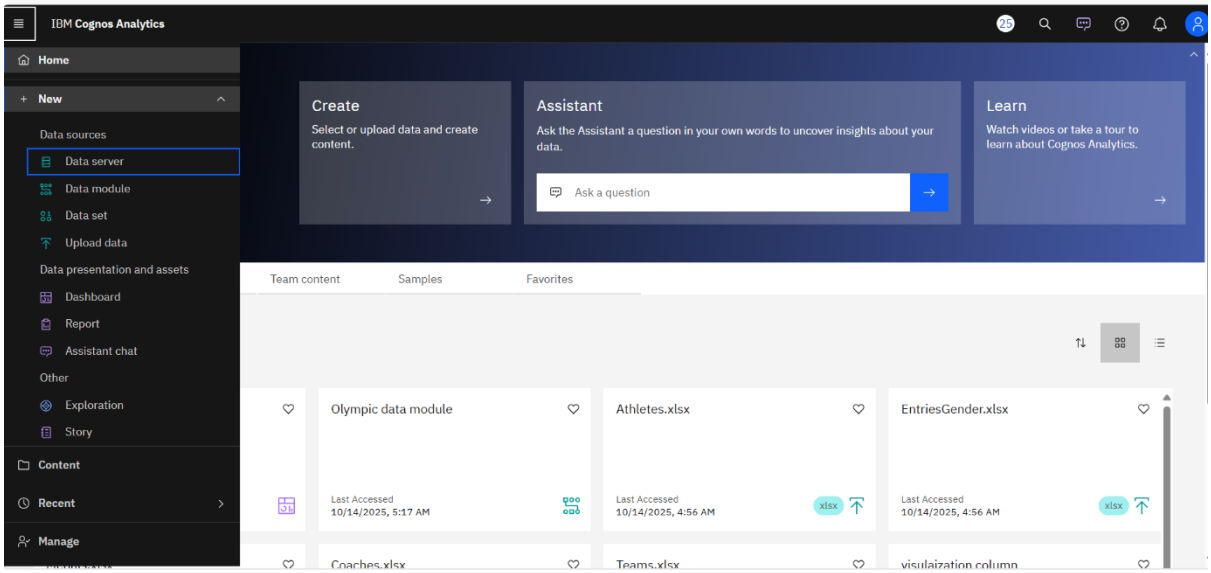
Required Tool: IBM Cognos Analytics

Working: The COVID-19 dataset was uploaded, analyzed, and visualized using various charts and graphs. A data story with multiple scenes was created to show key insights.

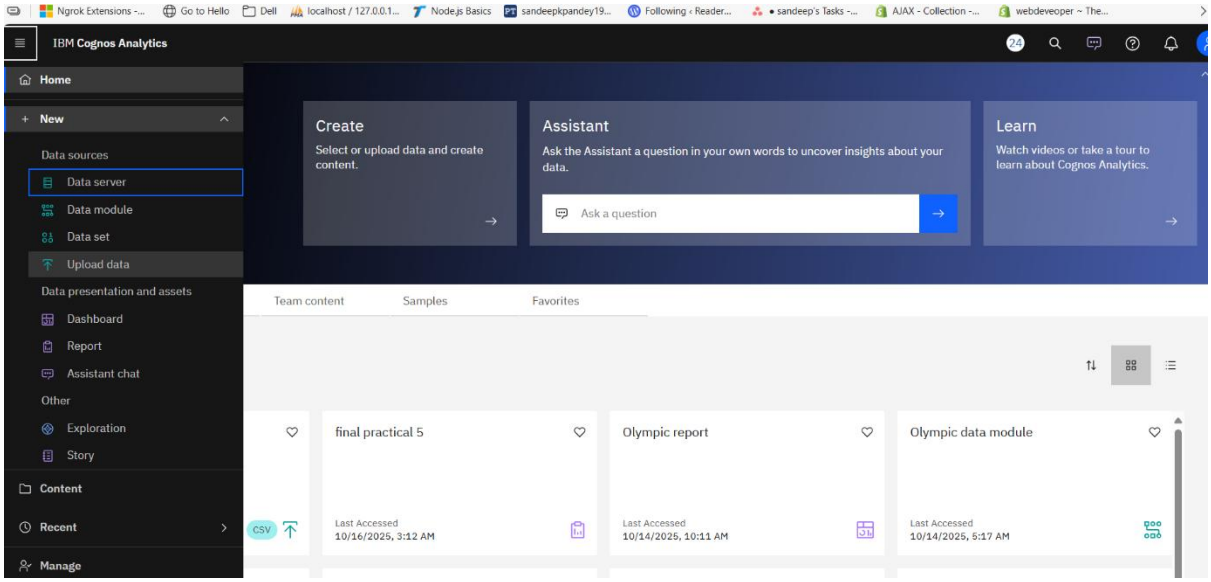
Step 1: Login to IBM Cognos Analytics



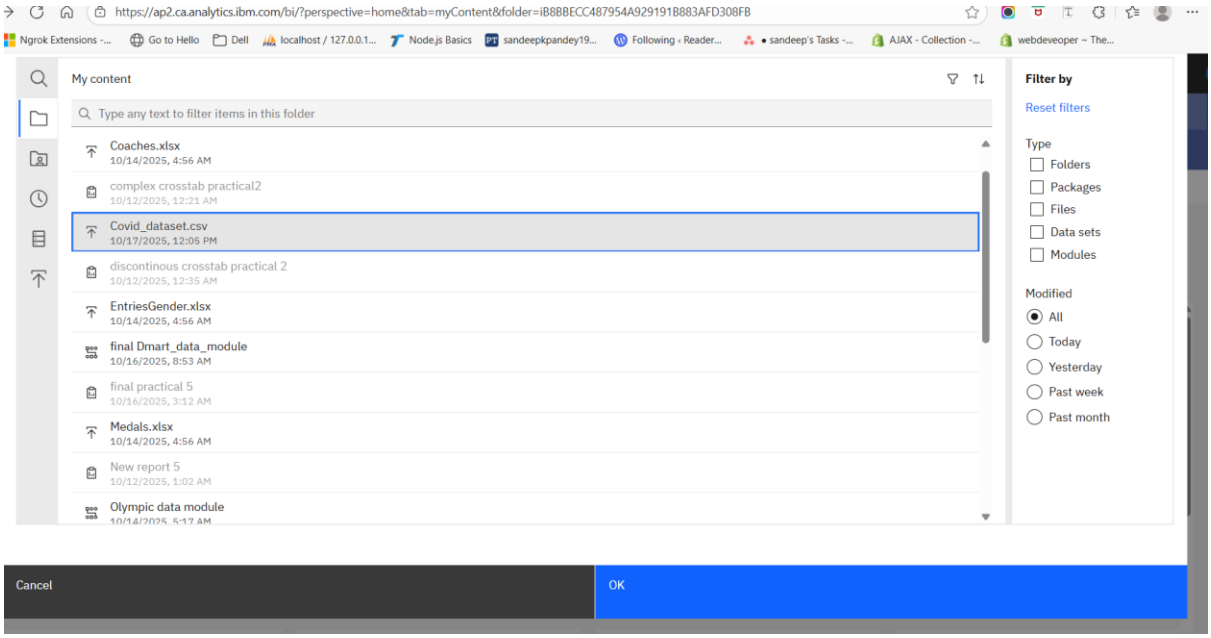
Step 2: Open the "New" Menu and Select Data Source.



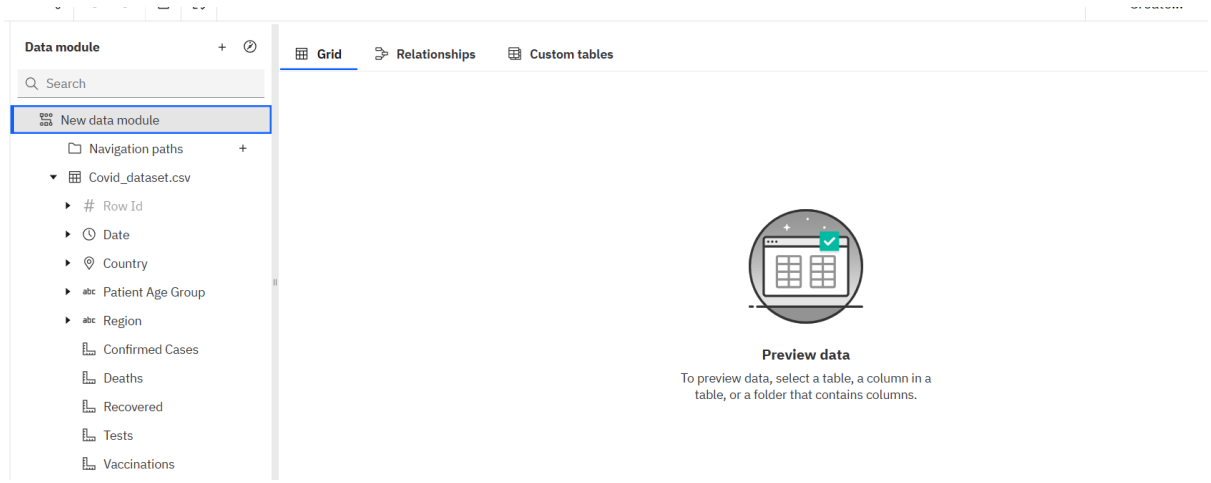
Step 3: Upload the Dataset into IBM Cognos Analytics.



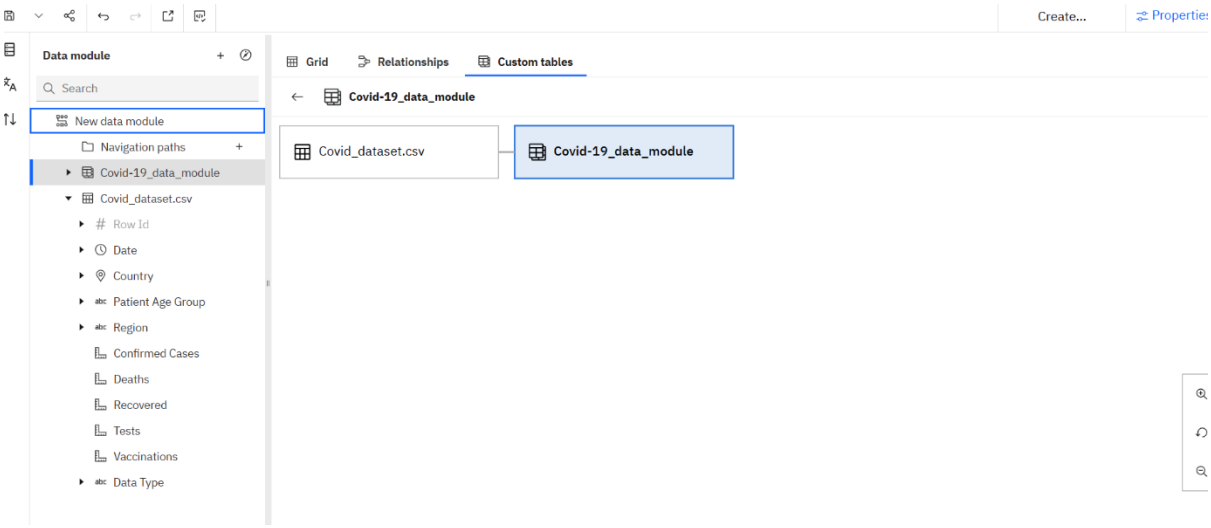
Step 4: After uploading the **Covid-19.csv** file successfully, the next step is to convert this uploaded data into a **Data Module.**



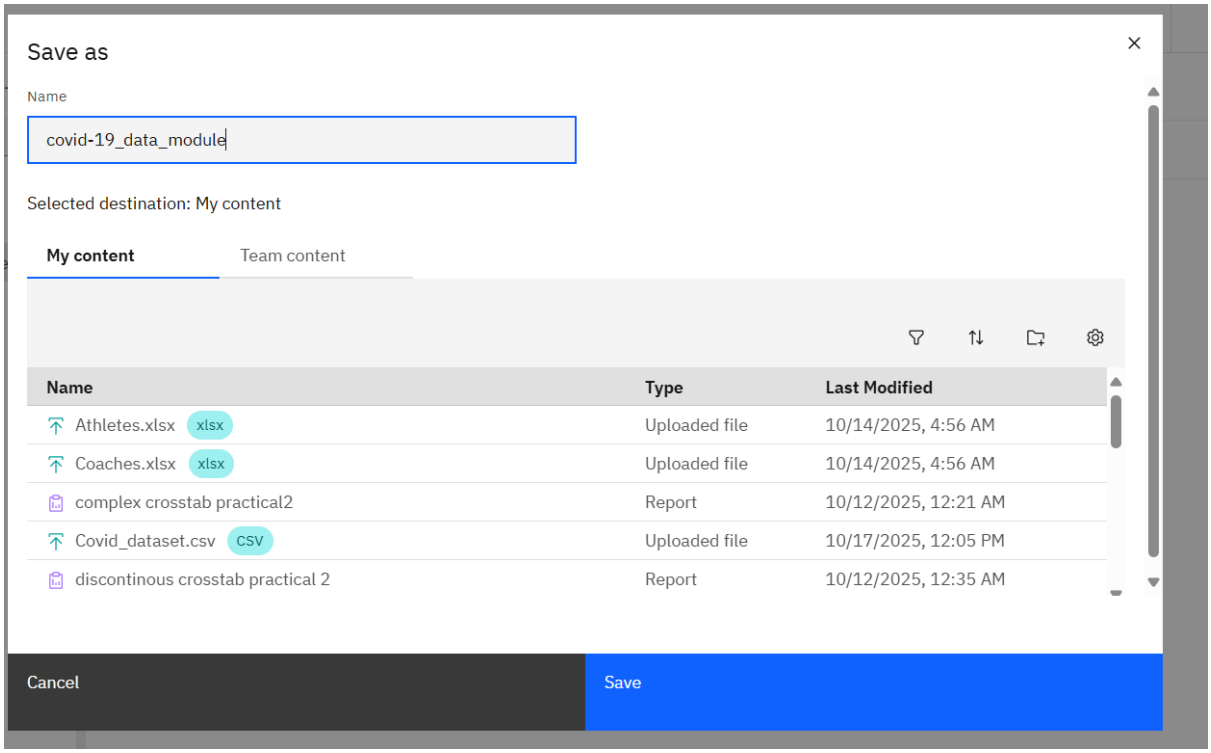
Step 5: After verification, we save the module using the **Save As** option and give it a proper name (for exp. Covid-19_data module).



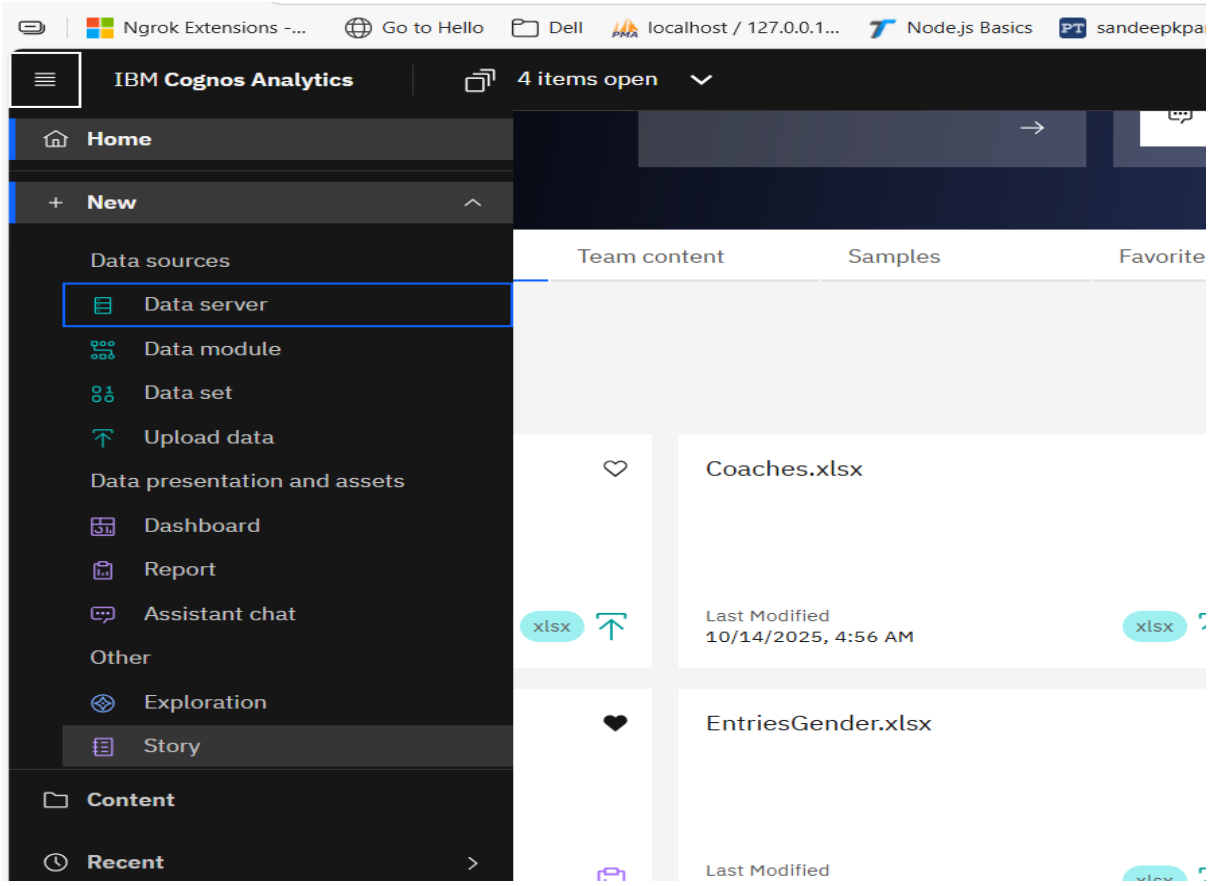
Step 6: In this step, the uploaded dataset **Covid_Dataset.csv** is converted and saved as a **Final Covid_Data_Module**.



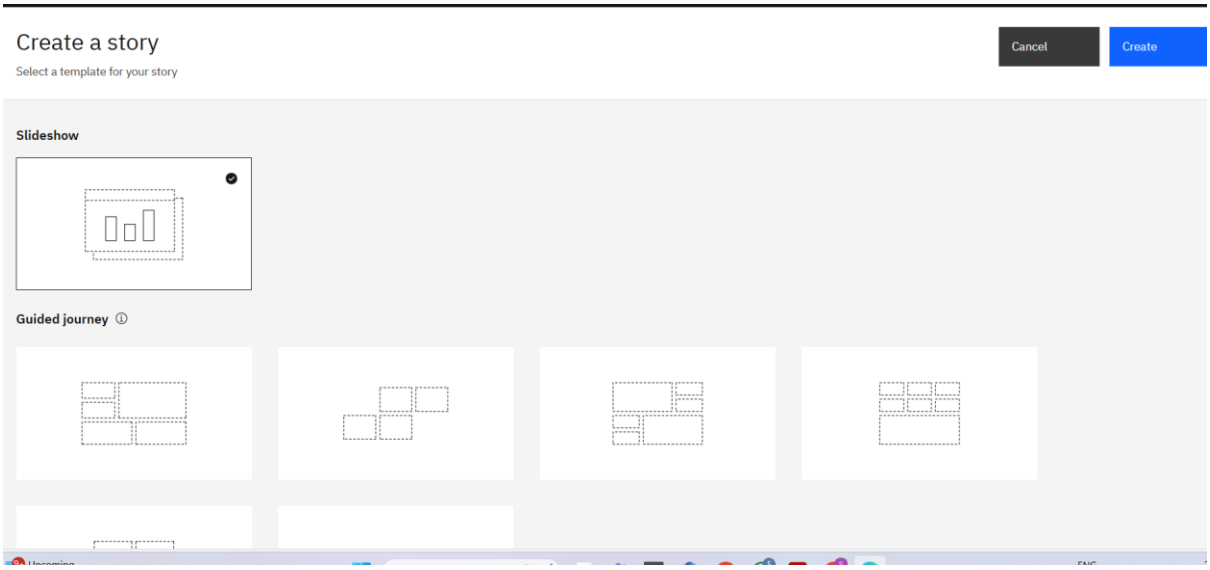
Step 7: After preparing and saving the **Final Covid_Data Module**, the next step is saved data module in my content .



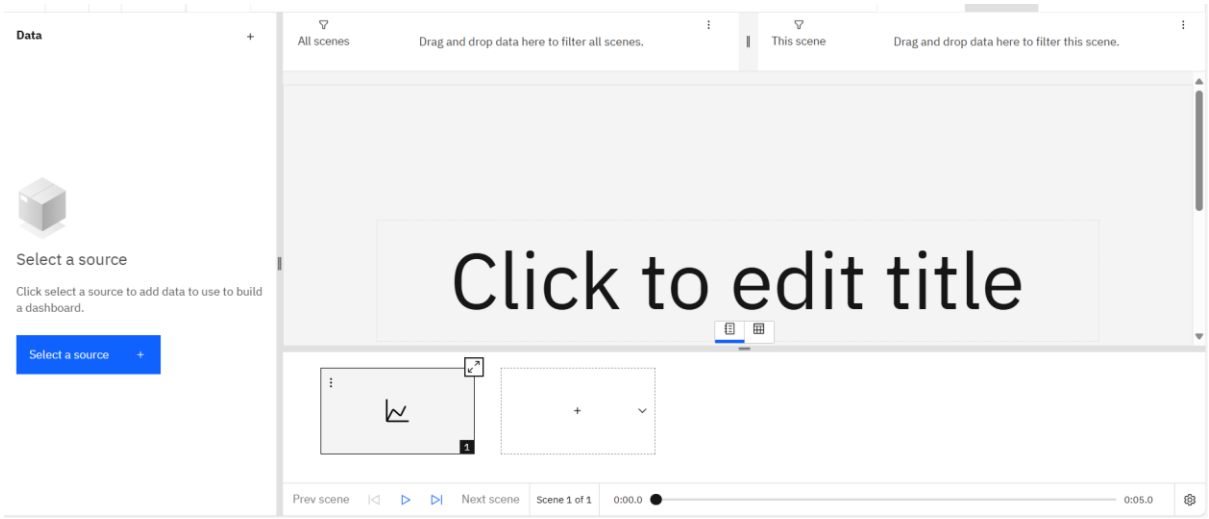
Step 8: After preparing and saving the **Final Covid Data Module**, the next step is to create a new **Story** From the **New** menu on the left side of the IBM Cognos Analytics home screen.



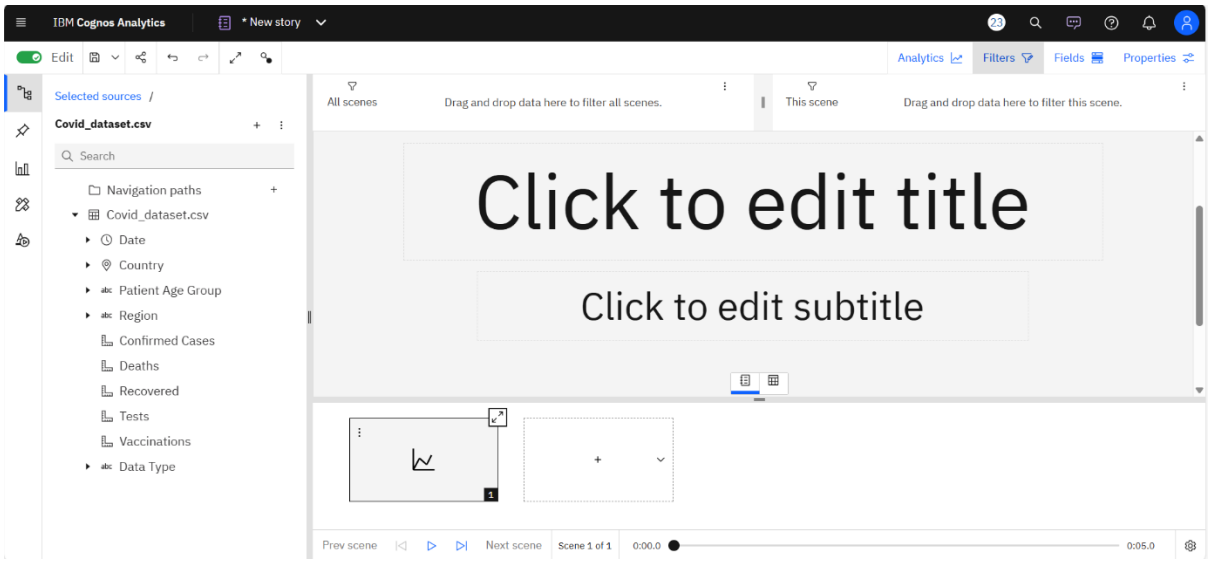
Step9: A new window appears titled **"Create a story"**, which allows you to choose a suitable **layout template** for your Story.



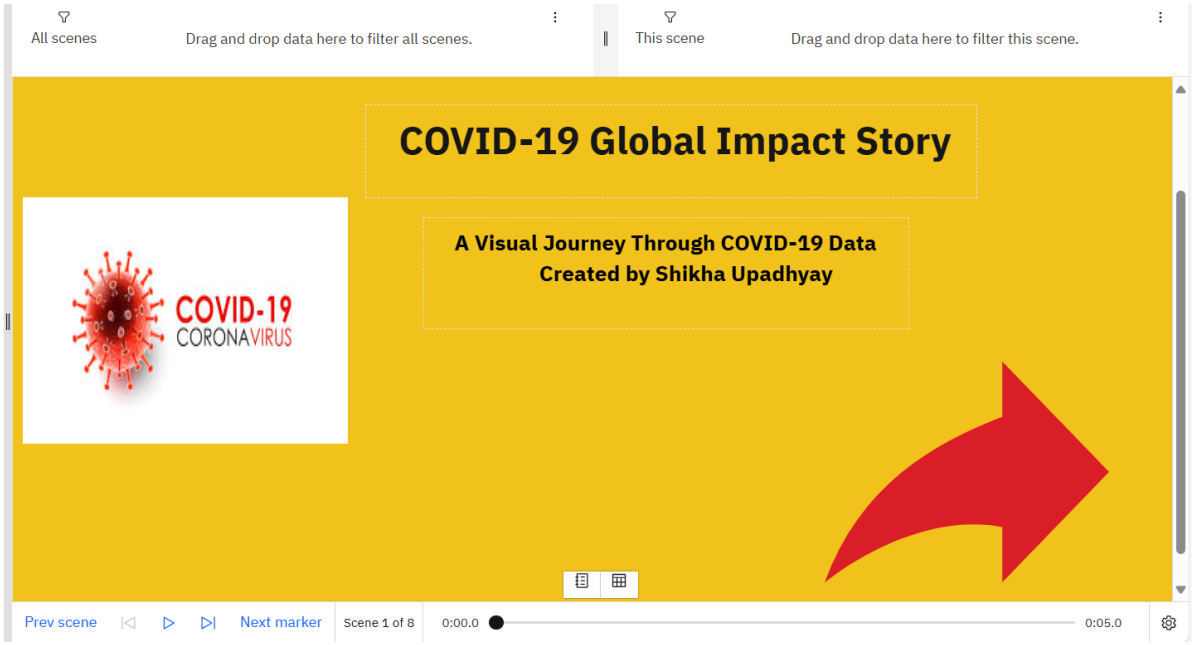
Step 10: After creating the story layout, the **story workspace** opens in IBM Cognos Analytics.The workspace includes different sections such as **Tabs, Analytics, Filters, Fields, and Properties** to manage and design the dashboard. On the left side, a panel appears with the option **"Select a source"** to connect data to the Story. Click on the **Select a source** button and choose the **Final Covid_Data_Module** as the main data source.



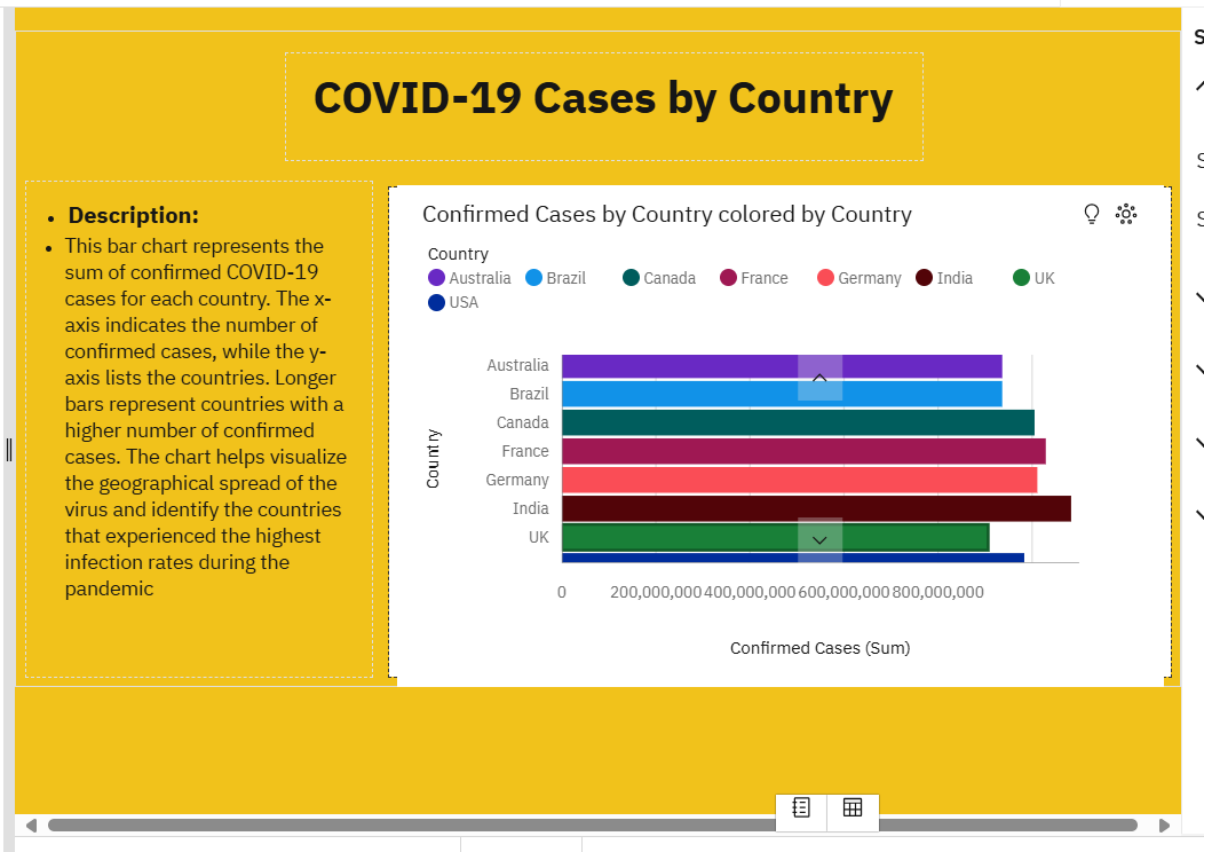
Step 11: After clicking on Select a source, a new window opens showing all available datasets and data modules under the My content section. From this list, we **select Final_Covid-19_Data_Module**, which was created earlier from the uploaded Covid-19



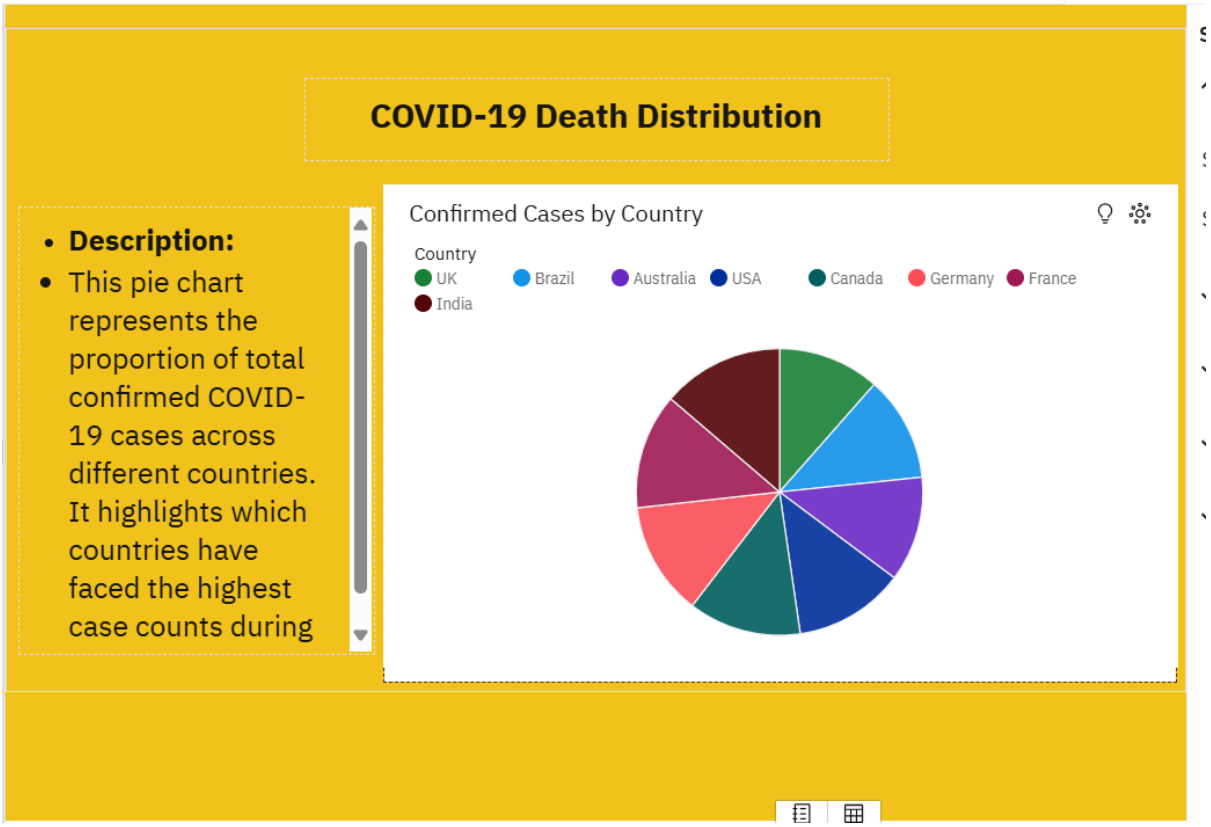
Step12: In this step, I created the **opening scene** of my data story in IBM Cognos Analytics titled **"COVID-19 Global Impact Story."**
This scene introduces the project and gives a visual overview of the topic.



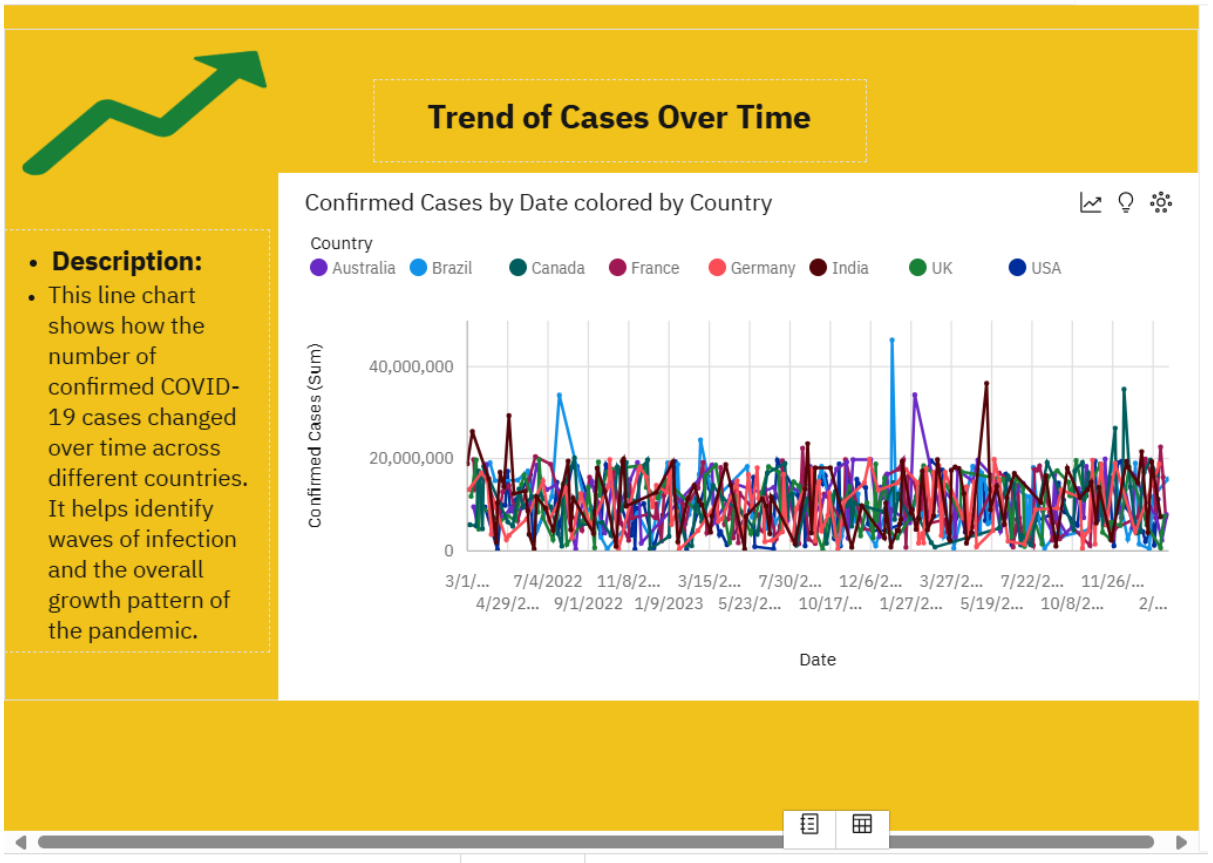
Step13: Adding the Bar Chart Visualization A **bar chart** was added to compare the total confirmed COVID-19 cases for each country. The **X-axis** represents the *sum of confirmed cases*, while the **Y-axis** lists the *country names*.



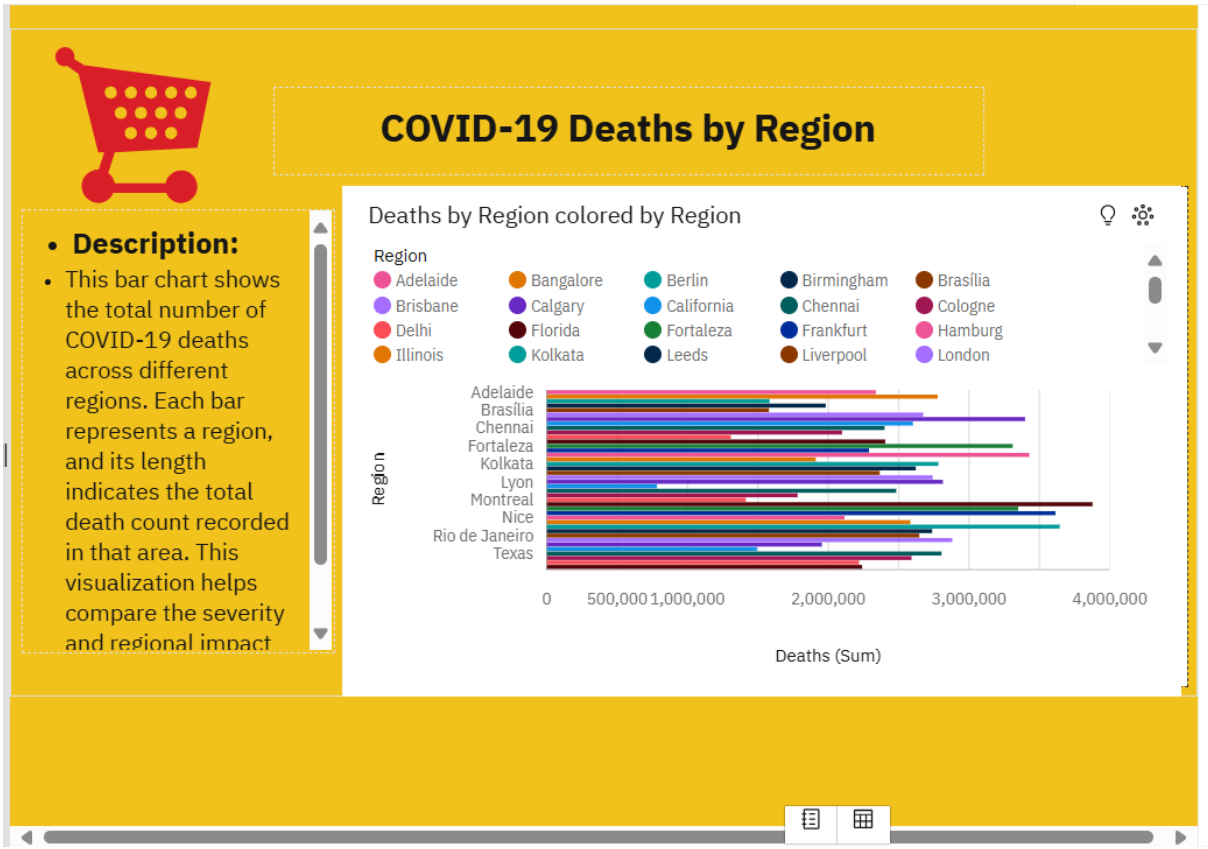
Step14: Selecting Visualization Type pie chart.



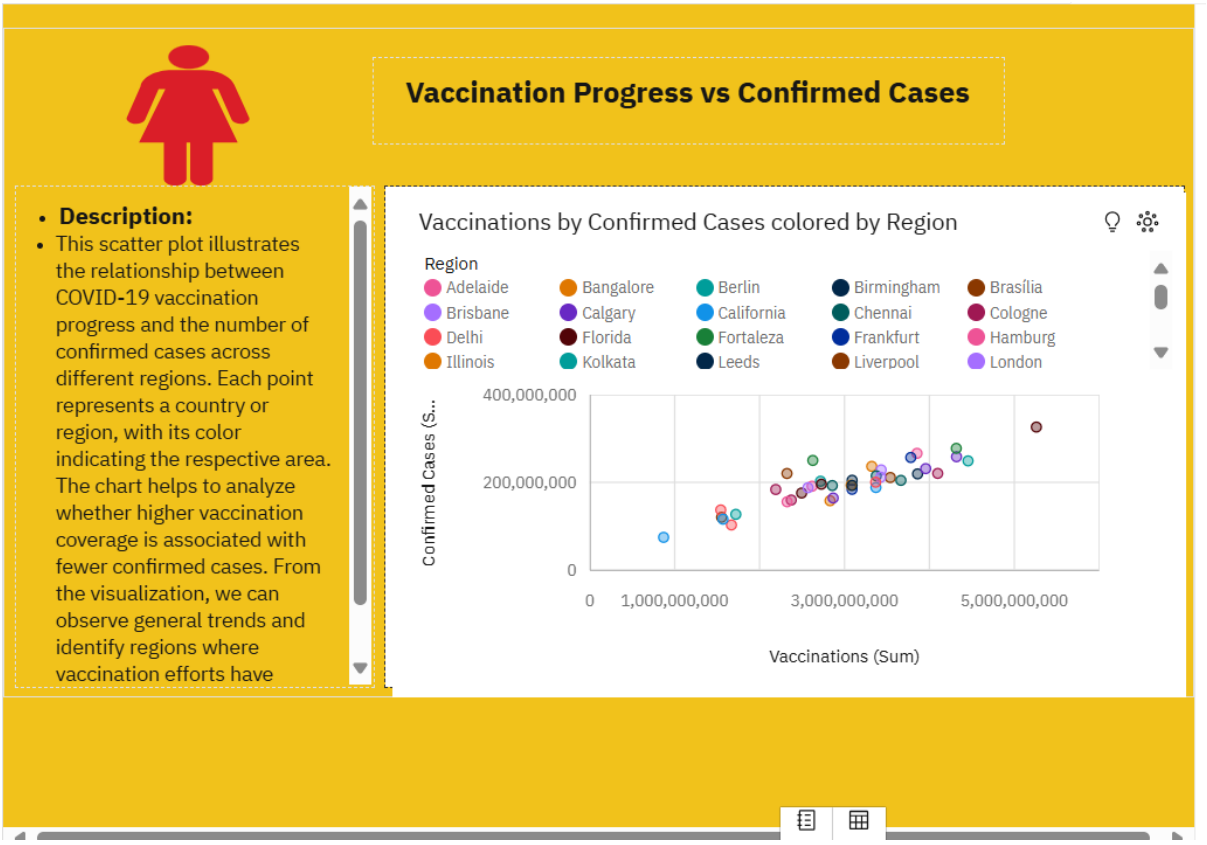
Step 15: Selecting Visualization Type line chart.



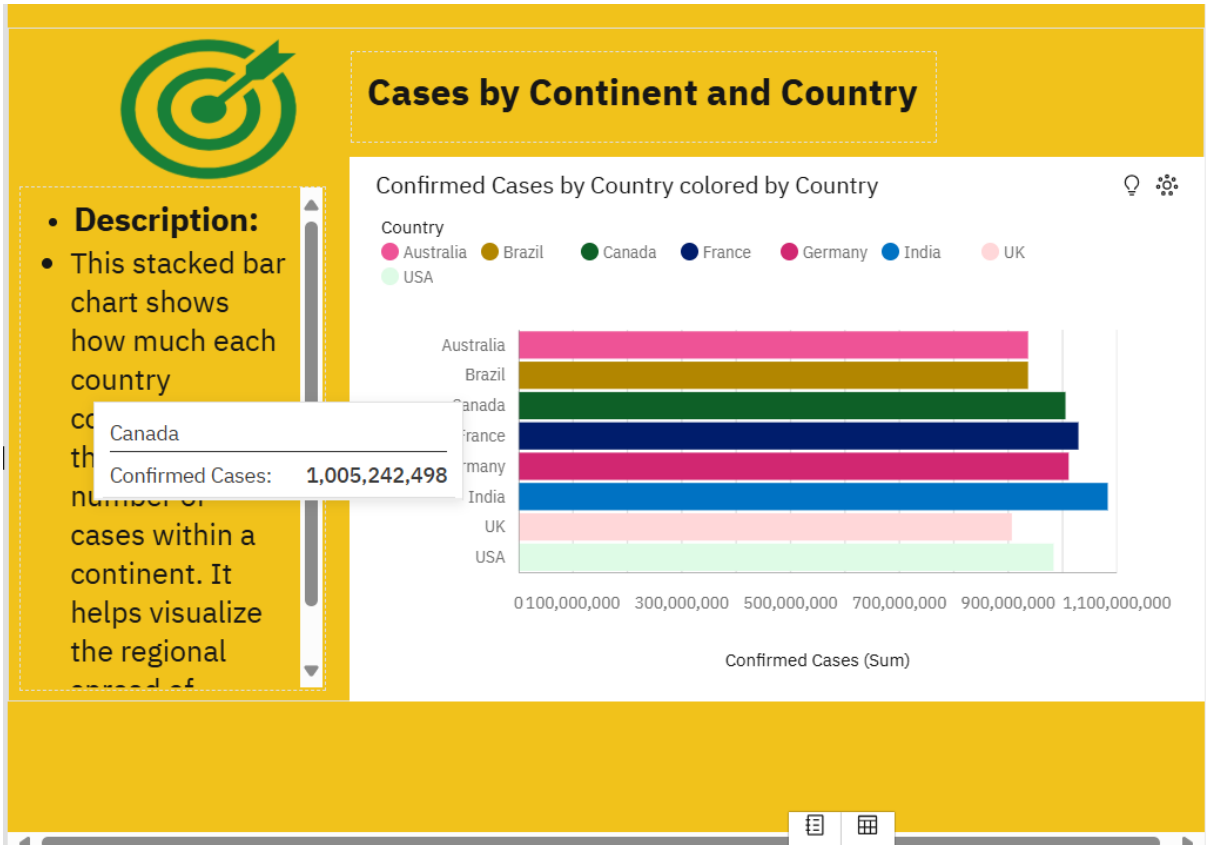
Step16: Selecting Visualization Type bar chart.



Step18: Selecting Visualization Type scatter plot.



Step 19: Selecting Visualization Type stacked bar.



Step 20: Selecting Visualization KPI.