**Task:**
Canadian Health Expenditure Data Visualization - Tableau Public

**Overview:**
This project focuses on analysing the **Canadian Health Expenditure Data for 2016** using **Tableau Public**. The visualizations and insights generated help explore health expenditure trends across provinces, age groups, and over time. Various data formats and structures were processed to ensure proper analysis and visualization, culminating in a dashboard and storytelling with Tableau.

---

**Key Components:**

**Data Preparation:**

- **Data Formatting:** Ensured that the data was granular, row-oriented, and free of aggregates, blank cells, and extra notes. Null cells were replaced with zeros to optimize data for Tableau.

- **Data Upload:** Uploaded the formatted Canadian Health Expenditure Data for 2016 into **Tableau**.

**Visualizations Created:**

- **Health Expenditure by Province (Map):**
  A map of Canada was generated, illustrating the health expenditure for each province in 2016. This geographic visualization helped identify expenditure patterns across different regions.

- **Health Expenditure Over Time (Line Graph):**
  A line graph visualizing **health expenditure trends from 1975 to 2018** by province was created, showcasing historical patterns and changes in healthcare funding across Canada.

- **Age Group Proportional Expenditure (Pie/Bar Chart):**
  Visualized the **distribution of healthcare expenditure among various age groups** to understand which demographics accounted for the highest health spending.

**Dashboard and Storytelling:**

- **Tableau Dashboard:**
  Created a comprehensive dashboard to present key visualizations and allow users to interact with the data. The dashboard featured **provincial health expenditure trends** and **age group analysis** for easy navigation and interpretation.

- **Story with 8 Insights:**
  Developed a story with **8 key insights** derived from the dataset, such as identifying the province with the highest expenditure, observing trends in health spending across different age groups, and comparing healthcare costs over time.

---

**Skills Utilized:**

- **Tableau Public** (Data Visualization, Dashboard Creation)

- **Data Cleaning** (Format Standardization, Null Data Handling)

- **Geospatial Analysis** (Mapping Expenditures by Province)

- **Trend Analysis** (Health Spending Over Time)

**References:**

https://public.tableau.com/views/S24-WadhwaVaishnavi-INFO8677-Assignment-2/Map-2016sCanadianHealthexpenditure?:language=en-US&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link