## **Coding Challenge Insurance and Claim Incident Analysis**

Your task is to analyze the provided insurance claim dataset and deliver actionable insights using Power BI visualizations.

## **Dataset**

- Sample data fields include:
  - Policy number, state, annual premium, deductible, umbrella limit
  - Insured's age, zip, occupation, education, and hobbies
  - Incident date, type, severity, location, hour, property damage, injuries
  - Total claim amount, breakdown by injury/property/vehicle claims
  - Vehicle details, fraud reported status.

## **Problem Statement**

Analyze and visualize the insurance claims data to answer critical business questions:

- What are the trends in claims (by policy type, region, incident type, etc.)?
- Which customer segments or locations have the highest claim rates?
- What is the distribution of fraudulent vs. non-fraudulent claims, and what factors are common in fraud cases?
- What is the relationship between policy details (premium, deductible) and claim amounts/frequency?

## **Required Deliverables**

- Import and model the dataset in Power BI.
- Build visualizations—cards, bar/line charts, maps, tables—to explore key KPIs:
  - Claim count and total claim value by state, incident type, and time
  - Customer segmentation by demographic and policy features
  - Loss ratio and fraud rate by relevant attributes
- Include interactive elements (slicers for period, region, policy type, etc.).
- Prepare a short summary of findings and recommendations for the insurance company's management.