**Insurance Claims Analysis Dashboard (Power BI)**

**🔍 Objective:**

To analyze and visualize patterns in health-related insurance claims and identify risk factors (e.g., smoking, BMI, diabetes) that influence claim amounts.

**📁 Dataset:**

* Source: Synthetic dataset of 1,340 patient records
* Key fields: Age, Gender, BMI, Blood Pressure, Diabetic, Smoker, Region, Claim Amount

**🧹 Data Preparation:**

* Cleaned missing values in age and region
* Renamed columns for readability
* Created calculated columns:
  + BMI\_Category
  + AgeGroup
* Simulated ClaimDate column for time-based analysis
* Built DateTable for slicers and trend visuals

**📊 Key Metrics & Features:**

* **KPI Cards**: Total Claims, Average Claim, Patient Count
* **Charts**:
  + Claims by Region, Age Group, and BMI Category
  + Comparison of Smokers vs Non-Smokers
  + Trend over time (using simulated dates)
* **Slicers**: Gender, Diabetic, Region, Age Group, Date

**💡 Insights:**

* Smokers and individuals with higher BMI tended to have higher claim amounts
* Southeast region had more frequent and higher claims
* Adults (30–49) generated the most claims on average

**🛠 Tools Used:**

* Power BI Desktop
* Power Query
* DAX