



## About Dataset

### Car Insurance Dataset

This dataset contains information about customers and their car insurance details. It includes the following columns:

COLUMN NAME	TYPE	DESCRIPTION
id	string	Customer's record ID
birthdate	date	Customer's Birthday (mm/dd/yyyy)
marital_status	string	Customer's marital status
car_use	string	The reason of having a car: private, commercial
gender	string	Customer's gender
kids_driving	integer	No of Customers using the same car
parent	string	Is Customer a parents?
education	string	Customer's education level
car_make	string	Car's manufacturer
car_model	string	Car's model
car_color	string	Car's colour
car_year	year	The year that the car is in manufacture
claim_freq	integer	How many time customer claim insurance
coverage_zone	string	What is the coveragezone
claim_amt	decimal	Claim amount
household_income	decimal	Household income

### What you are to explore

1. What is the distribution of car usage based on gender and the presence of kids driving?  
This question can help identify patterns in car usage among different demographics, such as whether certain genders or households with kids driving use cars more frequently.
2. Which car makes and models are most frequently involved in insurance claims, and what is the average claim amount for each?  
By analyzing the frequency of insurance claims by car make and model, businesses can identify potential safety or reliability issues. Additionally, understanding the average claim amount can provide insights into the financial impact of different types of claims.
3. Is there a correlation between education level and claim frequency or claim amount?

Exploring whether there is a relationship between education level and insurance claims can help businesses understand potential risk factors associated with different demographics.

4. How does car color correlate with claim frequency and claim amount?

Analyzing insurance claims by car color can reveal whether certain colors are more prone to accidents or theft, potentially influencing insurance premiums or marketing strategies.

5. What is the average claim amount across different coverage zones?

Businesses can assess regional differences in insurance claim amounts to determine whether certain areas have higher risk levels or require adjustments to coverage policies.

6. How does household income relate to claim frequency and claim amount?

Examining the impact of household income on insurance claims can provide insights into the financial behavior of different income groups and help tailor insurance offerings accordingly.