**INSURANCE DATASET**

<https://docs.google.com/spreadsheets/d/1YwWga2LF099MVEGzbM8d2QjP90DD-CuqH2Hlw8GpRcQ/edit#gid=0>

**ASSIGNMENT 1**

**Pre-requisites:**

* MS Excel
* Insurance.xlsx

**Scenario:**

You are given an Excel file containing insurance premiums for multiple customers.

Record a macro while performing the following analysis on the dataset:

* Create a new column called **Total Insured,** which contains the total number of people covered under each policy.
* Calculate the premium paid per head by dividing the **Expense** column and the **Total Insured** column.

**ASSIGNMENT 2**

**Pre-requisites:**

* MS Excel
* Insurance.xlsx

**Scenario:**

You are given an Excel file containing insurance premiums for multiple customers.

Create the below-mentioned data validation on the respective columns:

* Ensure that the Age of customers lies between 18 – 80.
* Ensure that the gender column contains one of **male**, **female,** and **others**.
* Ensure that the BMI and expenses columns contain positive values.
* Ensure that the smoker column contains either a **yes** or a **no**.

**ASSIGNMENT 3**

**Pre-requisites:**

* MS Excel
* Insurance.xlsx

**Scenario:**

You are given an Excel file containing insurance premiums for multiple customers.

Create a dashboard that contains the following charts:

* Line chart depicting the relation between the average premium per head and age.
* Bar chart containing the fraction of male and female population who smoke.
* Pie chart depicting the count of people who smoke in each region.