**REPORT 1**

**Introduction to the Data**

The dataset provided by the Observatoire National Interministériel de la Sécurité Routière (ONISR) contains annual records of road traffic accidents involving bodily injuries in France from 2019 to 2022. These records are collected by law enforcement agencies (police, gendarmerie, etc.) at the scene of the accident and compiled into the "Fichier BAAC" (Bulletin d'Analyse des Accidents Corporels). The data includes incidents from mainland France, overseas departments (Guadeloupe, Guyane, Martinique, La Réunion, and Mayotte since 2012), and other overseas territories (Saint-Pierre-et-Miquelon, Saint-Barthélemy, Saint-Martin, Wallis-et-Futuna, French Polynesia, and New Caledonia available from 2019 in open data).

**Description of the Data**

The dataset is divided into four main CSV files:

1. **Characteristics**: This file describes the general circumstances of each accident, including the date, time, location, weather conditions, and type of collision.
2. **Locations**: This file details each accident's primary location, including the type of road, road conditions, and geographical coordinates.
3. **Vehicles**: This file includes information about the vehicles involved in the accidents, such as the vehicle type, point of impact, and maneuver prior to the accident.
4. **Users**: This file contains information about the people involved in the accidents, including their roles (driver, passenger, pedestrian), injuries sustained, safety equipment used, and personal details like age and gender.

**Potential Analyses and Insights**

1. **Trend Analysis**
   1. Temporal Trends: Analyzing accident frequency over time to identify any increases or decreases in incidents.
   2. Seasonal Patterns: Examining the data for seasonal variations, such as higher accident rates during certain months or weather conditions.
2. **Geospatial Analysis**
   1. Hotspot Identification: Mapping accident locations to identify high-risk areas.
   2. Urban vs. Rural: Comparing accident characteristics between urban and rural areas.
3. **Vehicle and User Analysis**
   1. Vehicle Types: Studying the distribution and types of vehicles involved in accidents to identify the most at-risk vehicle categories.
   2. User Demographics: Analyzing user demographics to understand which age groups or genders are most frequently involved in accidents.
4. **Severity and Outcome Analysis**
   1. Injury Severity: Investigating factors that contribute to the severity of injuries, such as speed limits, road types, and the use of safety equipment.
   2. Fatalities and Hospitalizations: Examining the conditions leading to fatalities and serious injuries to develop targeted safety interventions.
5. **Impact of Road and Environmental Conditions**
   1. Weather Conditions: Assessing how different weather conditions affect accident rates and severities.
   2. Road Features: Evaluating the impact of road features like intersections, road types, and surface conditions on accident likelihood and outcomes.

**Conclusion**

The dataset from ONISR offers a comprehensive overview of road traffic accidents involving bodily injuries in France over an extensive period. By leveraging this data, it is possible to conduct a variety of analyses aimed at improving road safety, identifying high-risk factors, and implementing effective preventive measures. Whether examining temporal trends, geospatial patterns, vehicle and user characteristics, or the impact of environmental conditions, the insights gained can significantly contribute to reducing road traffic accidents and enhancing public safety.