* What data available
* Available info
* How related to the question we are going to solve

1. Data origin:

https://safetydata.fra.dot.gov/OfficeofSafety/publicsite/on\_the\_fly\_download.aspx

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Attributes of interest |  |
| Form 54: Rail equipment accident/incident | Contains reported cases of collisions, derailments, fires, explosions, acts of God, or other events | 1. Time related: year, month, am/pm 2. Accident type related: 3. Temperature related: temp, visibility, weather 4. Geographically related: state, latitude, longitude 5. Equipment related: speed, weight, type of train (including non-passenger one) 6. Damage related: damage in $, passenger injured or killed | 1991 – current |
| Form 55a: Casualty | contains reported cases of railroad related injuries, illnesses and fatalities |  |  |
| Form 55: Railroad summary | contains summary information on the railroads monthly operations including train miles run and employee manhours worked. |  |  |

Question:

1. What contributed to fatal accidents of different railway:

Several attributes could be tested: speed, temperature, time(am or pm)

1. What vehicles are you most likely to survive if there is one fatality or more?

Among accidents, how many leading to passenger fatality (no total passenger available)

1. Is transport becoming safer?

Trending performance of no of accident, injury rates, fatality rates

1. What type of vehicle is the safest?

Definition of safest? Average no of 5 year accidents?

1. Any region has highest vehicle rates
2. Maybe available

https://railroads.dot.gov/accident-and-incident-reporting/overview-reports/accidentincident-overview