



Aircraft Risks Statistics

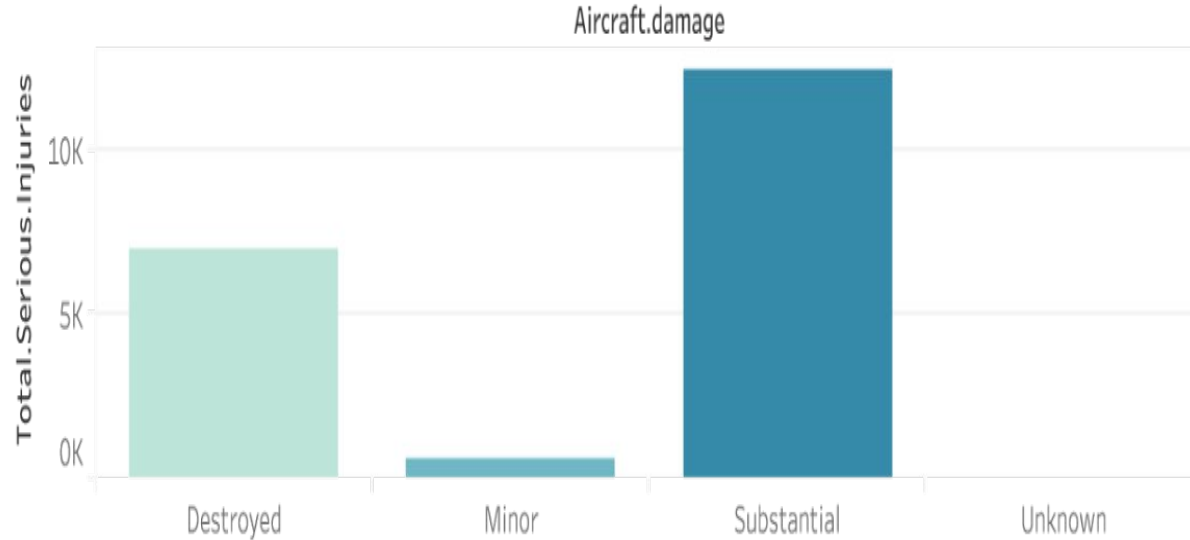
Risks involved in the Aviation Industry

Business problem

- ❖ Our company is expanding their portfolio by offering aviation services. Let's look into the risks involved before launching these services to the public.

Injuries by Damage

Serious Injuries by Damage



This visual illustrates that substantial damage to the aircraft led to a huge amount of injuries

Severity by Region

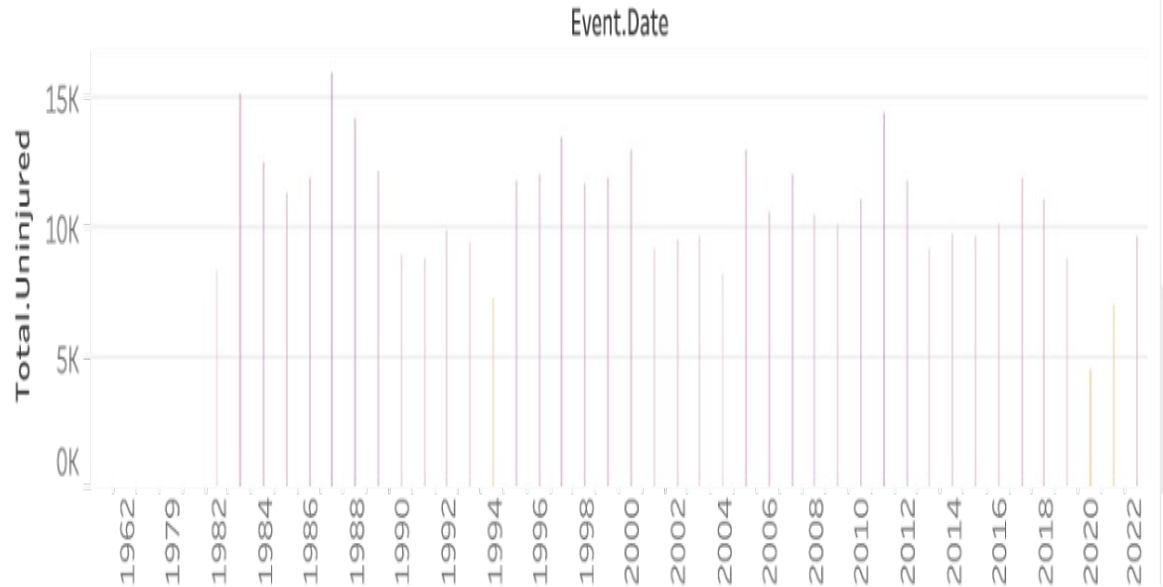
Injury Severity by Region



For this graph, we're looking at the severity of injuries by the region and we can see it is evenly spread out through the countries.

Injuries through the years

Fatal Injuries through the years



From this graph, we are able to see that the fatalities associated with the industry vary, but not by a lot. They are quite high but can be managed with the appropriate solutions.

Observations

From the graphs above, we have been able to make the following observations;

- All fatalities are common regardless of the region but some regions are more prone to fatal accidents than others.
- The number of injuries throughout the years varies but rarely experiences a drastic change.
- Planes that had the most damage caused most serious and fatal injuries.

Solutions

1. **Enhanced Training and Procedures:** Provides additional training to pilots and flight crews to address common causes of accidents or incidents. Implement standardized procedures to improve safety protocols.
2. **Improved Maintenance Protocols:** Implement more stringent maintenance schedules and procedures to ensure aircraft are properly maintained and operated safely.
3. **Technology Upgrades** Invest in technology upgrades to aircraft systems, air traffic control and safety equipment to improve overall safety and efficiency.
4. **Air Traffic Management Solutions** Develop strategies to manage air traffic flows more efficiently, including route optimization, airspace redesign, and improved communication systems.
5. **Regulatory Reform:** Advocate for regulatory reform to address identified safety issues and improve overall aviation safety standards.

Conclusion

From the study we have conducted, we've been able to find out that the aviation industry is good as long as it is well implemented.

The End.