



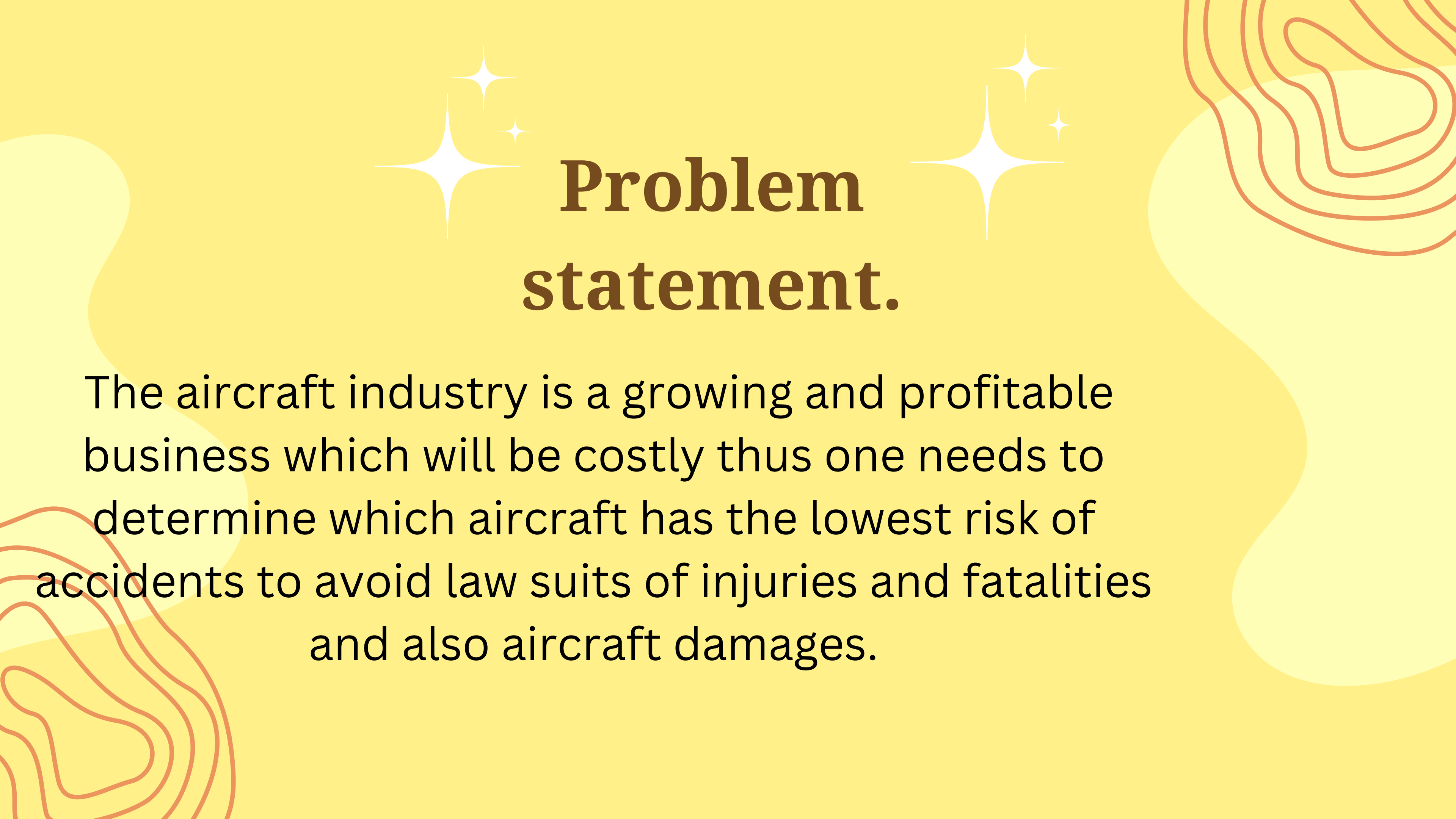
Aviation Accidents Project

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Buisness Understanding

this presentation focuses on the aircraft industry for both commercial and private enterprises. As it is a new venture it is highly important to determine which make of aircraft should be purchased.



Problem statement.

The aircraft industry is a growing and profitable business which will be costly thus one needs to determine which aircraft has the lowest risk of accidents to avoid law suits of injuries and fatalities and also aircraft damages.

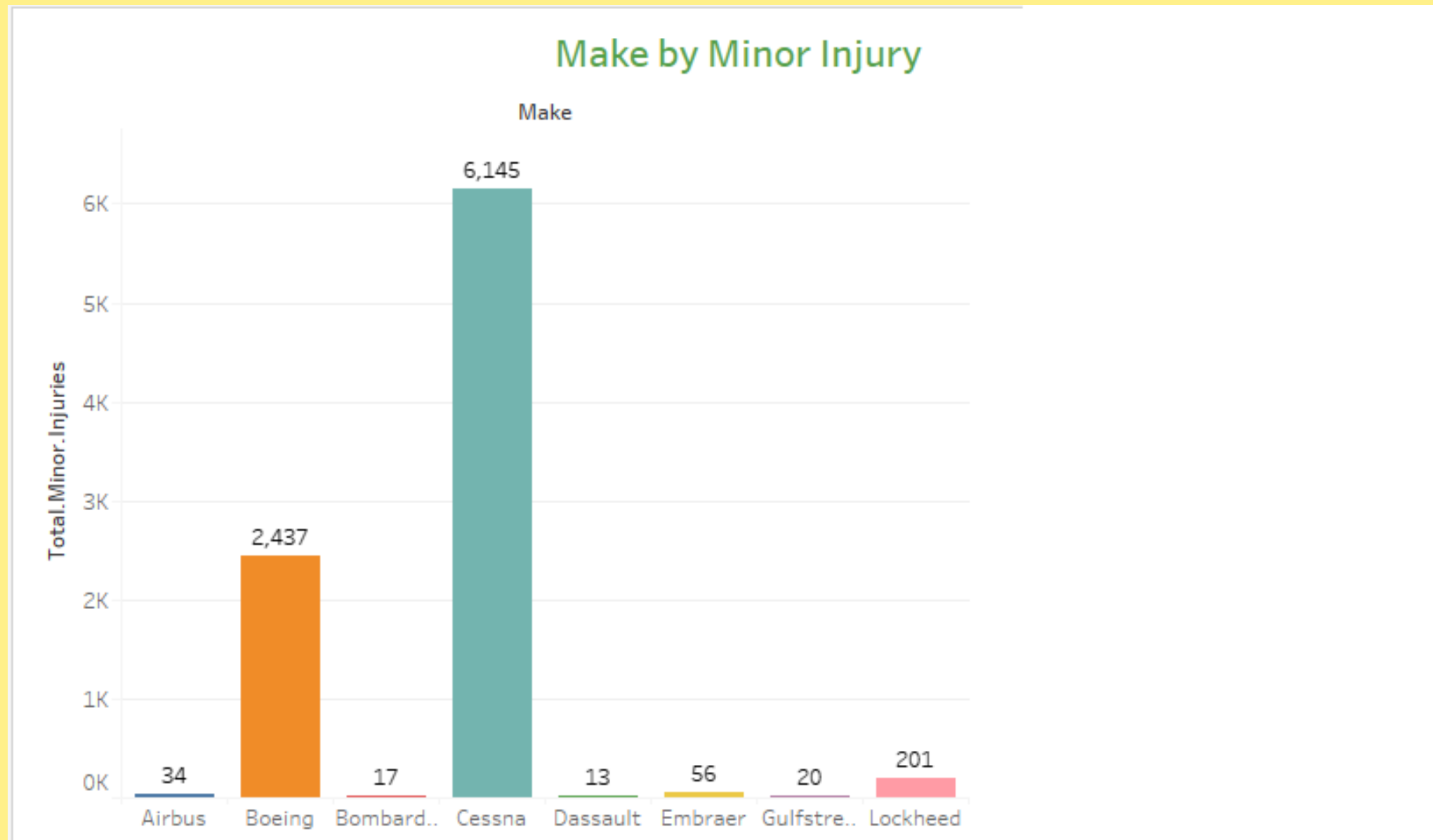
Data

✓ The data used in this project is an extract of the dataset downloaded from kaggle which is from National Transportation Safety Board that includes aviation accident data from 1962 to 2023. ✓

Data Analysis. ✨

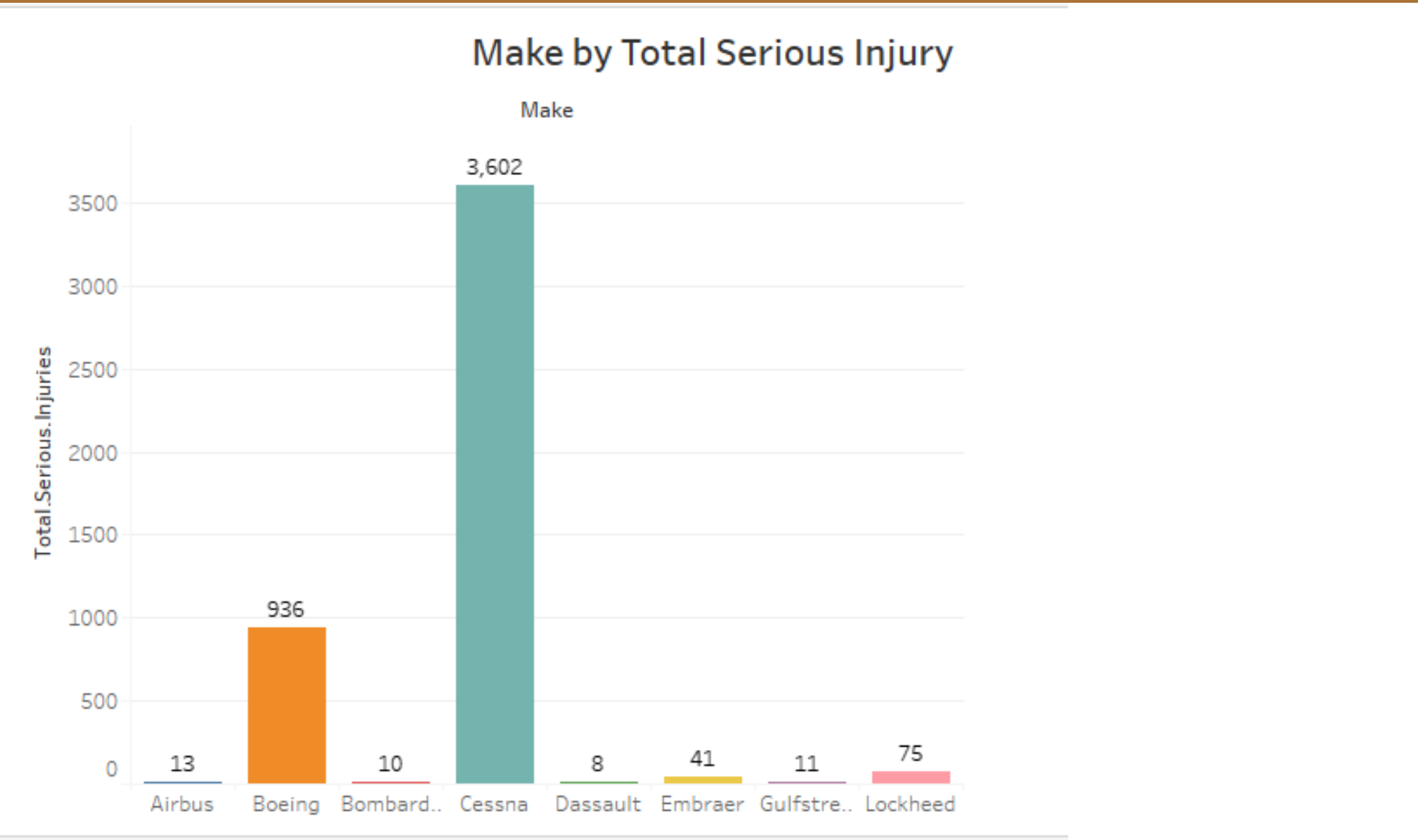
In the following slides there are graphs for analysis of the data and brief explanations of them.

Graph Of Make by Minor Total Injuries



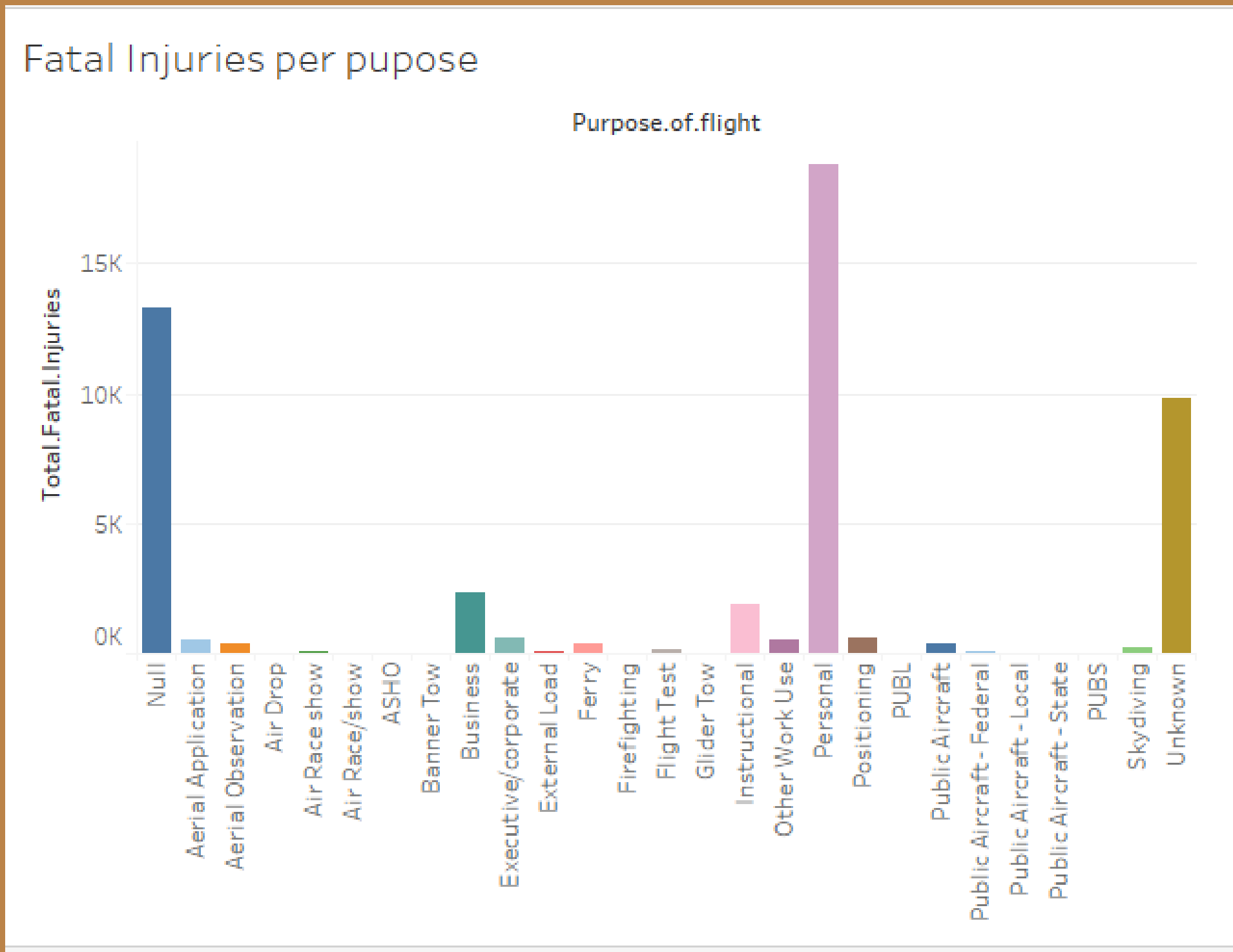
This graph showcases the total injuries that were minor for the selected makes of aircrafts.

Graph of Make by Total Serious Injuries



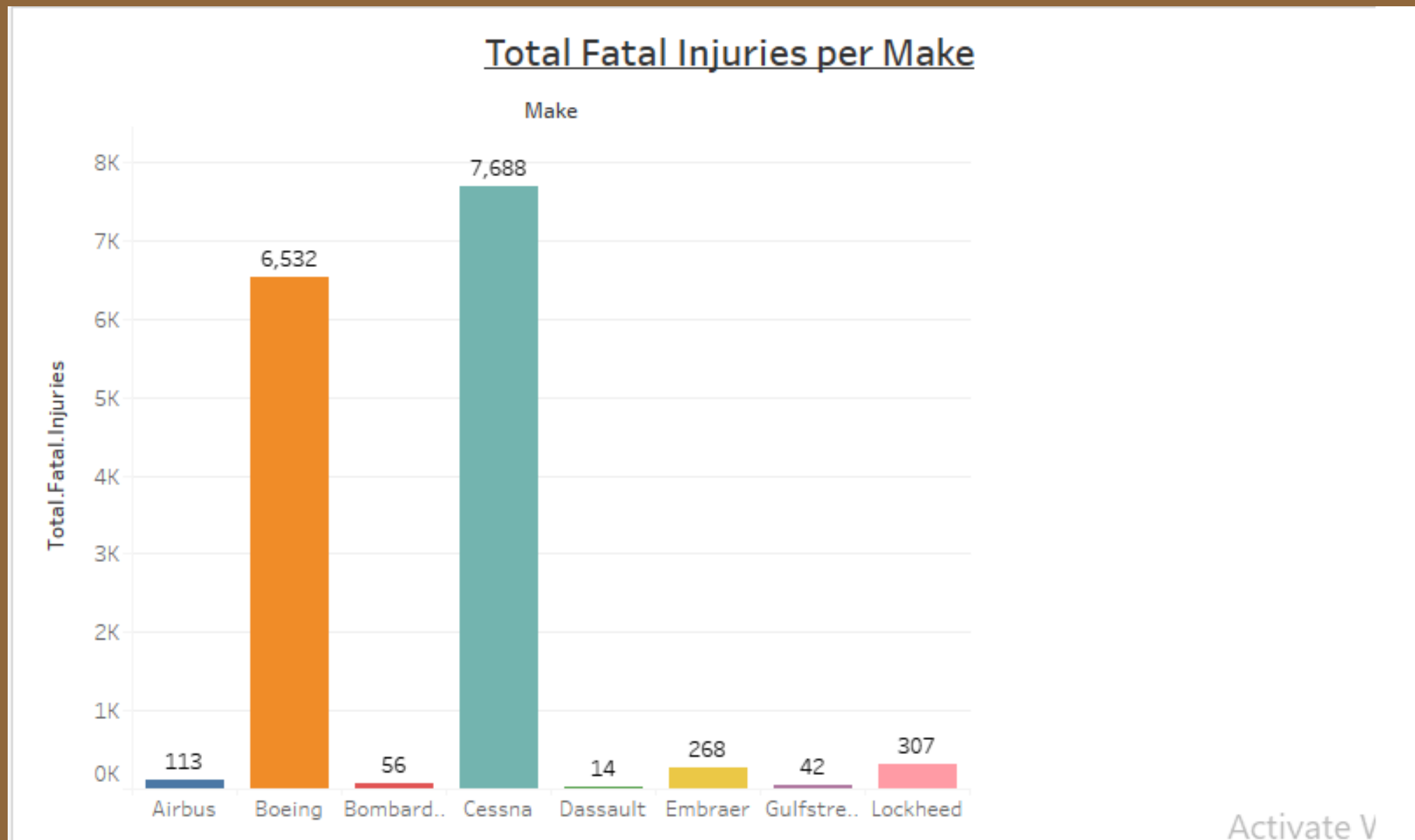
This is a graph showing total serious injuries for each selected make .

Graph for fatal injuries per Puporse



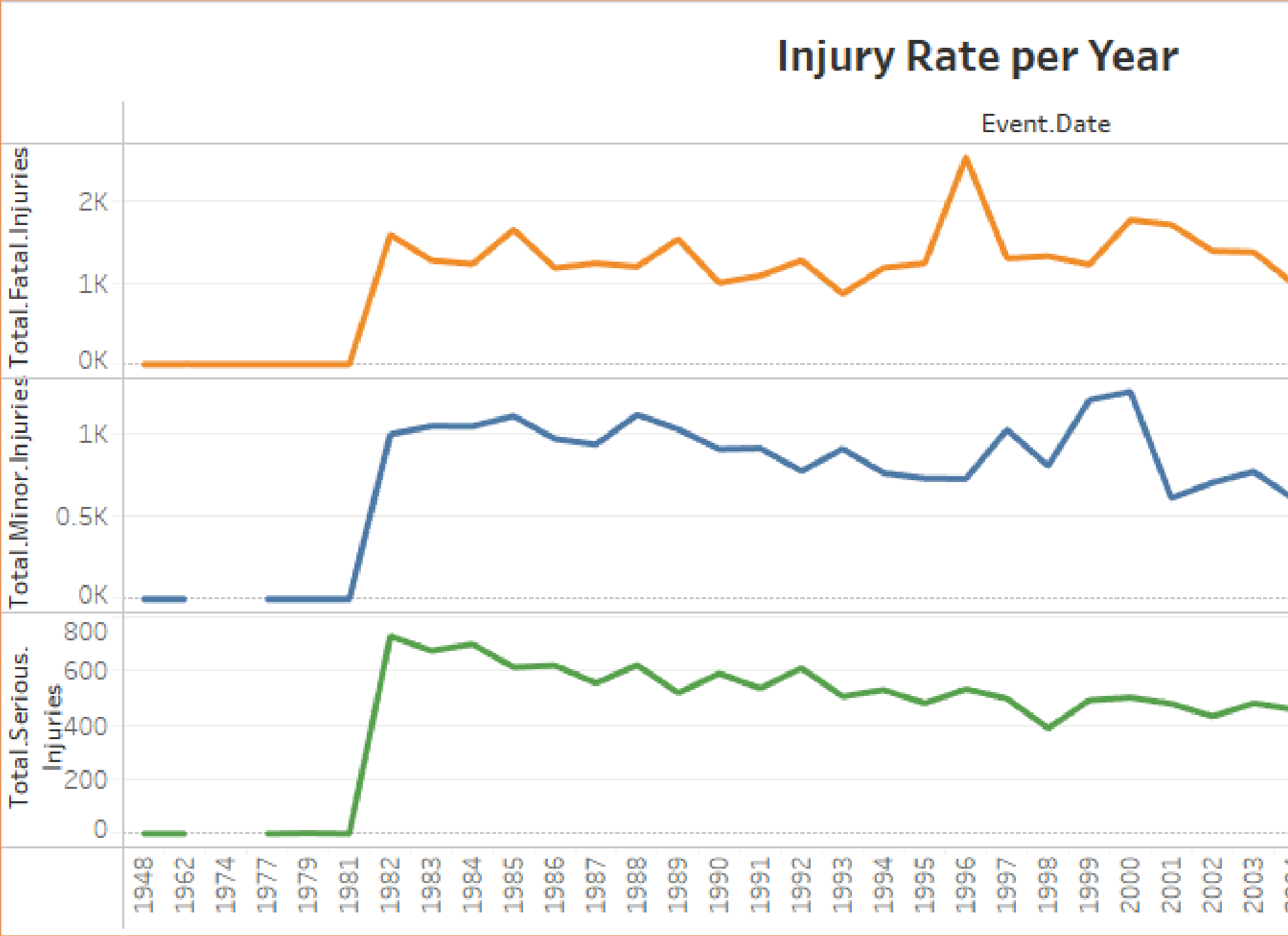
This graph represents the various purposes of planes and the fatal accidents.

Total Fatal Injuries per Make



This graph informs about the fatal injuries of the selected makes of planes.

Graph of Injury Rate per Year.



The graph displayed shows rate of injury yearly for fatal injuries in orange, serious injuries in green and minor injuries in blue.

Conclusion

- Airbus has the least injury rates for commercial aircrafts
- Cessna has the least injury rates for private aircrafts.
- Highest serious injuries are in 2008.
- Highest fatal injuries are in 1995.
- Highest minor injuries are in 2000.

Recommendation.

- As seen from the graphs the airbus make is amuch more safer choice for commercial use.
- For the private enterprice i would recommend the Cessna make although the Gulfstream make is a close second the data shows Cessna is better.



Thank You