AVIATION ACCIDENT ANALYSIS

BY MICHELLE USAGI

BUSINESS UNDERSTANDING

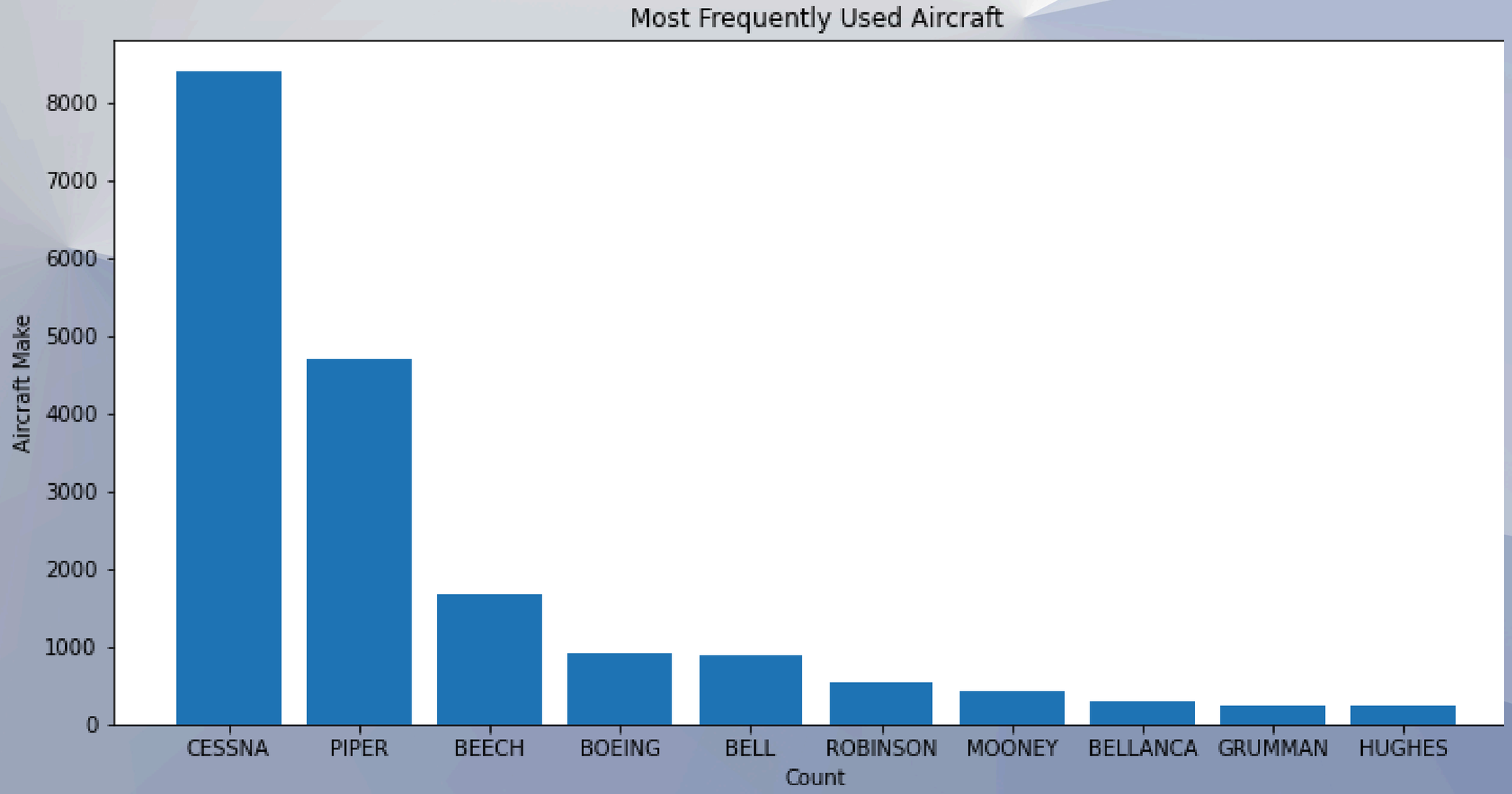
BUSINESS PROBLEM

The company is expanding into the aviation industry and needs to identify the safest aircraft models to minimize risks.

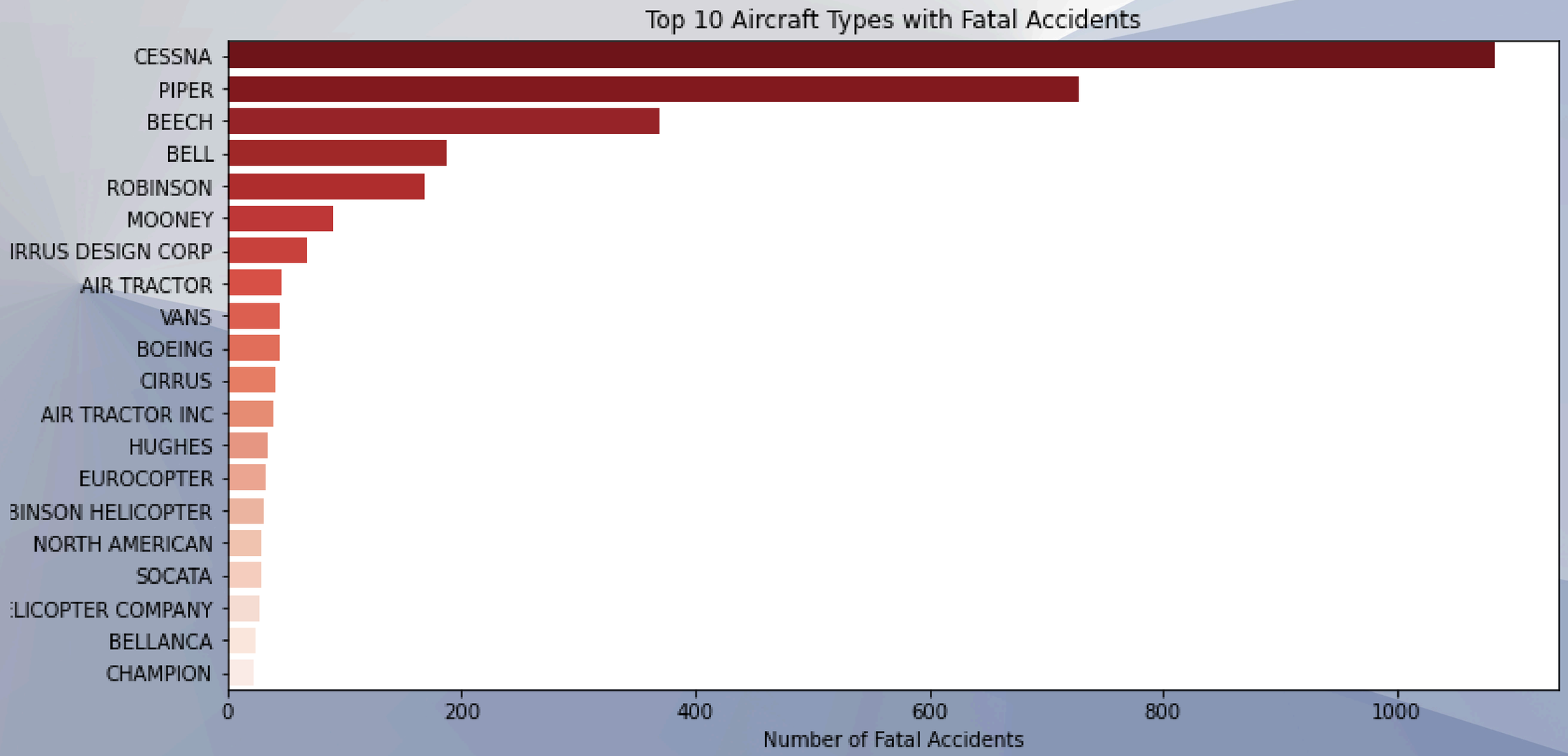
OBJECTIVE

Analyze aviation accident data to determine the safest Aircraft makes and provide data-driven recommendations.

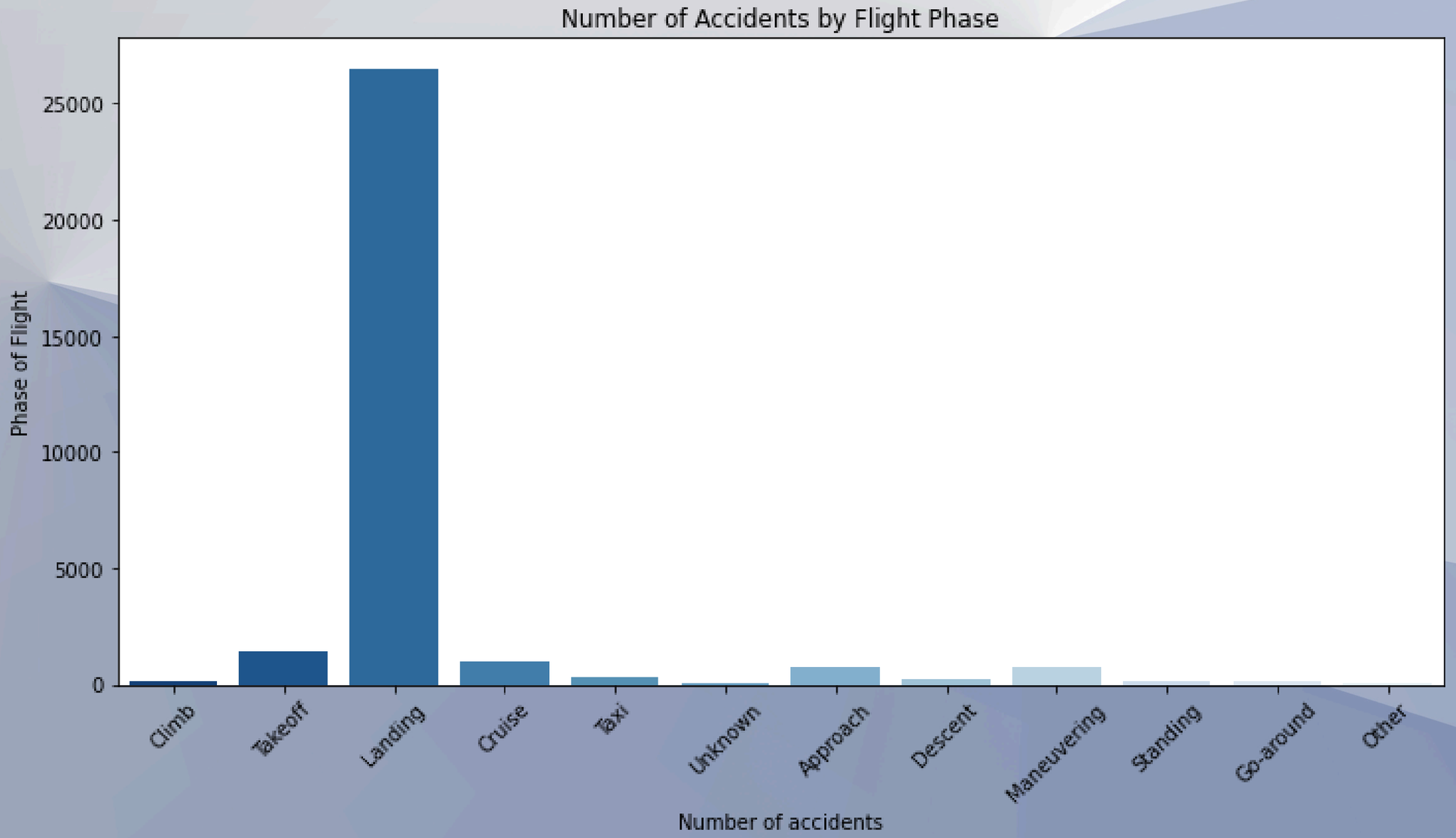
RESEARCH QUESTION 1 : WHICH IS THE MOST PREFERRED AIRCRAFT MAKE



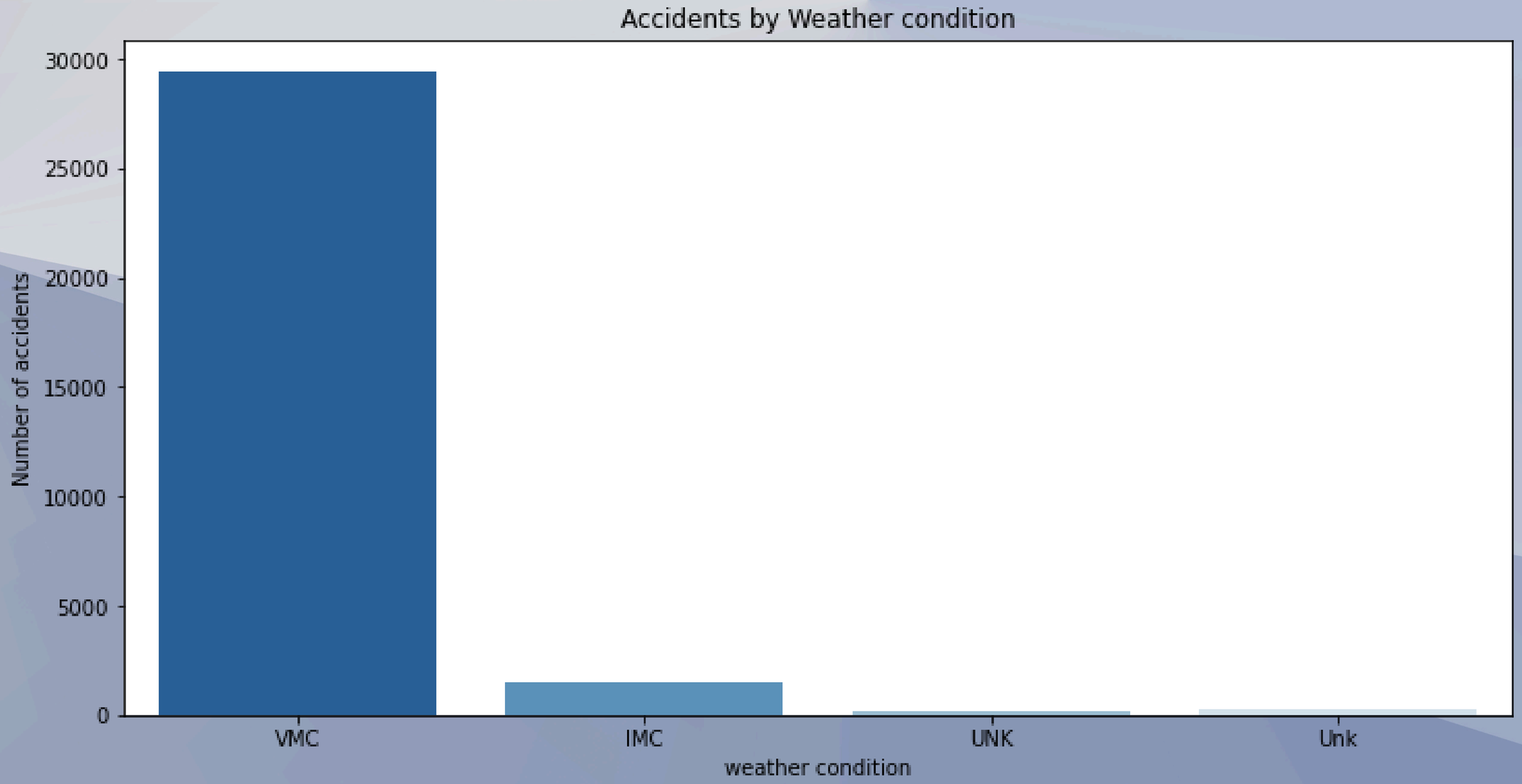
RESEARCH QUESTION 2 : WHICH AIRCRAFTS HAVE THE HIGHEST AND LOWEST FATAL ACCIDENTS



RESEARCH QUESTION 3: WHICH FLIGHT PHASE HAS THE HIGHEST ACCIDENT RISK



RESEARCH QUESTION 4 : DOES WEATHER INFLUENCE AVIATION



RECOMMENDATIONS

- Invest in makes like Bell, Grumman and Mooney with low accident rates .
- Improve pilot training and maintenance checks to reduce risks during landing and takeoff.
- Continuously update safety strategies based on emerging data.

CONCLUSION

- Cessna and Piper have the highest number of accidents. However, this does not necessarily mean they are the most dangerous, higher usage eventually leads to more recorded incidents.
- Bell, Grumman, and Mooney have lower accident numbers which suggest they are lower operational risk. These makes should be considered for purchase.

THANK YOU!