Aviation Accidents From 1919-2023

OVERVIEW

- This project helps to understand accident trends and frequency and fatality in the given years.
- Visualization of accidents per year and fatality rate.
- Detect plane type with the most amount of accidents and those without.
- Enable use to know what to do and avoid when starting the aircraft business.

Business Understanding

- Ways to increase passengers safety in the new business.
- Find the most effective way to avoid accidents.
- Find planes with least amount of accidents to start the business.

DATA UNDERSTANDING

- The data used indicates the number of accidents that occured in different years.
- The fatality of the accidents that occured.
- The plane type that was involved in the accidents and their operation.
- The locations and regions in which the accidents occured.

Data Analysis and visualization
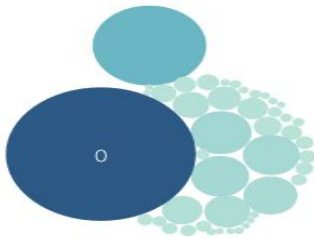
operations with highest accidents
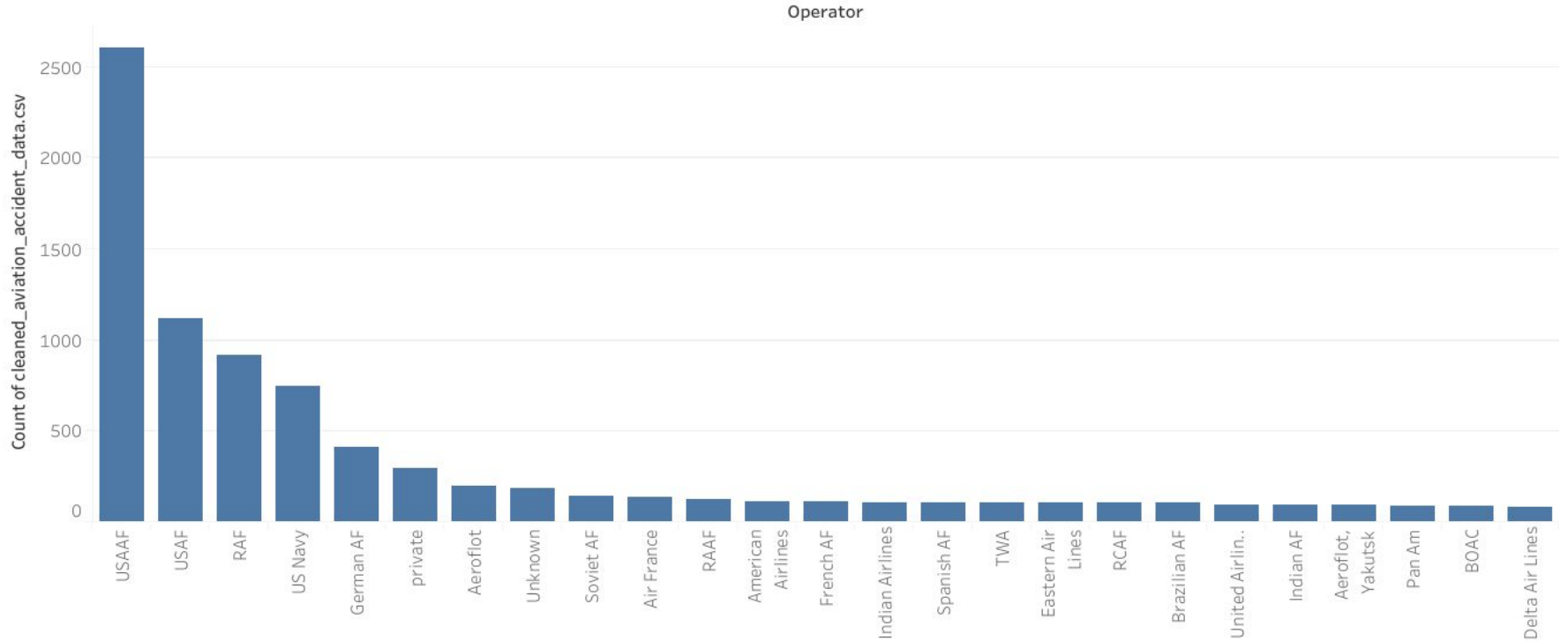
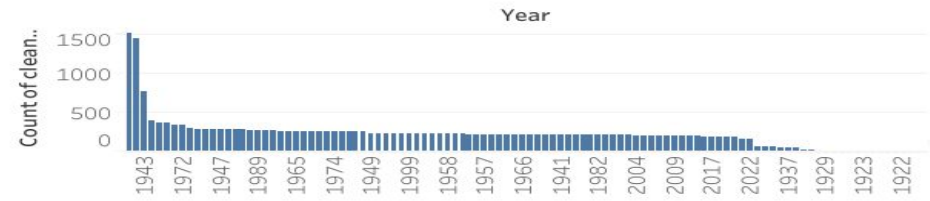# highest to no deaths
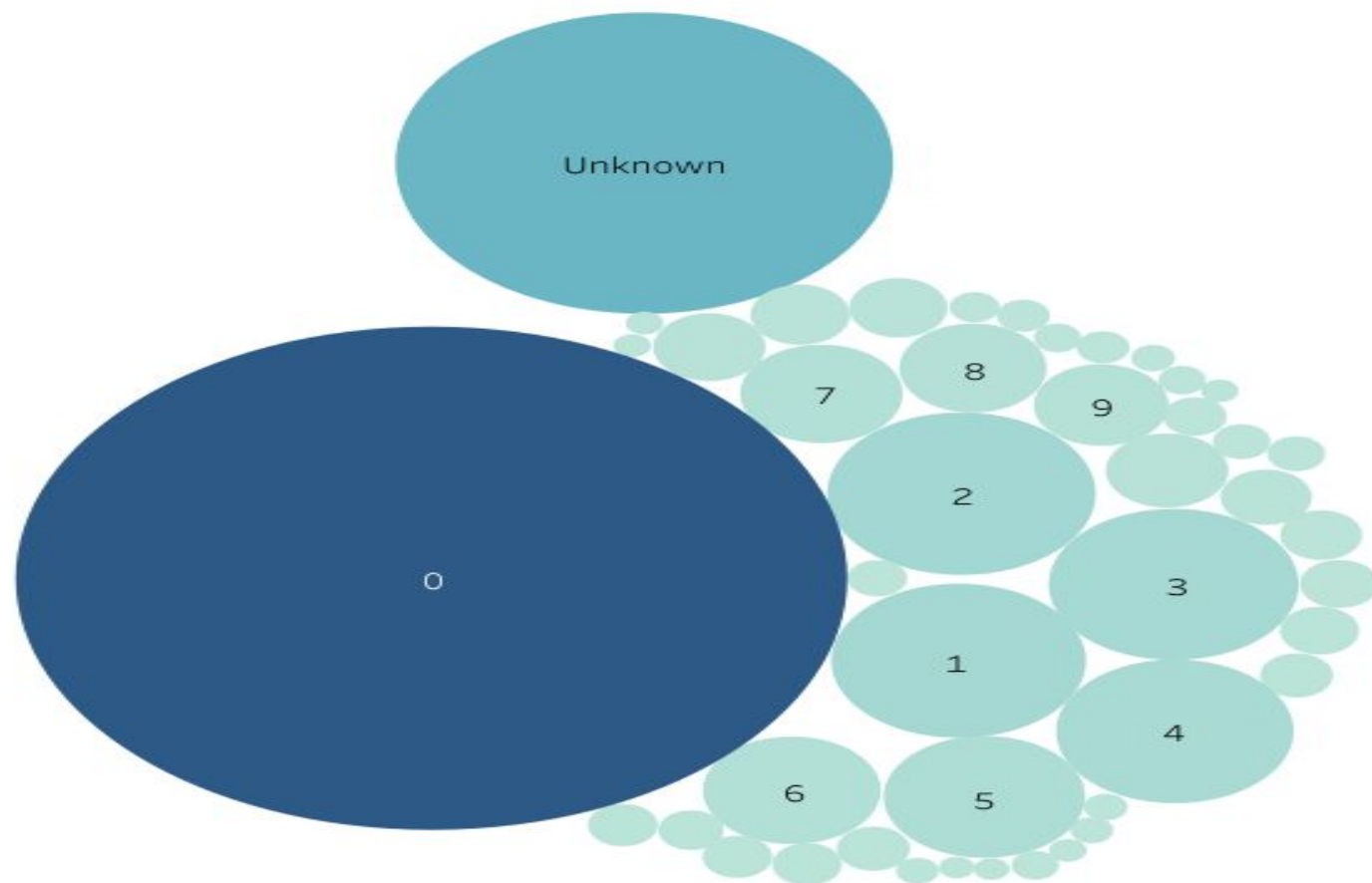
Count of cleaned_aviati...

20   10,705

Unknown

0

7   8   9

2

3

1

4

6   5

Dashboard 1

accid ents

23,852

highest to no deaths

country map of accidents

© 2025 Mapbox © OpenStreetMap

accidents per year

Year

Count of clean..

1500
1000
500
0

1943 1972 1947 1989 1965 1974 1949 1999 1958 1957 1966 1941 1982 2004 2009 2017 2022 1937 1929 1923 1922

place with the most amount of accidents

Location

Count of clean..

1000
500
0

Unk.. unk.. Hava na.. Mia mil.. Beir ut l.. New Yor.. Ams.. Chic ago..
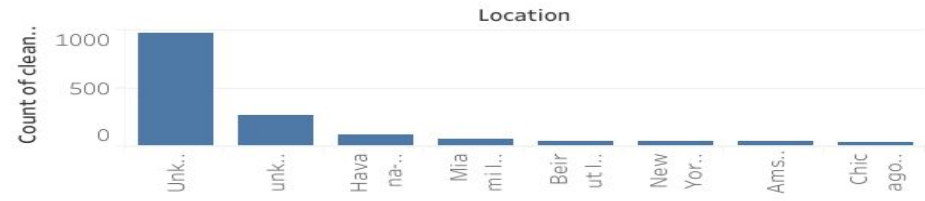
plane type with highest amount of accidents

Type

Count of clea

1000
500

Dou.. Dou.. Dou.. Curt.. Ant.. Jun.. Curt.. Dou.. DHC.. Ces.. Con.. Dou.. Ant.. Con.. Lisu.. Bee.. Ant.. Lock.. Dou.. Boei..

operations with highest accidents

Operator

Count of clean..

2K
1K
0K

USAF US.. priv.. Unk.. Air .. Ame.. Indi.. TWA RCAF Unit.. Aer.. BOAC
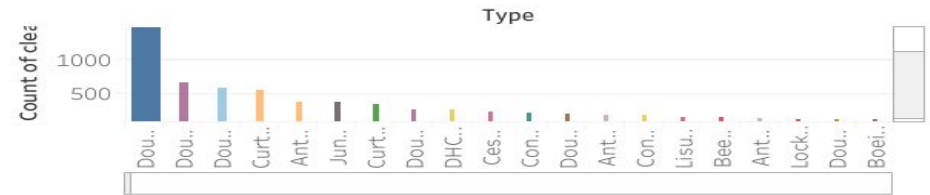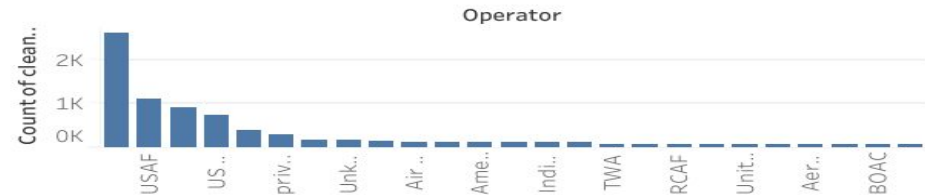
Recommendation

- Increase amount of security to reduce high acking cases.
- Ensure the planes are well serviced before any take off.
- Avoid planes with high amount of accidents.

Conclusion

- The company needs to start by buying planes such as EMB-500 legacy 500,cessna 208 & and many others since they have little to no accidents.
- In most accidents cases there were minor death counts from the dataset.

Name and linkedin profile

Keziah Murugami

THANK YOU.