



# **BUSINESS** **PRESENTATION**

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**AIRCRAFT RISK**

# Steps

- **OVERVIEW**

- **BUSINESS UNDESTANDING**

- **DATA UNDERSTANDING**

- **ANALYSIS**

- **RECOMMENDATION**

- **CONCLUSION**



# OVERVIEW

**Welcome to ANALYTICO'S presentation on  
Aircraft Risk**

- **In this session, we will be able to discuss various risks to consider when purchasing and operating of airplanes**
- **We will also be able to see the analysis of the different aircrafts and present the one with the lowest risks**



# **BUSSINESS UNDERSTANDING**

- **We have been able to understand that you need our company to be able to help you in the seletion of an aircraft make when embarking in your new business**
- **You need us to analyse from data National Transport Safety Board and we need to analyze the aircraft make with the lowest risk**



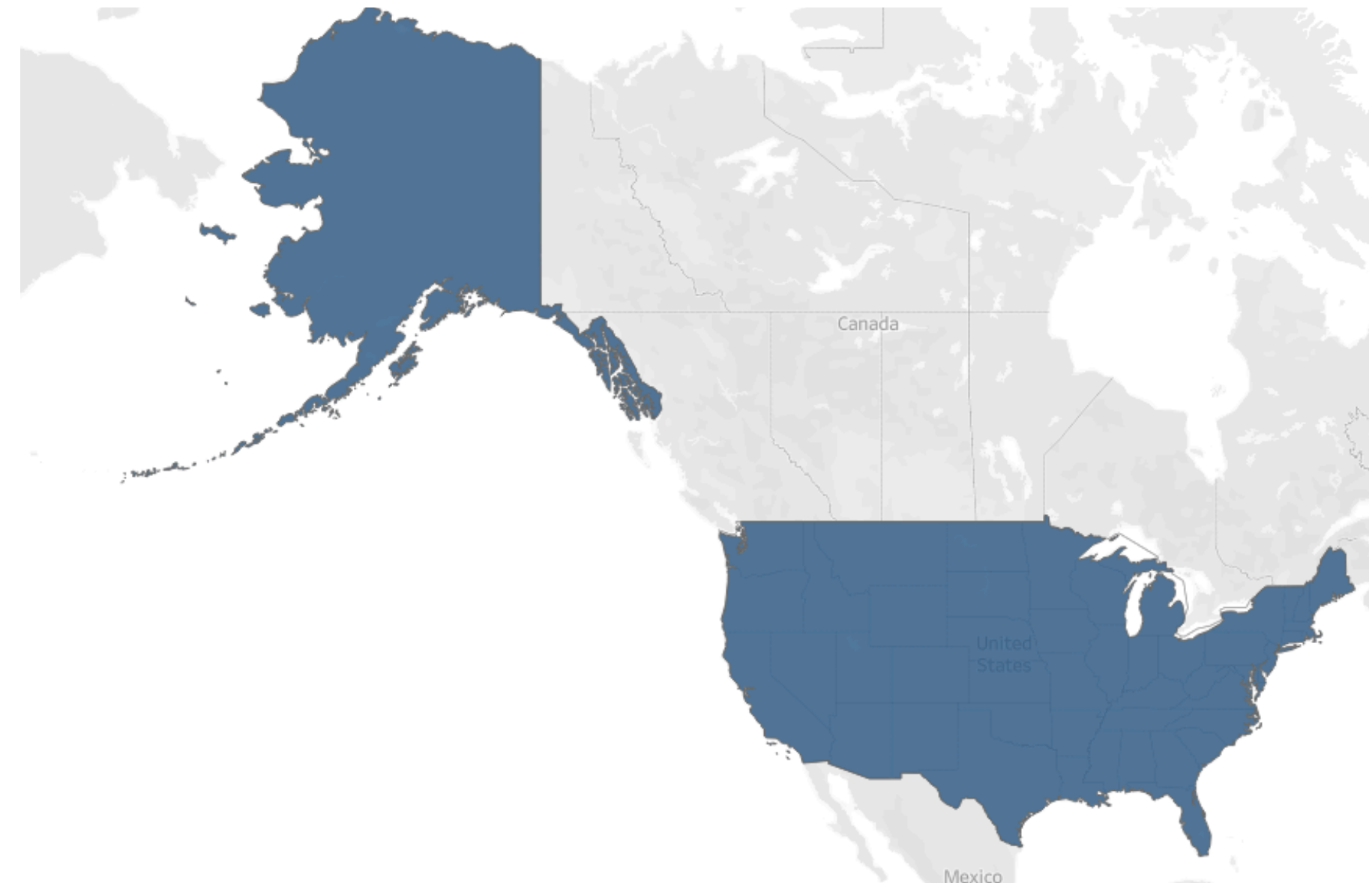
# DATA UNDERSTANDING

- **The data we are using is data that was collected by the National Transport Safety Board**
- **It has information about the accidents and incidents that have happened to aircrafts from 1962 to 2023**
  - **It contains the manufacturer of the airplanes so we will be able to identify the make of the aircraft**



# ANALYSIS

- **When we looked at the data we are able to pick some things. Firstly, we looked at the geographical representation of this incidents**
- **This accidents have happened all over in different countries but they seem prone in the United States .**



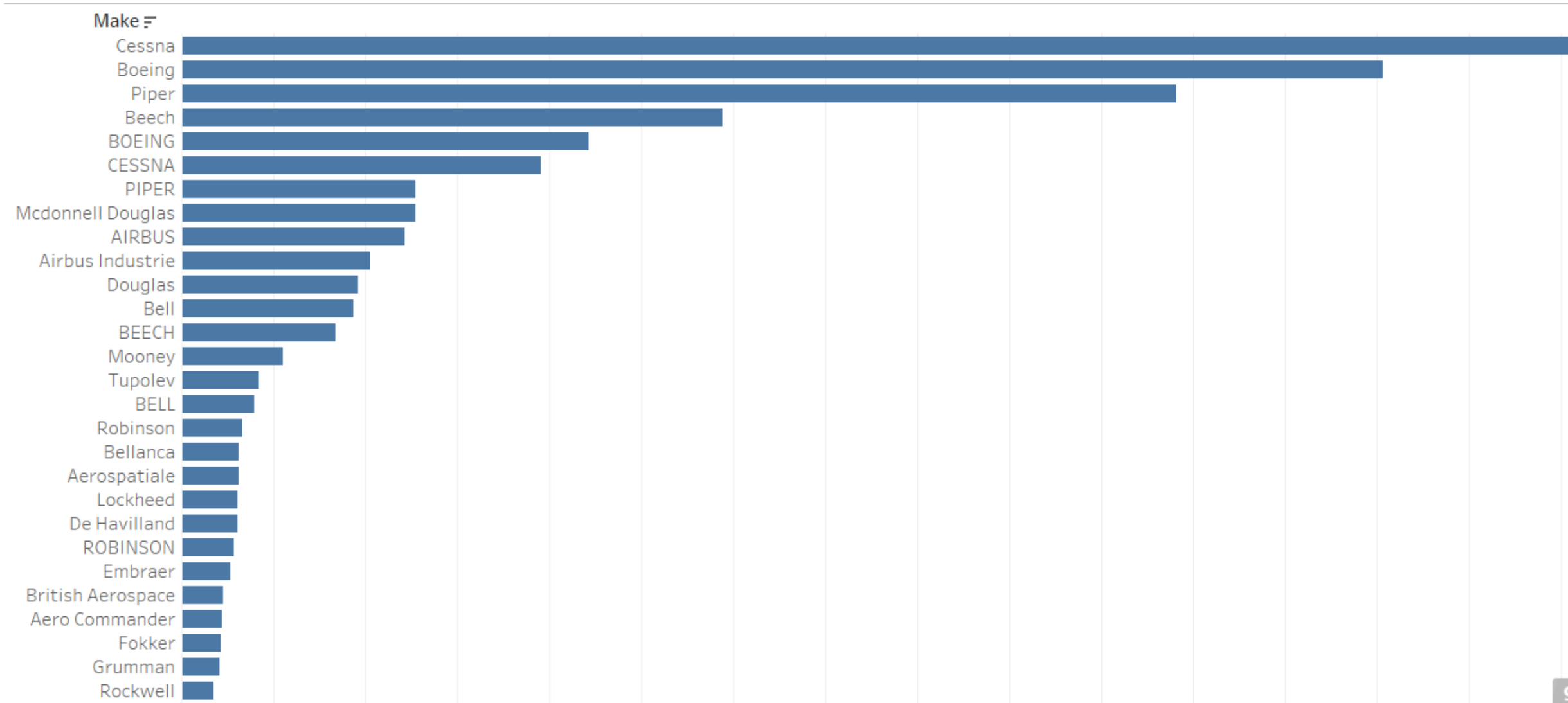


- **We also looked at the make and the the injury fatality**
- **The injuries were classed to three;**
  - **Fatal**
  - **Serious**
  - **Minor**



# 1. Image for fatal

Bar Graph representing rate of fatal injury to make



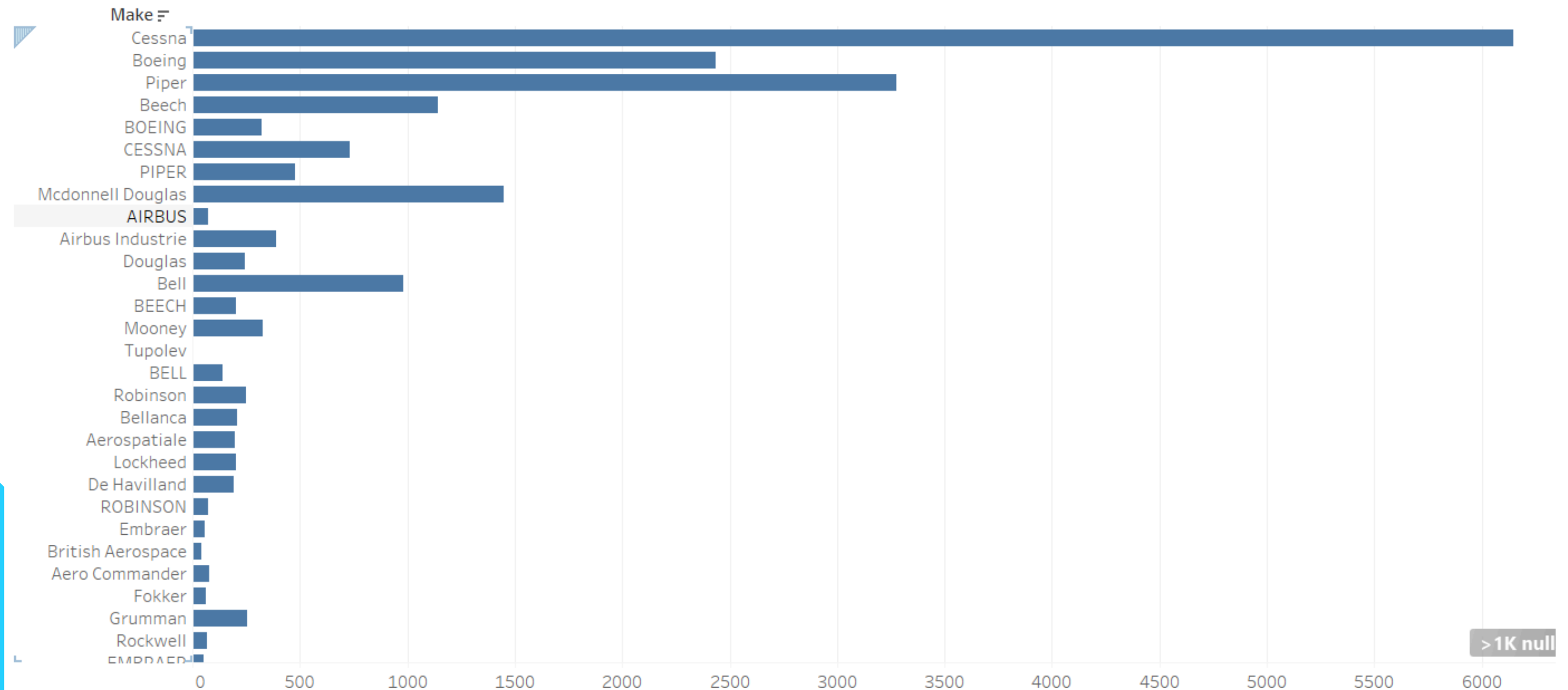
- **This is just a representation of a small section of the data ,Cessna seems to have most of the fatal injuries**





## 2. Image of serious injury

Bar Graph representing rate of serious injury to make

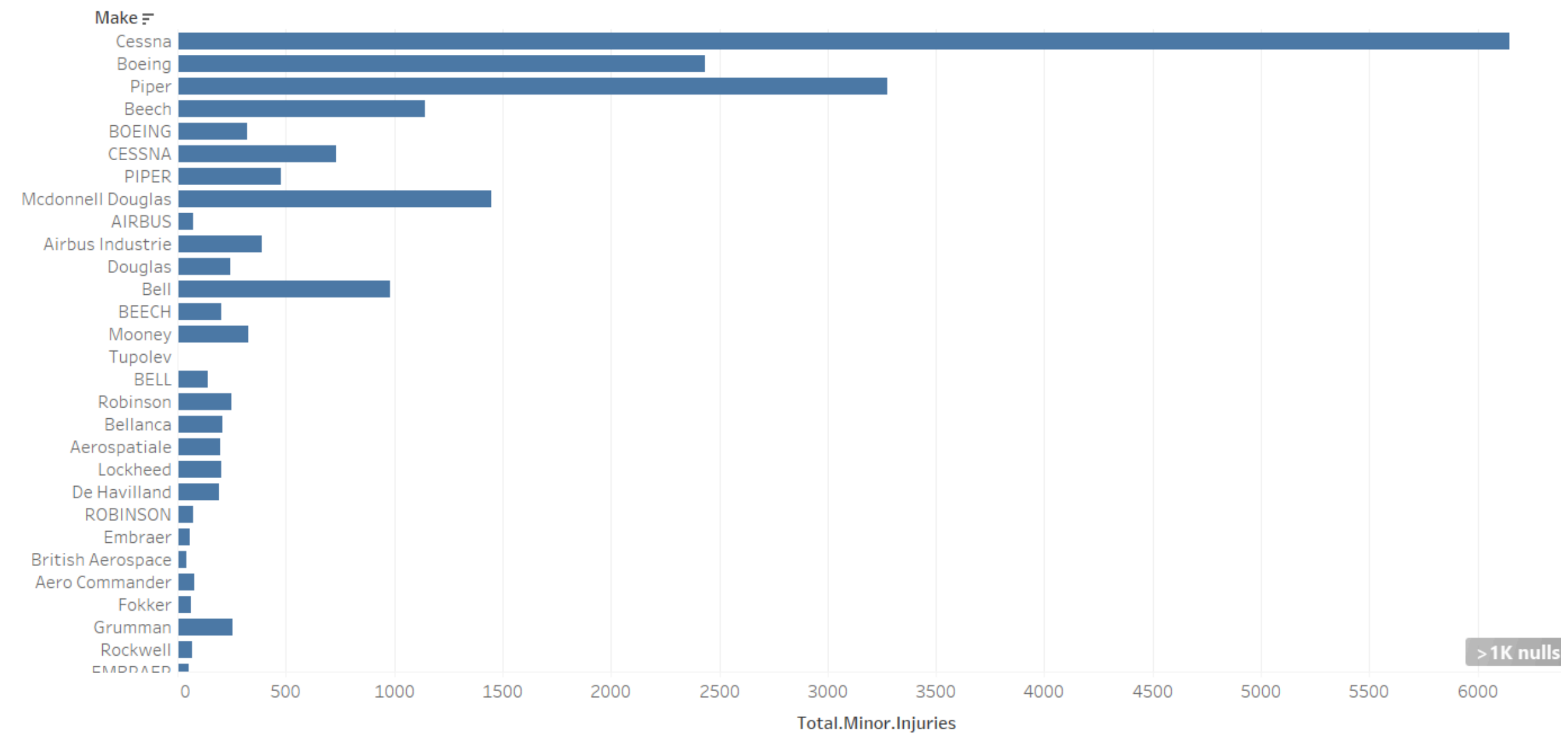


- **We can see that Cessna is leading with serious injuries**

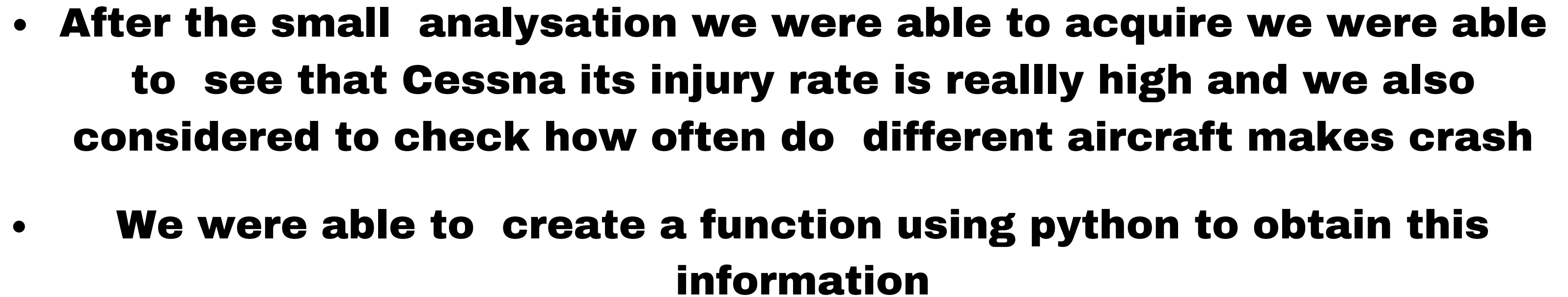


### 3. Image of minor injuries

Bar Graph representing rate of minor injury to make



- **We can still see that Cessna is still leading in the number of minor injuries**



Make: ['Cessna', 'Piper', 'Beech', 'Bellanca', 'Mooney', 'Bell', 'Grumman', 'Boeing', 'Swearingen', 'Luscombe', 'Aero Commander', 'North American', 'Grumman American', 'Hughes', 'Tay  
Counts: [664, 348, 159, 32, 31, 26, 26, 22, 15, 14, 10, 10, 9, 9, 9, 9, 8, 8, 8, 8, 8, 7, 7, 7, 7, 6, 5, 5, 5, 5, 4, 4, 4, 3, 3, 3, 3, 3, 3, 3, 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2]

- **That is an image showing the method we used to obtain the data**
  - **Using the method we were able to know that Cessna is the name that has apperaed most in the accident list**



## **METHOD OF ANALYZATION**

- **After the small realisation we made we decided how we would analyse you data to give you the the aircraft make with the lowest risk**
- **The list that we obtain contained accidents and inncident so the more a make appears the more it is prone to accidents and incidents**
- **We decided to analyse the data by firstly ,obtaining the list of the accidents that lack injuries all in total(minor,serious,fatal)**
- **We then arranged the data to the times it has appeared in the list and used the ones that have only appeared once**



# CONCLUSION

## RECOMMENDATION

- **From the analysis we would be confident to recommend you the following Aircraft makes that you should consider as you venture to this new field**
- **We would also recommend you to visit the industry to see the one that meets your liking**

**The list we have been able to compile:**

- **Wootton, John**
- **Playmate**
- **Oldfield**
- **Erco**
- **McDonnell-douglas**



## **INTERACTIVE SESSION**

**1. Why you feel that i have missed out or have a question  
you can freely ask ?**

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# *Thank you*

**Thank you for choosing Analytco**

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