Tableau Project

— Option 2_FAA dataset

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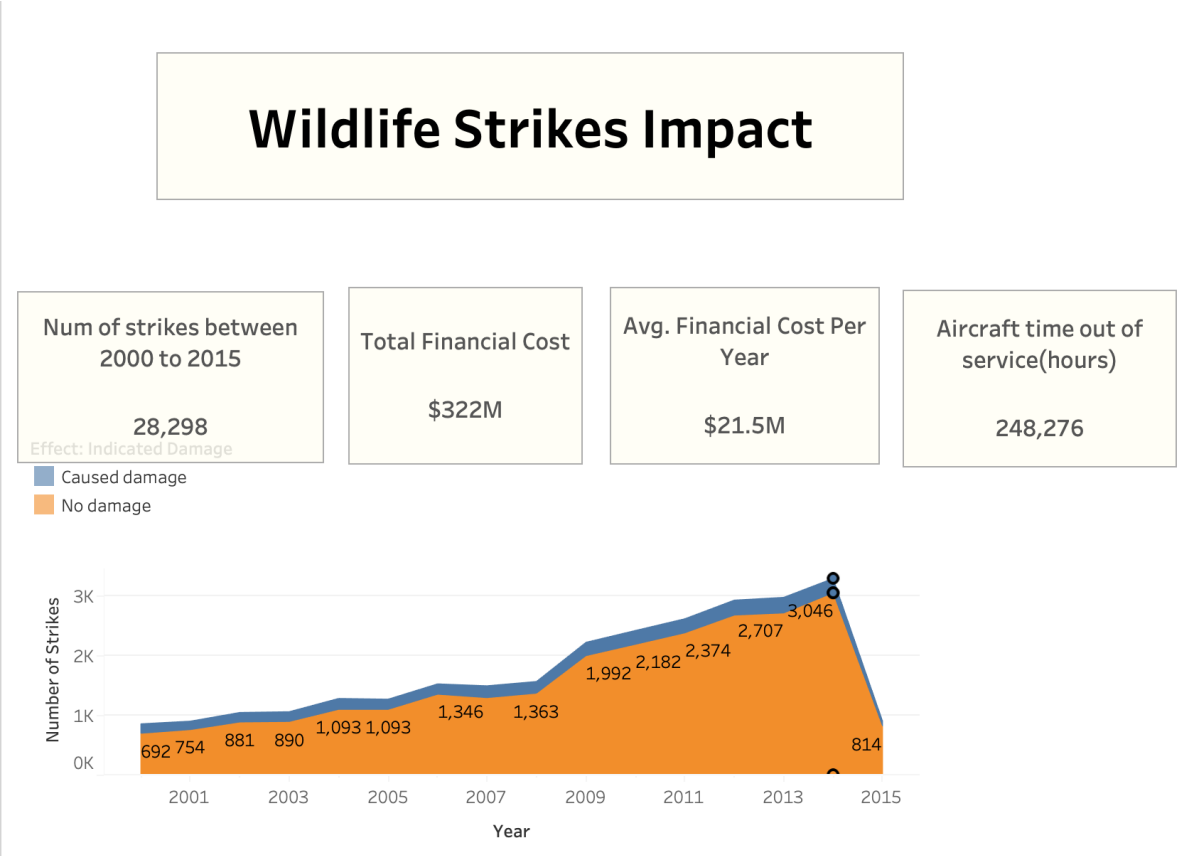
Steps taken in the project

1. Download the dataset and familar with the dataset
2. Create 6-7 different visualizaions to know more about the dataset
3. Generate several meaningful questions regarding to the given data
4. Find patterns, trend, outlier from the data and create dashboards to explain those questions
5. Create a story using Tableau using above sheets and dashboards

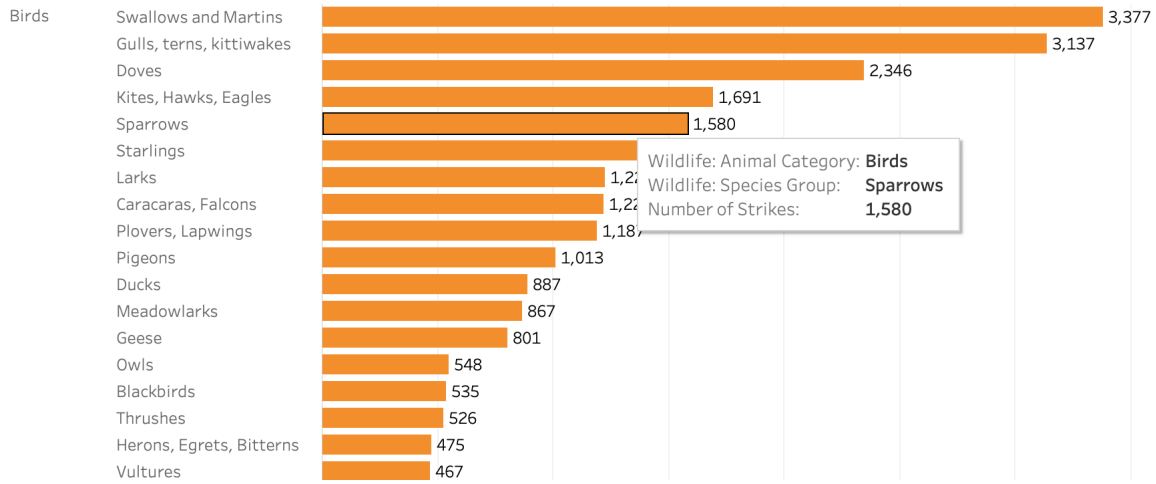
Questions & Results

1. What are the wildlife strike's impact based on the given data?

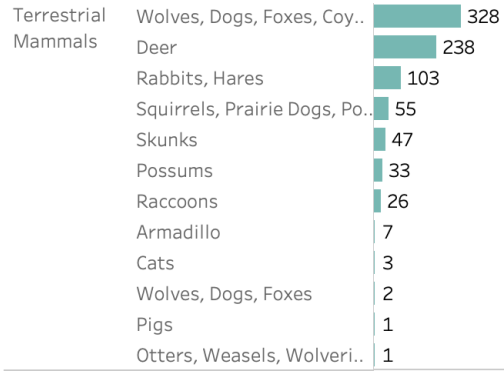


2. What are the most common wildlife species involved in strikes, and do specific species groups pose a higher risk to aviation?

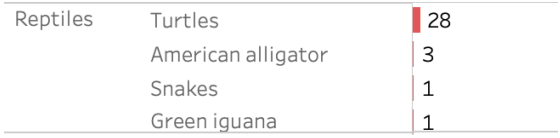
Birds



Mammals

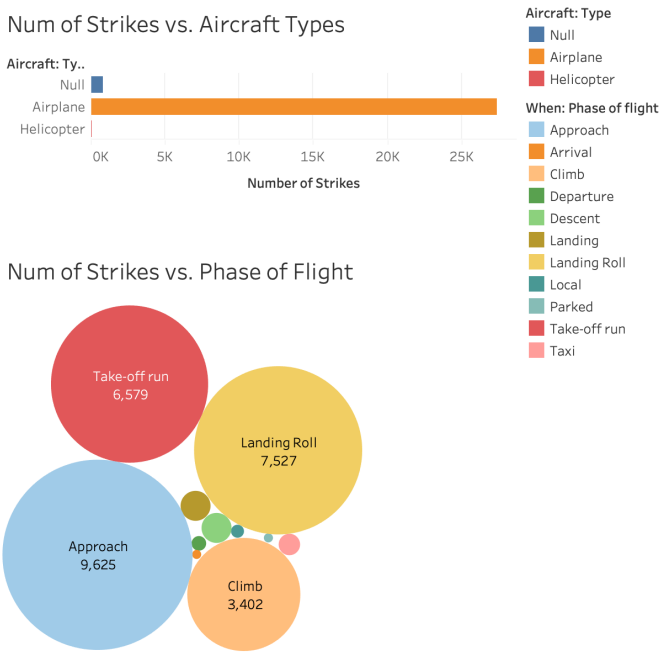


Reptiles

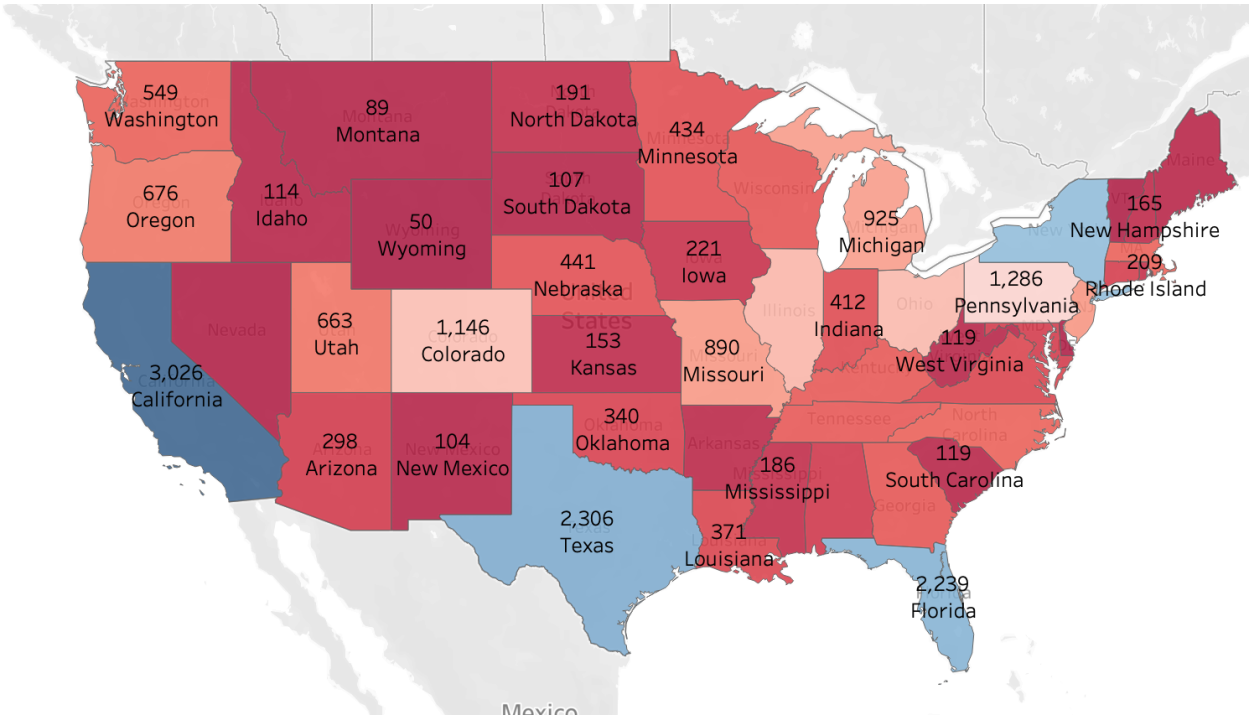


Bats

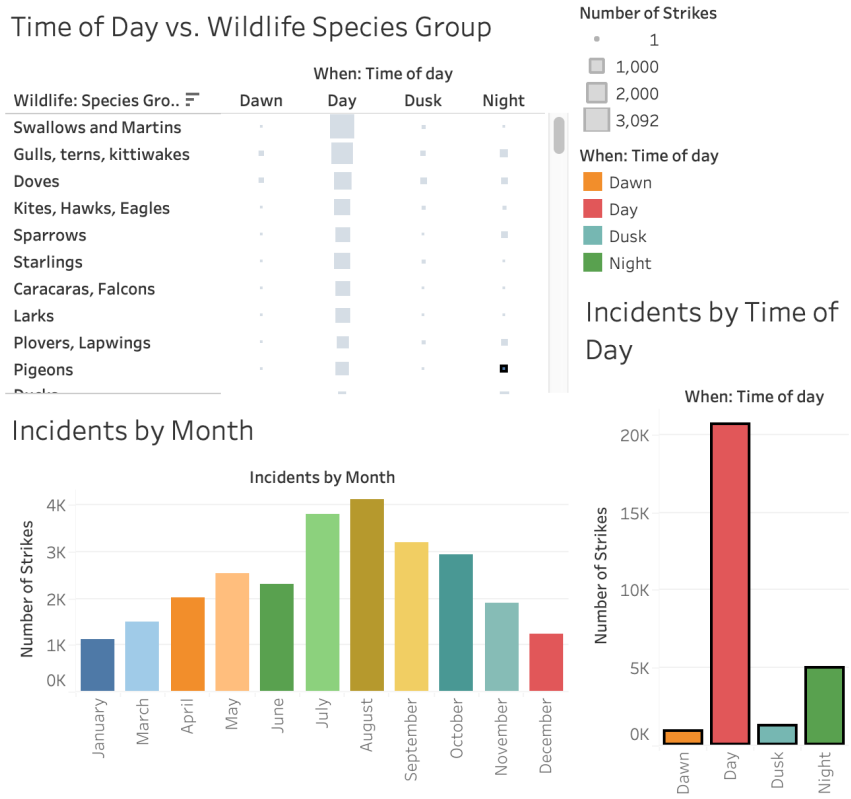
3. Which aircraft types are most frenquently involved in wildlife strikes and what are the most hazardous phrases of flight?



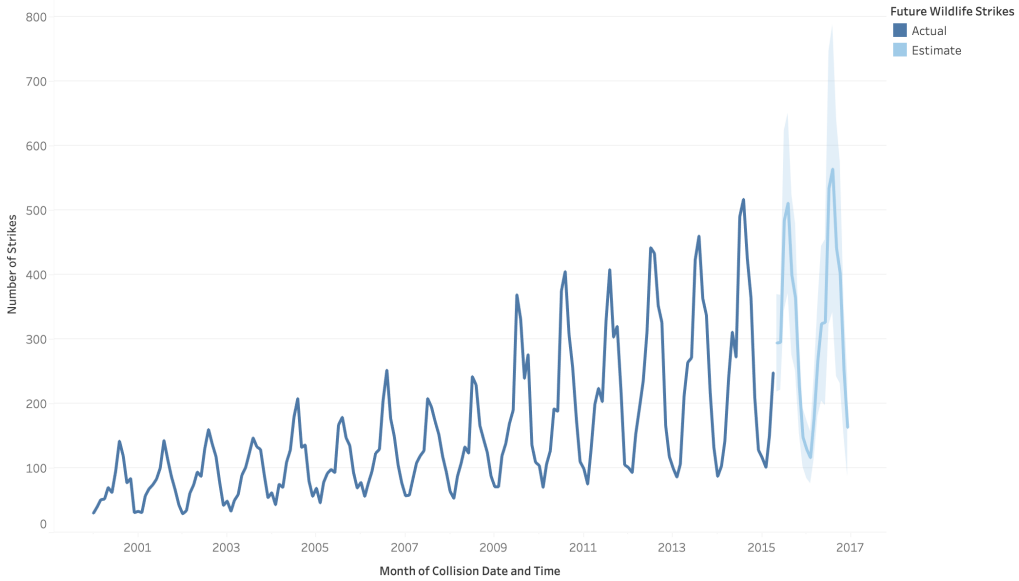
4. Are there specific geoographic locations or regions with higher wildlife strike incidents? Are certain states more affected?



5. Is there any relationship between the time of day and the frequency of strikes?



6. Forecast future wildlife strikes



Biggest challenges

1. I would like to include the altitude of the aircraft at the time of the strike relate to the extend of damage caused by the collision, however, I find that the data is not sufficient and the damage is not clssified in details.
2. Also, for the forcast part, the data is out of date. If I have more time, I will find the actual wildlife strikes data in the year of 2016 and 2017 to make a comparison, and make a forecast based on the current date at the same time.