

Business Analytics Nanodegree, Udacity

Build Data Dashboards

Flight-Delays – project 4

- **Insight 1:**
Which country and state has highest airline delay?
- **Link:**
[Airline Delay-Dashboard](#)
- **Summary:**
From the dashboard, I can locate the country is the **USA** and State is having high airline delay is **Tx -Texas** is the state that has more delay airline where the number of delays is about **116,528 flights**. also, the state of **CA -California** in the delay of airline flights, where the number of delays is about **110.011 flights**, and this is the highest number of delays from the filtered data set, and I can investigate more data by using the filter of country and state and change the range as I need. and the color of density displays the highest value to the lowest of airline delay.
- **Design Comment:**
I used in this insight the map chart because I worked with Country and States data. So to get best represent in this case is by display the states as map chart, I also add the bar chart to my dashboard to make it easy and finding the data quickly way, and my data to be readable and easily to understand what I mean's here. So also, I used filter because my data is based with specific range of airline delays.
- **Resources:**
N/A

- **Insight 2:**
How many have cancellation reason in airport?
- **Link:**
[Destination Airport-pie](#)
- **Summary:**
From the pie chart, the number of destinations with reasons for flight cancellations are three categories A, B and C, as shown in each category. The number of boiled-down and many destinations fall under each category. In the first category, which is A, there are several destinations that have been canceled, and it has about 1,260 canceled flights, and in the category B there are several destinations that have been canceled, and it has about 2,397 and this category is considered the highest percentage of canceled flights. And in Category C, there are some destinations that have been canceled and the average canceled flights are considered to have about 776 canceled.
- **Design Comment:**
I used in this insight the pie chart, to display the data in relative terms and to clarify each sector or category for canceling airport destinations, and the goal of this was to compare the existing elements, which are Cancelled and Cancellation Reason and these elements can be seen more than or less than in canceling destinations.
- **Resources:**
N/A

- **Insight 3:**
Which airline have security delay?
- **Link:**
[Airline-bar](#)
- **Summary:**
From the bar, there are many airlines that face significant security delays, and as the following figure shows that the highest airline facing security delays that may cause them harm is AA Company. And the security delay has about 1130, followed by the OO company, and the security delay has about 662, and then some companies that face security delays at the airport, and also, as shown, there are three companies, which are UA and F9 EV, which do not have any security delays at the airport.
- **Design Comment:**
I used in this insight bar, to represent the data as rectangular columns to represent the length of each of the airlines and to show the security delay values that are commensurate with the airlines, and of course it determines the different comparison between all the proportional values
- **Resources:**
N/A