

### Insight 1

<https://public.tableau.com/app/profile/sahro.elmi/viz/countofdestinationairportwithinthestate/Sheet1?publish=yes>

from this map, it shows the Count of Destination Airport within the state. California has the highest counts which was 730 counts, followed by Texas with 698 counts of destination Airport. West Virgian had the lowest count of Destination Airport which was count of 1.

### Design

used a map to represent the count of each states, with darker shades of blue indicating higher counts and lighter shades of blue indicating lower counts.

Chose the color blue for color-blind friendly. Use the seven-day filter on the map to display how many counts of cancellation vary between different days, such as comparing day 1 with day 5 or day 7.

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### Insight 2

<https://public.tableau.com/app/profile/sahro.elmi/viz/TheAverageAirlineDelay/Sheet2?publish=yes>

This bar graph shows the average airline Delays in Texas, with Delta Airline having the highest average airline delay at 41 minutes, compared to MQ airline having the lowest average delay at 1.33 minutes. This indicates that the Delta Airline experiences the worst delay compared to MQ Airline.

### Design

The bar graph is used to compare the different categorical variables, also for easier interpreting and understanding the data, Chose the color blue for color-blind friendly viewers.

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### Insight 3

<https://public.tableau.com/app/profile/sahro.elmi/viz/TheAverageAirSystemDelay/Sheet3?publish=yes>

This line graph shows the average air system delays by month. Delay started at 10.865 minutes in the first month, rose to 12.056 minutes in the second month, then slightly dropped to 11.272 minutes in the third month. The Highest delay occurred in the fourth month at 16.588 minutes, before decreasing to 7.417 minutes in the seventh month.

## **Design**

The line graph was used to track and identify the average air system delays over time, and to observe changes throughout each month.

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## **Insight 4**

<https://public.tableau.com/app/profile/sahro.elmi/viz/conntofOriginAirline/Dashboard1?publish=yes>

In this Dashboard, there is a map, bar graph and line graph that displays Airline data. the map displays the count of airlines in each state, the bar graph illustrate the average airline arrival delays and the line graph shows the average airline delays by month.

## **Design**

The dashboard is designed to allow you to analyze multiple data sheets all at the same time. By combining various visual tools, it provides comprehensive insights into Airline operations across different dimensions.