Project 4
Data visualization
(Tableau Software)

Insight 1: Which States had the most and the least cancelled flights, in which month was the most Average number of cancelled flights?

The most states have cancelled flights are:

- California with 33,331 cancelled flights.
- Texas with 32,612 cancelled flights.

The least states have cancelled flights are:

- West Virginia with 103 cancelled flights.
- Vermont with 179 cancelled flights.

month had the most Average number of cancelled flights:

- February with 0.04722 Cancelled flights in 2015.

Dashboard link:
https://public.tableau.com/profile/dina4452#!/vizhome/Cancelledflights3/Cancelledflights3?publish=yes

Insight 2: Is there a relationship between Arrival delay flights and Scheduled Arrival flights? If yes what is the type and degree of correlation and which states had the most number of Arrival delay flights?

- Yes, there is a relationship between Arrival delay and Scheduled Arrival flights, With high positive correlation. A positive correlation exists when one variable increases as the other variable increases that mean when Scheduled Arrival flights increases then Arrival delay will increase. [1]

- states had the most number of Arrival delay flights are California and Texas.

Dashboard link:
https://public.tableau.com/profile/dina4452#!/vizhome/ScheduledandArrivalDelayFlights/ScheduledandDealyArrivalFlights?publish=yes

Insight 3: Which state has the most number of delay flights caused by Security reasons? And which Delay reasons has the most effect?

- Florida "FL" has the most number of delay flights caused by Security reasons with 663 delay flights that indicates to high crime rate in Florida.

- The most effectiveness reasons of delay is Air system reason with 697,937 delay flights.

Dashboard link:
https://public.tableau.com/profile/dina4452#!/vizhome/ReasonsofFlightsDelay/ReasonsofFlightsDelay?publish=yes

Resources:

[1] https://www.investopedia.com/terms/p/positive-correlation.asp