



# Scientific study on the discipline of flight schedules

SOUTHWEST AIRLINES

JANUARY 2020

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*In this project we will study the discipline in the flights schedule, and we will generate graphical report to represent it to the management*

*we will be using python as a programming language and data science libraries such as import pandas, numpy, matplotlib & seaborn*

*In this study we will depend on  
data provided from: kaggle.com*

*<https://www.kaggle.com/akulbahl/covid19-airline-flight-delays-and-cancellations>*

WE WILL BE CONSIDERING ONLY JANUARY DATA FOR SOUTHWEST AIRLINES

*This source provide important data for this study such as:*

*Flight Departure and Arrival Airport*

*Scheduled Departure and Arrival Time*

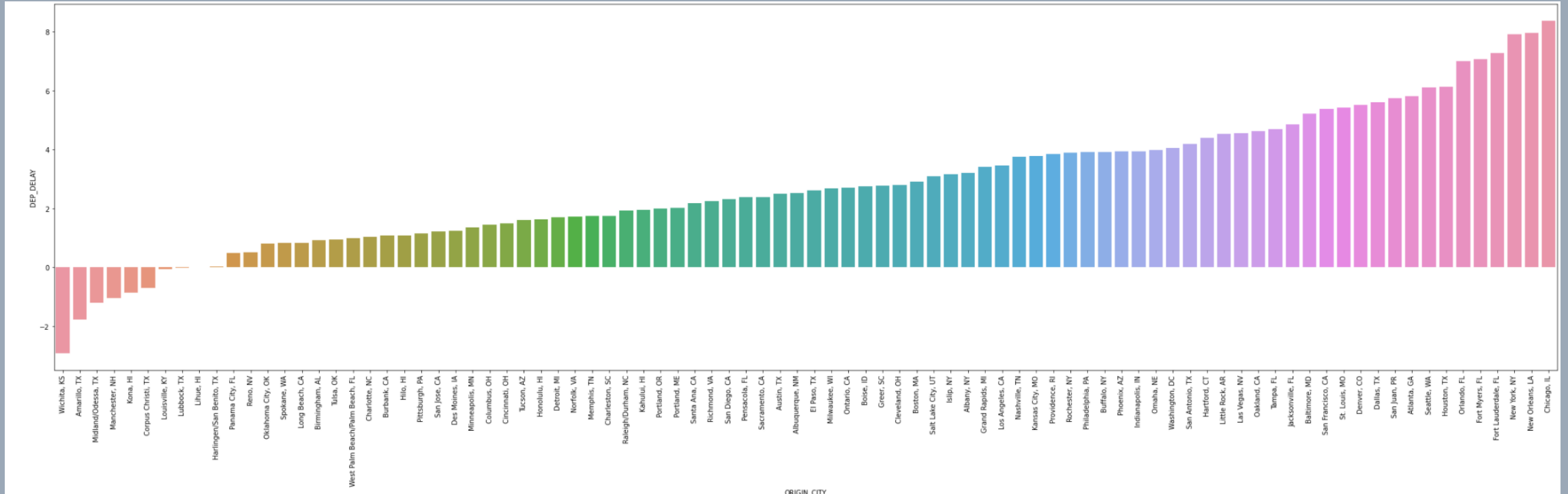
*Actual Departure and Arrival Time*

*Departure Delay*

*Scheduled Total Flight Time*

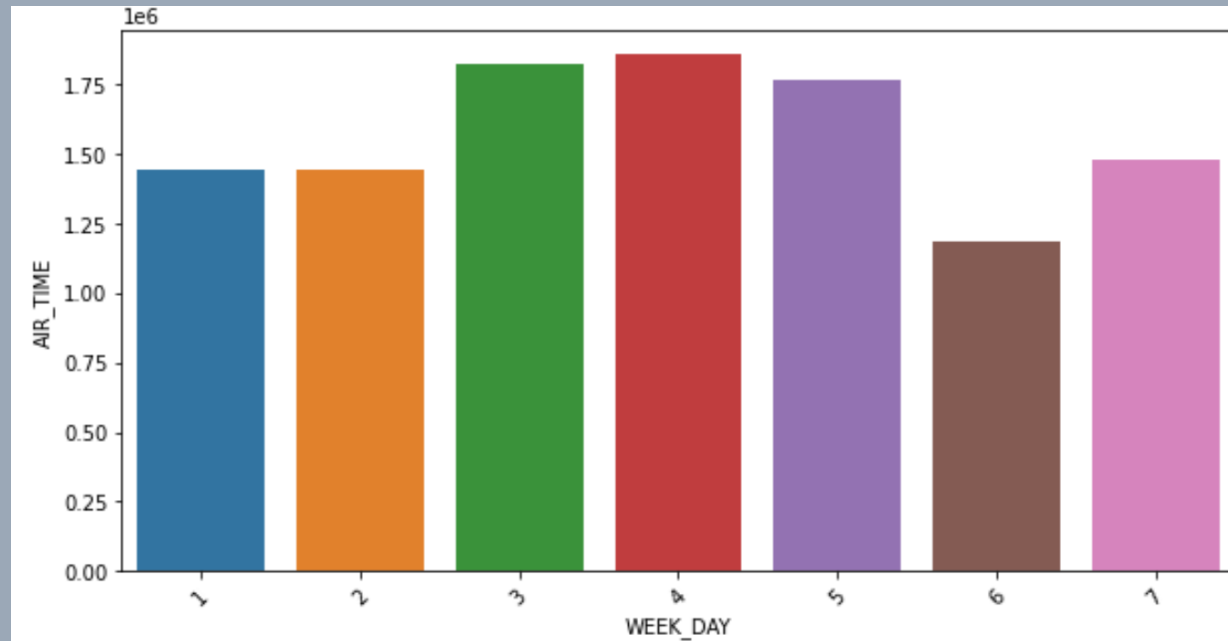
*Reason for the delay by Time (Carrier, Weather, Security or National Aviation )*

# Report Sample



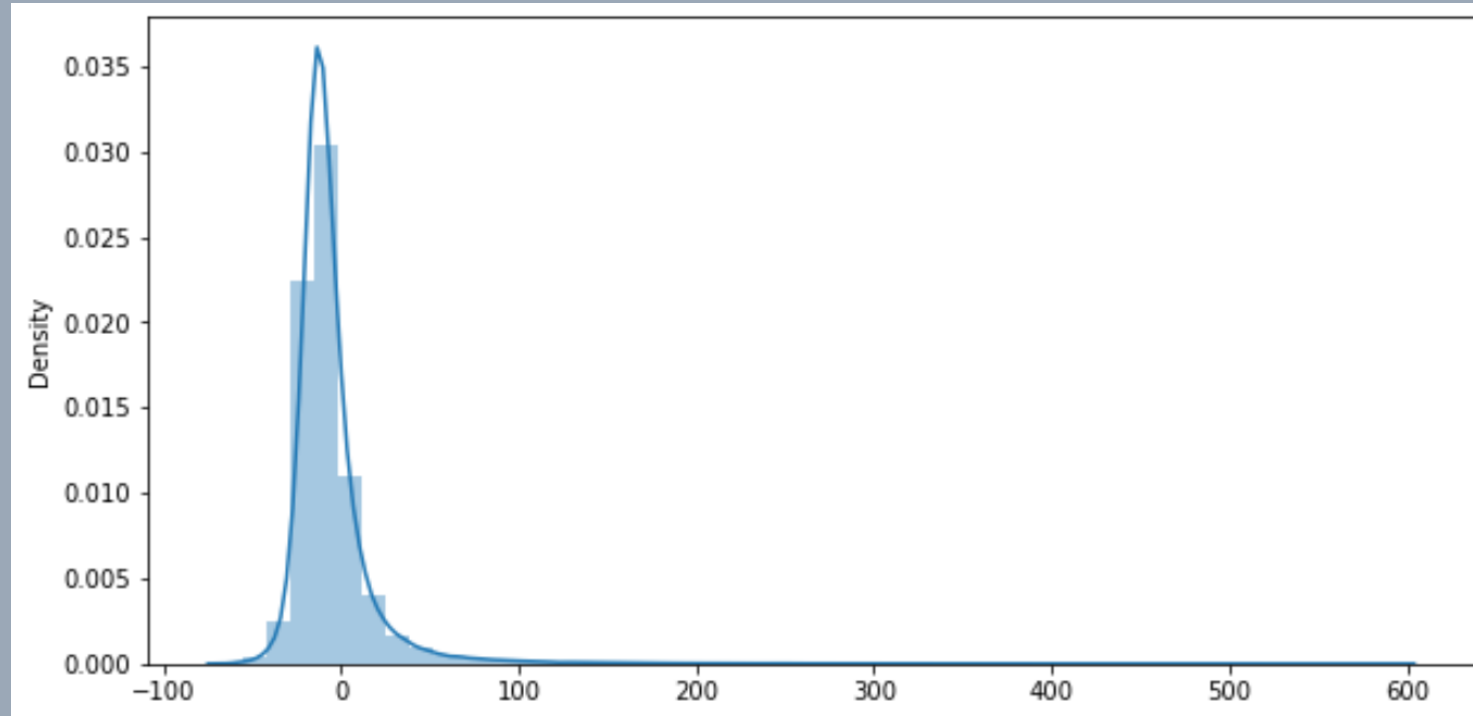
THE DELAY DEPARTURE TIME FOR EACH CITY, THE MINUS  
NUMBER MEANS EARLY DEPARTURE

# *Report Sample*



THE NUMBER OF FLIGHTS TIME IN EACH DAY OF THE WEEK (AIR TRAFFIC)

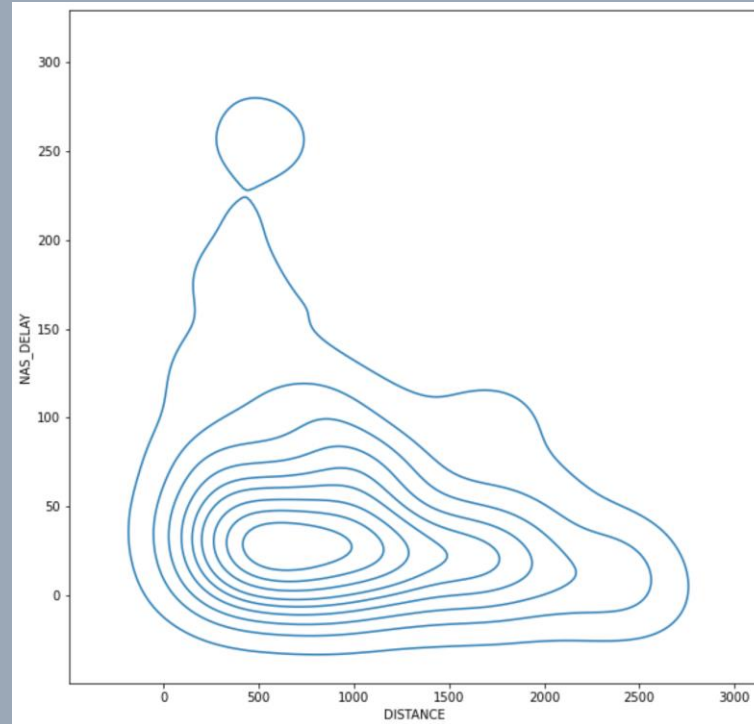
# *Report Sample*



DIFFERENCE BETWEEN THE SCHEDULED ACCESS TIME AND THE  
ACTUAL TIME

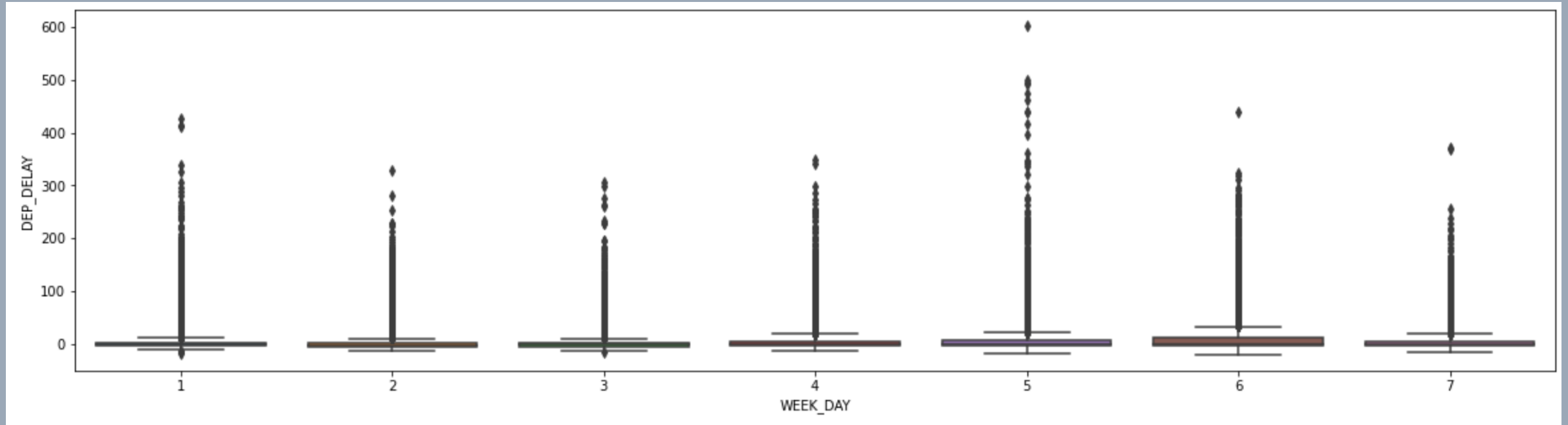


# *Report Sample*



THE RELATIONSHIP BETWEEN FLIGHT DELAYS DUE TO CIVIL  
AVIATION AND THE DISTANCE BETWEEN AIRPORTS

# *Report Sample*



THE DEPARTIAL DELAY FOR EACH DAY OF THE WEEK