

AIRLINE DELAY ANALYSIS

MICROSOFT #30DAYSOFLEARNING CAPSTONE



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DASHBOARD

DELAY ANALYSIS

INSIGHTS



AIRLINE DELAY DASHBOARD



539K

240K

Delayed Flights

299K

Flights on Time

18

Airlines

4190

Total Flight Routes

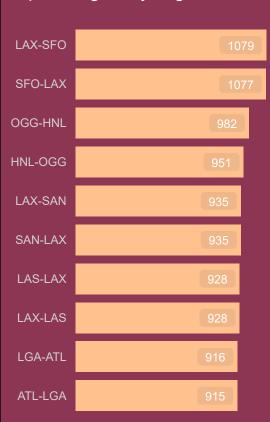
0.45

Delay Index

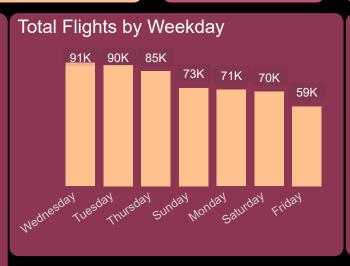
0.55

Flights on time index





Top 10 Flights by Flight Route





Percentage of Delayed and Flights on Time

Delayed Flights 44.5% -

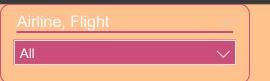


Flights on Time 55.5%

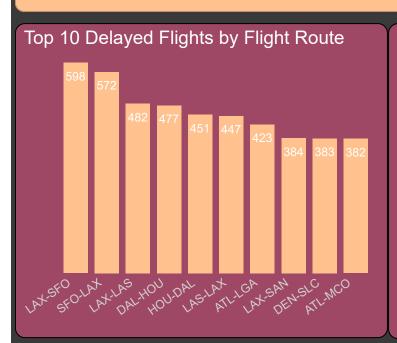




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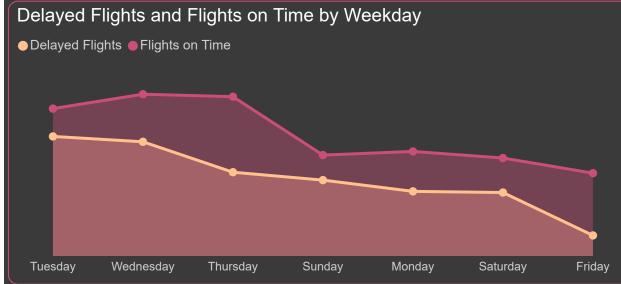


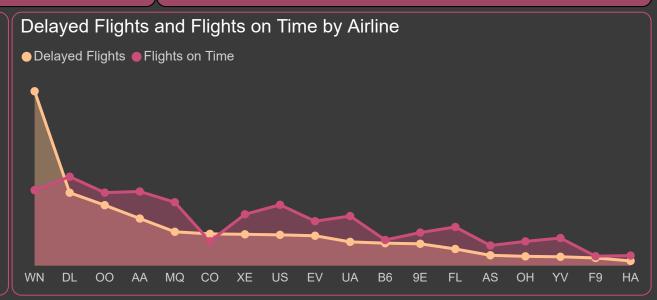






Airline	Delayed Flights	Flights on Time	Delay Index	^
9E	8226	12460	0.40	П
AA	17736	27920	0.39	
AS	3892	7579	0.34	
B6	8459	9653	0.47	
СО	11957	9161	0.57	
DL	27452	33488	0.45	
EV	11255	16728	0.40	П
F9	2899	3557	0.45	
FL	6275	14552	0.30	
НА	1786	3792	0.32	
MQ	12742	23863	0.35	
Total	240264	299119	0.45	Ľ







INSIGHTS

General overview

- a total of 539,383 flights were considered.
- 240,264 flights which is about 44.5% of the flights were delayed.
- 299,119 flights which is about 55.5% were not delayed.

Less flights were delayed.

- 18 Airlines were considered. Airline WN had the highest number flight. HA had the least
- Wednesday had more flights than any other day of the week, Friday had the least.
- More flights were taken from Los Angeles Airport to San Francisco Airport than any other airport.
- WN-28 flight had the highest number of flight.

Delay Analysis

- Even though Wednesday had the highest number of flights, Tuesday had the highest number of delayed flights.
- WN had the highest number of delayed flights, which had about 70% of its flight delays, other airlines had a little below 50% of their flights delayed.
- WN flights were generally more delayed than any other flight, even in instances when they were not the most used flights.

Recommendations

- -WN airline should do better with their flights are they are the most used.
- -If you are looking to travel without delay, Friday will be the best day to do so, and the HA airline will be the best to use as it has the lowest delay index.

AIRLINES

Alaska Airlines AS / ASA American Airlines AA/AAL Air Canada AC/ACA Aero Mexico AM / AMX Continental Airlines CO / COA Delta Airlines DL / DAL FedEx FX / FDX Hawaiian Airlines HA / HAL Northwest Airlines NW / NWA Polar Air Cargo PO / PAC Southwest Airlines SW / SWA **United Airlines UA / UAL** United Parcel (UPS) 5X / UPS **Virgin Atlantic VS / VIR** Viva Aerobús VB / VIV WestJet WS / WJ **Endeavor Airline 9E** Frontier Airline F9

AIRPORTS

ATL - Hartsfield-Jackson Atlanta International Airport - Georgia

AUS - Austin-Bergstrom International Airport - Texas

BNA - Nashville International Airport - Tennessee

BOS - Boston Logan International Airport - Massachusetts

BWI - Baltimore-Washington International Thurgood Marshall Airport - Washington

CLT - Charlotte Douglas International Airport - North Carolina

DAL - Dallas Love Field - Texas

DCA - Ronald Reagan Washington National Airport - Arlington, Virginia

DEN - Denver International Airport - Colorado

DFW - Dallas/Fort Worth International Airport - Texas

DTW - Detroit Metropolitan Airport - Michigan

EWR - Newark Liberty International Airport - New Jersey

FLL - Fort Lauderdale-Hollywood International Airport - Florida

HNL - Daniel K. Inouye International Airport - Honolulu, Hawaii

HOU - William P. Hobby Airport - Houston, Texas

IAD - Dulles International Airport - Virginia

IAH - George Bush Intercontinental Airport - Houston, Texas

JFK - John F. Kennedy International Airport - Queens, New York

LAS - McCarran International Airport - Las Vegas, Nevada

LAX - Los Angeles International Airport - California

LGA - LaGuardia Airport - Queens, New York

MCO - Orlando International Airport - Florida

MDW - Chicago Midway International Airport - Illinois

MIA - Miami International Airport - Florida

MSP - Minneapolis-Saint Paul International Airport - Minnesota

MSY - Louis Armstrong New Orleans International Airport - Louisiana

OAK - Oakland International Airport - California

ORD - O'Hare International Airport - Chicago, Illinois

PDX - Portland International Airport - Oregon

PHL - Philadelphia International Airport - Pennsylvania

PHX - Phoenix Sky Harbor International Airport - Arizona

DDII Dalaigh Durham International Airport North Carolina