

Analysis of Flights Departure of NYC Airport

--- Strategies Design for Insurance
Carriers



Problems &
Solutions



Problem Description:



	GATE #	STATUS
	A23	DELAYED
	C72	DELAYED
	B34	DELAYED
	A14	DELAYED
	C89	DELAYED
	G12	DELAYED
	C5	DELAYED
	D13	DELAYED
	A4	DELAYED
	B22	DELAYED
	A23	DELAYED



Vacation or Business plan **went away!!!**

[click & Learn more](#)

INTRODUCTION

Based on the problems, the research question in this analysis was designed:
What are the possible causes on flights delay?

Let us share some favorite reasons conducted by other organizations for telling our story effectively.

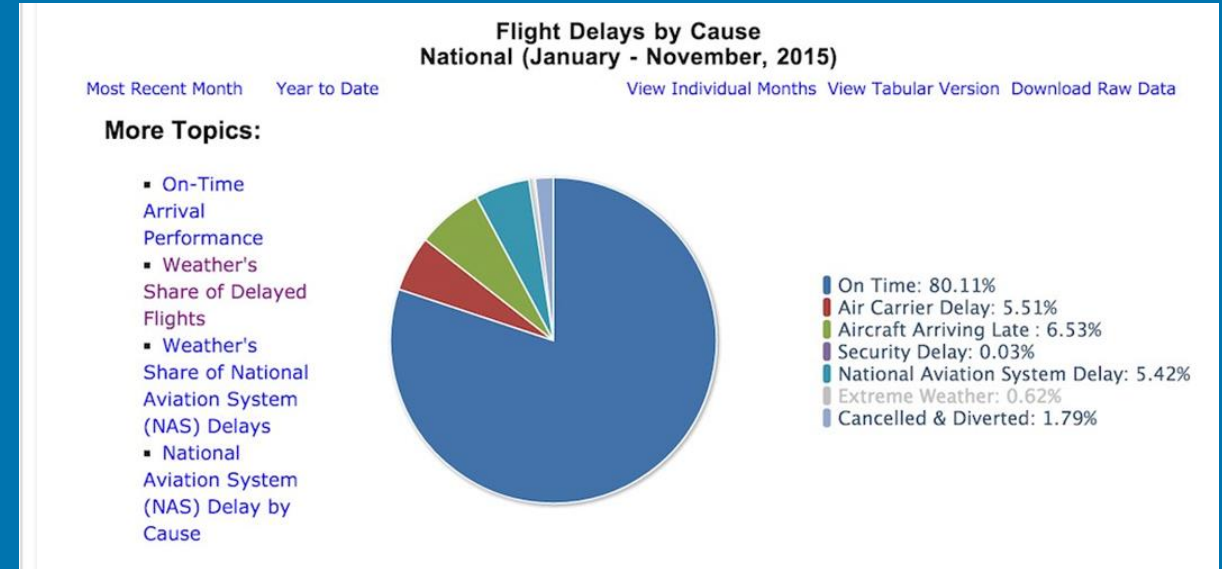


Table Flights Delays by Causes (@Copyright Trip Advice 2015)

Our mission

To help the insurance companies to adjust their insurance pricing trip-delay policies of NYC, based on the data of the flights, weather, airport, and airlines collected by Bureau of Transportation Statistics.

PREPARE

Abstract

"DATA"

Original from two core sources,
Bureau of Transportation
Statistics and Openflights data.

URL1:

http://www.transtats.bts.gov/DL_SelectFields.asp?Table_ID=236

URL2:<http://openflights.org/data.html>

"Method"

We created some database
tables using PostgreSQL. And
then designed our schema and
explored the data.

"Assumptions"

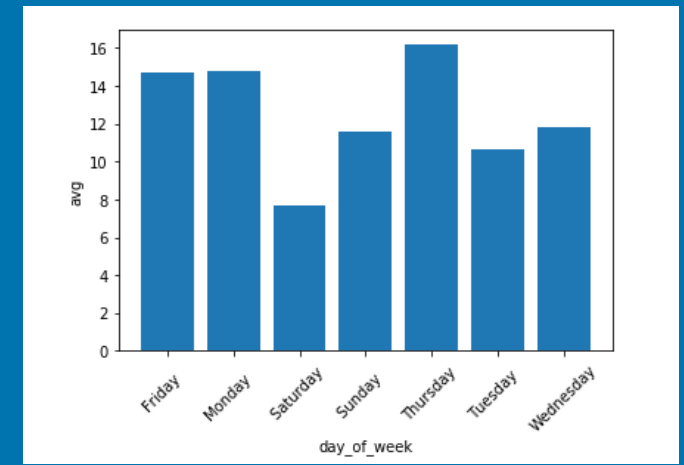
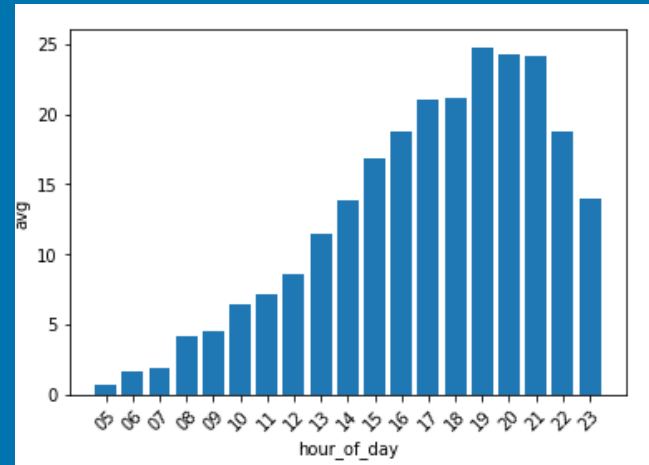
The weather and the time both
will have impact on the flights
delay.

PREPARE

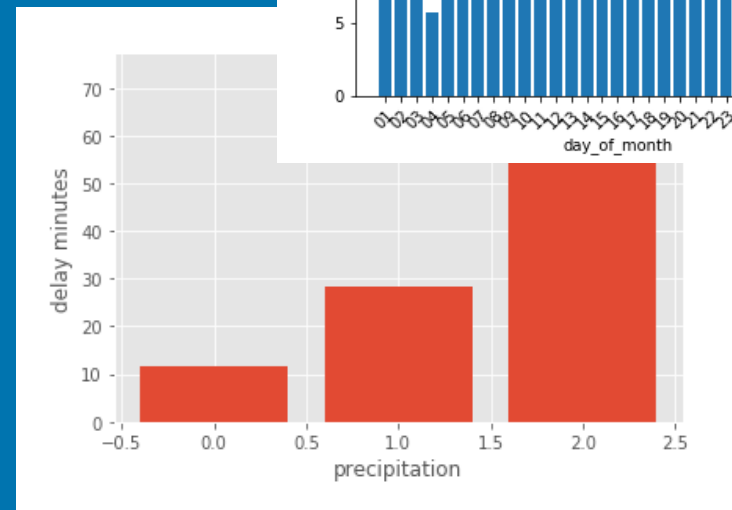
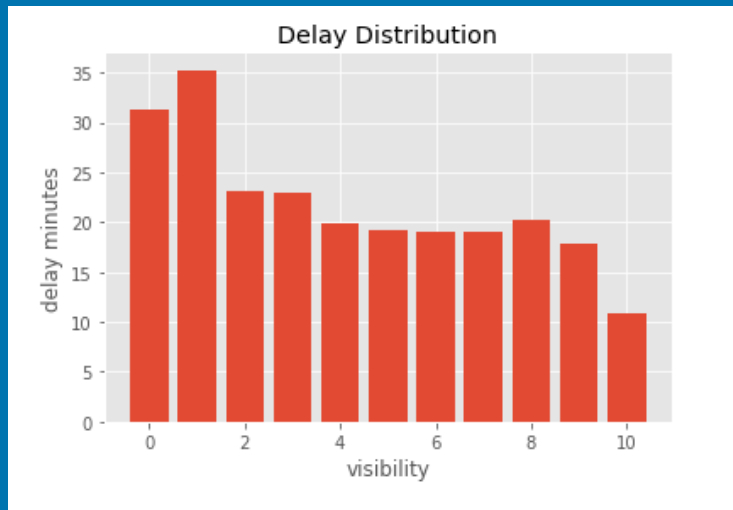
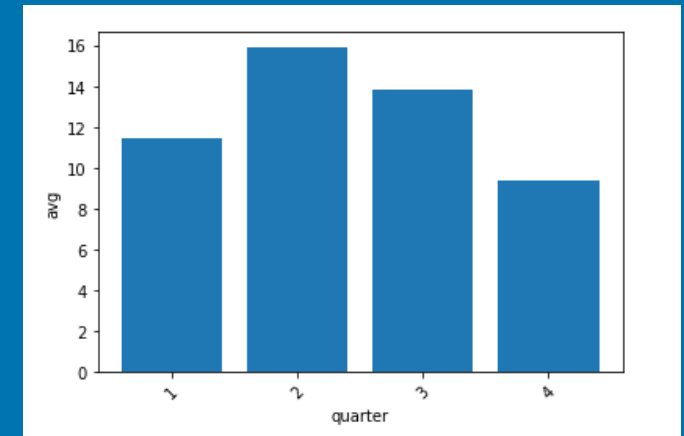
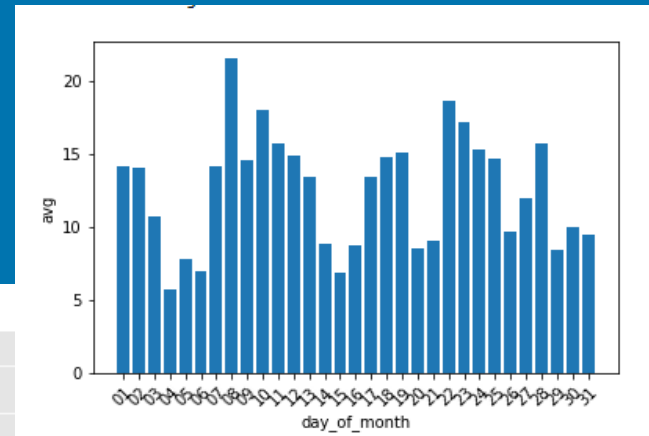
SCHEMA



PATTERNS



Weather



Time

WHAT HAPPENS IF WE CONTROL WEATHER



For each quarter:

visibility	longer delay in
low (0~4)	spring & summer
medium (4~7)	summer & fall
high (7~10)	summer

precipitation	longer delay in
<0	summer
0~1	fall
>1	-

For each hour of day or each day of week:

However the visibility or the precipitation is, the patterns due to change in time **roughly maintain.**

So...you might expect to wait longer if your flight is going to depart around dinner time on a Thursday!



“DYNAMIC PRICING”

IT IS REASONABLE THAT
THE INSURANCE COMPANY
ADJUST THE PRICE OF ITS TRIP DELAY INSURANCE
ACCORDING TO WEATHER AND TIME.

Thank you for listening!