



SCMHRD



AACSB
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Visual Analytics Report

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Objective- To analyze the performance of different flights while using the flight delay data, and present key observations regarding the industry.

Visual of the dashboard-



Key observations:

The created dashboard shows the varied data on flight delays and cancellations for the year 2015.

Overview on flights:



Overall flight volume :

From the line chart **Overall flight volume vary by month**, we can infer that-

March and October had the highest number of flights **75.1k** and February had the lowest number of flights with **72.5k**.

Overall, the count of flights in each month has been consistent ranging the flights from **72k** to **75k** per month.

Details of departure and delay:

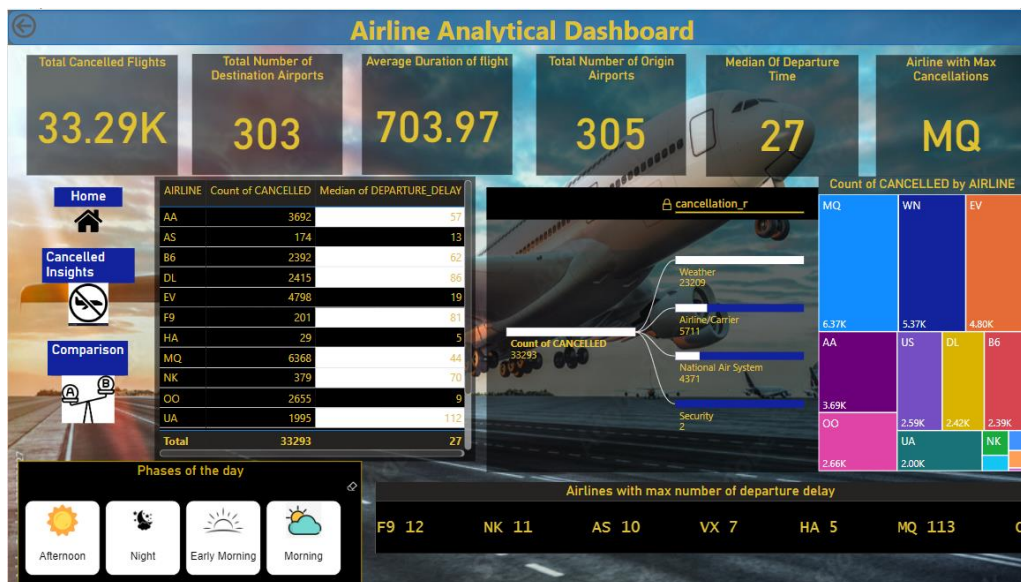


The Ontime Departure Percentage gives a value of **60.75%** of the total flights that **departed on time** while **39.25%** of flights showed delay in departure.

The **on-time departure %** is highest during the **Early Morning** and lowest at **Night**



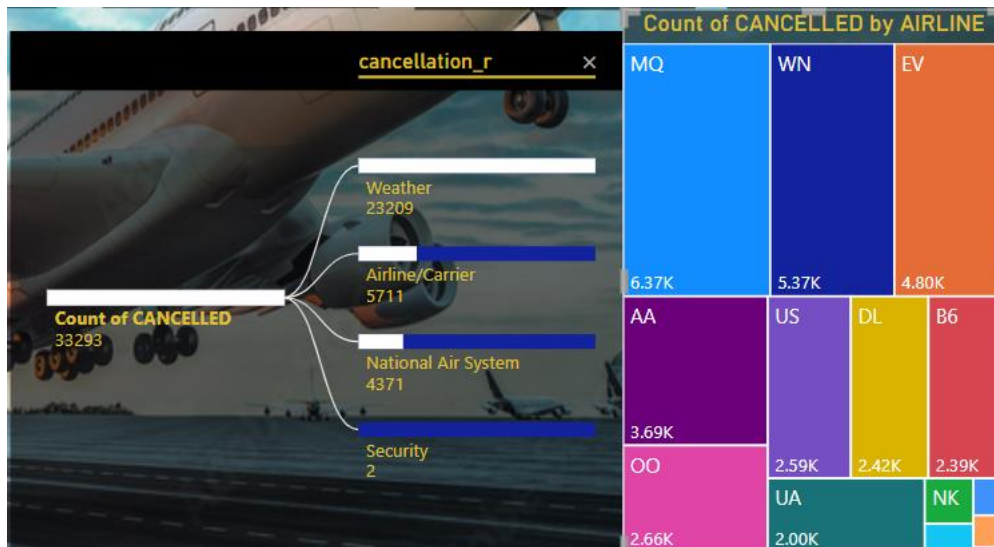
From the line chart, we can see that % of delayed flights throughout the year, the month of **August** shows the highest % of flight delays while **February** shows the lowest.



AIRLINE	Count of CANCELLED	Median of DEPARTURE_DELAY
AA	3692	57
AS	174	13
B6	2392	62
DL	2415	86
EV	4798	19
F9	201	81
HA	29	5
MQ	6368	44
NK	379	70
OO	2655	9
UA	1995	112
Total	33293	27

Out of the total no. of flights cancelled **33293** the airline **MQ** has the most no. of flights **6.37k** canceled while airline **HA** has the least **0.029k**.

The Departure Delay is highest for the flight **UA** and lowest for **HA**

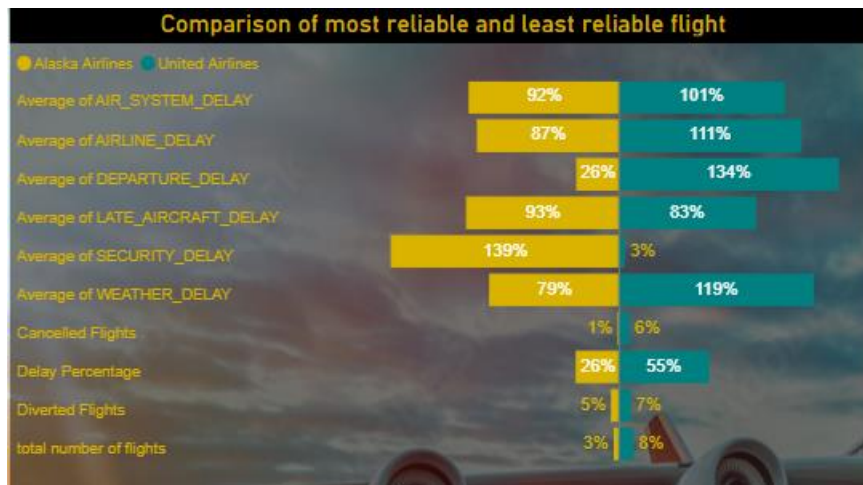


Due to **weather**, the no. of canceled flights is the highest while **security** reasons contribute to the lowest cancellation rate.

The highest no. of canceled flights is during the **Morning** while **Early morning** flights are the least ones to be canceled.



Most and least reliable flights based on Departure Delay:



Based on the departure delay, the most reliable flight is

Flight AS has the least departure delay of **26.07%** while flight UA has the most no. of flight delays with **54.66%**.

Hence the most reliable flight is **AS** while the least reliable is **UA**.