DATA VISSULIZATION & COMMUNICATION

ASSIGMENT 2

PANDURANGA A

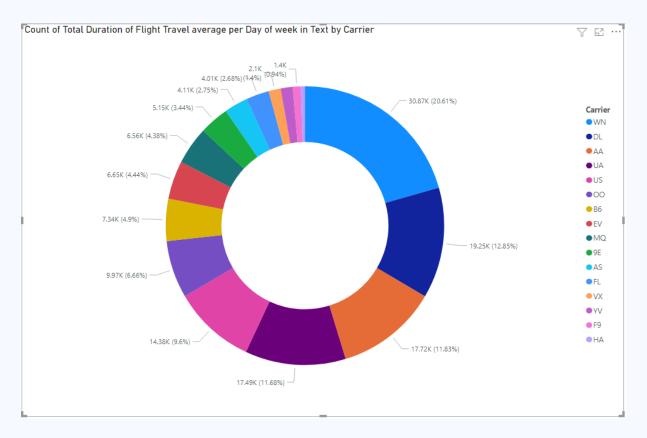
PGD IN BUSINESS ANALYTICS (2020 – 2021)

OUTLINE

- 1. All Outliners has been removed from the data
- 2. 24 hrs. Time format has been changed to 12 hrs time format for easy understanding
- 3. All Cancelled Flight data is take into count that the customer is unhappy with the flight service
- 4. I have calculated the flight duration for each flight data by finding the difference arrival and departure duration.

OULINE OF INSIGHTS (PART 2)

- Numerical Representation of month & year has been transformed into text
- Based on the Total Delay (Departure & Arrival) Flight Data is considered as – late& Early Arrival



Total Flight Duration by a Carrier for the month of (April, May & June)

Formula used:

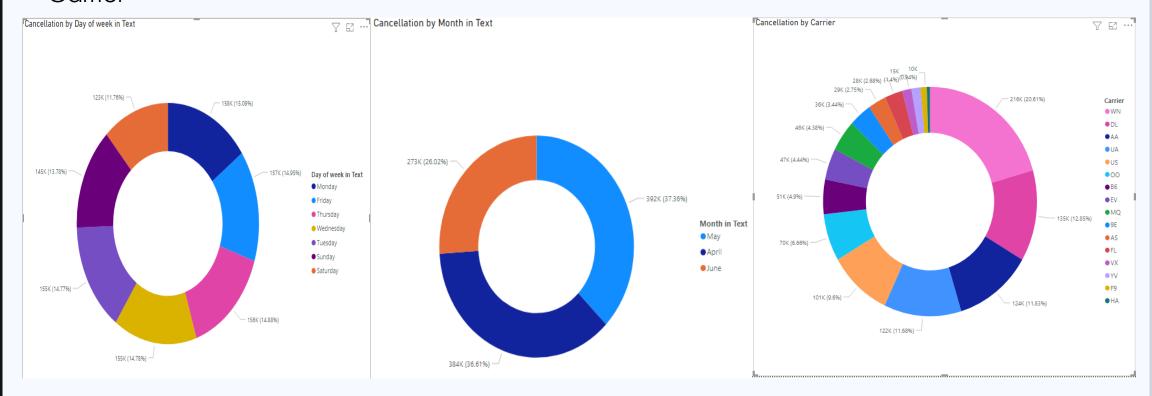
Count of Total Duration of Flight Travel average per Day of week in Text =

AVERAGEX(

KEEPFILTERS(VALUES('FILGHT RAW DATA'[Day of week in Text])),

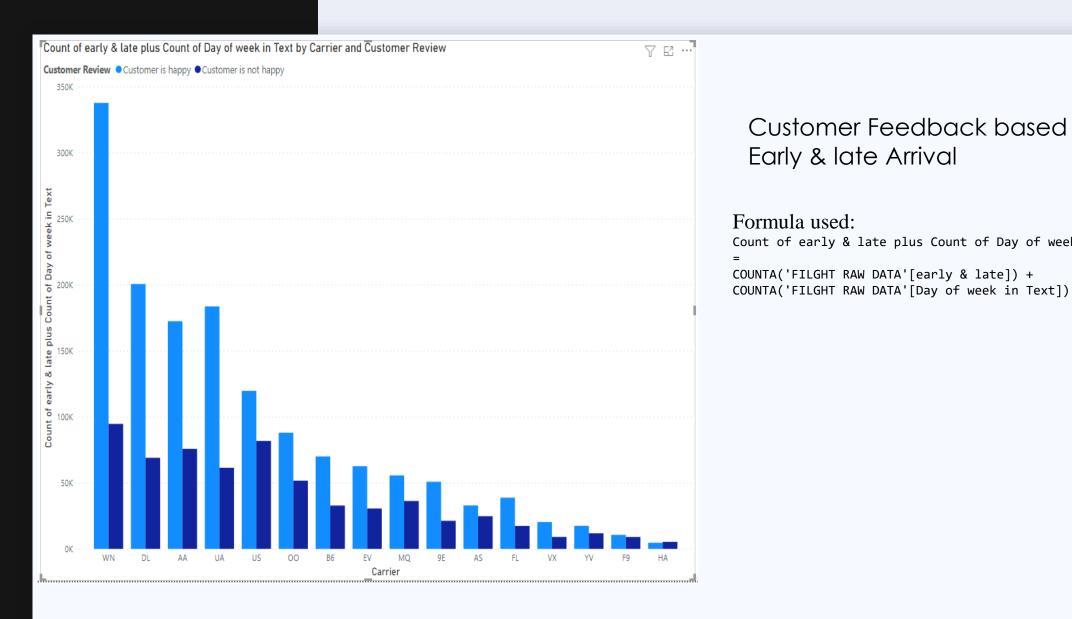
CALCULATE(COUNTA('FILGHT RAW DATA'[Total Duration of Flight Travel]))
)

Total no flight cancelled by day of week & months (April, May & June) and based on Carrier



Formula used:

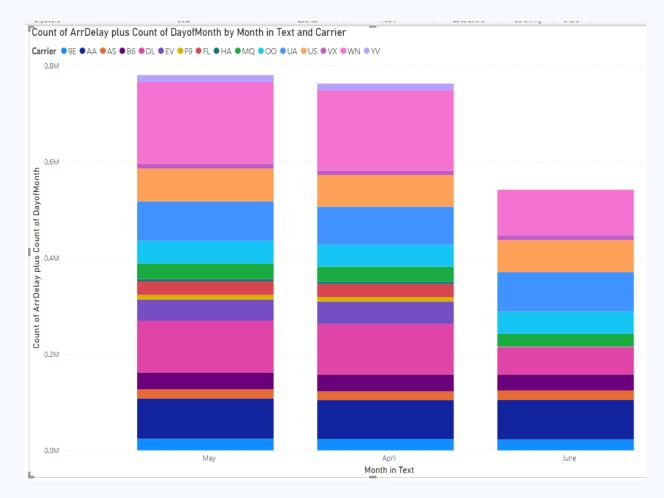
Count of Cancelled plus Count of Day of week in Text 2 = COUNTA('FILGHT RAW DATA'[Cancelled]) + COUNTA('FILGHT RAW DATA'[Day of week in Text])



Customer Feedback based on Early & late Arrival

Formula used:

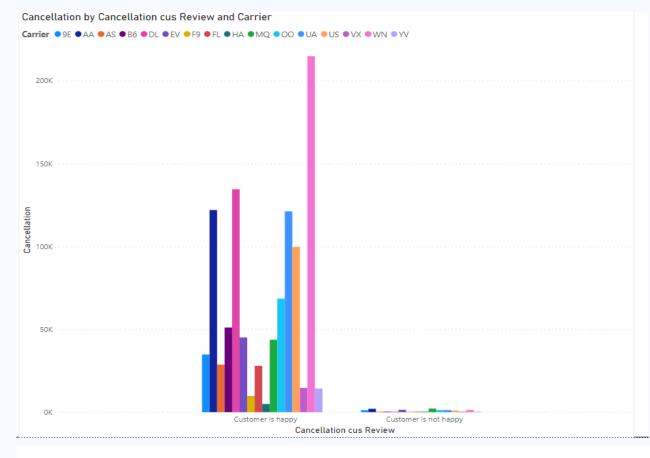
Count of early & late plus Count of Day of week in Text COUNTA('FILGHT RAW DATA'[early & late]) +



Arrival Delay Ratio by Month with Respective to the Carrier

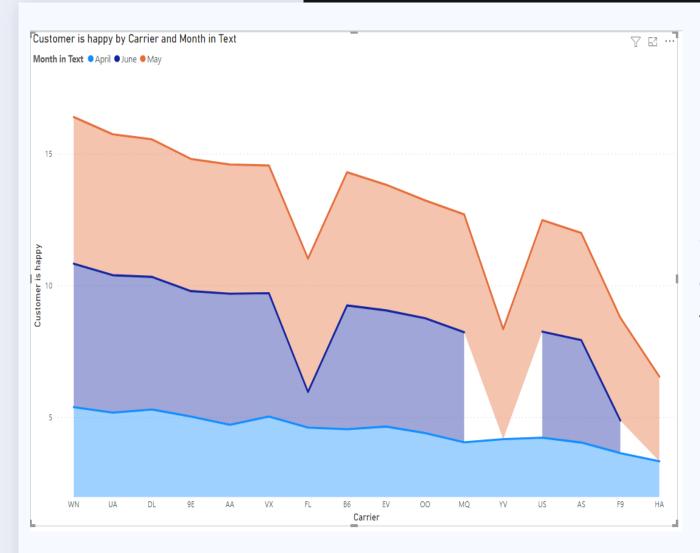
Insights:

I would suggest the customer as Business analyst to avoid WN, DL, UA, US Carrier to travel and in turn suggest MQ,FL,F9 & AS for quicker travel as there very less count arrival delay and the customer are also happy with the service.



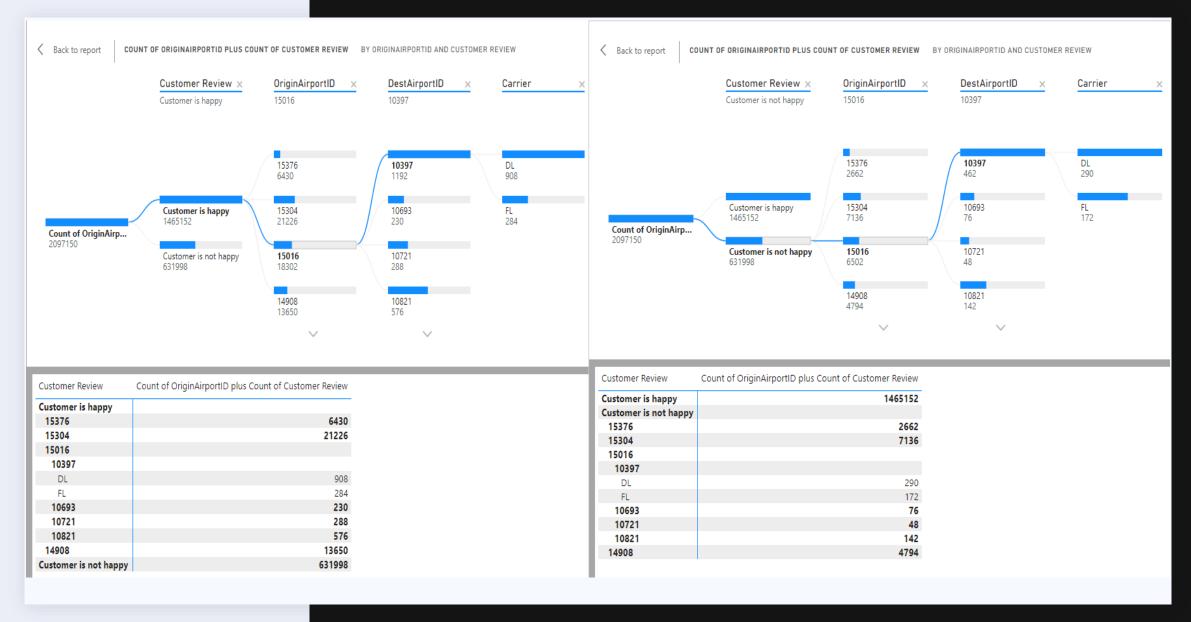
Cancellation Customer feedback with respective by Carrier

Cancellation cus Review	9E	AA	AS	B6	DL	EV	F9	FL	НΑ	MQ	00	UA	US	VX	WN	YV
Customer is happy	34819	121974	28736	51096	134516	45105	9783	27945	4951	43738	68524	121193	99721	14674	214782	14249
Customer is not happy	1211	2063	60	285	208	1458	28	108	11	2188	1261	1250	947	9	1319	363



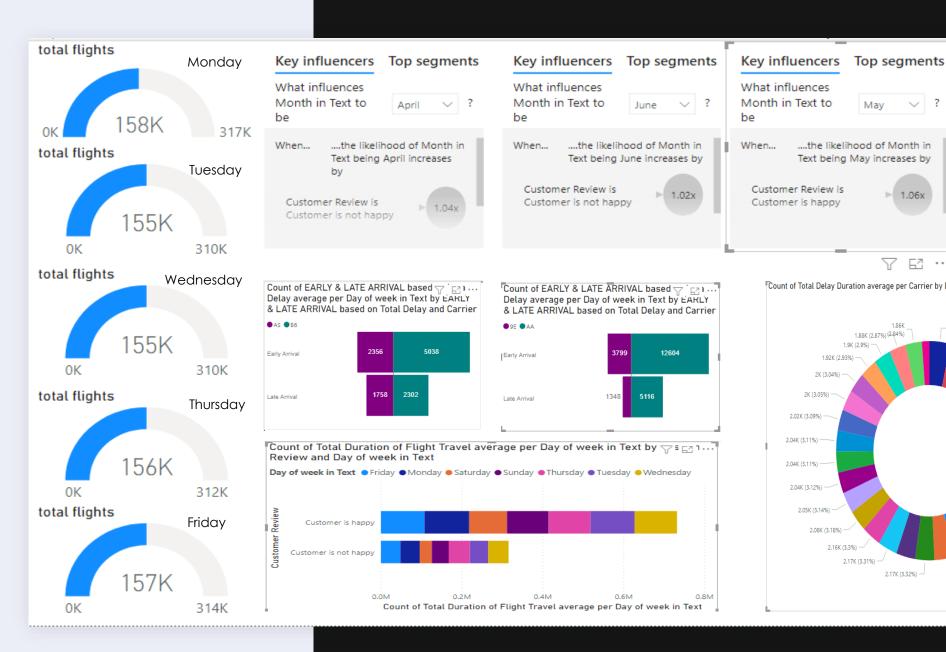
Customer is happy with carrier service based on the month

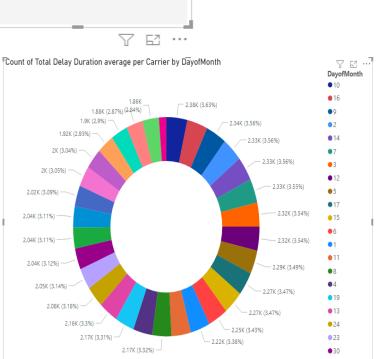
INSIGHT FOR THIS SLIDE PLS REFER SLIDE 11



The Previous Slide Describes difference between

- Customer is Happy vs Customer is not Happy
- I have related with the no of customer is happy with the same Orgin Airport ID, DEST
 Airport ID and same carriers
- This formulation of data help the airport authorities to develop and reduce cancellation, arrival delay and departure delay
- This will also help me to identify the root cause error and customer satisfaction.





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....the likelihood of Month in

Text being May increases by

DASH BOARD INSIGHTS & RECOMMENDATION

- As per the total flights in week there are many flights running on the start and end of the week, so I recommend to take flights on mid of the week thus customer aren't over priced
- Key Influencer the highest no of customer was not happy in the month April & June hence I recommend to travel during May month
- I recommend to take flights during Tuesday and Wednesday based on the flights duration and customer satisfaction
- I recommend not to take flights on Thursday and Friday on any part of the month
- I recommend to take flights in middle of the month rather than beginning and end of the month since the flights have many delay duration as per comparison between carrier avg delay duration vs day of the month

Recommendation

- DL, WN, AA has highest flight duration when compared with YV,F9, HV. Thus I recommend customer to take flights of YV,F9, HV for cheapest flight rates and to avail best service the customer can go for DL, WN, AA carrier.
- Based on the Cancellation of the flights with the day of the week, month and carrier. I
 recommend the customer to take flights during Saturday and Sunday, June, YV, F9, HA
- Based on the customer feedback customer is happy with the wn dl and aa carrier when compared to other carrier hence, to avail best service I recommend these carrier
- Based on the customer feed back I recommend customer not to take the flight carrier of FL, YV in the month of June and may since there very low customer has rated customer is happy