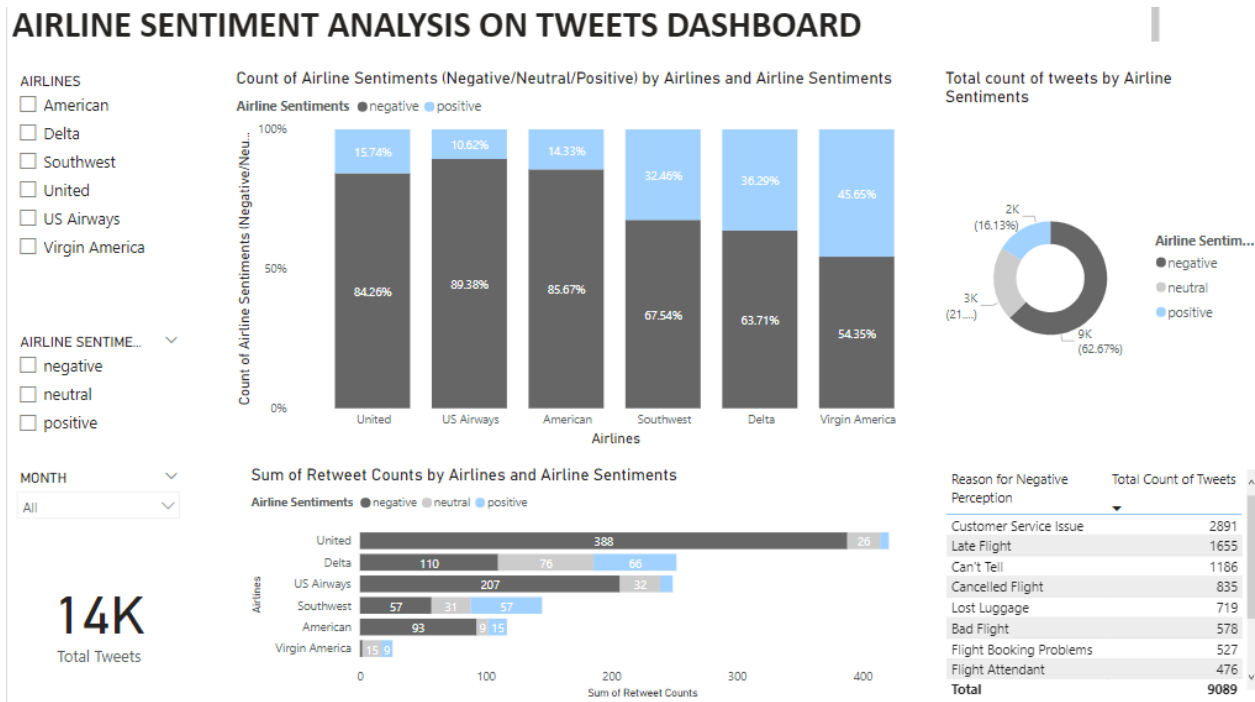


Name: Rashmitha Ravi Shetty

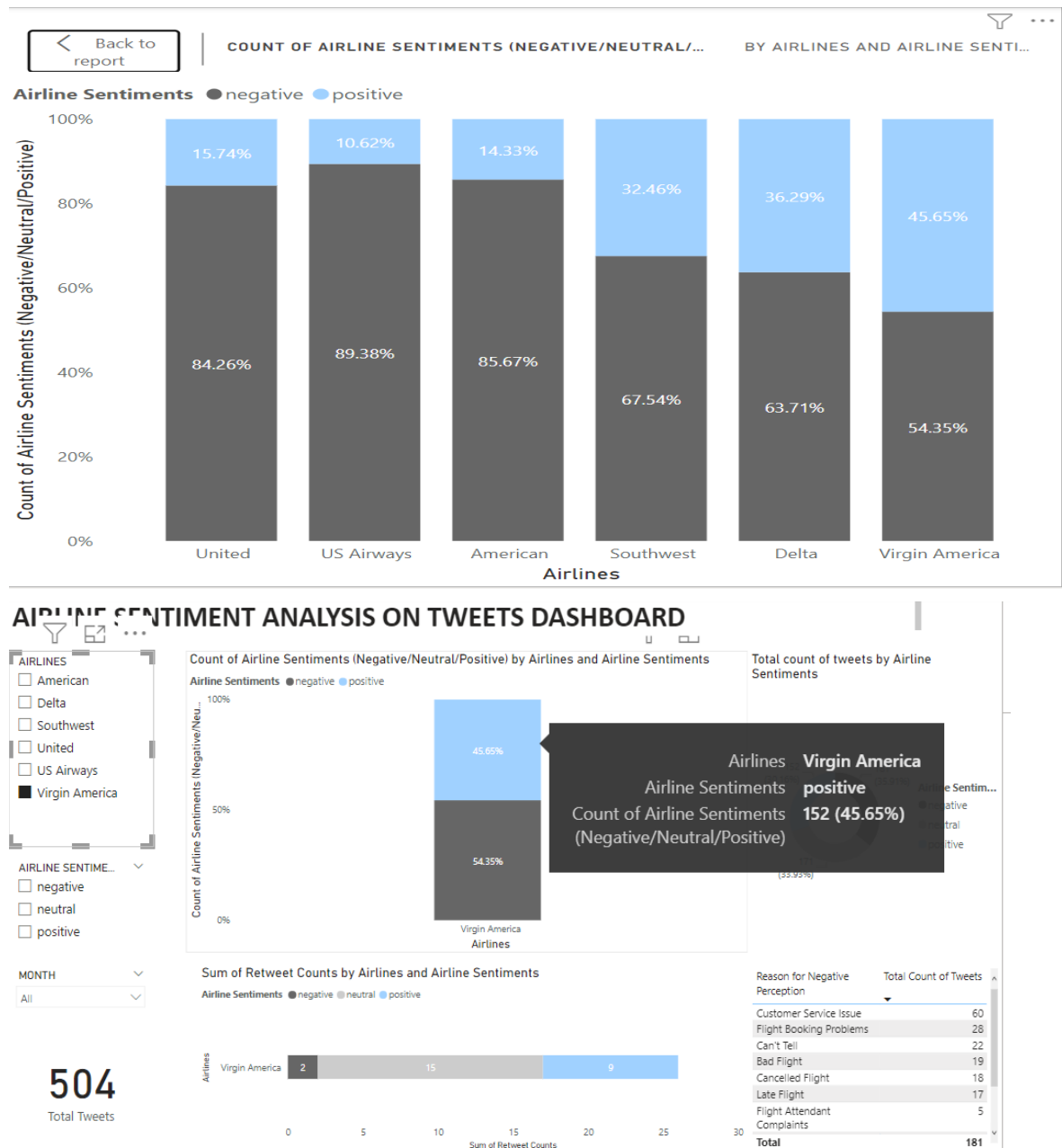
Airline Sentiment Tweet Analysis

Tool used: PowerBI

Dashboard :

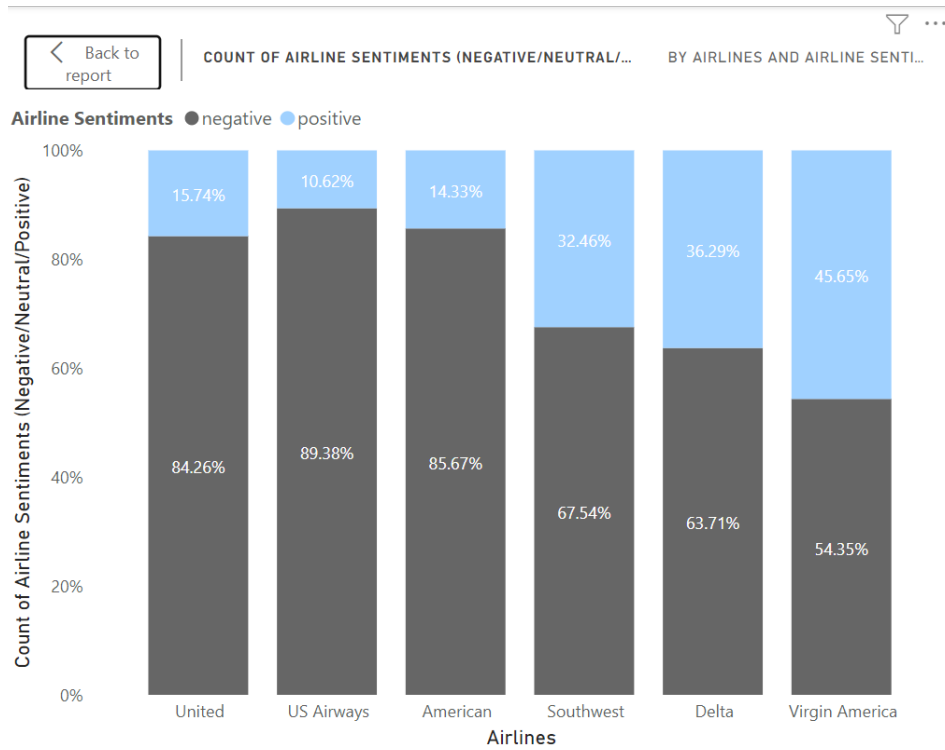


1. Which airline has the better/positive perception of their customers? Why?

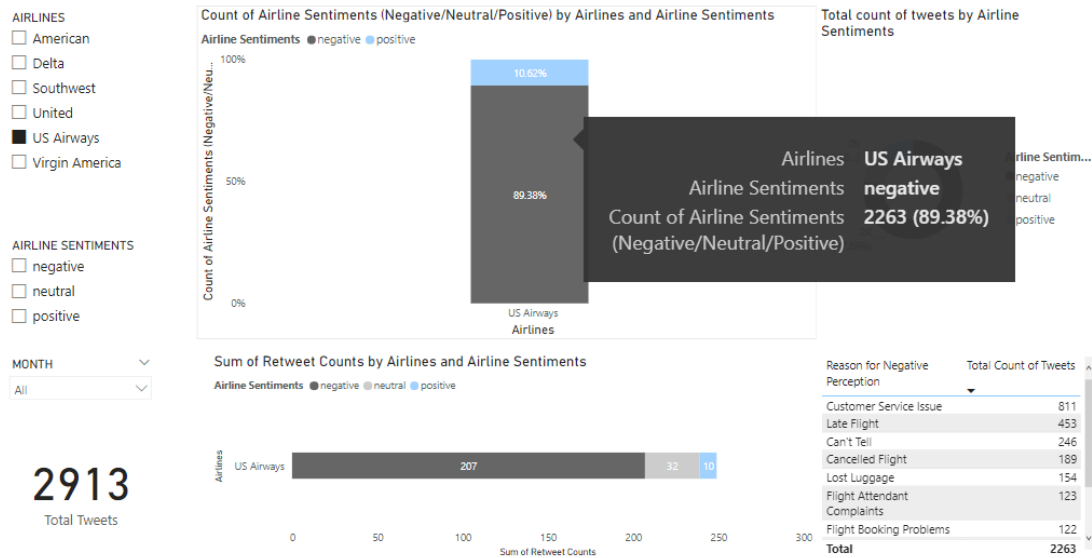


Answer: Virgin America has the most positive perception of its customers. The number of tweets with positive sentiments is the highest i.e., 152 out of 504. This contributes 45.65% of total tweets for the airline and is the highest amongst all the airlines.

2. Which is the least favorite/negative perception? Why?



AIRLINE SENTIMENT ANALYSIS ON TWEETS DASHBOARD



Answer:

US Airways is the least favorite airline amongst it's customers as it has a maximum number of tweets with negative sentiments. 2262 tweets out of 2913 are negative. The contribution towards the negative perception is 89.38 % of the total tweets tagged for US Airways which is the highest possible negative perception of a airline.

3. Are there specific 'fans/champions' or 'detractors' for each brand that stand out?
Is that important?

Fans:

AIRLINES

- ☐ American
☐ Delta
☐ Southwest
☐ United
☐ US Airways
☐ Virgin America

AIRLINE SENTIMENT

- ☐ negative
☐ neutral
☒ positive

name	American	Delta	Southwest	United	US Airways	Virgin America	Total
SMHillman		11					11
Logunov_Daniil					10		10
NoviceFlyer				7			7
kbosspotter		6					6
NickTypesWords		6					6
georgetietjen	5						5
JetBlueNews		5					5
The_Playmaker20	3		1	1			5
ClassyMalick		4					4
Gouwerijn				4			4
gwen1013				4			4
mariobonifacio		4					4
matthewhirsch		2	1			1	4
MaxwellAMooney		4					4
MeeestarCoke	4						4
miaerolinea		1				3	4
Mtts28	4						4
sundialtours	2		1	1			4
AliBessette		3					3
AnnCompton			3				3
barrysterling	3						3
BattierCCIpuppy				3			3
BFarraye		3					3
BorjaAngoitia1		3					3
bostongarden		3					3
Easy_E_				3			3
ErinMBarlow		3					3
flemmingerin	3						3
itsjessme_			3				3
Total	336	544	570	492	269	152	2363

	name	American	Delta	Southwest	United	US Airways	Virgin America	Total
AIRLINES <input type="checkbox"/> American <input type="checkbox"/> Delta <input type="checkbox"/> Southwest <input type="checkbox"/> United <input type="checkbox"/> US Airways <input type="checkbox"/> Virgin America	otisdaiy	28						28
	_mhertz	16			11			27
	throthra				24			24
	rossj987					23		23
	weezerandburnie	14				9		23
	chagaga2013	18						18
	ElmiraBudMan					18		18
	GREATNESSEOA	10				8		18
	scoobydoo9749			18				18
	ThatJasonEaton		18					18
	Aero0729	14			2			16
	jasemccarty	2			1	12		15
	MeeestarCoke	6				9		15
	thomashoward88	2				13		15
	worldwideweg					15		15
	Allisonjones704					14		14
	arthurhasner		14					14
	riricesq					14		14
	Evan_Flay				13			13
	Heavenlylchc9			13				13
AIRLINE SENTIMENT <input checked="" type="radio"/> negative <input type="radio"/> neutral <input type="radio"/> positive	luvthispayne			13				13
	Old_bauer		12			1		13
	agoldenbrown	12						12
	CLChicosky					12		12
	farfalla818	12						12
	tannapistolis					12		12
	davisesq212		11					11
	flemmingerin	11						11
	HaileyUrban	11						11
	Total	1960	955	1186	2633	2263	181	9178

American:
fans/champions: georgetietjen by 5 tweets

Detractors: otisday by 28 tweets

Delta:

fans/champions: SMHillman by 11 tweets

Detractors: ThatJasonEaton by 18 tweets

Southwest:

fans/champions : AnnCompton, itsjessme_, MinderJoan, WalterFaddoul by 3 tweets

Detractors: scoobydoo9749 by 18 tweets

United Airlines:

fans/champions : NoviceFlyer by seven tweets

Detractors : throthra by 24 tweets

US Airways:

fans/champions: Logunov_Daniil by ten tweets

Detractors: rossj987 by 23 tweets

Virgin America:

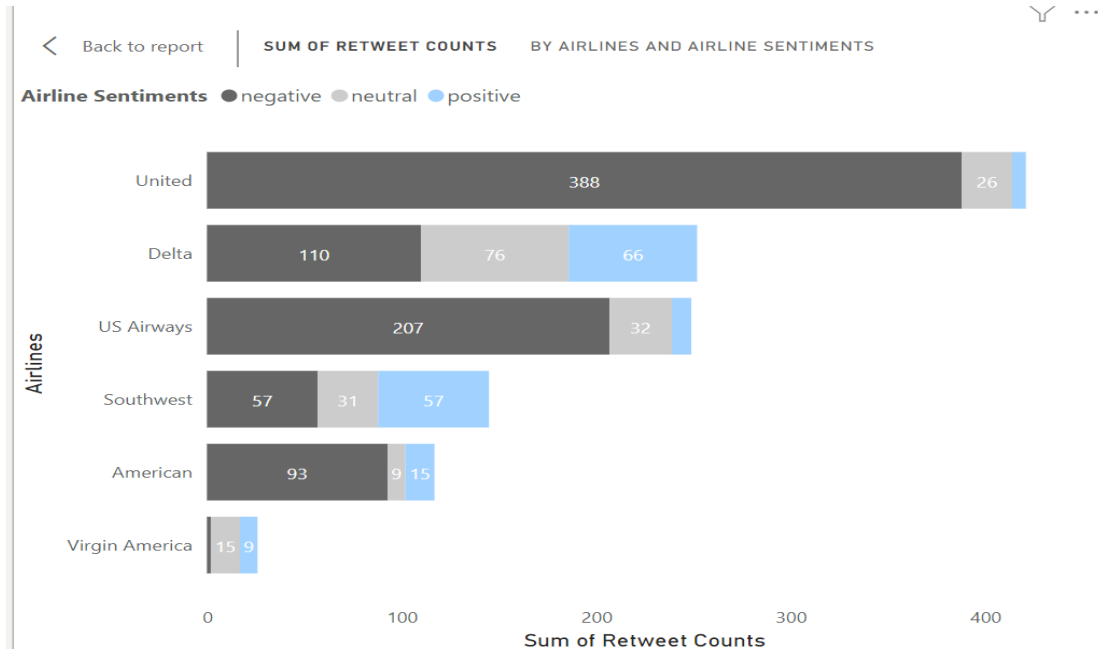
fans/champions: miaerolinea by three tweets

Detractors: GunsNDip by six tweets

Detractors and Fans of each brand play a vital role in the brand's growth. It's essential to retain positive comments and reduce the negative perception by improving service. In the above case, we can see that the highest number of detractor tweets is seen for American Airlines by user otisday (28 tweets), and SMHillman is the fan with the highest no. of positive tweets (11 tweets) for Delta airlines. A brand's sales get affected by such factors when an active user tweets.

4. What else does the data tell you?

Answer: The given data tells us that the airlines need to focus on Customer Service and try to schedule their flights on time, and in case of a delay, they should provide customers with the necessary facilities. The data also tells that negative tweets have been retweeted most often compared to positive and Neutral ones.

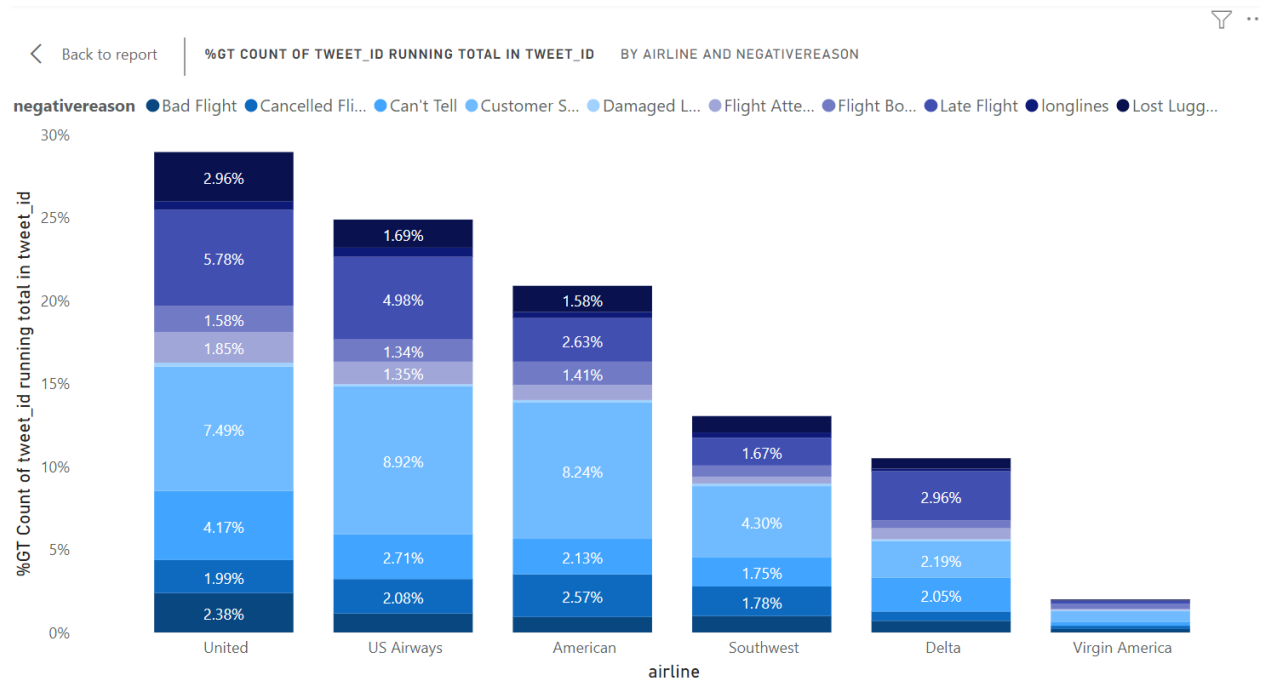


The data also tells that a maximum no. of tweets were observed for United Airlines (3822 tweets) and the lowest no. of tweets for Virgin America. We can infer the sales for each brand through this comparison.

AIRLINE SENTIMENT ANALYSIS ON TWEETS DASHBOARD



5. Are there specific strategies and tactics you can develop and employ – as the brand – to improve your sentiment among your customers, based on this data?



From the above graph, we can infer that the maximum Negative Tweets were due to Bad Customer service and Late flights. Thus, providing exceptional customer service is critical for any airline brand to improve customer sentiment. The customer experience should be seamless and hassle-free, from booking a flight to arriving at the destination. The airline should ensure that its staff is well-trained, friendly, and helpful to customers. Effective communication is another aspect that brands can focus on. Airlines can communicate effectively and promptly with customers regarding flight schedules, delays, cancellations, and other relevant information.