## **IDS 567: Business Data Vizualization**

# **Spirit Airlines**

**Group 8 - Fall 2023** 

(Vinny, Guido, Marina, Sankhadip, Plash)



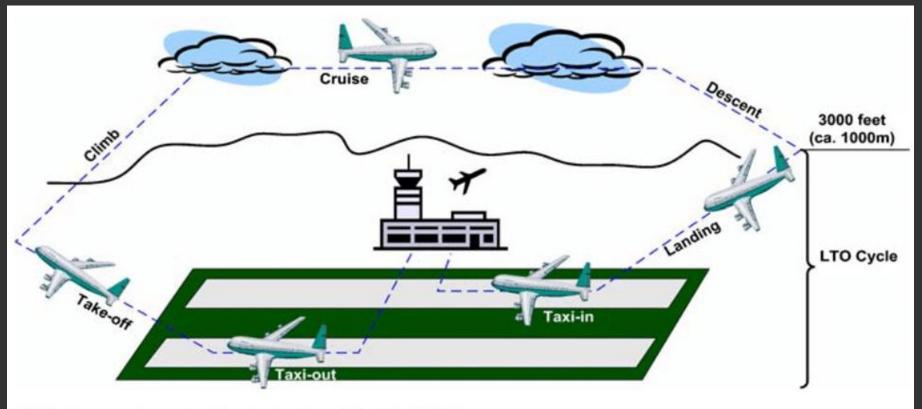


Spirit Airlines, Inc. is a major United States ultra-low cost airline headquartered in Miramar, Florida. Spirit operates scheduled flights throughout the United States, the Caribbean and Latin America. Spirit was the seventh largest passenger carrier in North America as of 2023, as well as the largest ultra-low-cost carrier in North America.

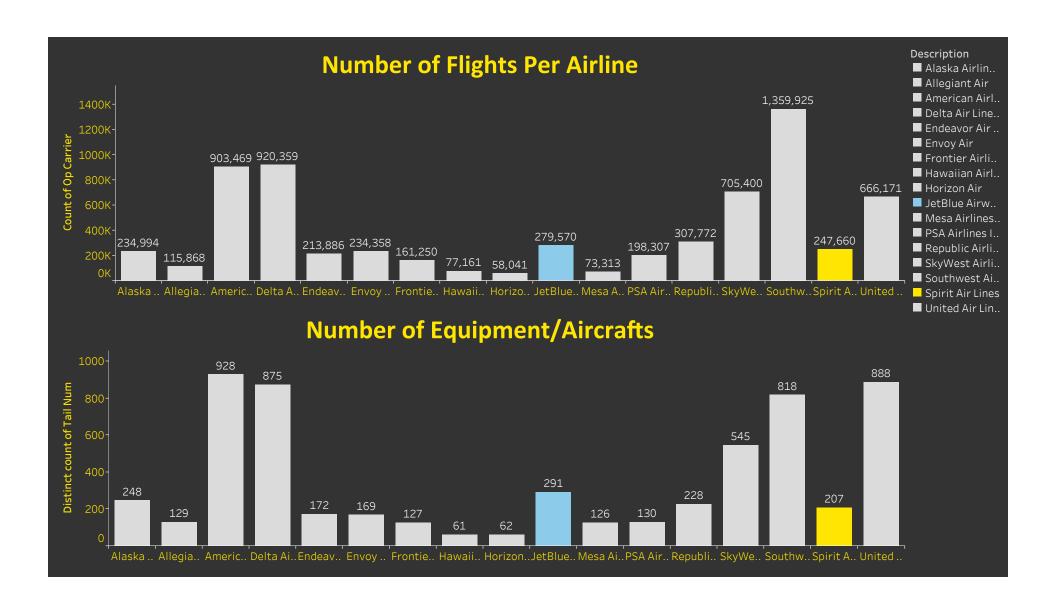
#### Objective:

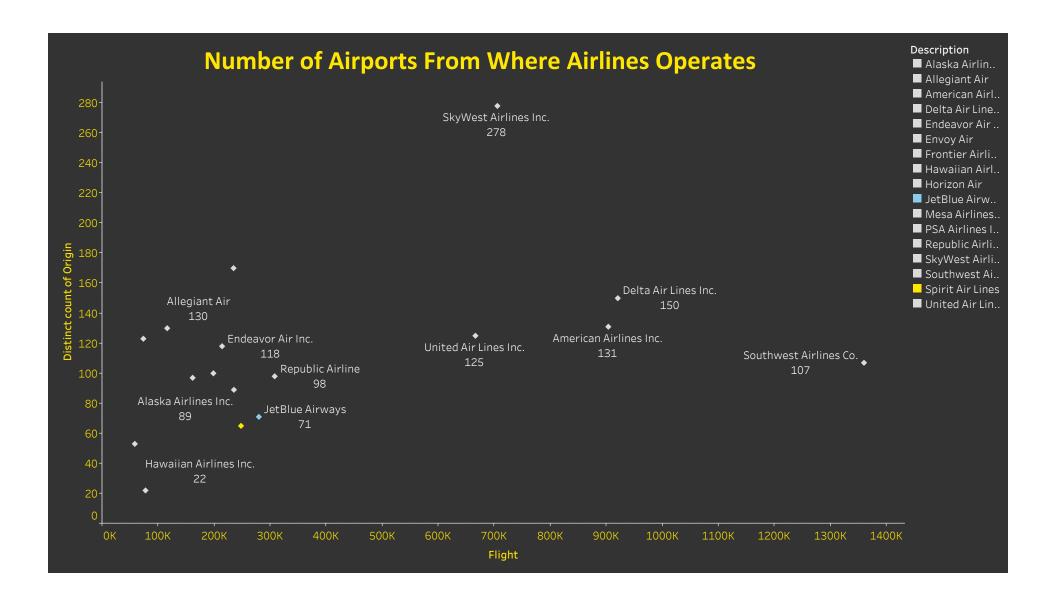
show how spirit performs with respect to other airlines in the U.S market. We have selected relevant metrics and performed data exploration to uncover Spirit Airlines profile, identify its major competitors, and compare its effectiveness with those competitors.

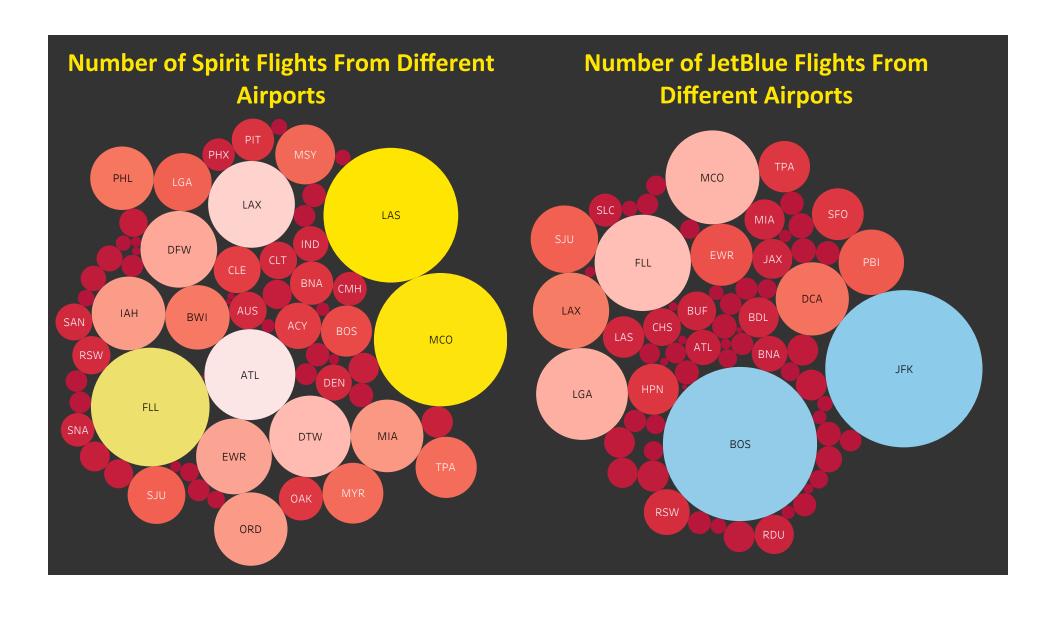
### Phases of a Flight



Flight phases of an aircraft, adapted from Rypdal (2000)

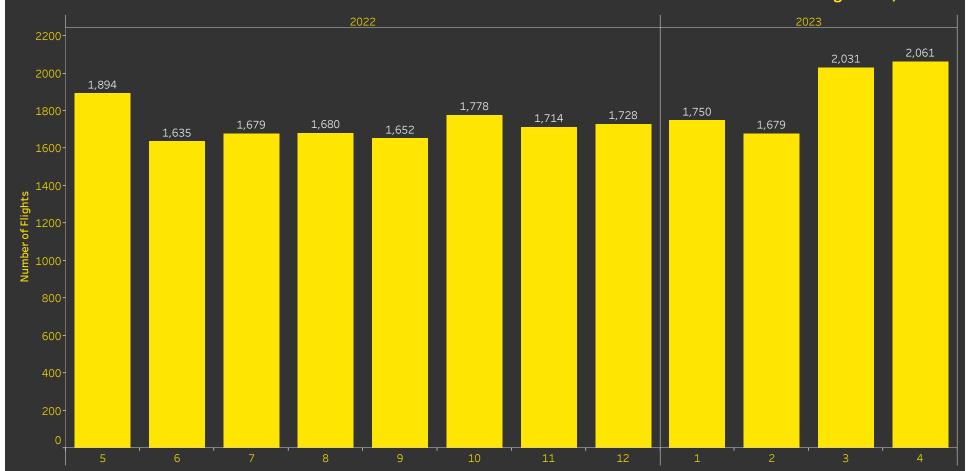


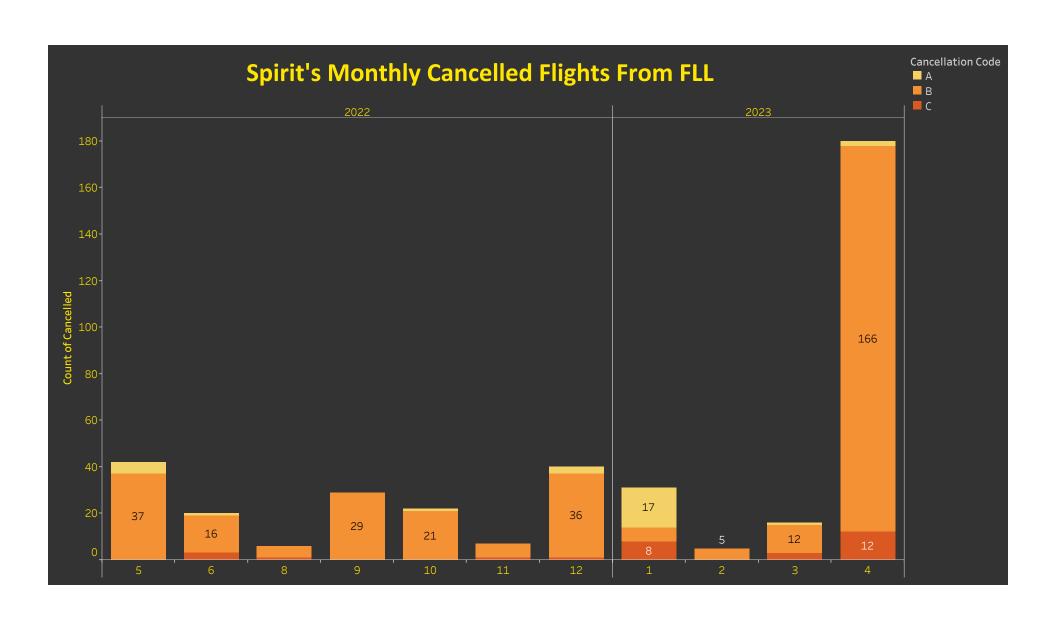


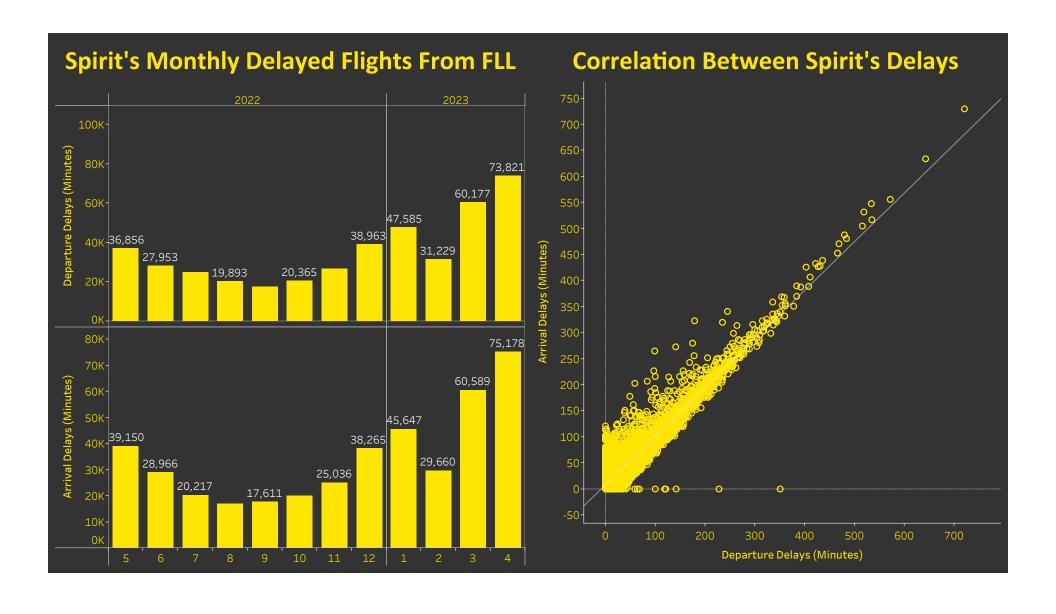


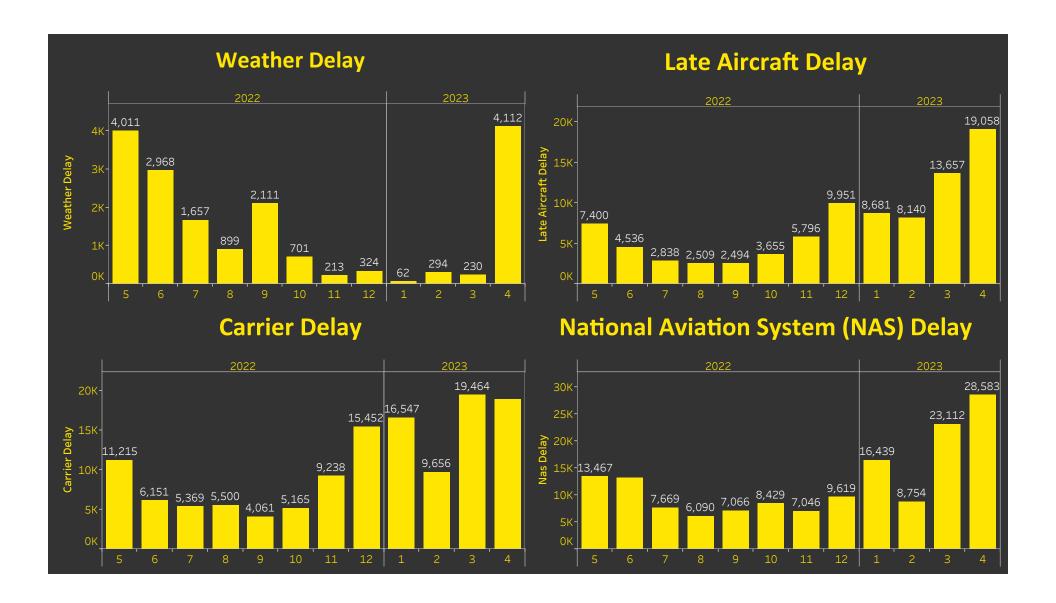


**Total Number of Flights: 21,281** 



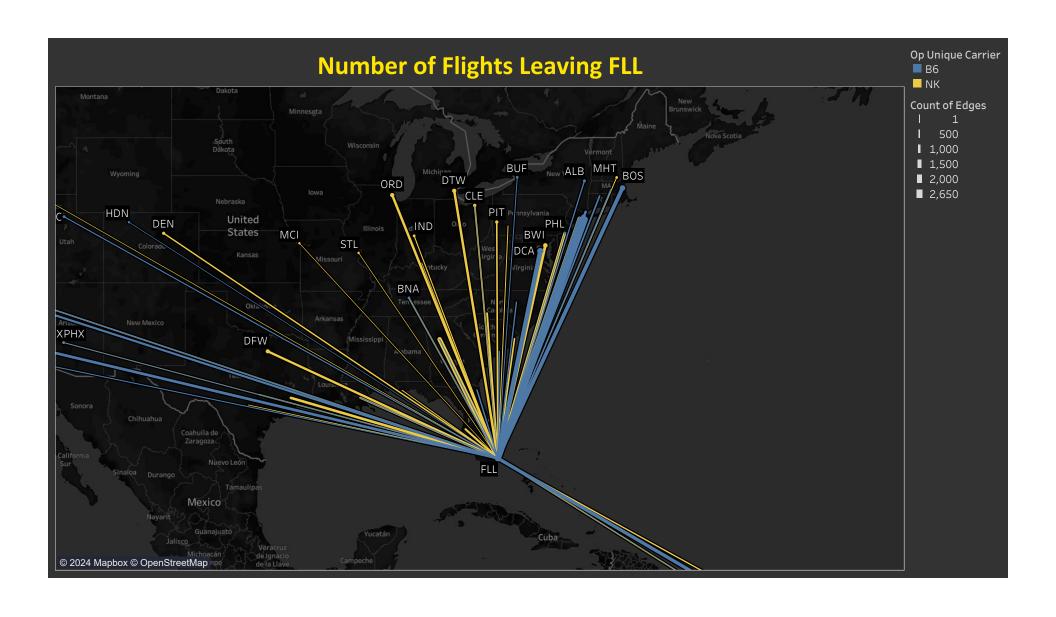


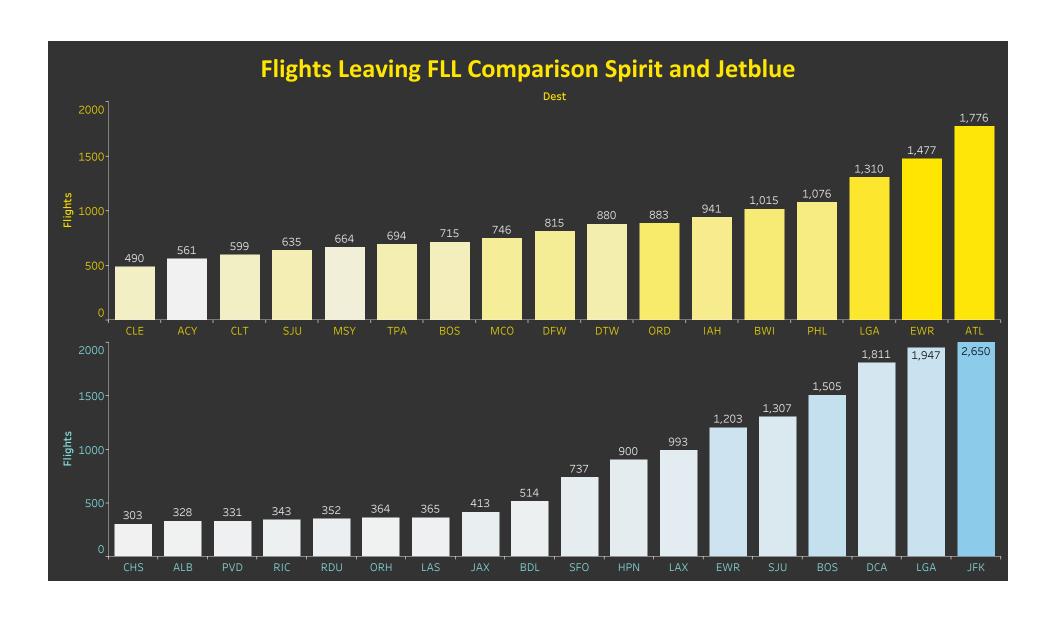


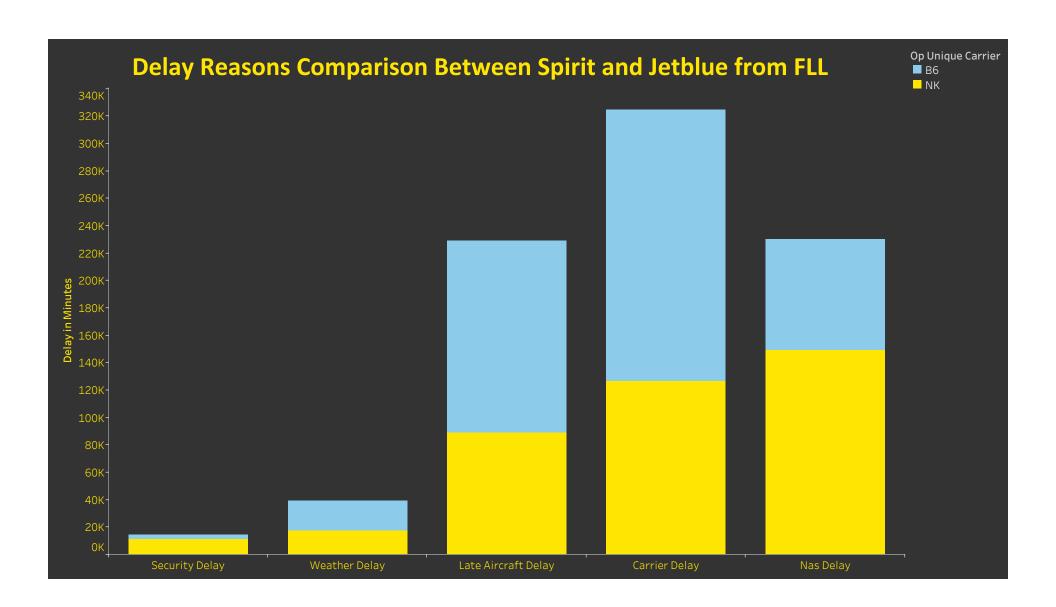


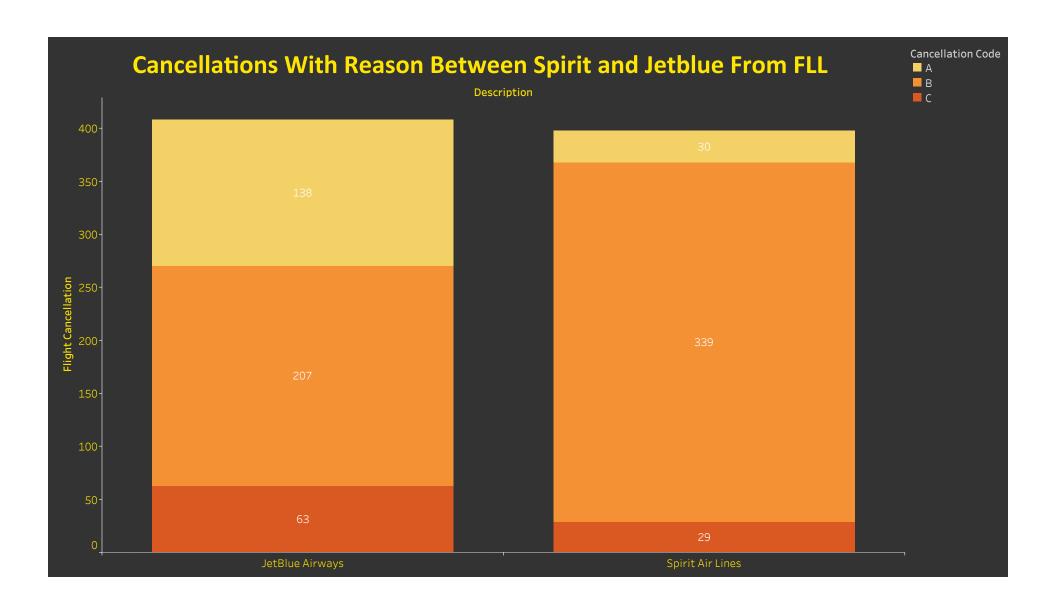
### **Spirit's Top 10 Destinations With the Highest Average Delays**

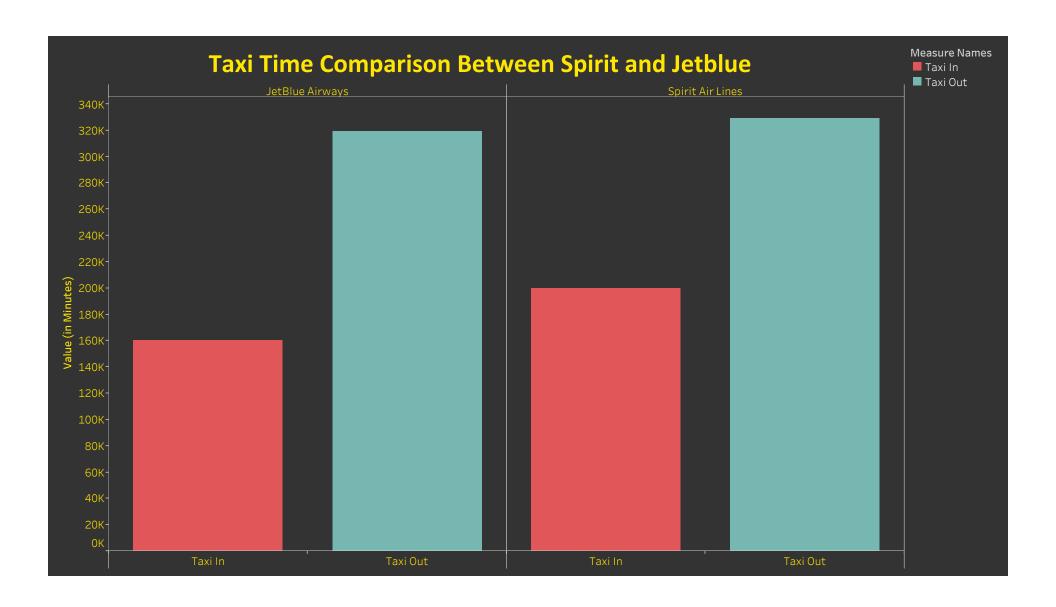


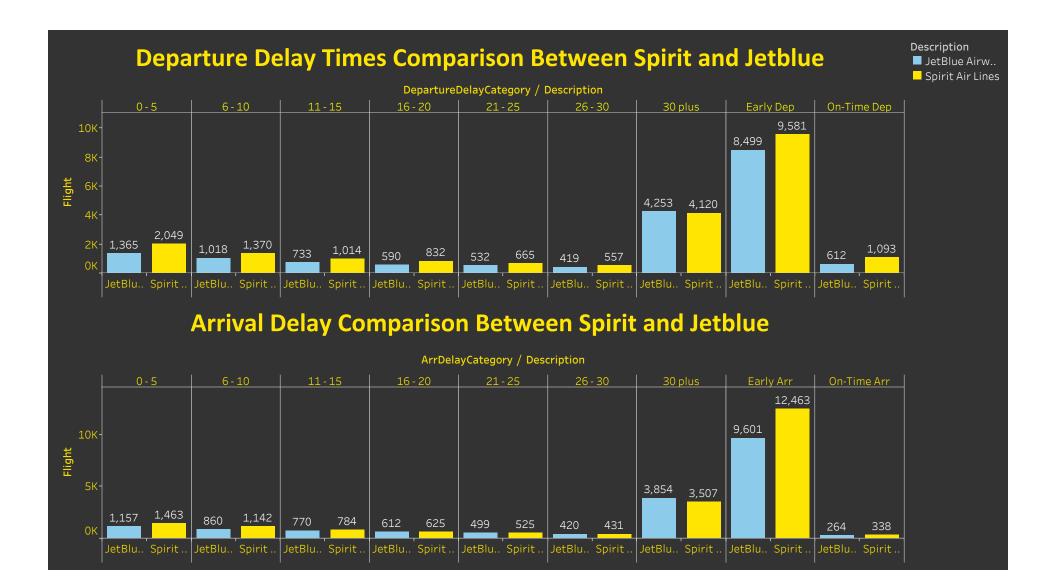














#### Conclusion:

Spirit should focus on minimizing the Carrier and NAS delays, increase their number of flights, implement silent pushback to reduce their taxi in and out times, and plan ahead to avoid weather cancellations on FLL, this way they will keep ahead of Jetblue.