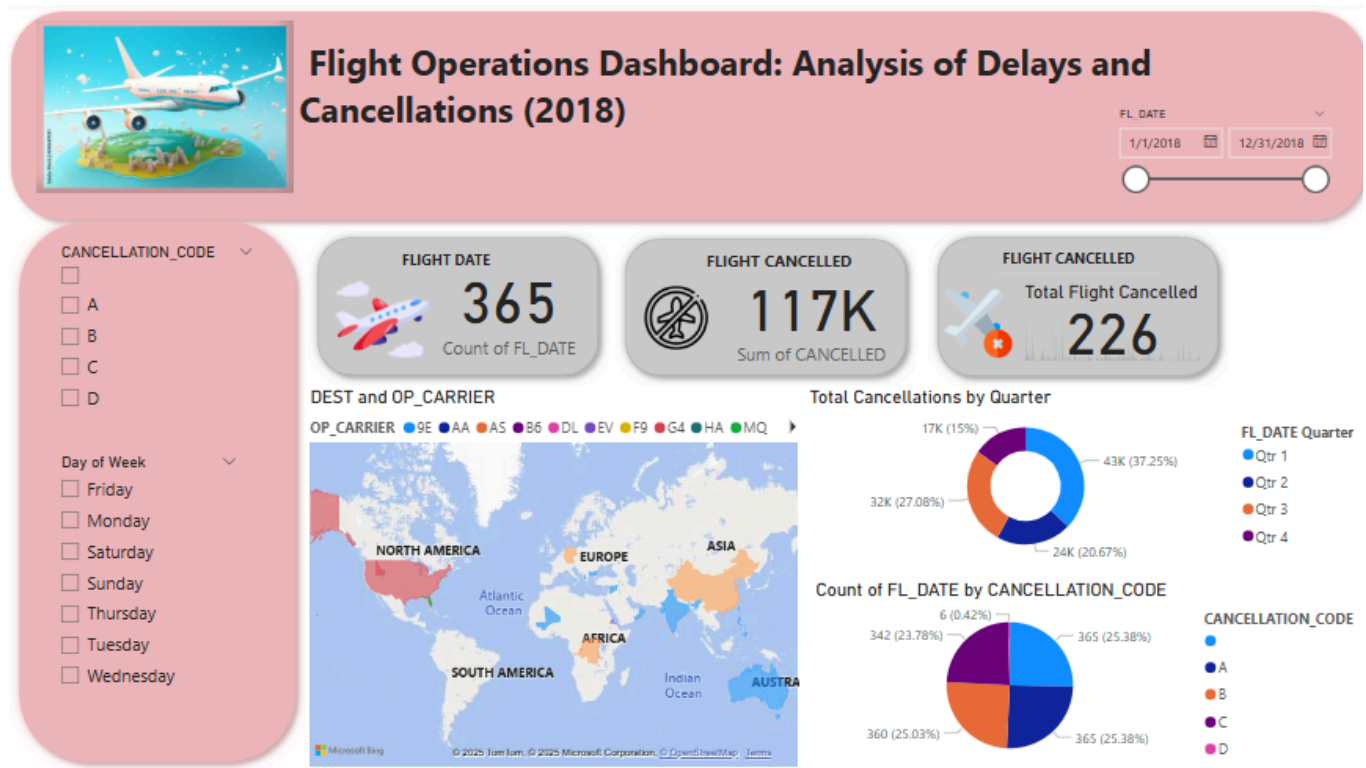


# Flight Operations Dashboard: Analysis of Delays and Cancellations (2018)



## Objective:

To analyze U.S. domestic airline performance in 2018 by exploring trends in flight delays and cancellations. The dashboard helps identify which carriers, time periods, and other factors contributed most to disruptions.

## Key Highlights:

- **365** Days of data analyzed.
- **117K** flights were cancelled across the year.
- **Friday** recorded the highest average delays.
- **Quarter 3** saw a surge in cancellations, especially from key airports and top carriers.
- **Cancellation Codes A and D** were the most common causes for flight disruptions.



## **Visual Insights Provided:**

- KPIs showing total flights, cancellations, and average delay metrics.
- Line and donut charts analyzing cancellations by quarter and reason.
- Geographic mapping of cancellations by origin airport.
- Delay patterns segmented by day of the week.
- Interactive filters for deeper drill-down analysis.
- Key influencer analysis highlighting factors driving cancellations.

## **Conclusion:**

The dashboard provides clear, actionable insights into the operational challenges faced by airlines in 2018. By identifying trends in cancellations and delays, stakeholders can take preventive measures to improve flight reliability.