Summary:

This analysis provides a comprehensive overview of bird strikes based on various data points, such as origin state, airline, phase of flight, and cost implications. The dashboard designed for this analysis streamlines the visualization, making it easier to track trends and patterns across multiple years and airlines. Key insights include the variation in bird strikes by location, airline, and flight phase, with actionable data on how these factors contribute to overall safety risks and costs. By incorporating new data measures, the usability of the dashboard has improved significantly, helping stakeholders make informed decisions regarding bird strike prevention.

Key Findings:

1. **Bird Strikes by Origin State:** Analysis reveals a correlation between bird strikes and the geographic location of airports, with certain states showing a higher frequency of incidents.
2. **Total Cost of Bird Strikes:** The financial impact of bird strikes is substantial, with costs varying across different airlines and regions.
3. **Airline Analysis:** Some airlines experience higher rates of bird strikes, suggesting areas where preventive measures could be focused.
4. **Yearly Trends:** The total cost and frequency of bird strikes show significant variation over the years, with certain years seeing sharp increases in incidents.
5. **Top 10 US Airlines:** The top 10 airlines with the most bird strikes reveal patterns, helping identify which airlines may need additional preventive protocols.
6. **Flight Phase at Time of Strike:** A detailed breakdown of bird strikes by flight phase reveals that strikes are more common during specific stages of flight, such as take-off or landing.
7. **Altitude Analysis:** Bird strikes occur at specific altitude ranges, providing insights into the safety measures required at different flight levels.
8. **Airport Locations:** Certain airports have a higher incidence of bird strikes, which may be due to local environmental or operational factors.