



Which Airline Demonstrated the Most Significant Revenue Growth Over a Four-Year Period?

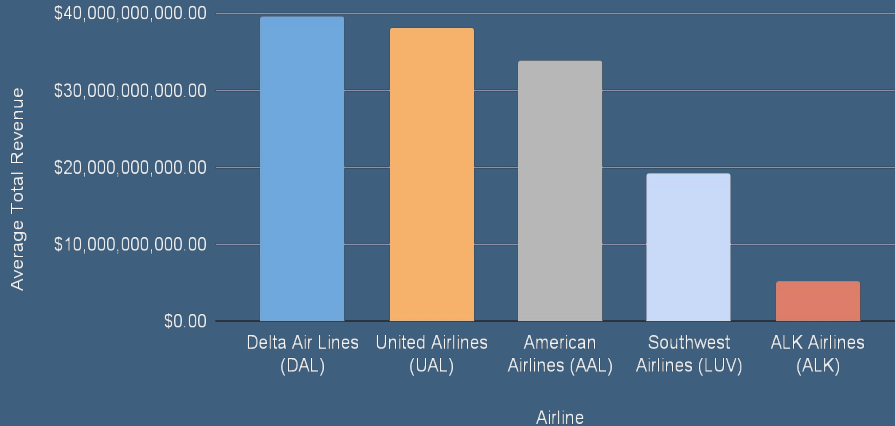
Udacity Project: New York Stock Exchange Analysis

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The Average Total Revenue of Each Airline



The Average Total Revenue of Each Airline Across a Four-Year Period

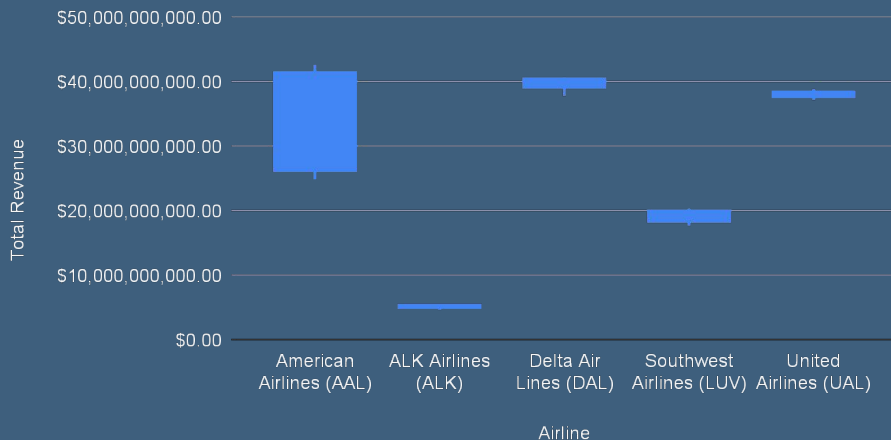


Delta Air Lines (DAL), United Airlines (UAL), and American Airlines (AAL) have **the highest average total revenue** over the four-year period, each averaging between \$33 to \$40 billion dollars.

Five Number Summary of Each Airline



Spread of Data of Each Airline Across a Four-Year Period



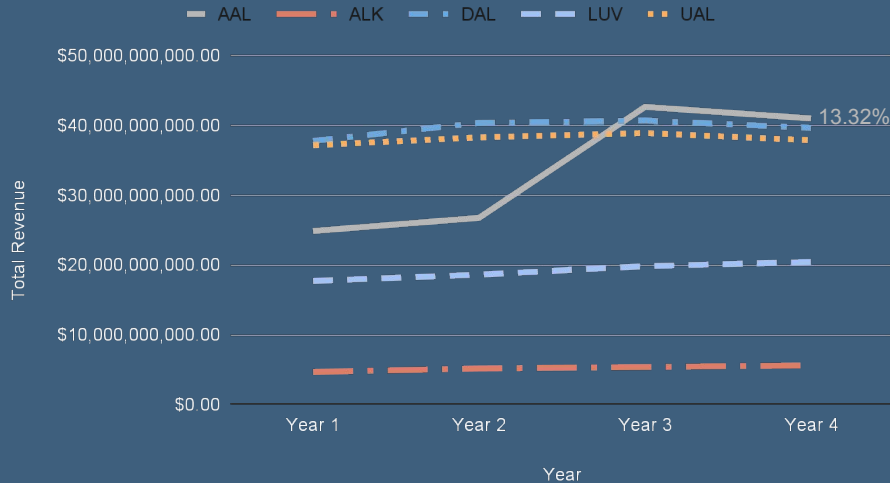
While **American Airlines (AAL)** ranks among the top 3 airlines in terms of total revenue, its **standard deviation** is notably **high at \$9,306,494,381.17**. This indicates that its total revenue is widely dispersed and spread out from the mean. Moreover, its **range** is also substantial at **\$17,795,000,000.00**, suggesting **a wide range of values in the American Airlines dataset** over the period.

In contrast, the **other airlines** have relatively **narrow ranges**, indicating that **their total revenues are more stable** throughout the period.

Revenue Growth Among Airlines Across a Four-Year Period



Revenue Growth Among Airlines Across a Four-Year Period



The variability in revenue for American Airlines is explained by the graph on the left, which shows that **American Airlines (AAL)** started with relatively moderate total revenue around \$26 billion in the first two years before **experiencing a drastic revenue growth in year 3**, where its total revenue surged to \$42,650,000,000.00.

This was further supported by the calculated **revenue growth rate of 13.32%** for American Airlines, which was the highest among all other airlines, which only had revenue growth rates around 0 to 5%.

This exponential revenue growth rate can be attributed to the **merger between American Airlines and US Airlines at the end of 2013** (end of Year 2), forming one of the largest airlines in the world (Rushe, 2013).

**Thank You
For Your Attention**



Resources



Google Sheets Link

- Tranova, T.H. (2024) *Udacity Project: New York Stock Exchange Analysis*, Google Sheets. Available at: <https://docs.google.com/spreadsheets/d/1wakuwWG3CGZPCh5--3m43n9Lf-2j1JcE6fglVHZOJGE/edit?usp=sharing> (Accessed: 17 March 2024).

Websites

- Rushe, D. (2013a) *American and US Airways officially merge to create World's biggest airline*, *The Guardian*. Available at: <https://www.theguardian.com/business/2013/dec/09/american-us-airways-merge-worlds-biggest-airlines> (Accessed: 17 March 2024).