High Cloud Airlines

Presented by group - 4

Meet

OUR TEAM!

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Introduction

- “To revolutionize the airline industry through data-driven insights and optimization”
- HighCloud Airline, a leading player in the aviation sector, has been at the forefront of providing seamless air travel experiences.
- Established with a commitment to excellence, HighCloud has consistently set industry standards in terms of reliability, safety, and customer satisfaction.
- Extensive network of routes spans across regions, connecting people and cultures, making HighCloud a preferred choice for millions of travelers globally.
- HighCloud embraces innovation and modern technology to enhance operational efficiency and stay at the forefront of the aviation landscape.

To gain a comprehensive understanding of "High Cloud Airlines" operations through data analysis. This will involve investigating load factors, identifying top carrier names based on passenger preference, analyzing popular routes, and exploring other key metrics. The ultimate goal is to provide actionable recommendations that can enhance operational efficiency and profitability.

Business Overview

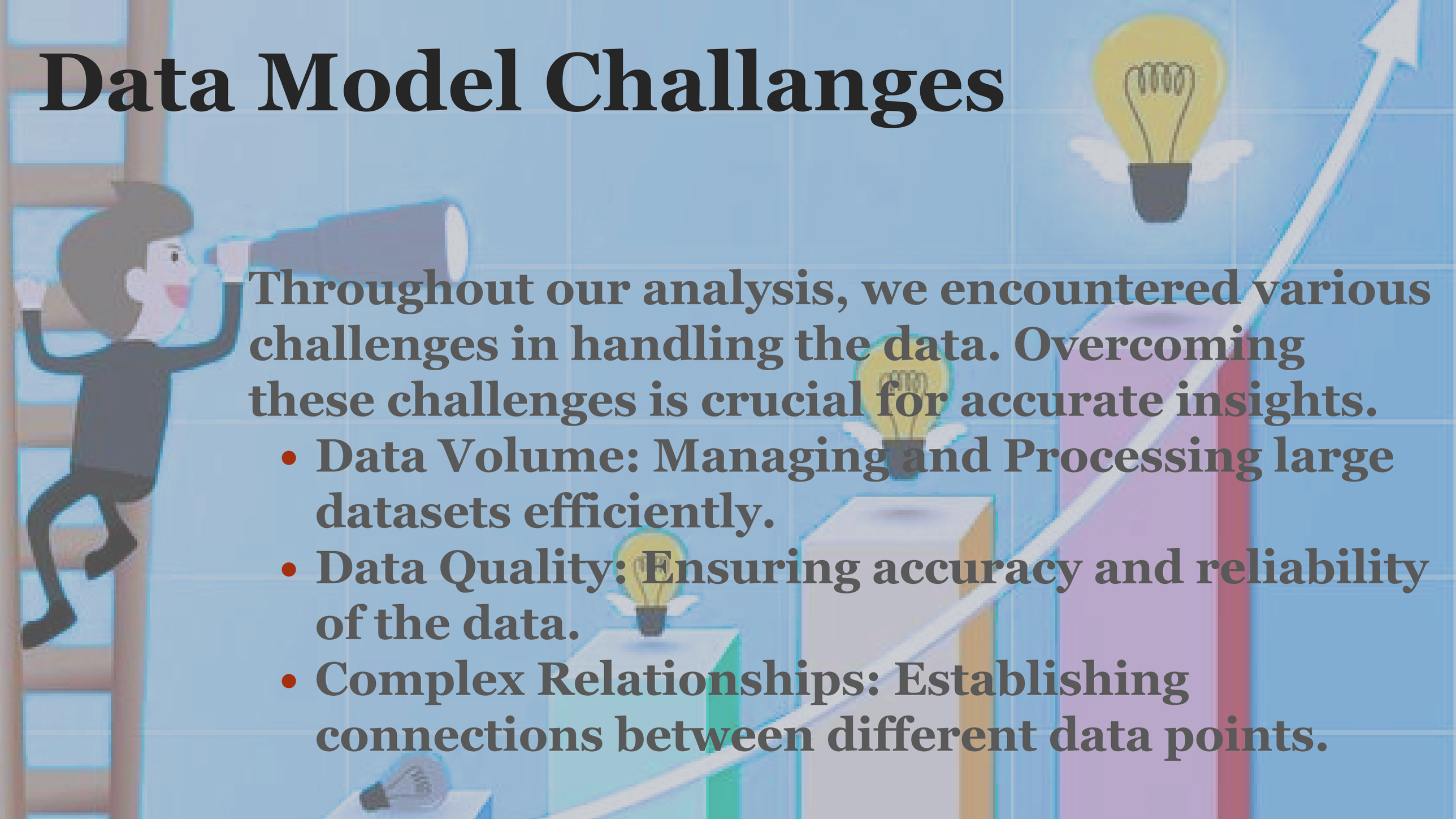
In today's competitive airline industry, data analysis plays a critical role in optimizing operations and maximizing profitability. By harnessing the power of data, High Cloud Airlines can gain valuable insights into various aspects of its business, allowing them to make data-driven decisions that can lead to

- Improved load factor
- Enhance Passenger Experience
- Optimized resource allocation
- Data –Driven Decision Making

The Project aimed to leverage the power of data analysis and extract valuable insights to optimize high cloud airline operations and performance. The specific scope of the project focused on analyzing key performance indicators (KPIs) to gain deeper understanding of:

- Load Factor
- Passenger Preferences
- Popular Routes
- Operational Efficiency

Data Model Challanges



Throughout our analysis, we encountered various challenges in handling the data. Overcoming these challenges is crucial for accurate insights.

- Data Volume: Managing and Processing large datasets efficiently.
- Data Quality: Ensuring accuracy and reliability of the data.
- Complex Relationships: Establishing connections between different data points.

Excel Dashboard

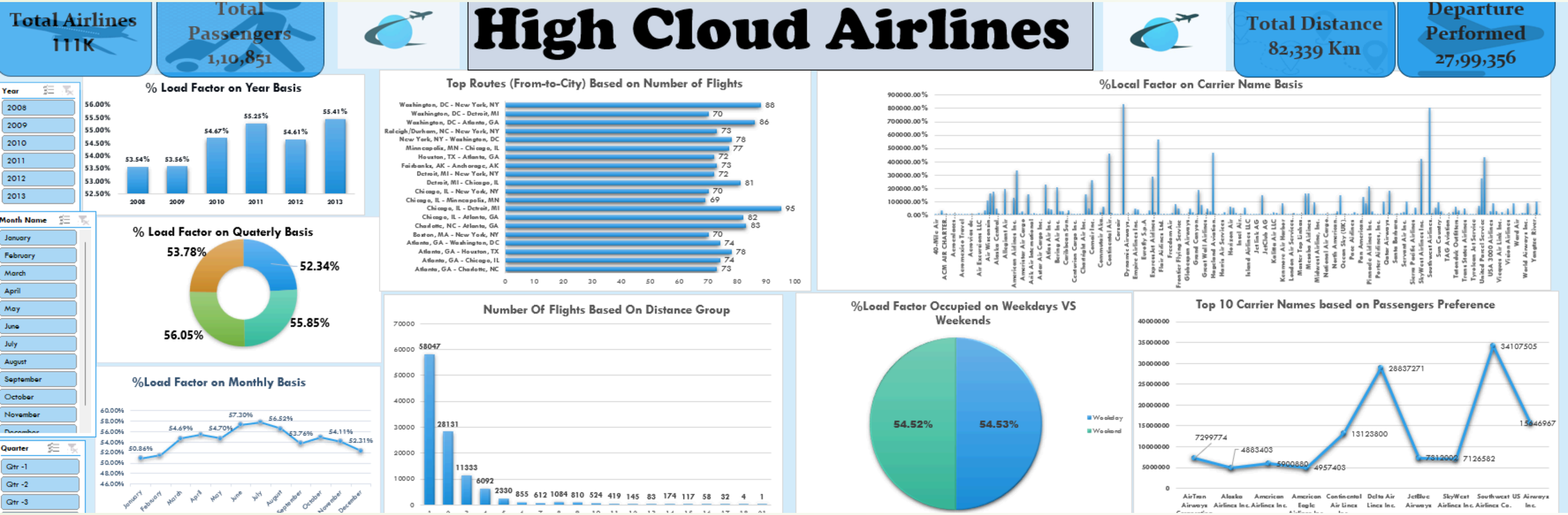
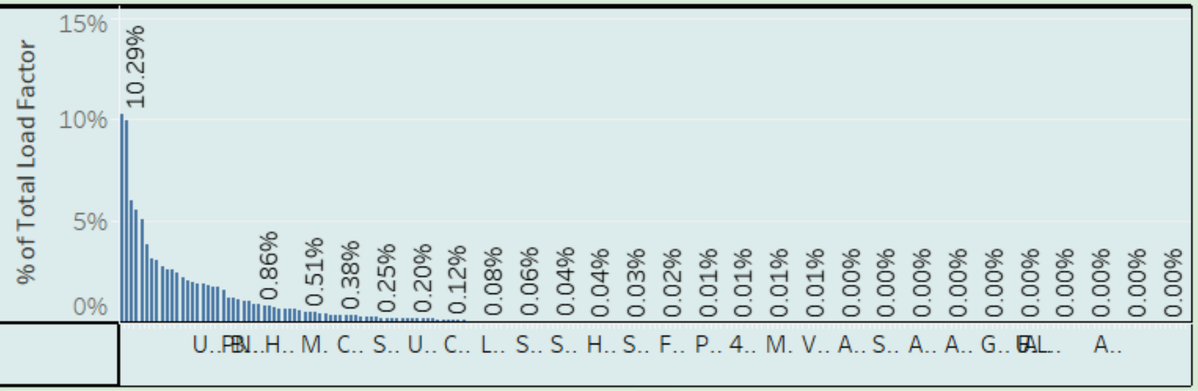


Tableau Dashboard

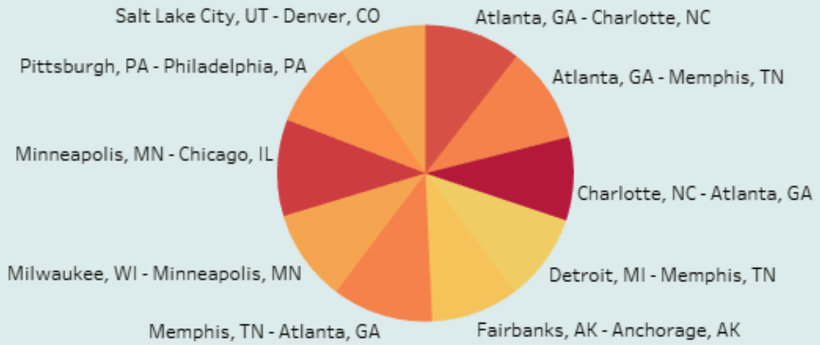
HIGH CLOUD AIRLINES

Total Airlines	Total City	Total Distance	Total Country	Total Passengers
207	1,296	82M	106	187M

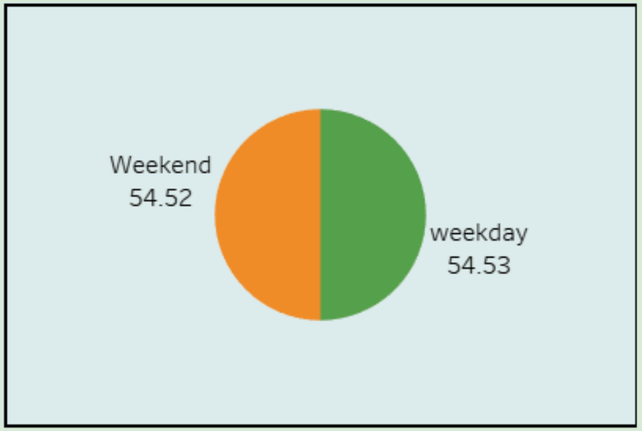
Load factor % on a carrier name basis



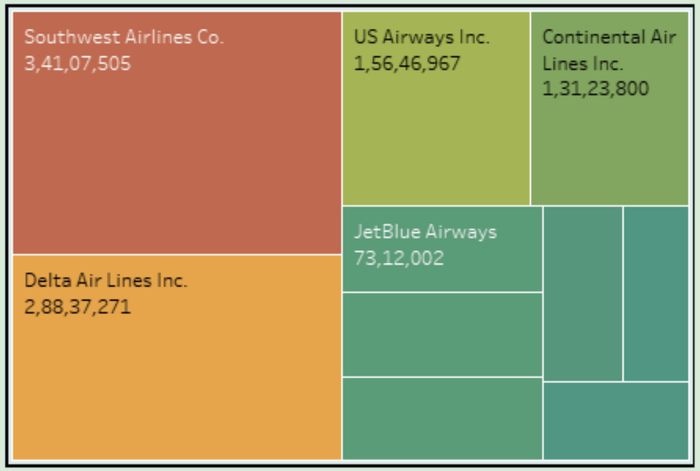
Display top routes based on number of flights



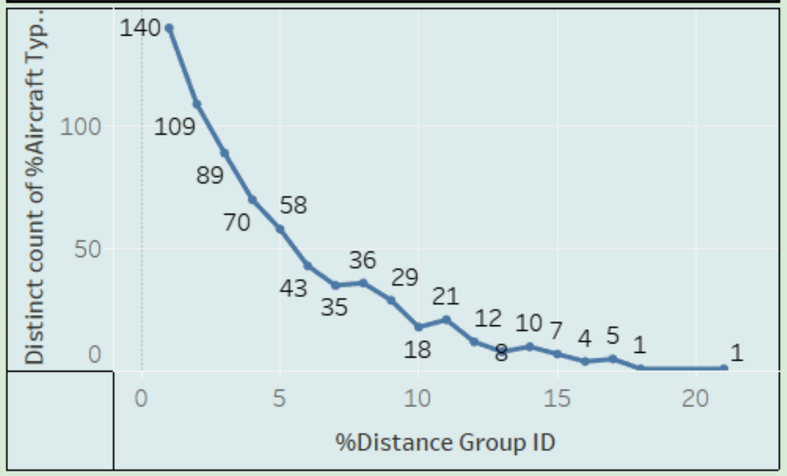
Load factor occupied weekend and weekdays



Carrier name based on passenger preference



Number of flights based on distance group



Carrier Name

(All)

Day name

- (All)
- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

Load Factor

0 — 622,016

Weekend & Weekdays

- (All)
- weekday
- Weekend

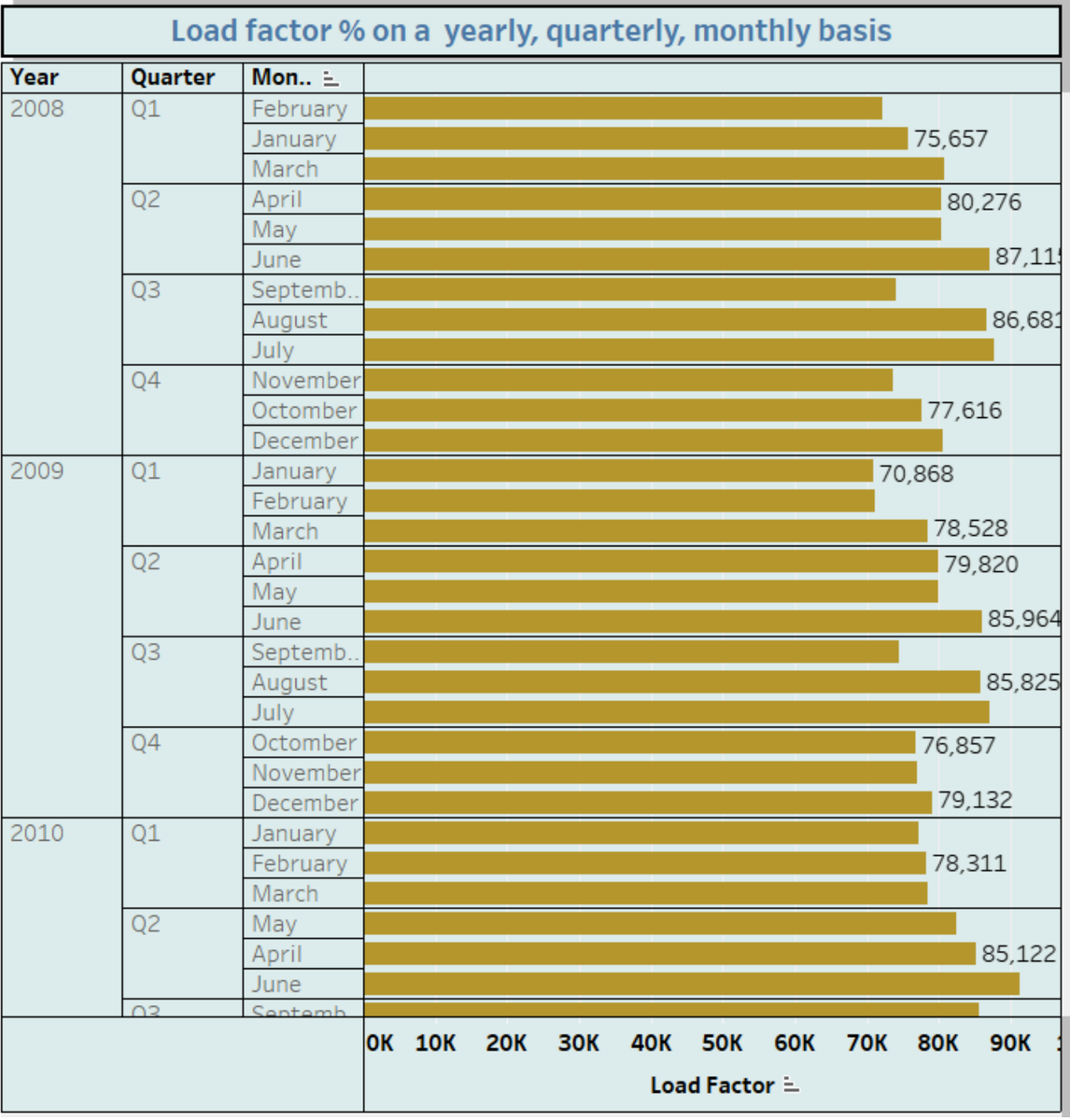
 # Transported Passengers

0 — 81970

High Cloud Airlines

Dashboard

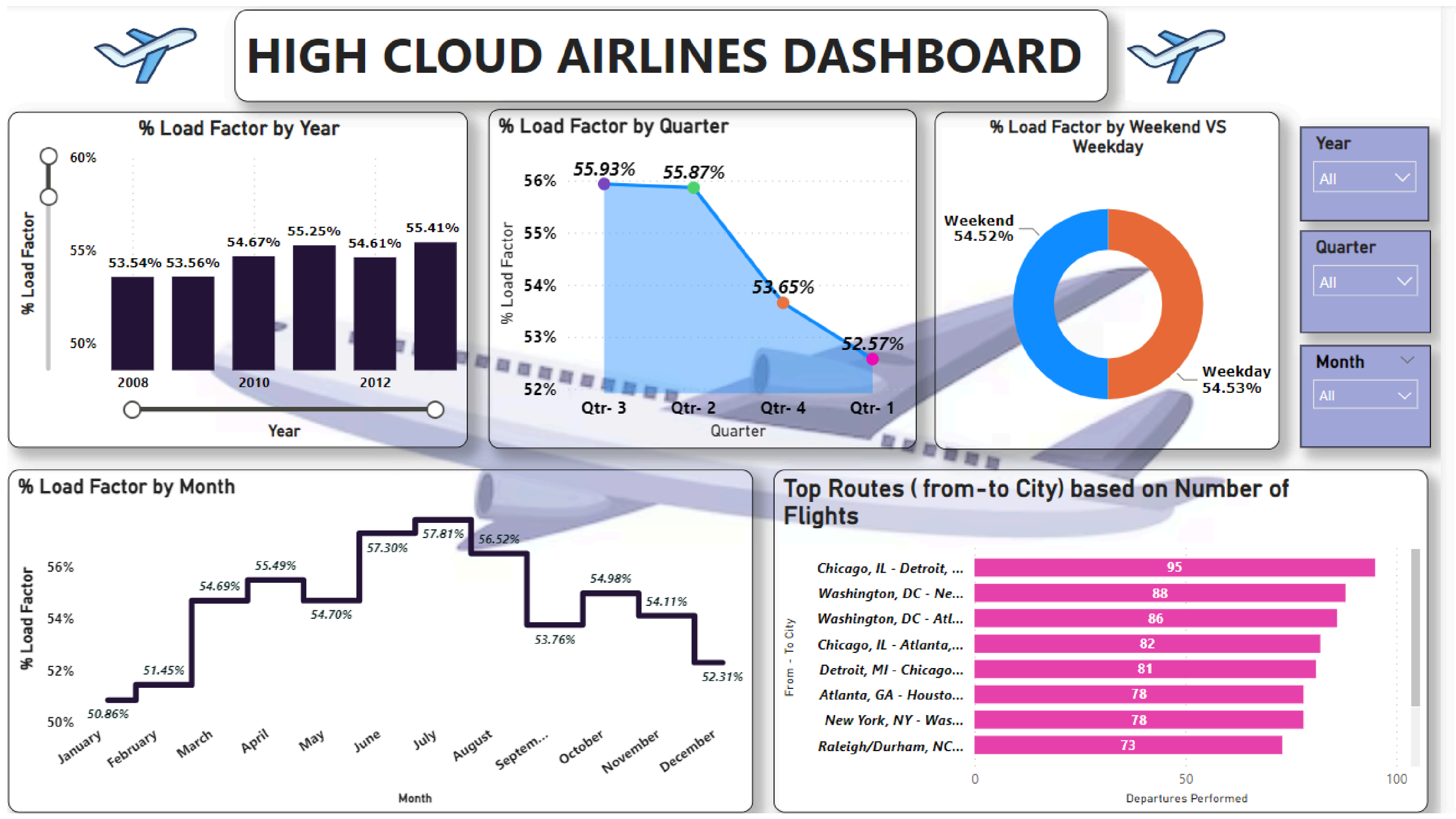
Load factor % on a yearly, quarterly, monthly basis



Date Sheet

Date	Day	Year	Month	Month name	Financia..	Day name	Day Number	Weekend & Wee..
1/6/2010	1	2010	6	June	Q1	Tuesday	3	weekday
1/6/2011	1	2011	6	June	Q1	Wednesday	4	weekday
1/6/2012	1	2012	6	June	Q1	Friday	6	weekday
1/6/2013	1	2013	6	June	Q1	Saturday	7	Weekend
1/7/2008	1	2008	7	July	Q2	Tuesday	3	weekday
1/7/2009	1	2009	7	July	Q2	Wednesday	4	weekday
1/7/2010	1	2010	7	July	Q2	Thursday	5	weekday
1/7/2011	1	2011	7	July	Q2	Friday	6	weekday
1/7/2012	1	2012	7	July	Q2	Sunday	1	Weekend
1/7/2013	1	2013	7	July	Q2	Monday	2	weekday
1/8/2008	1	2008	8	August	Q2	Friday	6	weekday
1/8/2009	1	2009	8	August	Q2	Saturday	7	Weekend
1/8/2010	1	2010	8	August	Q2	Sunday	1	Weekend
1/8/2011	1	2011	8	August	Q2	Monday	2	weekday
1/8/2012	1	2012	8	August	Q2	Wednesday	4	weekday
1/8/2013	1	2013	8	August	Q2	Thursday	5	weekday
1/9/2008	1	2008	9	September	Q2	Monday	2	weekday
1/9/2009	1	2009	9	September	Q2	Tuesday	3	weekday
1/9/2010	1	2010	9	September	Q2	Wednesday	4	weekday
1/9/2011	1	2011	9	September	Q2	Thursday	5	weekday
1/9/2012	1	2012	9	September	Q2	Saturday	7	Weekend
1/9/2013	1	2013	9	September	Q2	Sunday	1	Weekend
1/10/2008	1	2008	10	Octomber	Q3	Wednesday	4	weekday
1/10/2009	1	2009	10	Octomber	Q3	Thursday	5	weekday
1/10/2010	1	2010	10	Octomber	Q3	Friday	6	weekday
1/10/2011	1	2011	10	Octomber	Q3	Saturday	7	Weekend
1/10/2012	1	2012	10	Octomber	Q3	Monday	2	weekday
1/10/2013	1	2013	10	Octomber	Q3	Tuesday	3	weekday
1/11/2008	1	2008	11	November	Q3	Saturday	7	Weekend
1/11/2009	1	2009	11	November	Q3	Sunday	1	Weekend
1/11/2010	1	2010	11	November	Q3	Monday	2	weekday
1/11/2011	1	2011	11	November	Q3	Tuesday	3	weekday
1/11/2012	1	2012	11	November	Q3	Thursday	5	weekday

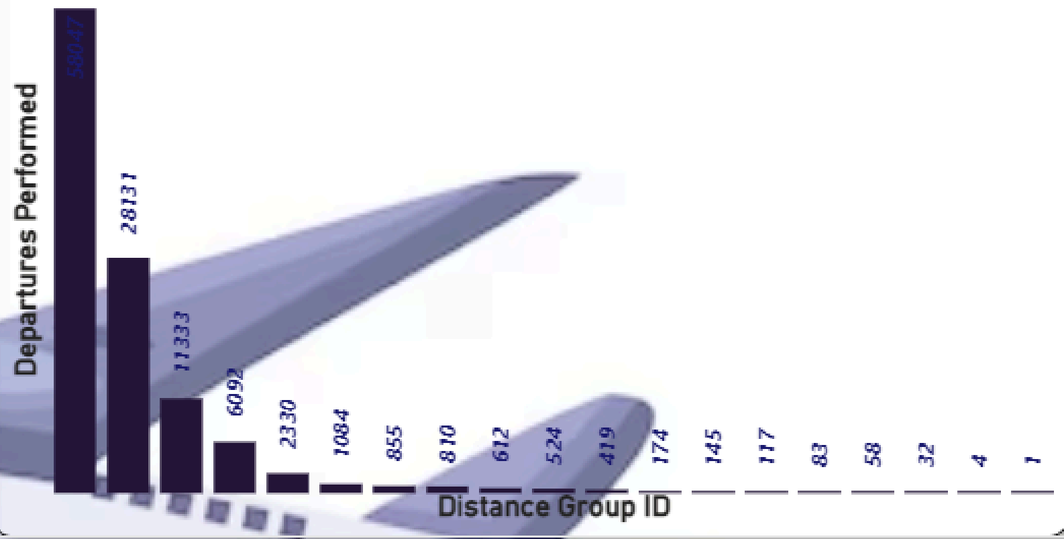
HIGH CLOUD AIRLINES DASHBOARD



HIGH CLOUD AIRLINES DASHBOARD

Year	Quarter	Month	Month No	Year-Month	WeekDay No	weekname	Financial Month	Financial Quarter
2008	Qtr 2	April	04	2008-04	1	Monday	1	Qtr- 1
2008	Qtr 2	April	04	2008-04	2	Tuesday	1	Qtr- 1
2008	Qtr 2	April	04	2008-04	3	Wednesday	1	Qtr- 1
2008	Qtr 2	April	04	2008-04	4	Thursday	1	Qtr- 1
2008	Qtr 2	April	04	2008-04	5	Friday	1	Qtr- 1
2008	Qtr 2	April	04	2008-04	6	Saturday	1	Qtr- 1
2008	Qtr 2	April	04	2008-04	7	Sunday	1	Qtr- 1
2009	Qtr 2	April	04	2009-04	1	Monday	1	Qtr- 1
2009	Qtr 2	April	04	2009-04	2	Tuesday	1	Qtr- 1
2009	Qtr 2	April	04	2009-04	3	Wednesday	1	Qtr- 1

Number of Flights Based On Distance Group ID



% of Load Factor by Carrier Name

ed d/b/a

Top 10 Carrier Names Based On Passengers Preference

Recommendations

- Optimize Fight Routes: Utilize insights from up routes and flights to Optimize schedule and resource allocation.
- Enhance Load Factor: Leverage load factor analysis to identify trends and implement strategies for increased efficiency.
- Stratergic Carrier Partnership: Collaborate with top carriers to maximize passenger transportation and enhance overall performance.
- Resourse Allocation: Allocate resources strategically based on flight schedules and passenger volume data. This ensures efficient operation and minimizes wait times at airports with high passenger traffic.

CONCLUSION

High Cloud Airlines empowers the aviation industry with actionable insights, foresting efficiency, and strategic decision–making. The presented KPIs offer a glimpse into the vast potential for improvement and growth within the industry. By harnessing the power of data, we can drive positive changes, ensuring a bright future for High Cloud Airlines and its partners in the aviation sector.


THANK
YOU