

e provided dataset, here are 200 questions that you can solve using Python libraries like Pandas, Seaborn, and Matplotlib.

General Data Exploration

What is the total number of flights in the dataset?
How many unique airlines are operating flights?
What is the range of flight dates available?
Which are the top 5 airlines with the most flights?
What is the distribution of flights by class (economy, business, etc.)?
What is the most common departure city?
What is the most common arrival city?
What is the average price of flights in the dataset?
What is the median price of flights?
What is the maximum price of flights?
What is the minimum price of flights?
What are the top 5 most common flight numbers?
What is the average flight duration?
Which airlines have flights with the longest durations?
Which airlines have the shortest average flight durations?
What is the percentage of flights that are non-stop?
How many unique departure cities are in the dataset?
How many unique arrival cities are in the dataset?
Which flight route (from-to) has the highest number of flights?
What is the average price of flights for each airline?

Analysis by Date

Which month has the highest number of flights?
Which day of the week has the most flights?
What is the average price of flights by day of the week?
What is the most expensive day of the week to fly?
What is the least expensive day of the week to fly?
What is the trend of average flight prices over time?
How many flights are there per day on average?
What is the distribution of flights by month?
How does the flight price trend over months?
How does the flight duration change over months?

Analysis by Airline

Which airline offers the cheapest flights on average?
Which airline offers the most expensive flights on average?
What is the average flight duration for each airline?
Which airline has the most non-stop flights?
Which airline has the most flights with stops?
What is the distribution of flight classes for each airline?
How does the average price vary by airline?
Which airline has the highest median flight price?
What is the trend of flight prices for each airline over time?
How does flight duration vary across airlines?

Analysis by Flight Class

What is the average price for each flight class?
What is the average flight duration for each class?
Which class has the most flights?
How does the price distribution look for each class?
How many flights in each class are non-stop?
How does the average price by class vary by month?
What is the median price for business class flights?
What is the median price for economy class flights?
What percentage of flights are business class?
What percentage of flights are economy class?

Analysis by Departure Time

What is the most common departure time?
What is the distribution of departure times throughout the day?
Which airlines have flights departing in the early morning?

Which airlines have the most evening flights?
What is the average price of flights departing in the morning?
What is the average price of flights departing in the afternoon?
How does flight duration vary by departure time?
What is the trend of flight prices by departure hour?
How does the number of flights vary by hour of departure?
What is the distribution of non-stop flights by departure time?
Analysis by Arrival Time
What is the most common arrival time?
What is the distribution of arrival times throughout the day?
Which airlines have flights arriving in the late evening?
What is the average price of flights arriving in the morning?
How does flight duration vary by arrival time?
What is the trend of flight prices by arrival hour?
How does the number of flights vary by hour of arrival?
What is the distribution of non-stop flights by arrival time?
How many flights arrive within 1 hour of departure?
What is the most common arrival time for each airline?
Analysis by Duration
What is the distribution of flight durations?
Which airlines have the shortest average duration?
What is the relationship between duration and price?
What is the average duration for flights with 1 stop?
What is the average duration for non-stop flights?
How does duration vary by departure hour?
Which routes have the longest average duration?
Which routes have the shortest average duration?
What percentage of flights are shorter than 2 hours?
What percentage of flights are longer than 4 hours?
Price Analysis
What is the distribution of flight prices?
What is the most common price range for flights?
How does price vary by the number of stops?
What is the average price of flights from each departure city?
What is the average price of flights to each arrival city?
Which route has the highest average price?
Which route has the lowest average price?
How does the number of stops affect flight price?
How does price vary by flight class and departure time?
How does the price vary by departure and arrival city pairs?