Air Traffic Passenger Statistics

🔗 Data Description:

This dataset about San Francisco International Airport Report on Monthly Passenger Traffic Statistics by Airline. Data is self-reported by airlines and is only available at a monthly level. Data is updated quarterly . Airport data is seasonal in nature, therefore any comparative analyses should be done on a period-over-period basis (i.e. January 2010 vs. January 2009) as opposed to period-to-period (i.e. January 2010 vs. February 2010) . The dataset have 46671 rows and 12 columns .

The columns :

Column Name	Definition
Activity Period	The year and month at which passenger activity took place.
Operating Airline	Airline name for the operator of aircraft with passenger activity.
Operating Airline IATA Code	The International Air Transport Association (IATA) two-letter designation for the Operating Airline.
Published Airline	Airline name that issues the ticket and books revenue for passenger activity.
Published Airline IATA Code	The International Air Transport Association (IATA) two-letter designation for the Published Airline.
GEO Summary	Designates whether the passenger activity in relation to SFO arrived from or departed to a location within the United States ("domestic"), or outside the United States ("international") without stops
GEO Region	Provides a more detailed breakdown of the GEO Summary field to designate the region in the world where activity in relation to SFO arrived from or departed to without stops.
Activity Type Code	A description of the physical action a passenger took in relation to a flight, which includes boarding a flight ("enplanements"), getting off a flight ("deplanements") and transiting to another location ("in-transit").
Price Category Code	A categorization of whether a Published Airline is a low-cost carrier or not a low-cost carrier.
Terminal	The airport terminal designations at SFO where passenger activity took place.
Boarding Area	The airport boarding area designations at SFO where passenger activity took place
Passenger Count	The number of monthly passengers associated with the above attribute fields.

🔗 Question/need:

1- 1-The five most visited countries in 2020?

2-What is the expected increase in the number of passengers by years ?

3- What is the most month in which the number of passengers was high ?

4-What is the most crowded Terminal in 2020 ?

🔗 Tools:

1 – GitHub : To upload project files .

2- Jupyter : To write the code

3- Python : The language in which the code will be written. Some important libraries will be used, including:
   1- Pandas .
   2- Matplotlib.
   3- Seaborn.