Airlines Data Analysis

DPP - 10

Problem:

The goal of this assignment is to perform data analytics on airline data using MySQL. You will be provided with three CSV files: airlines.csv, airports.csv, and flights.csv. You are required to import these files into MySQL, create appropriate tables, and perform various SQL queries to analyze the data. We will be working with a dataset of commercial flights information for the year 2015.

Database:

🖹 Airline Database

Tasks:

Write the SQL statements to get the results for the following queries:
1. List All Airlines
2. Count the Number of Airports in Each Country.
3. Find Flights with a Duration Longer than 5 Hours.
4. Find the Top 10 Longest Flights by Duration.
5. What is the IATA_CODE for the airline that had greatest number of flights in 2015?
6. What is the name of the airline that had the greatest number of flights in 2015?
7. On which day of the week were there the greatest number of flights?
8. On which day of the week was there the least number of flights?
9. On which day of the year 2015 did Delta Airlines have the greatest number of flights?
10. What is the name of the airline that had the least number of flights during 2015?
11. Which airline had the greatest average "departure delay" times?
12. Which ten airports were the most frequent destination airport?
13. Which ten airports where the most frequent originating flights?
14. Which airline had the greatest percentage of "departure delay" flights?
15. Find All Airports in the State of California.
16. List All Flights with a Distance Greater Than 1000 Miles.
17. Top 5 Airlines with Most Flights.
18. Total Number of Flights from Each Airport.
19. Average Flight Duration for Each Airline.
20. Top 5 Longest Flights by Distance.

Submit an SQL file containing the table creation, data import statements, and the data analysis queries.