

## Programming Assignment: Airlines Routes - Part 1 - Setup

You have not submitted. You must earn 80/100 points to pass.

It looks like this is your first programming assignment. [Learn more](#)



**Deadline** Pass this assignment by Oct 21, 8:59 AM CEST

**Instructions** [My submission](#)

[Discussions](#)

## Airlines Routes

Through this course we will develop a full linked view visualization that will allow our users to explore where in the world the top 20 airlines with most routes operate. In each week we will build a step towards this final solution. Therefore it is important that you keep your solutions for each step, as the solution for the current week will be the starter point to the next week.

### Dataset

Our dataset is a CSV file containing 23041 lines, where each line represents one airplane route. Each route contains information from the airport of origin, destination and airline. Bellow we have an example of a route.

routes.csv

Field	Value
ID	1
AirlineID	24
AirlineName	American Airlines
SourceAirportID	4355
SourceAirport	Lehigh Valley International Airport
SourceLatitude	40.65209961
SourceLongitude	-75.44080353
DestAirportID	3876
DestAirport	Charlotte Douglas International Airport
DestLatitude	35.2140007
DestLongitude	-80.94309998

### Questions

Our goal is to use this dataset to answer questions like:

1. What are the airlines with more routes, and how does the distribution looks like? Are there airlines with many more routes than others?
2. Which regions of the world do these airlines cover?
3. Does a given airline operate in a regional or intercontinental scale?

### Final Solution

To answer these and other questions, we will build an interactive system that allow users to explore this dataset, below is a screenshot of how the system should look by the last week of this course.