**Case Study**

We need to create an end to end flow of data in the following way:

We have two files:

1. Airports.csv
2. Flight\_Data.csv

Files attached here with all schema and data creation script:



Tasks to be performed:

* Run the script “Script.sql” attached above in the zipped folder “Airlines Data.7z” to create Hub\_Airport, Hub\_Flight1, Link table and Sat\_Airport, Sat\_Flight1.
* Then Load that data into the Analysis Services Tabular model project from SQL db.
* Clean the dataset, remove any non-required columns, import the data into the tabular model project
* Create the relationship between the tables
* Create some measures/Calculated Columns using DAX queries in AAS:
  + Total No. of different flights running.
  + Create Hierarchy:
    - Country
    - State
    - City
  + Flights going to particular country
  + Flights going to state
  + Flights going to a city.
  + Perform calculation to Identify Regional/International Airport.
  + Flights going to every State.
  + Find Different Airlines Available
  + Which Airline has the maximum running flights
  + No of Airports in the city AZ, DE, and NY.
  + Create Hierarchy for Airlines and its flight numbers.
* After successfully creating all measures and calculated columns, deploy the tabular model and browse the model in SSMS or in Excel and Get all the possible insights.