

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:



Airlines Data.7z

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.