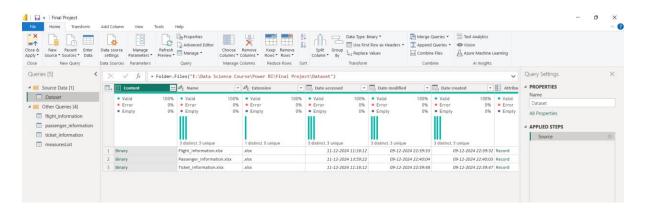
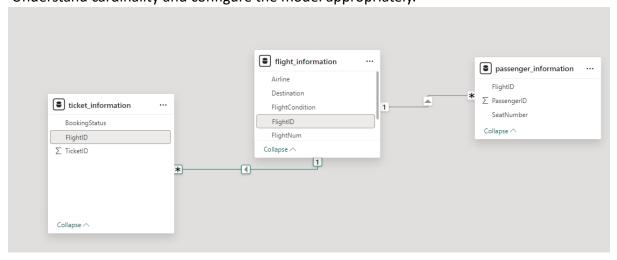
# Airline Data Management and Analysis Using Power BI Video Explanation Link:

https://drive.google.com/file/d/1ZexPCKqCDrAA70cN Q57cmh-d7ljPyT82/view?usp=sharing

- 1. Data Preparation and Cleaning
  - a. Extract and transform data in Power Query.
  - b. Clean data: remove duplicates, handle missing values, and format columns.

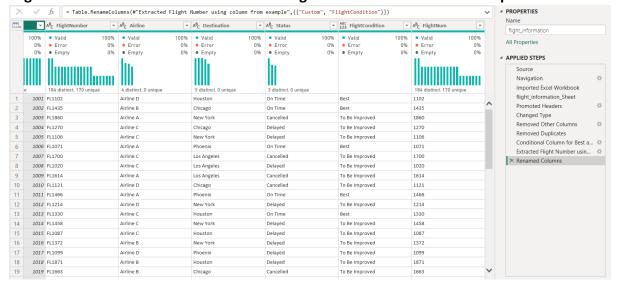


- 2. Data Modelling
  - a. Create relationships between datasets (FlightID as the key).
  - b. Understand cardinality and configure the model appropriately.



- 3. Enhanced Data Insights
  - a. Add a conditional column to classify flights as "Best" or "To Be Improved" based on status.

- b. Use "Column from Examples" to extract the flight number from FlightNumber
- c. Flight Condition -> Conditional Column & Flight Num is Column from Example



## 4. Calculations Using DAX

a. Total passengers for a specific flight.



b. Total tickets booked.



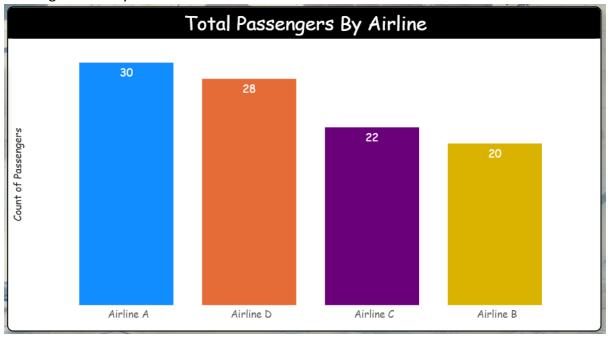
totalTicket = COUNTROWS(ticket\_information)

Filtered table showing "Best" flights only.

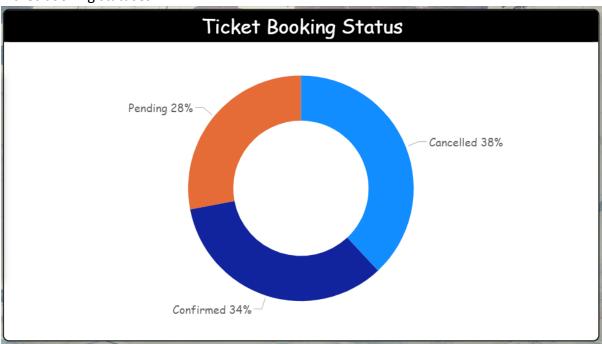
```
1 BestFlights =
             2
                FILTER (
             3
                    flight_information,
             4
                    flight_information[FlightCondition] = "Best"
             5
             6
                                                                                           FlightNum •
FlightID ▼ FlightNumber
                           ▼ Airline ▼
                                           Destination
                                                           Status 🔻
                                                                       FlightCondition •
      1001 FL1102
                               Airline D
                                                                                           1102
                                           Houston
                                                            On Time
                                                                       Best
      1002 FL1435
                               Airline B
                                           Chicago
                                                           On Time
                                                                       Best
                                                                                           1435
      1006 FL1071
                               Airline A
                                           Phoenix
                                                            On Time
                                                                                           1071
                                                                       Best
      1011 FL1466
                               Airline A
                                                            On Time
                                           Phoenix
                                                                       Best
                                                                                           1466
      1013 FL1330
                               Airline C
                                           Houston
                                                            On Time
                                                                       Best
                                                                                           1330
      1020 FL1130
                               Airline A
                                           New York
                                                           On Time
                                                                       Best
                                                                                           1130
                                                            On Time
      1023 FL1769
                               Airline A
                                           Chicago
                                                                       Best
                                                                                           1769
      1025 FL1491
                               Airline D
                                           Phoenix
                                                            On Time
                                                                       Best
                                                                                           1491
      1027 FL1805
                                                           On Time
                                                                                           1805
                               Airline D
                                           Chicago
                                                                       Best
                                                            On Time
      1028 FL1385
                               Airline D
                                           Chicago
                                                                       Best
                                                                                           1385
      1029 FL1191
                               Airline D
                                           Los Angeles
                                                            On Time
                                                                       Best
                                                                                           1191
      1030 FL1955
                               Airline B
                                                           On Time
                                           Phoenix
                                                                       Best
                                                                                           1955
      1031 FL1276
                               Airline B
                                           New York
                                                           On Time
                                                                                           1276
                                                                       Best
      1033 FL1459
                               Airline D
                                           New York
                                                           On Time
                                                                       Best
                                                                                           1459
      1034 FL1313
                                           Phoenix
                                                           On Time
                               Airline B
                                                                       Best
                                                                                           1313
      1036 FL1252
                               Airline D
                                           Phoenix
                                                            On Time
                                                                                           1252
                                                                       Best
      1039 FL1560
                               Airline B
                                           Chicago
                                                            On Time
                                                                       Best
                                                                                           1560
      1043 FL1681
                               Airline C
                                           Houston
                                                           On Time
                                                                       Best
                                                                                           1681
```

### 5. Visualization and Interactive Features

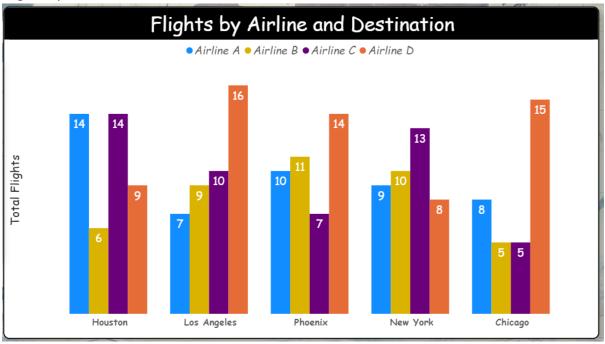
a. Passenger count by airline.



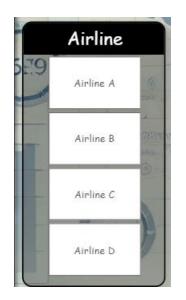
b. Ticket booking statuses.

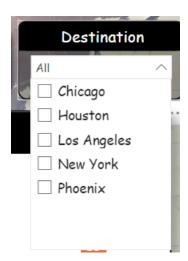


c. Flights by airline and destination.

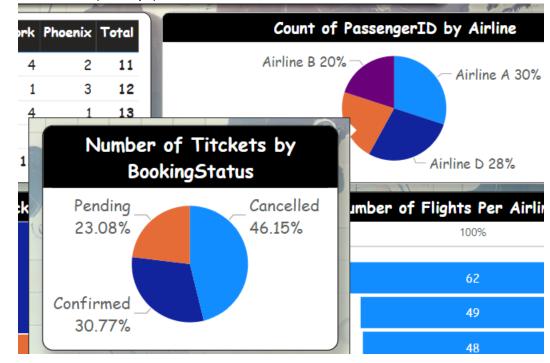


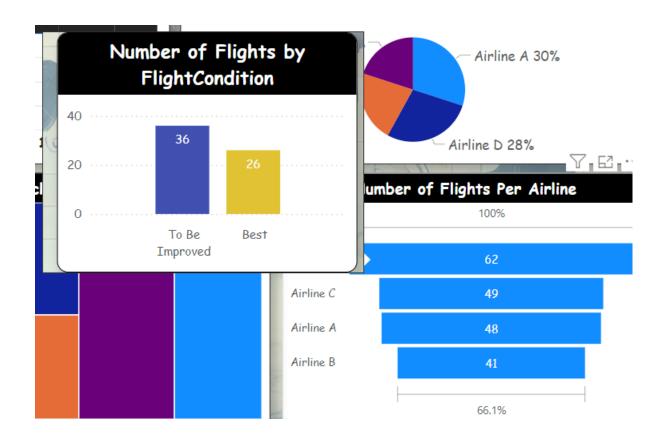
d. Destination and Airline(Filters)



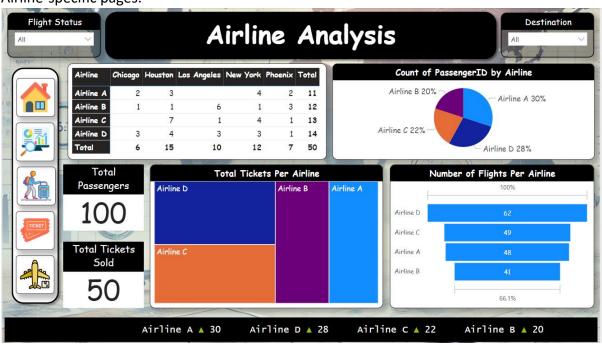


# e. Quickviews (ToolTips)





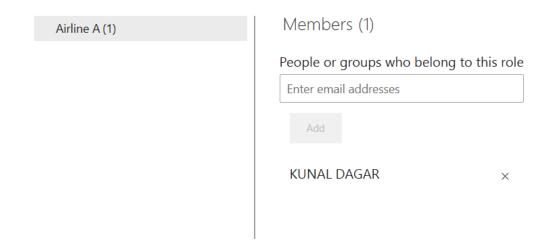
f. Airline-specific pages.

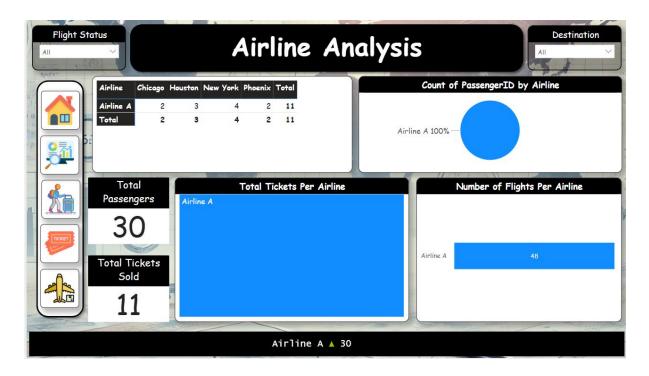


- 6. Final Dashboard and Power BI Service
  - a. Design a comprehensive dashboard with key visuals and insights.



b. Configure Row-Level Security (RLS) for Airline A data and assign it to a user.
 Row-Level Security





# c. Set up a schedule refresh at 5 PM daily

△ Refresh Time zone ① Time zone configuration is applied not only to determine the schedule refresh time but also to establish the current date and time for incremental refresh models during on-demand and API refreshes.Learn more (UTC+05:30) Chennai, Kolkata, Mumk 🗸 Configure a refresh schedule Define a data refresh schedule to import data from the data source into the semantic model. Learn more Refresh frequency Daily ~ Time 5 **v** 00 **v** PM **v** X Add another time