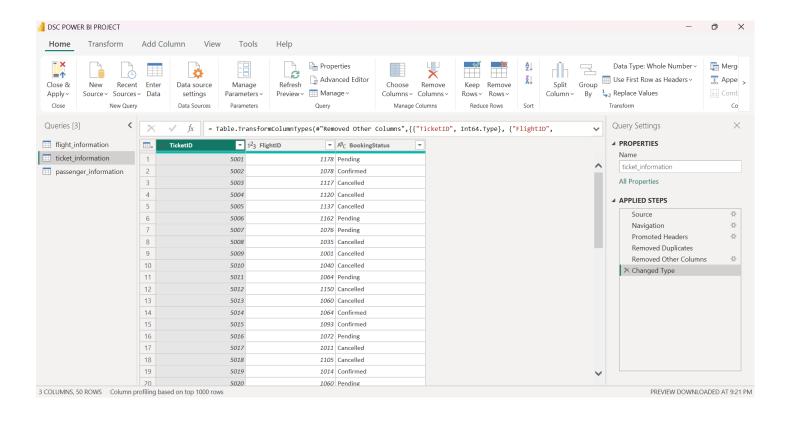
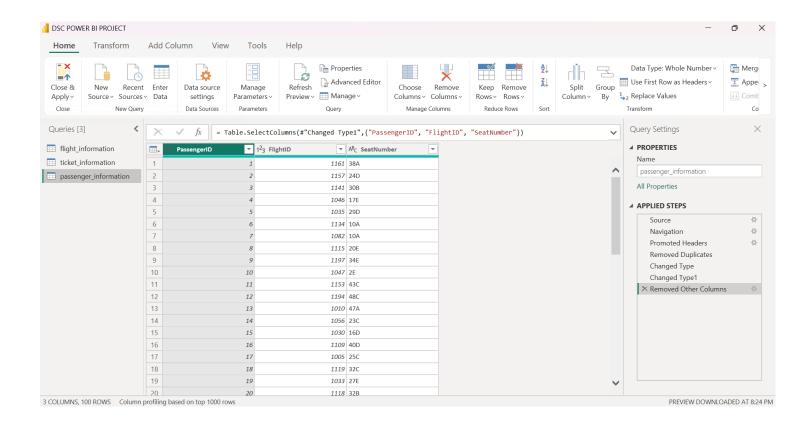
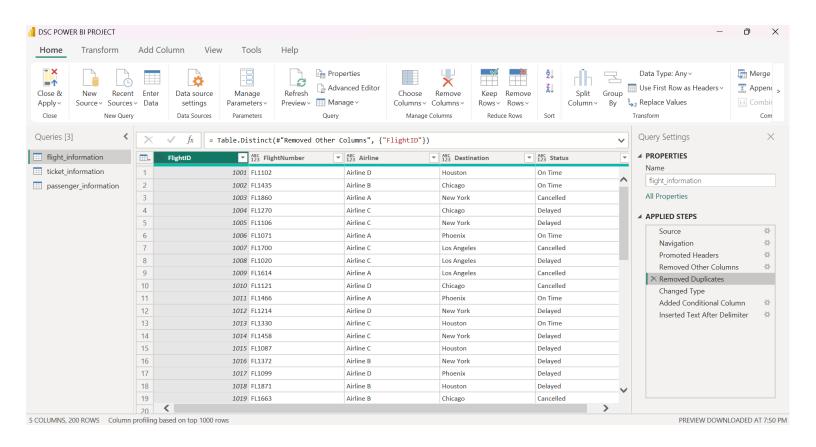
### Task 1. Data Preparation and Cleaning

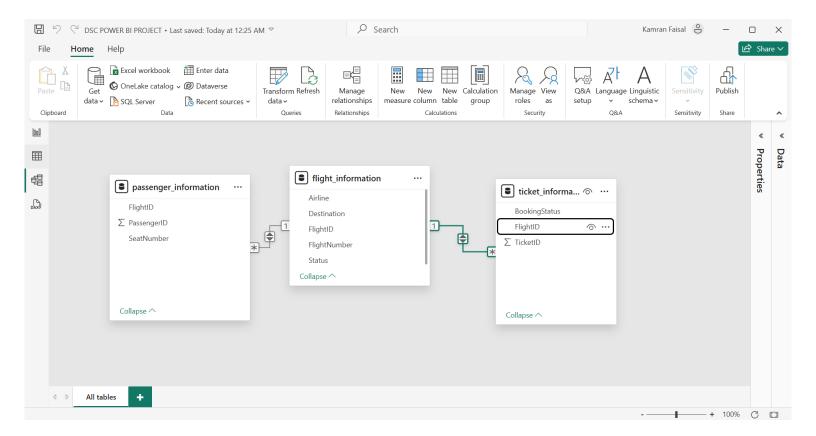






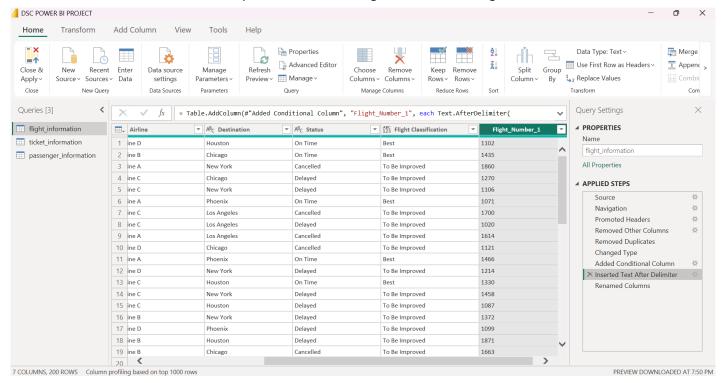
# 2. Data Modeling

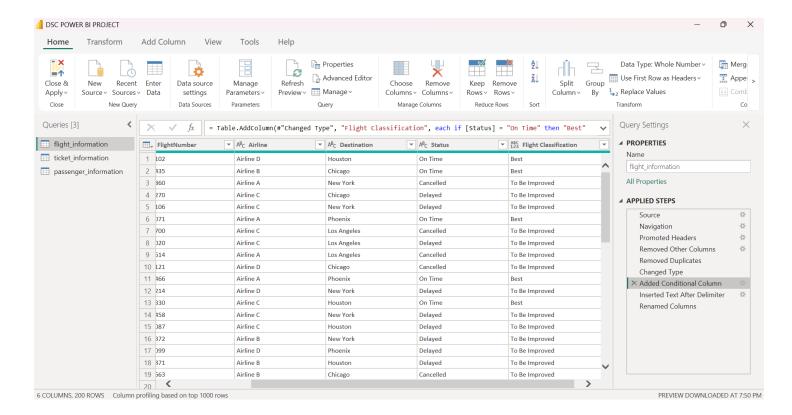
- Create relationships between datasets (FlightID as the key).
- Understand cardinality and configure the model appropriately.



#### 3. Enhanced Data Insights

- Add a conditional column to classify flights as "Best" or "To Be Improved" based on status
- Use "Column from Examples" to extract the flight number from FlightNumber.

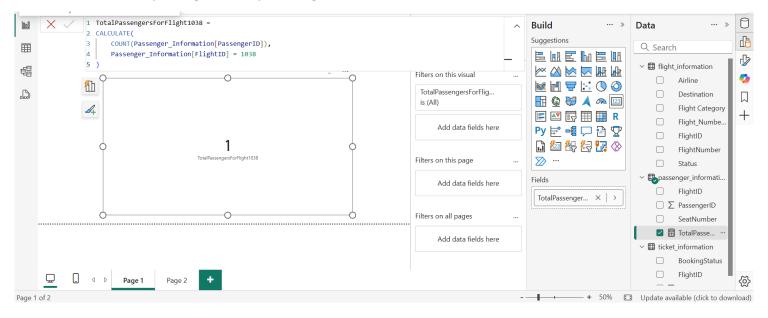




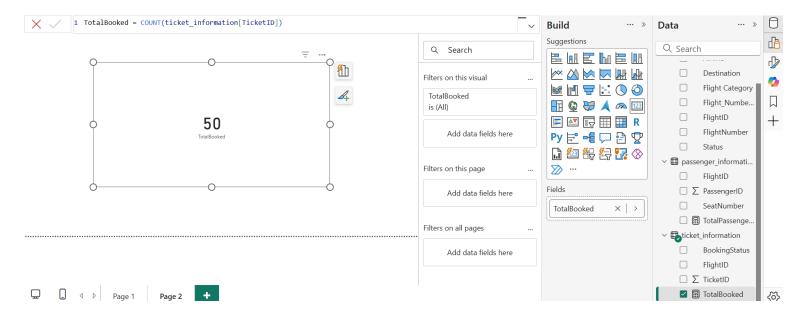
### 4. Calculations Using DAX

#### Calculate:

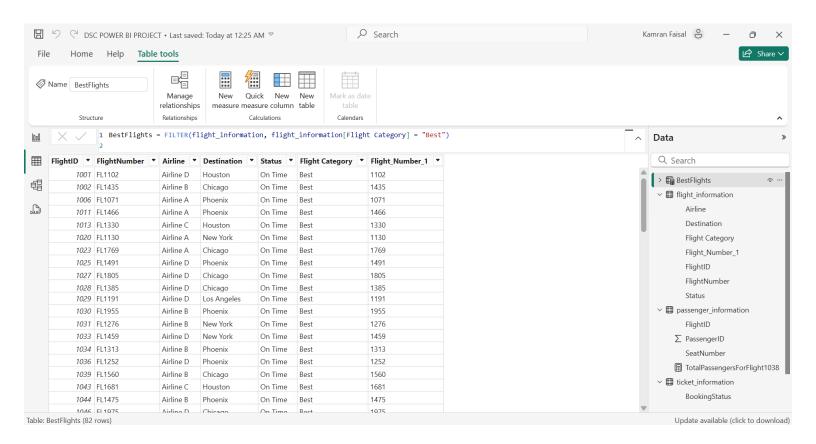
• Total passengers for a specific flight.



Total tickets booked.



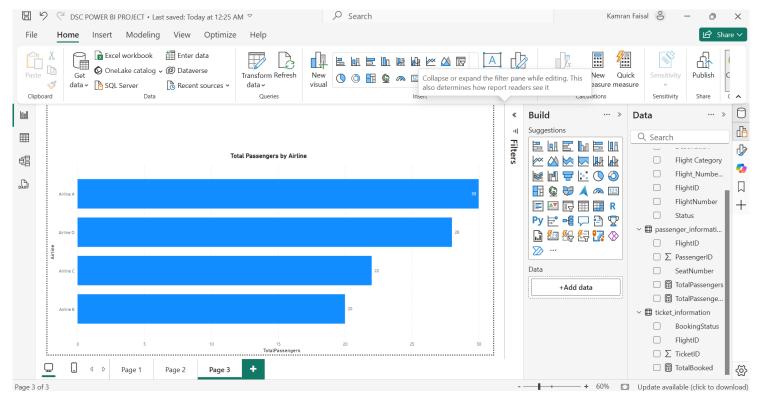
• Filtered table showing "Best" flights only.



#### 5. Visualization and Interactive Features

Create visuals for:

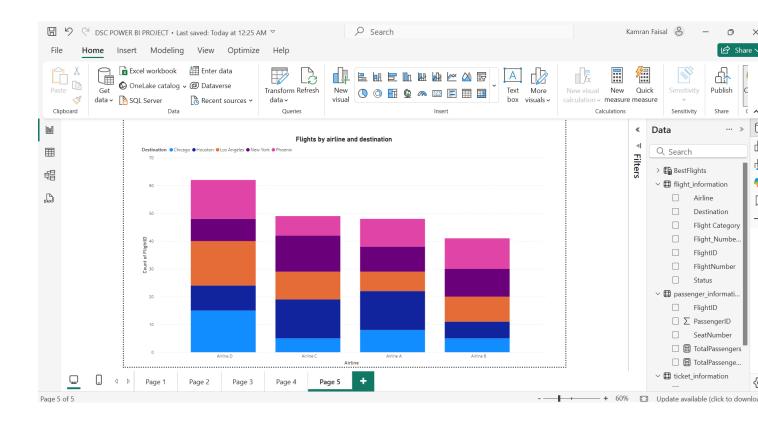
o Passenger count by airline.



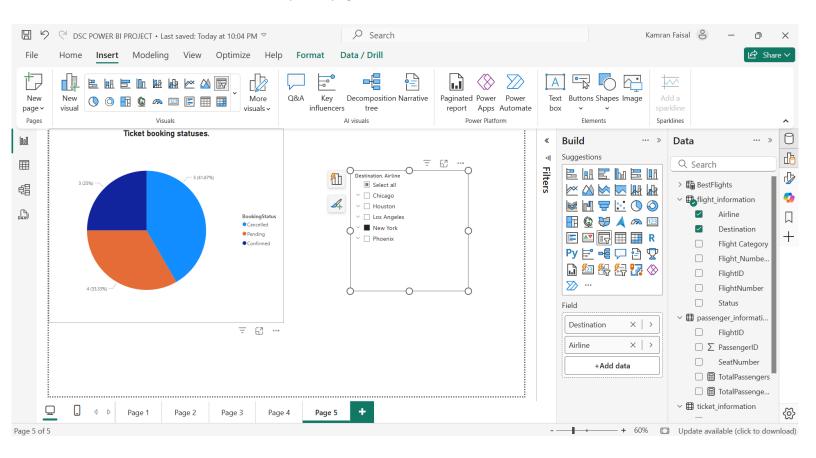
Ticket booking statuses.

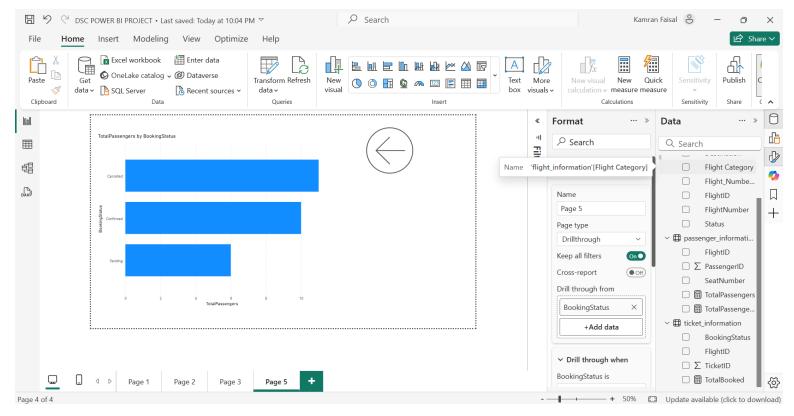
☐ 🦻 C DSC POWER BI PROJECT • Last saved: Today at 12:25 AM ▽ ∠ Search Kamran Faisal Home Insert Modeling View Optimize Help Format Data / Drill Share ∨ File 🛣 Excel workbook 🏥 Enter data © OneLake catalog ▼ © Dataverse X fx Transform Refresh Text More New visual New Ouick Publish **3** data v 🔓 SQL Server Recent sources > box visuals ✓ data v calculation - measure measure Clinhoard Ouerie Calculations Sensitivity Share 0 Build Data 000 = 63 ď Suggestions Ticket booking statuses. 41 **6** Q Search  $\blacksquare$ **₽** 铝 4 Flight Category 0 Flight\_Numbe.. D FlightID FlightNumber +**□ □ □ □ R** Status Py 🔁 📲 🖵 🖺 😨 passenger\_informati... ☐ FlightID  $\sum$  □ ∑ PassengerID Legend ☐ SeatNumber ☐ 🖩 TotalPassengers BookingStatus X > ☐ ☐ TotalPassenge... ticket\_information ✓ BookingStatus Values ☐ FlightID Count of Ticke... X > ✓ TicketID +Add data ☐ ☐ TotalBooked 0 D Page 1 Page 2 Page 3 <0>> Page 4 of 4 + 60% 🖸 Update available (click to download)

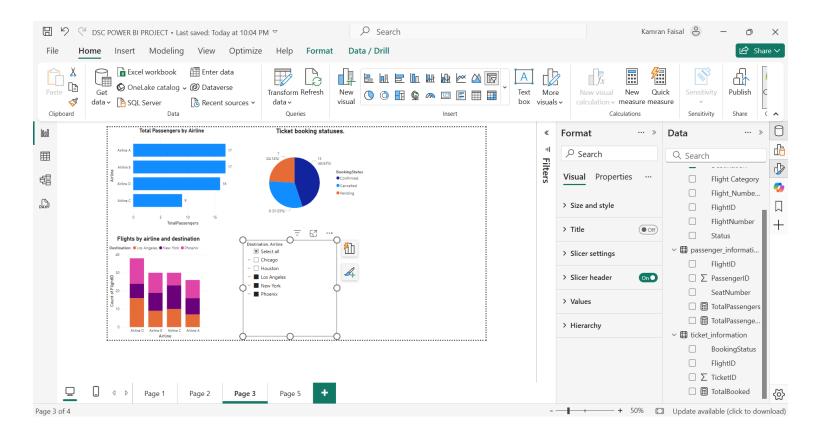
## • Flights by airline and destination

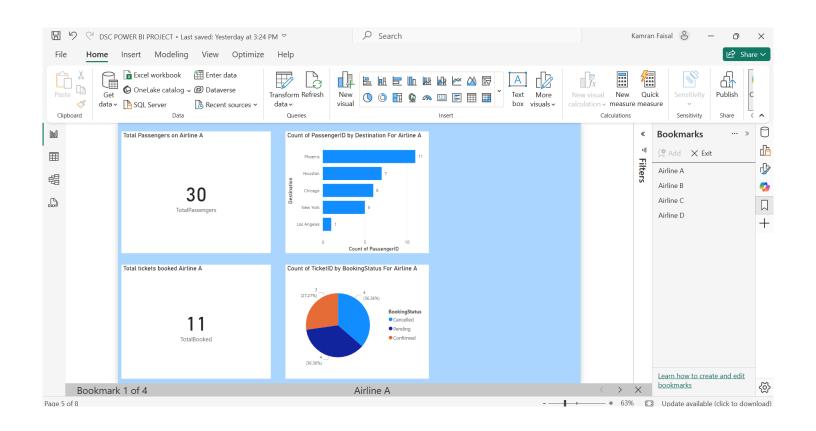


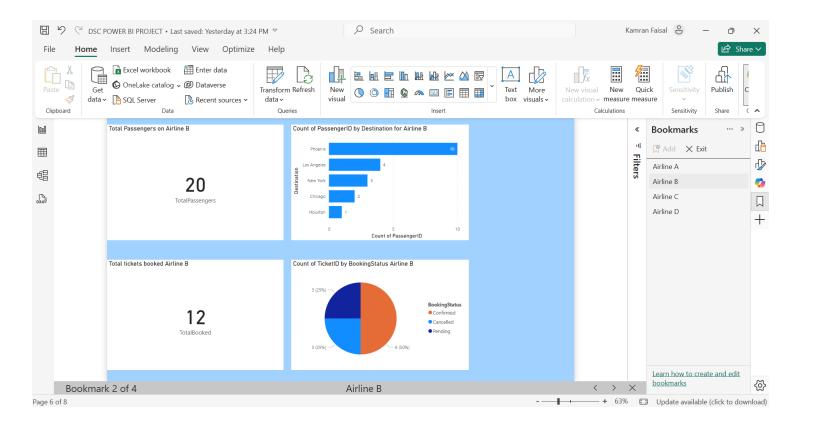
- Add interactive features for:
  - Destination and Airline.
  - o Quick views.
  - Airline-specific pages.

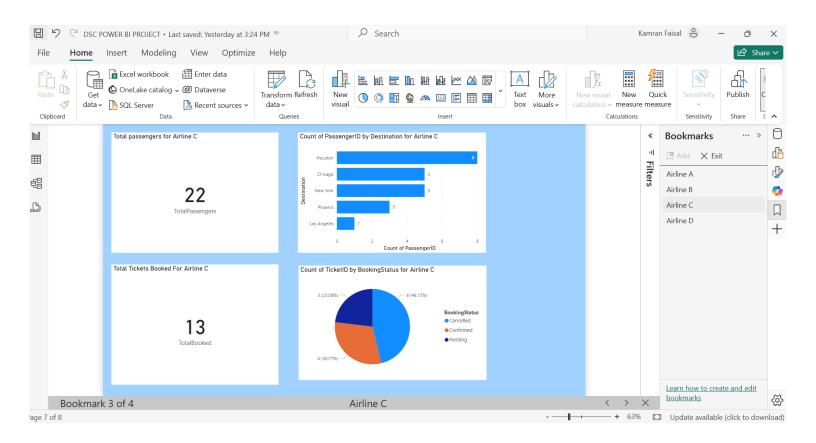


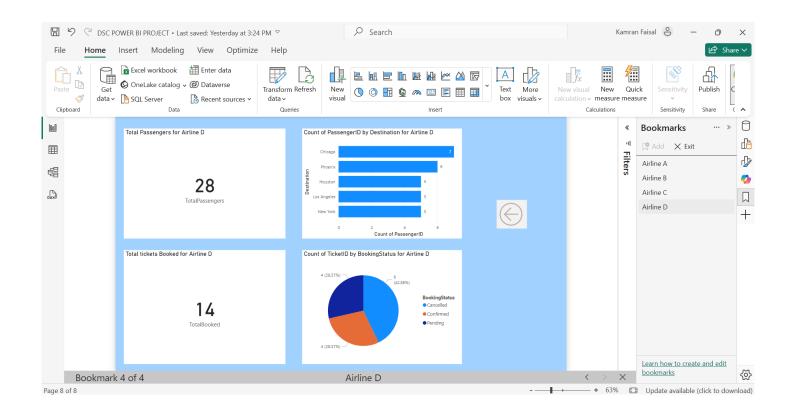


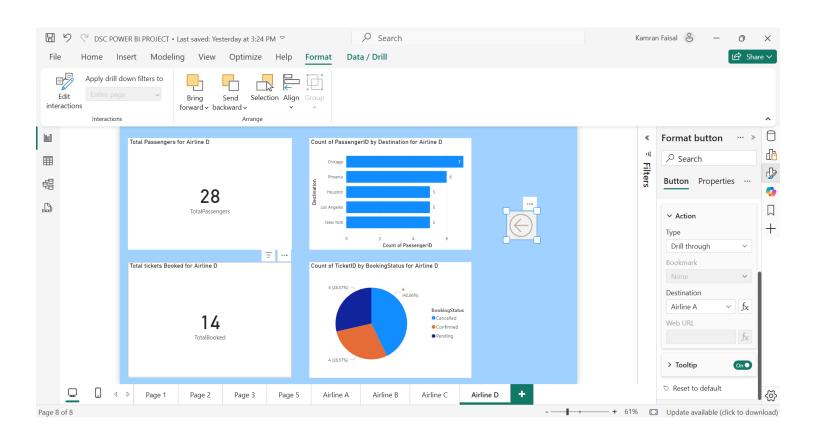






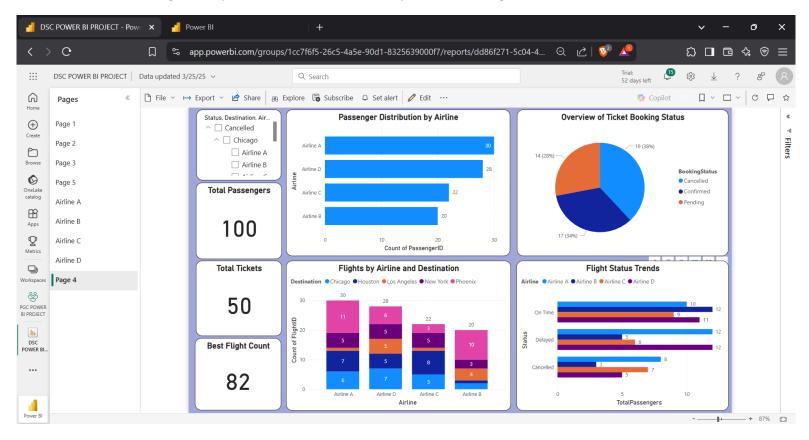




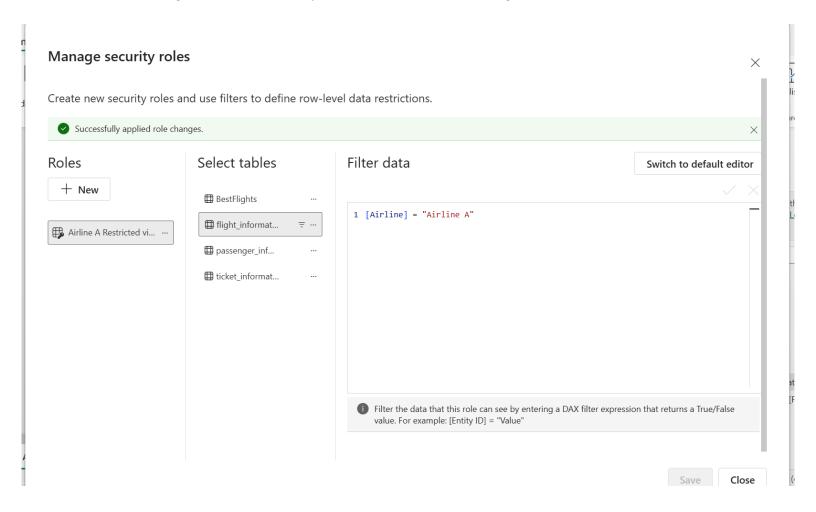


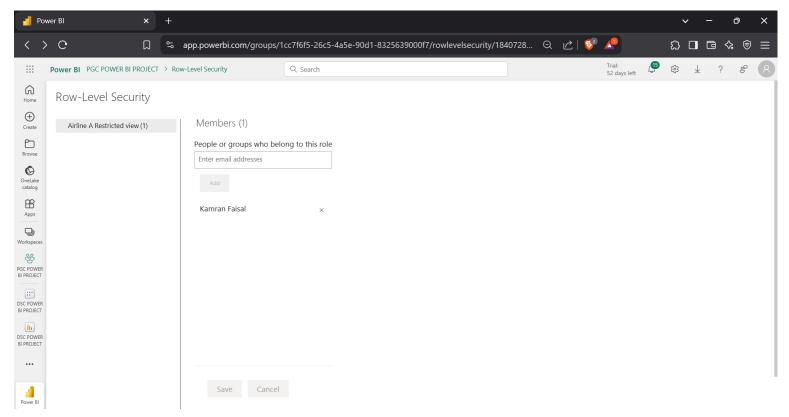
## 6. Final Dashboard and Power BI Service (20 Marks)

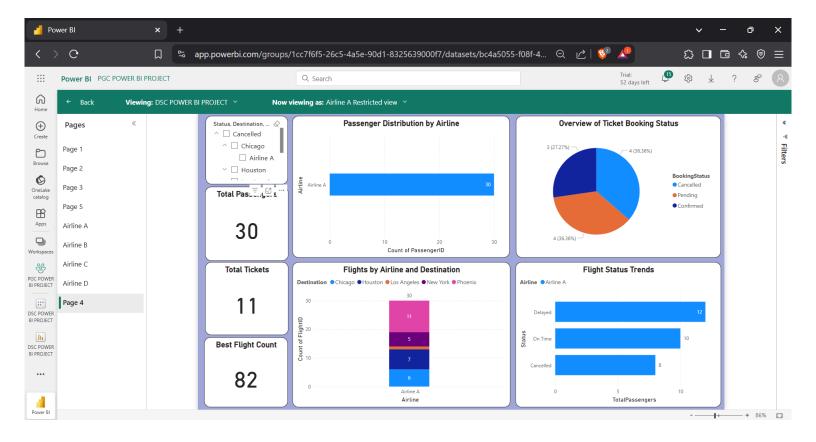
• Design a comprehensive dashboard with key visuals and insights. .



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







Set up a schedule refresh at 5 PM daily.

