Project 3

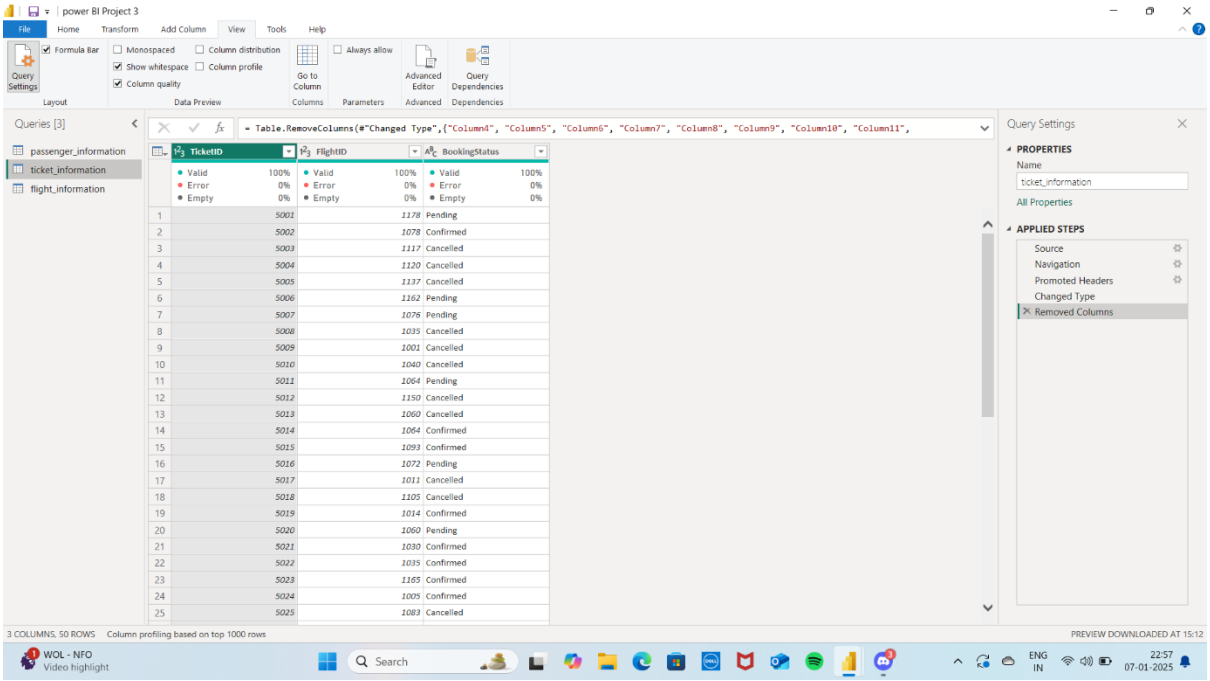
Name: - Yogita Ritesh Gawai

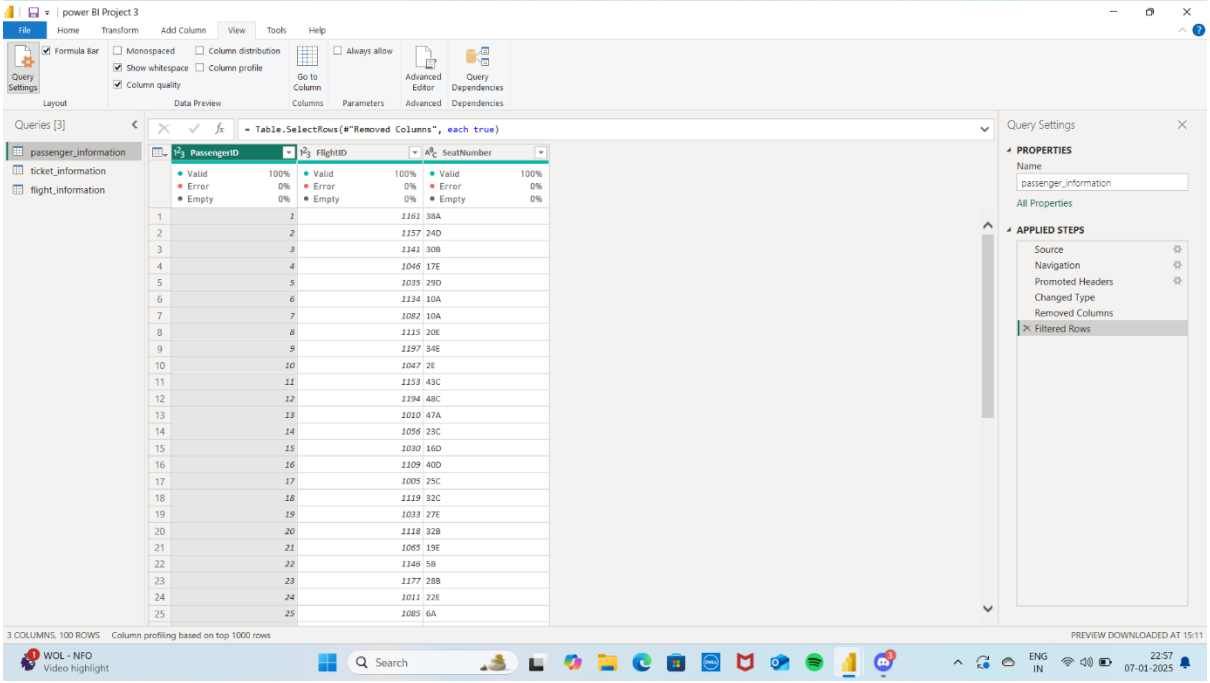
Project Title: -Airline Data Management and Analysis Using Power BI.

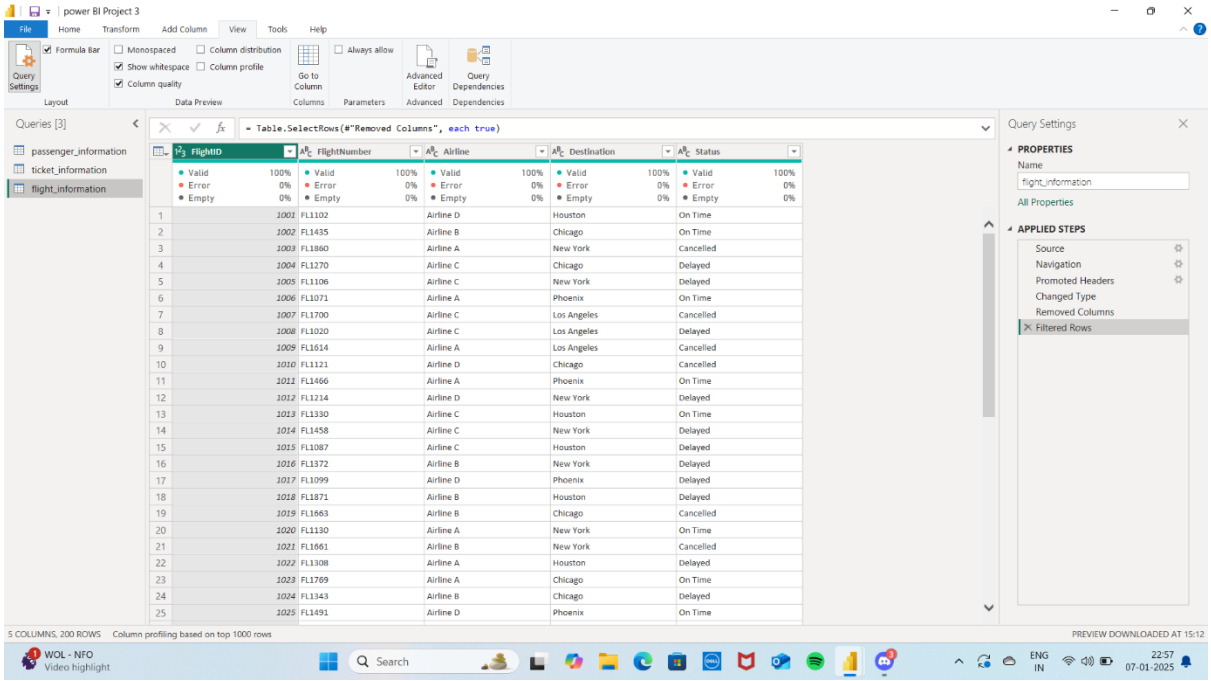
Problem Statement: -The airline industry operates with numerous complexities, requiring effective data management and insights into flight schedules, passenger details, and ticketing systems. This project aims to analyse airline operations for improving efficiency and customer satisfaction.

Project Objective: - To analyse and visualize airline data for operational insights, passenger management, and ticket booking trends using Power BI.

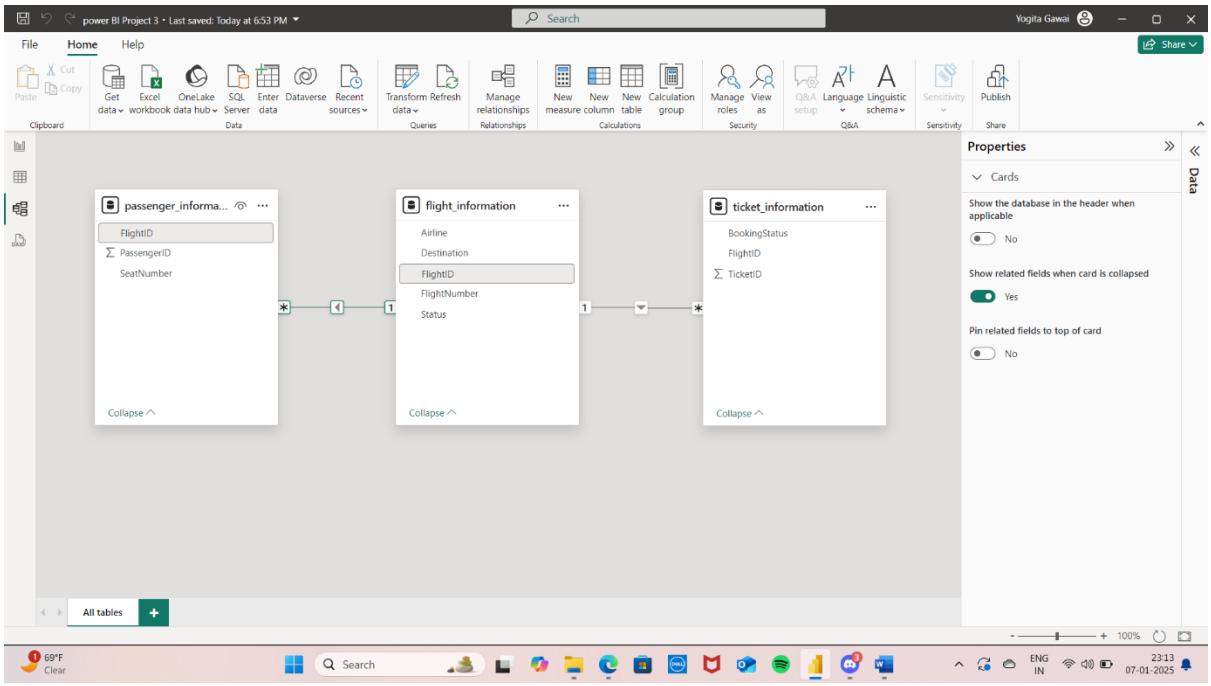
Task 1: - 1. Data Preparation and Cleaning

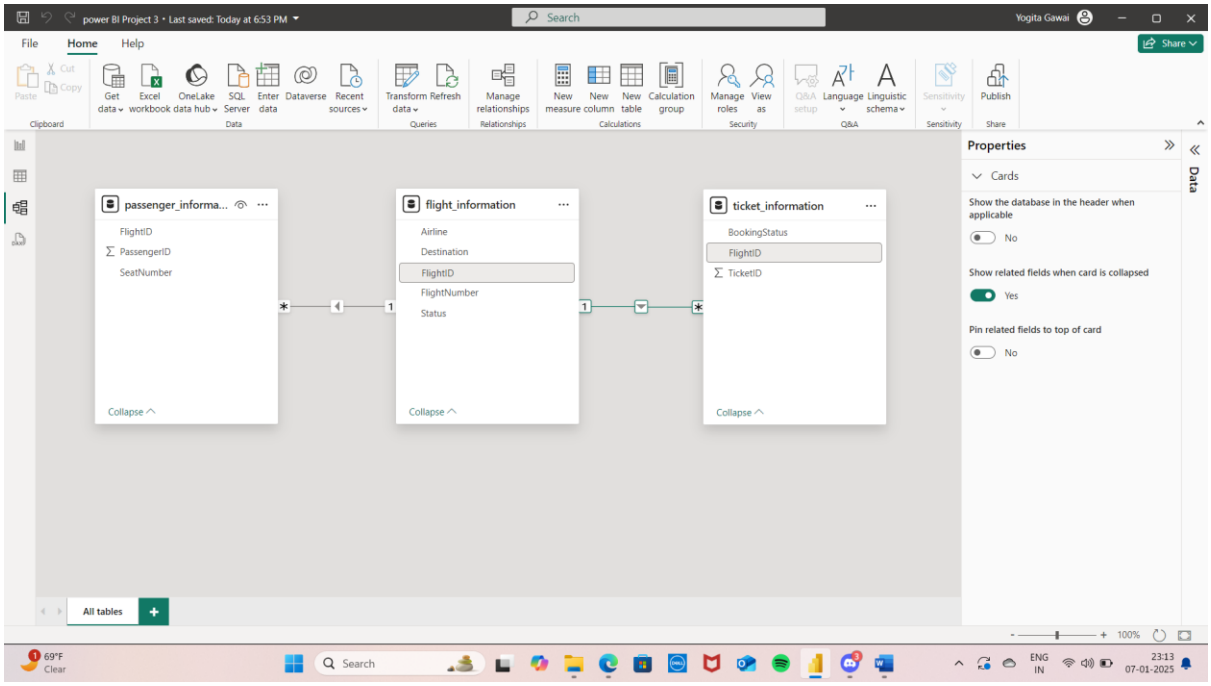

power BI Project 3
File Home Transform Add Column View Tools Help
Queries [3]
passenger_information
ticket_information
flight_information
= Table.RemoveColumns(#"Changed Type",{"Column4", "Column5", "Column6", "Column7", "Column8", "Column9", "Column10", "Column11",
TicketID FlightID BookingStatus
Query Settings
PROPERTIES
Name
ticket_information
All Properties
APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
Removed Columns
3 COLUMNS, 50 ROWS Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 15:12


power BI Project 3
File Home Transform Add Column View Tools Help
Queries [3]
passenger_information
ticket_information
flight_information
= Table.SelectRows(#"Removed Columns", each true)
PassengerID FlightID SeatNumber
Query Settings
PROPERTIES
Name
passenger_information
All Properties
APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
Removed Columns
Filtered Rows
3 COLUMNS, 100 ROWS Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 15:11

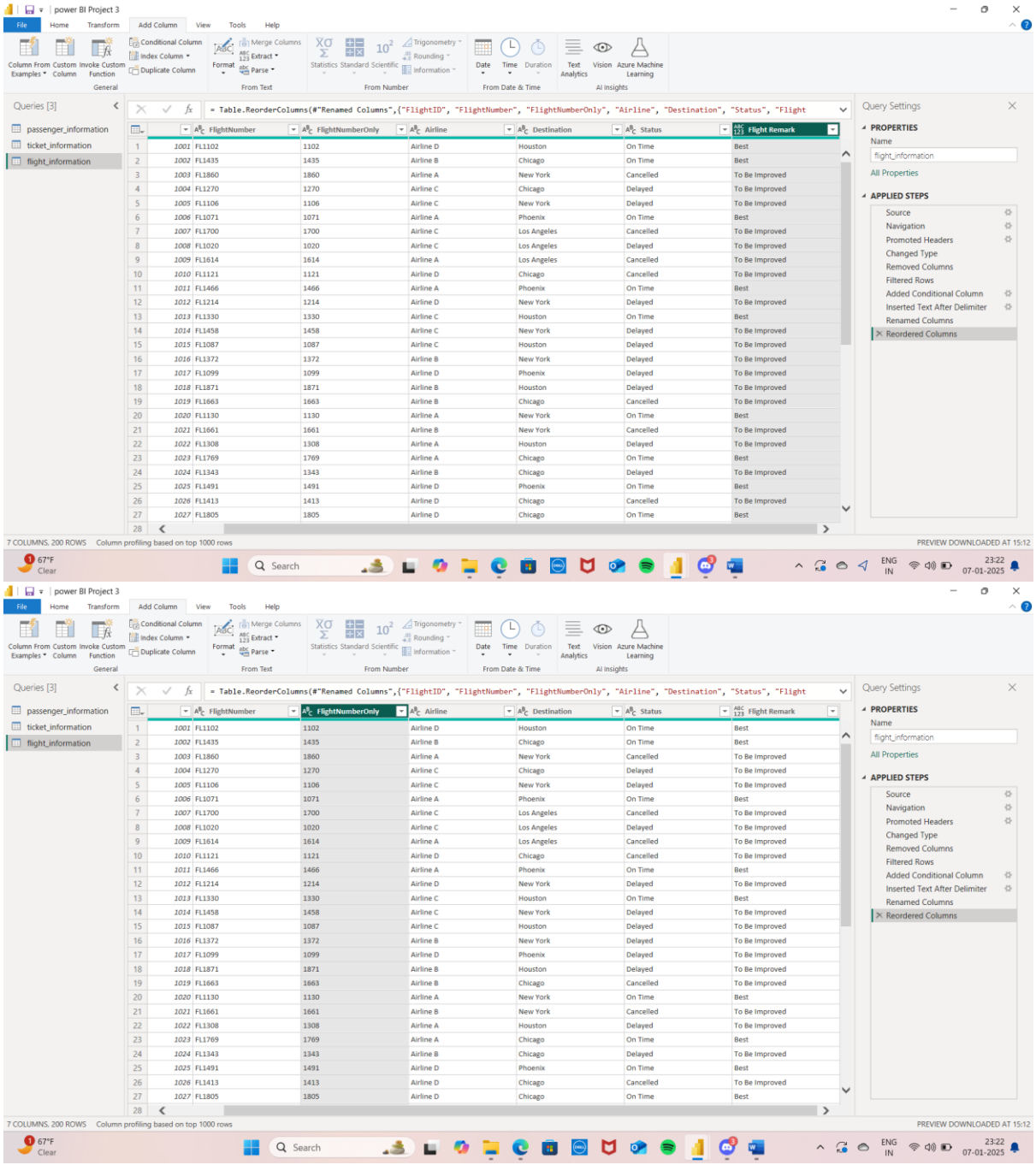


Task 2:- . Data Modelling





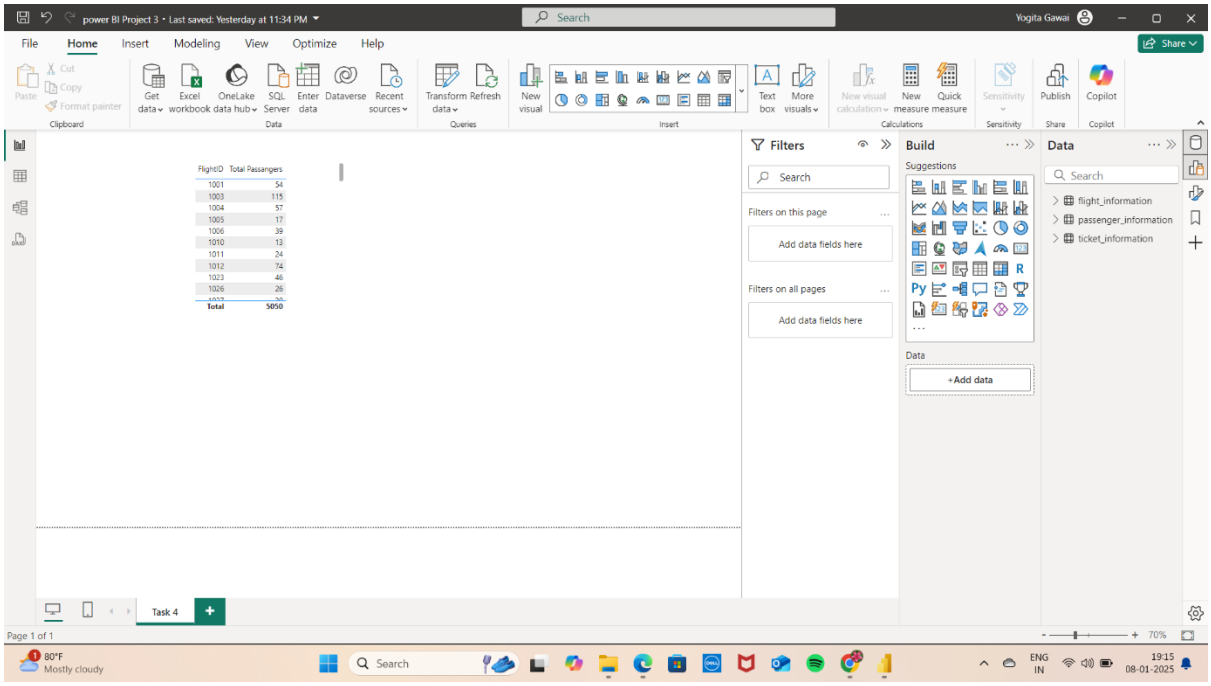
Task 3 :- . Enhanced Data Insights



Task 4 :- Calculations Using DAX

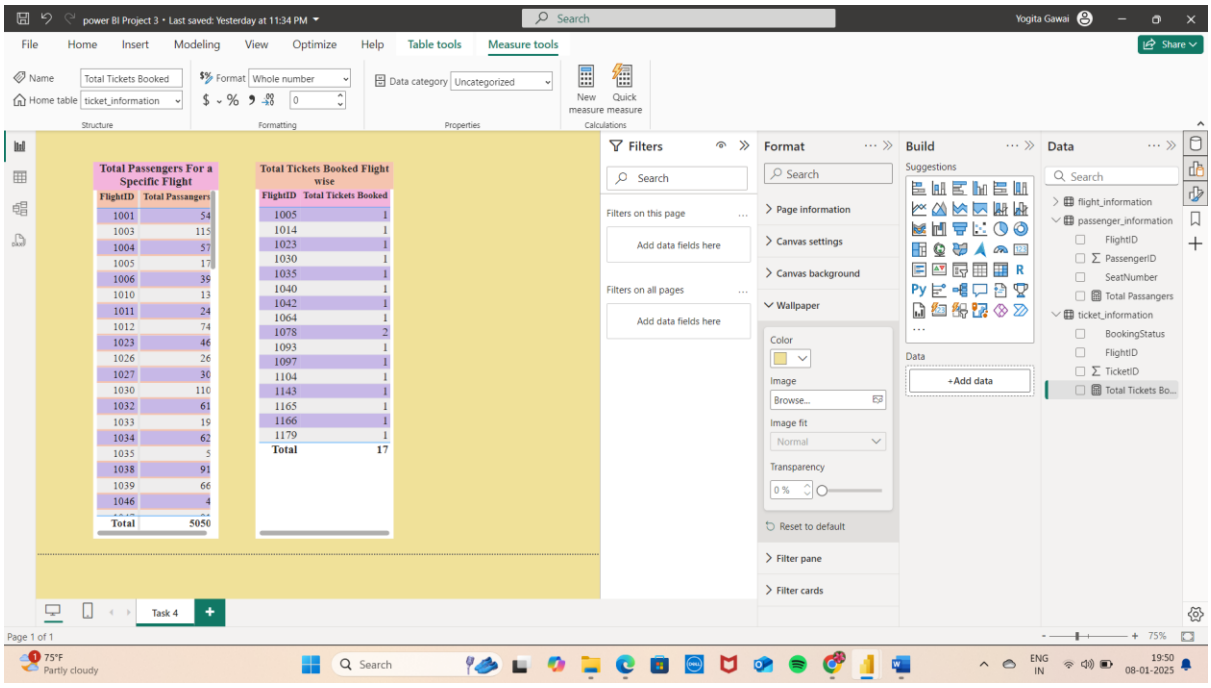
1)Total Passengers for a specific flight.

Total Passangers = sum(passenger_information[PassengerID])

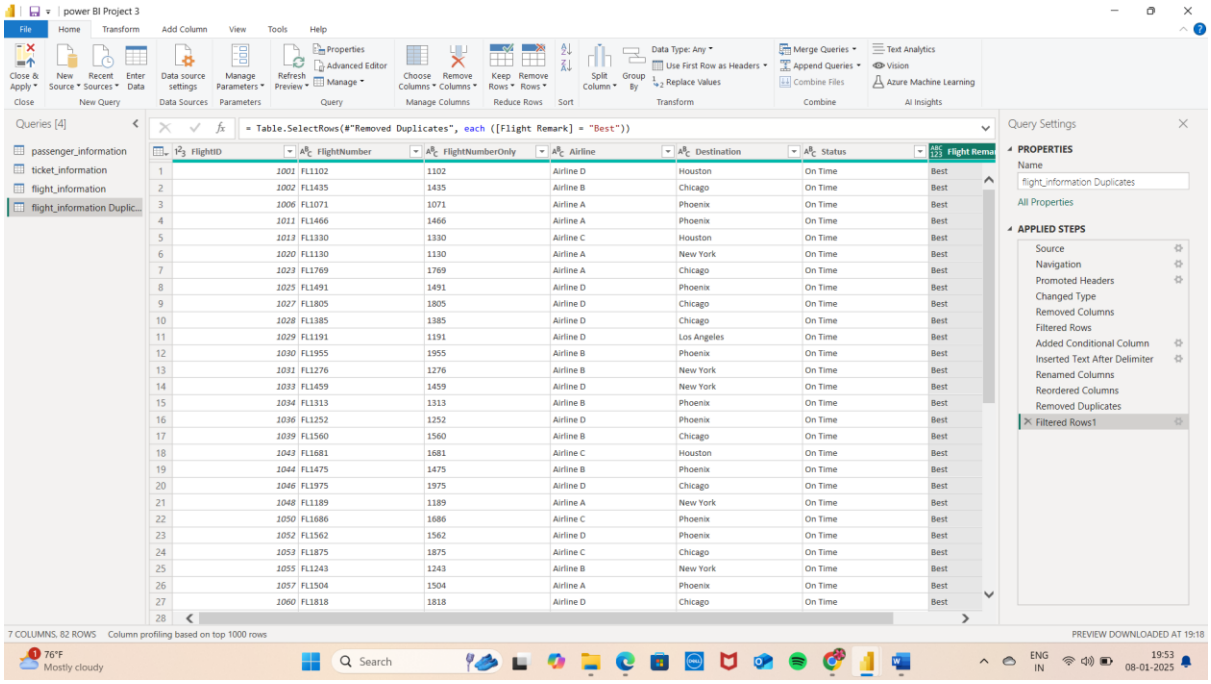


2)Total Tickets Booked

TotalTicketBooked=
COUNTROWS(FILTER(ticket_information, ticket_information[BookingStatus] = "Confirmed"))

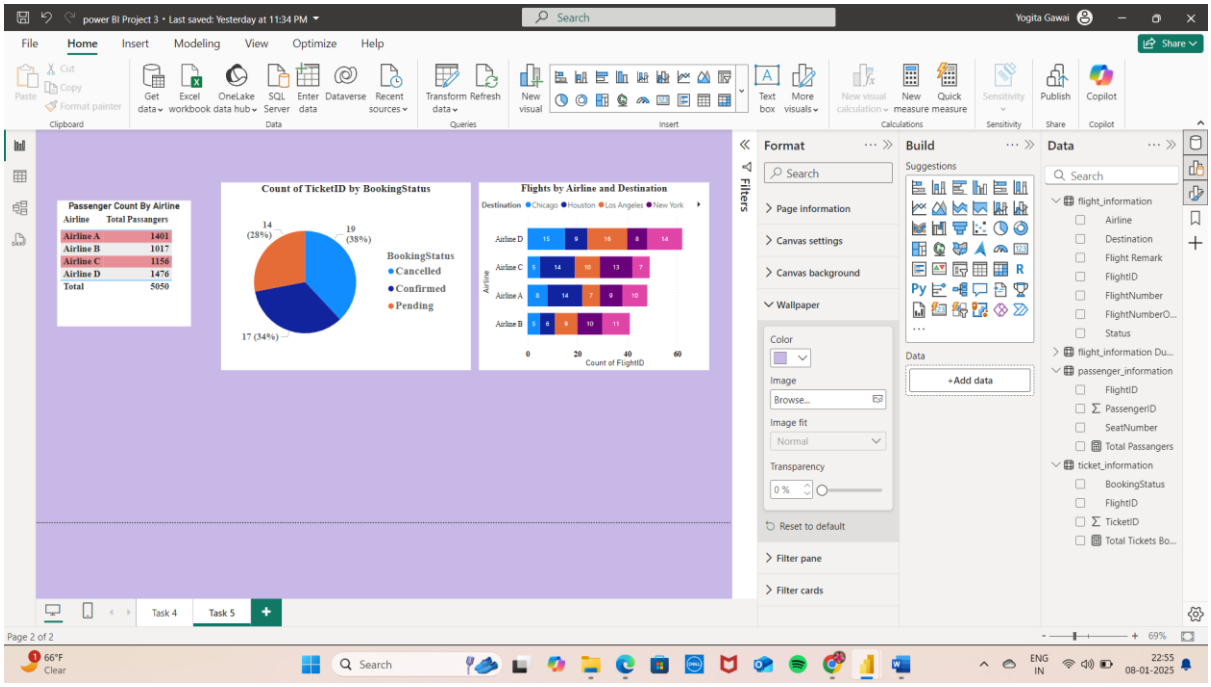


3)Filtered table showing “Best” Flights only.



5. Visualization and Interactive Features

- **Create visuals for:**
  - **Passenger count by airline.**
  - **Ticket booking statuses**
    - **Flights by airline and destination**

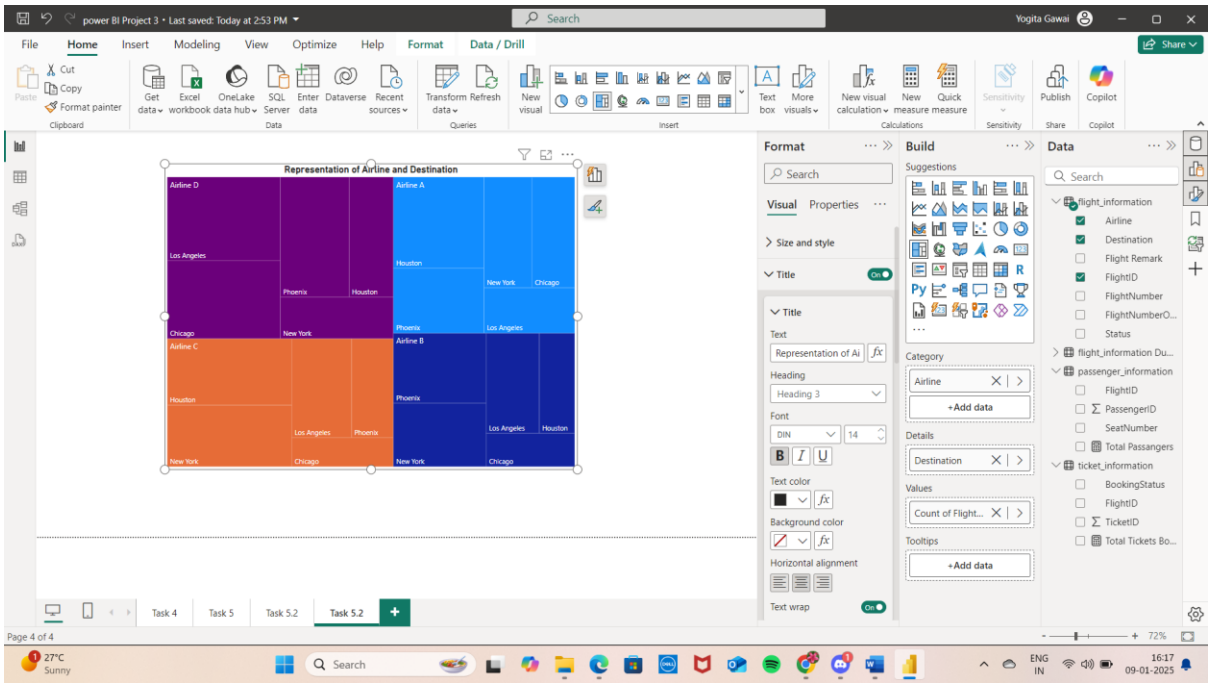


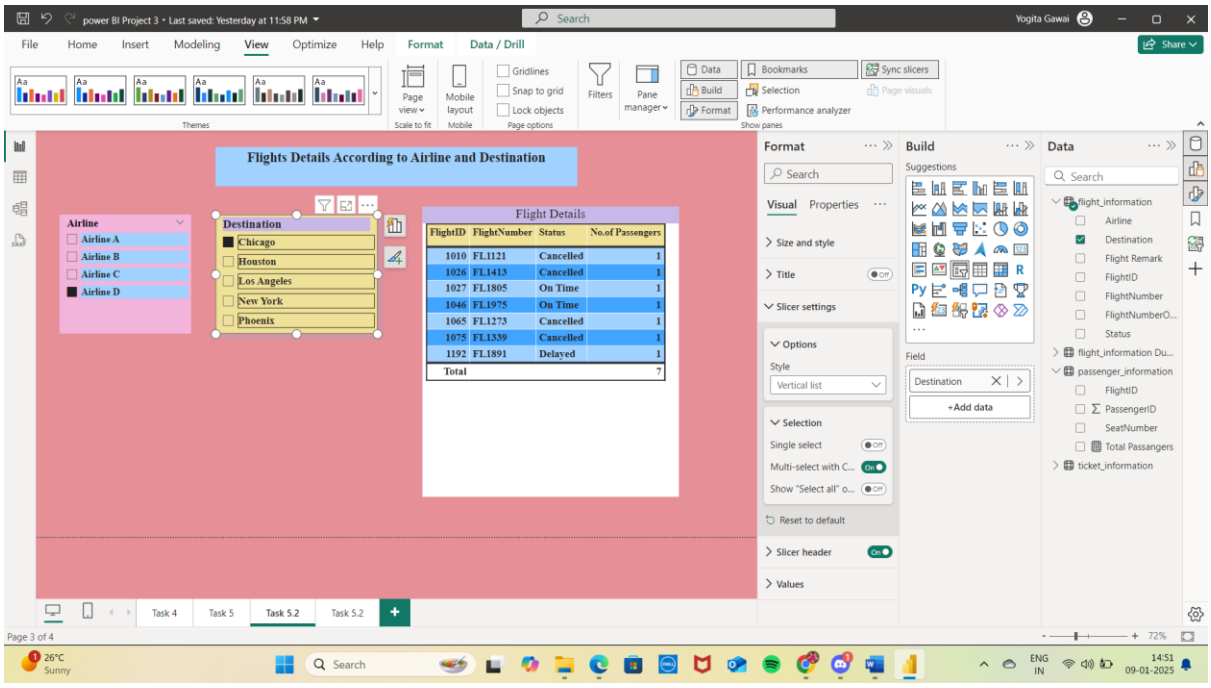
Add interactive features for:

- **Destination and Airline.**

○ **Quick views.**

○ **Airline-specific pages**

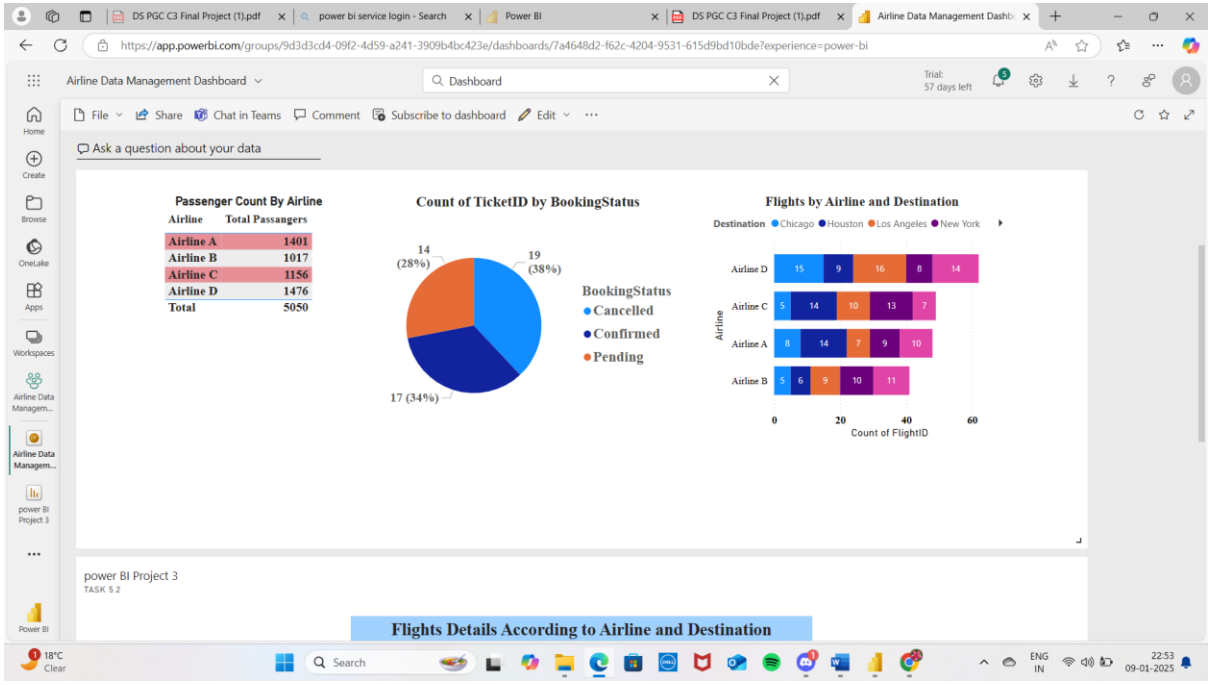


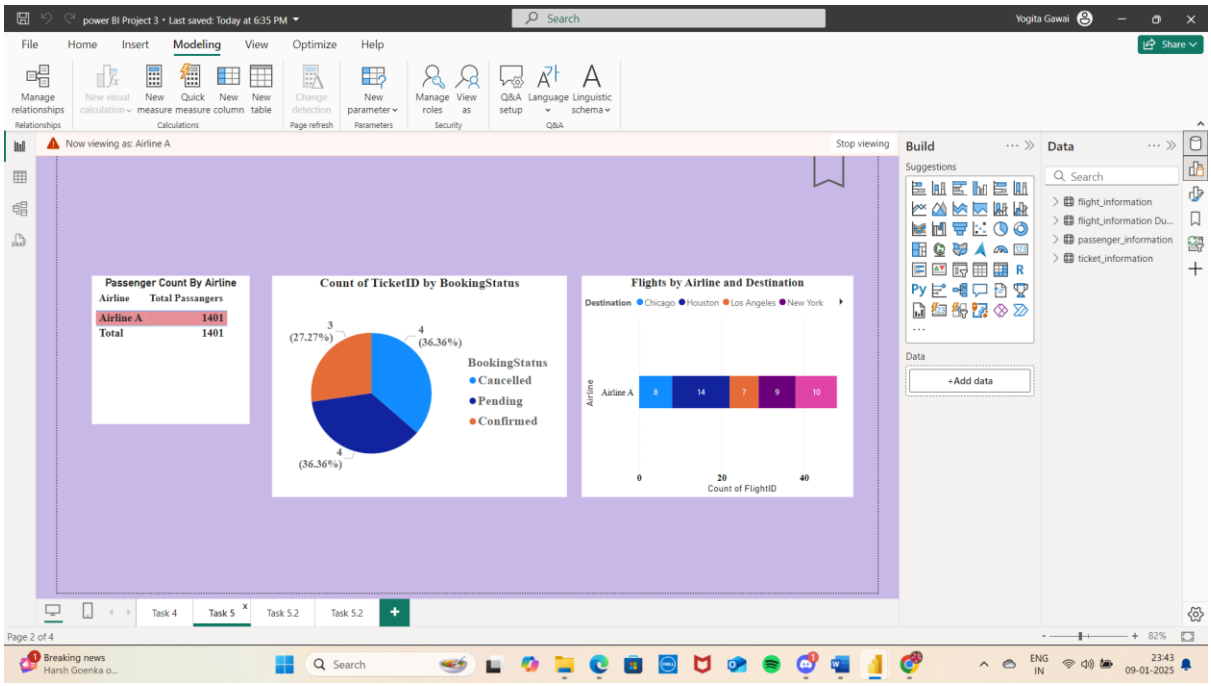


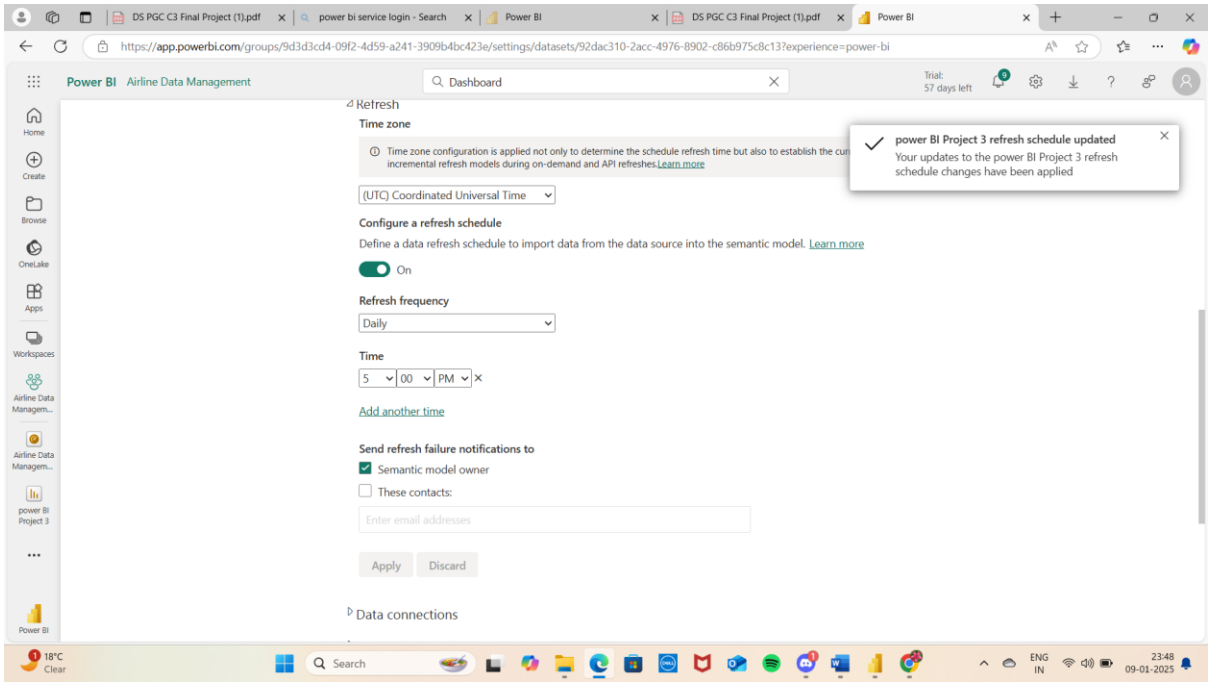
Task 6 :- . Final Dashboard and Power BI Service

- **Design a comprehensive dashboard with key visuals and insights.**
- **Configure Row-Level Security (RLS) for Airline A data and assign it to a user.**

- **Setup schedule refresh at 5 PM daily**







Video Link: -

https://drive.google.com/file/d/1kDn3Hhm-_TcSGqRAVgkPfK7iO8qsOZ0v/view?usp=drivesdk