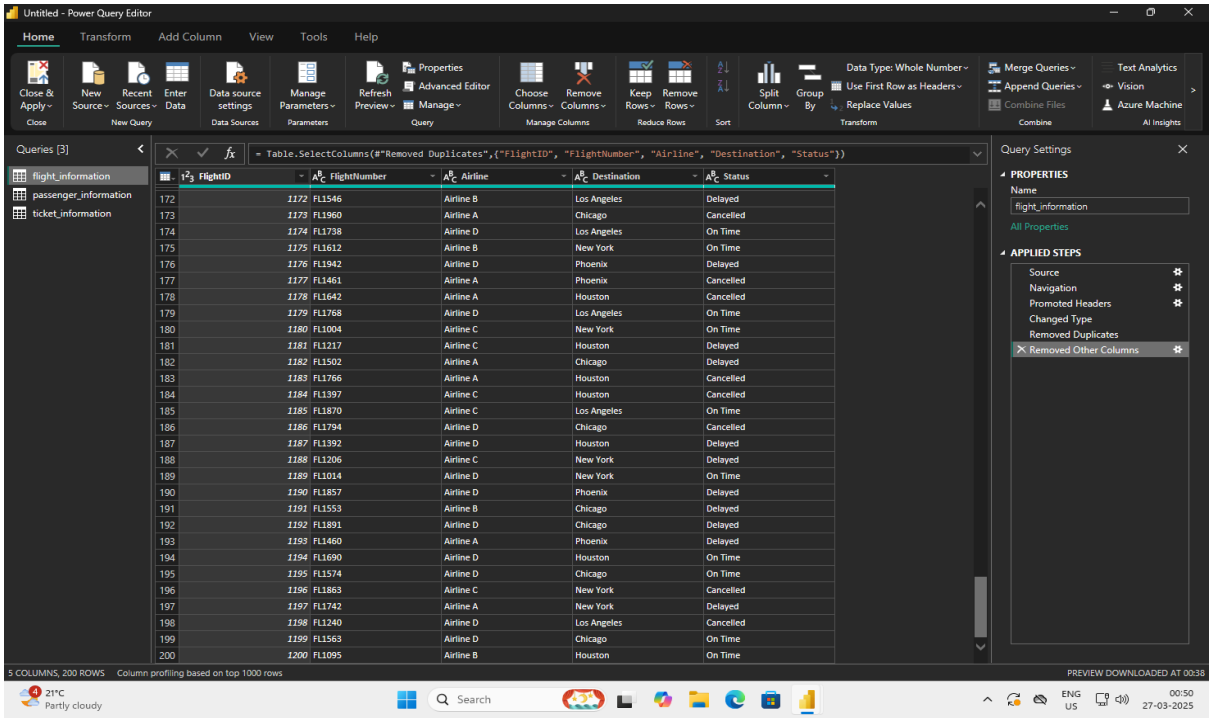
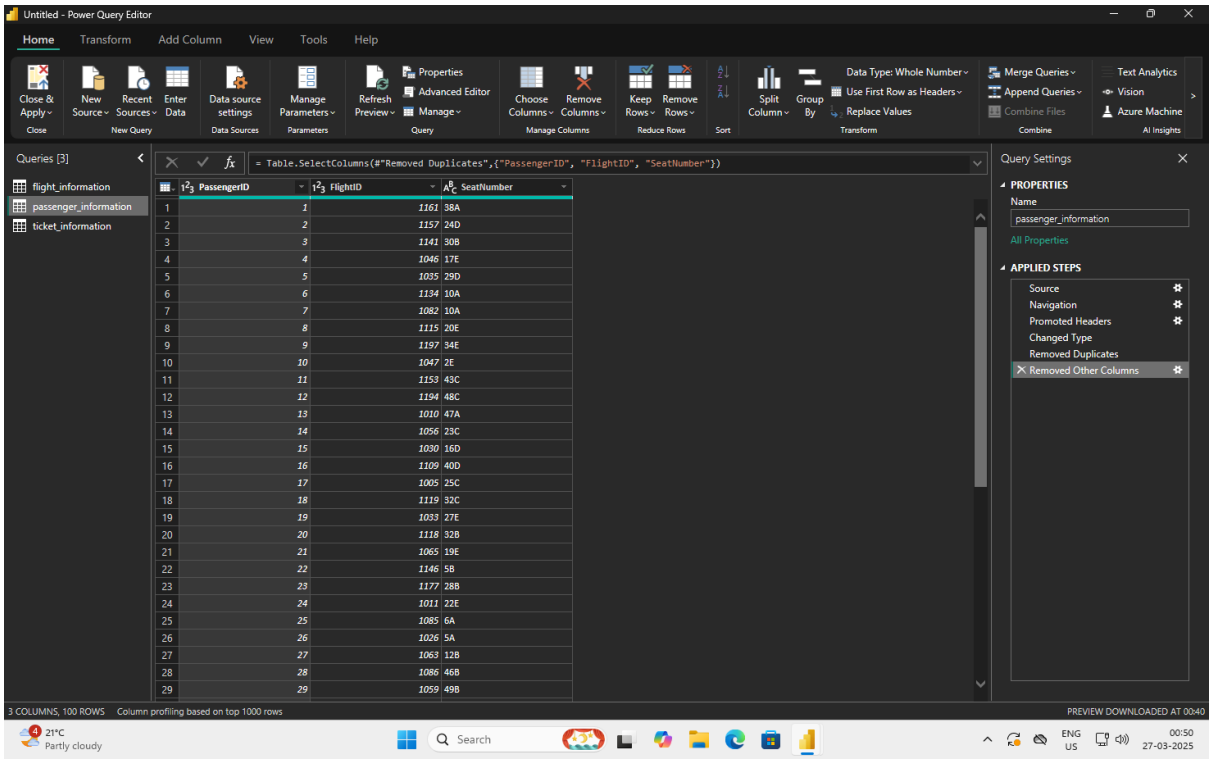
Final project module 3

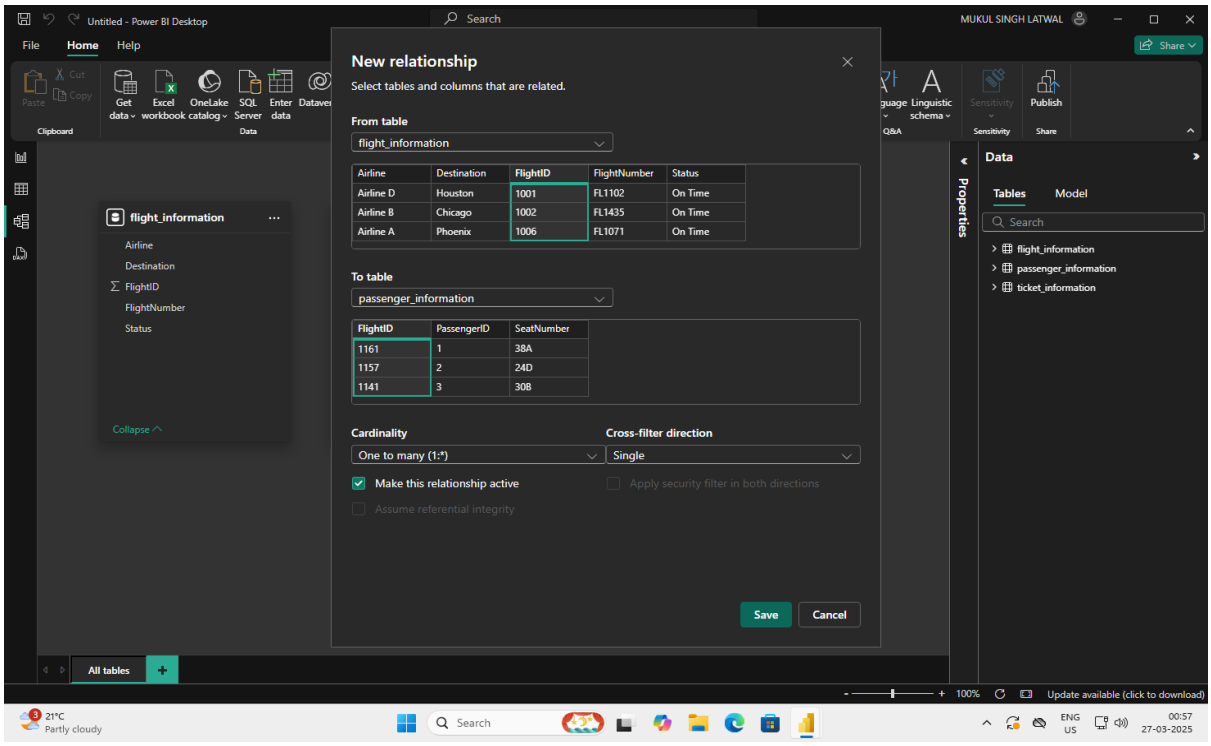
Task 1: Data Preparation and Cleaning
Remove Duplicates
Click **Remove Duplicates** from the **Home** tab.
Remove unnecessary columns which has only null values

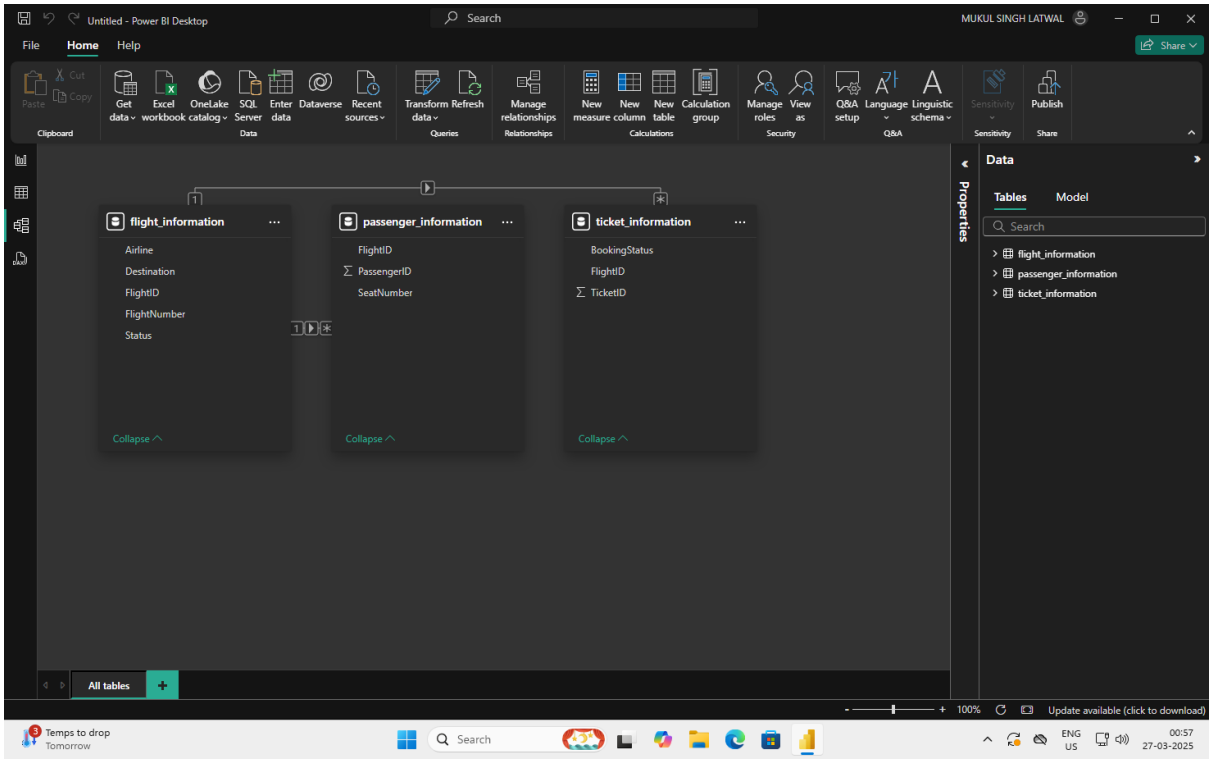




Task 2: Data Modeling

Create relationships between the datasets using **FlightID** as the key in Power BI's **Model View**.

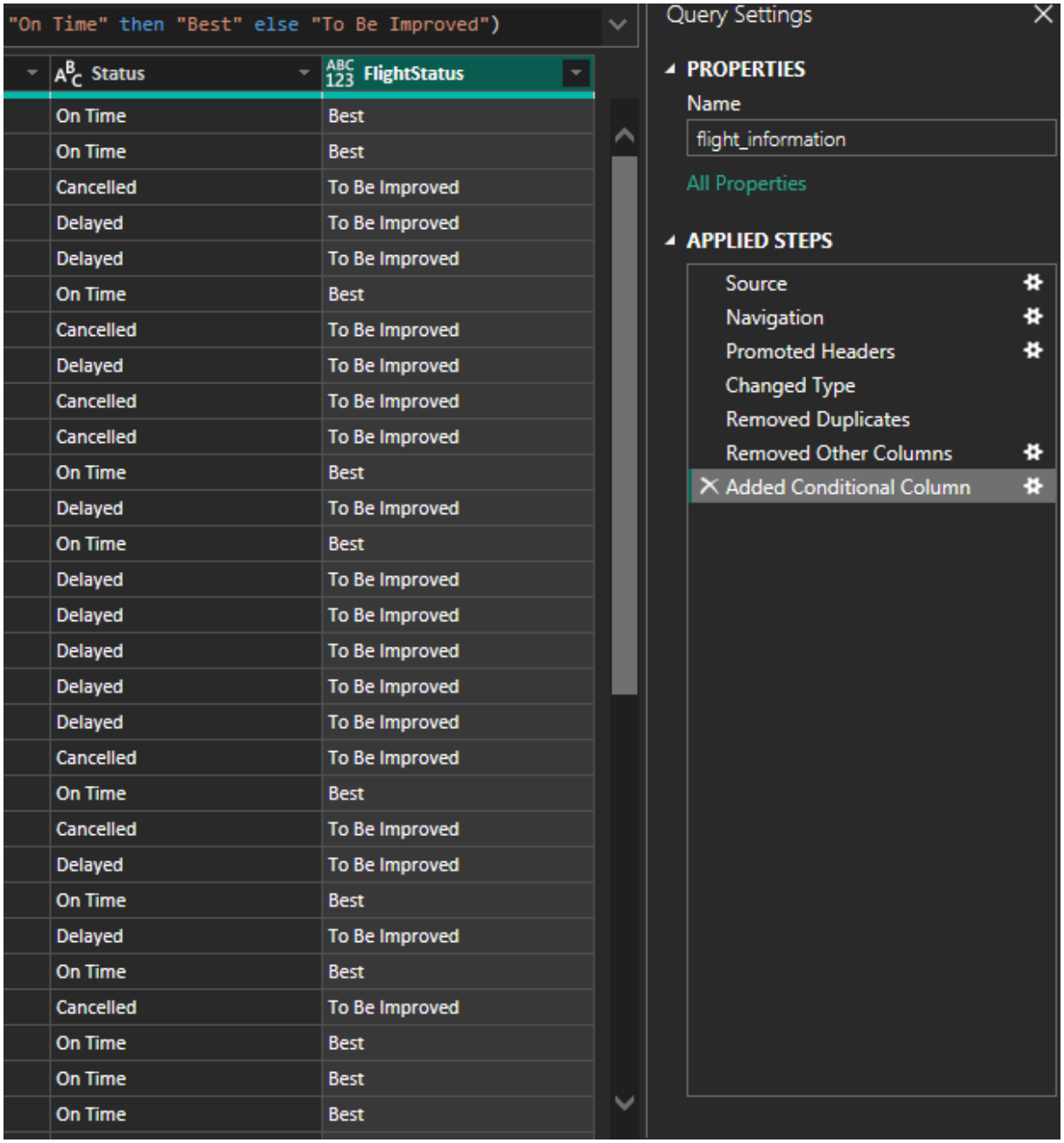




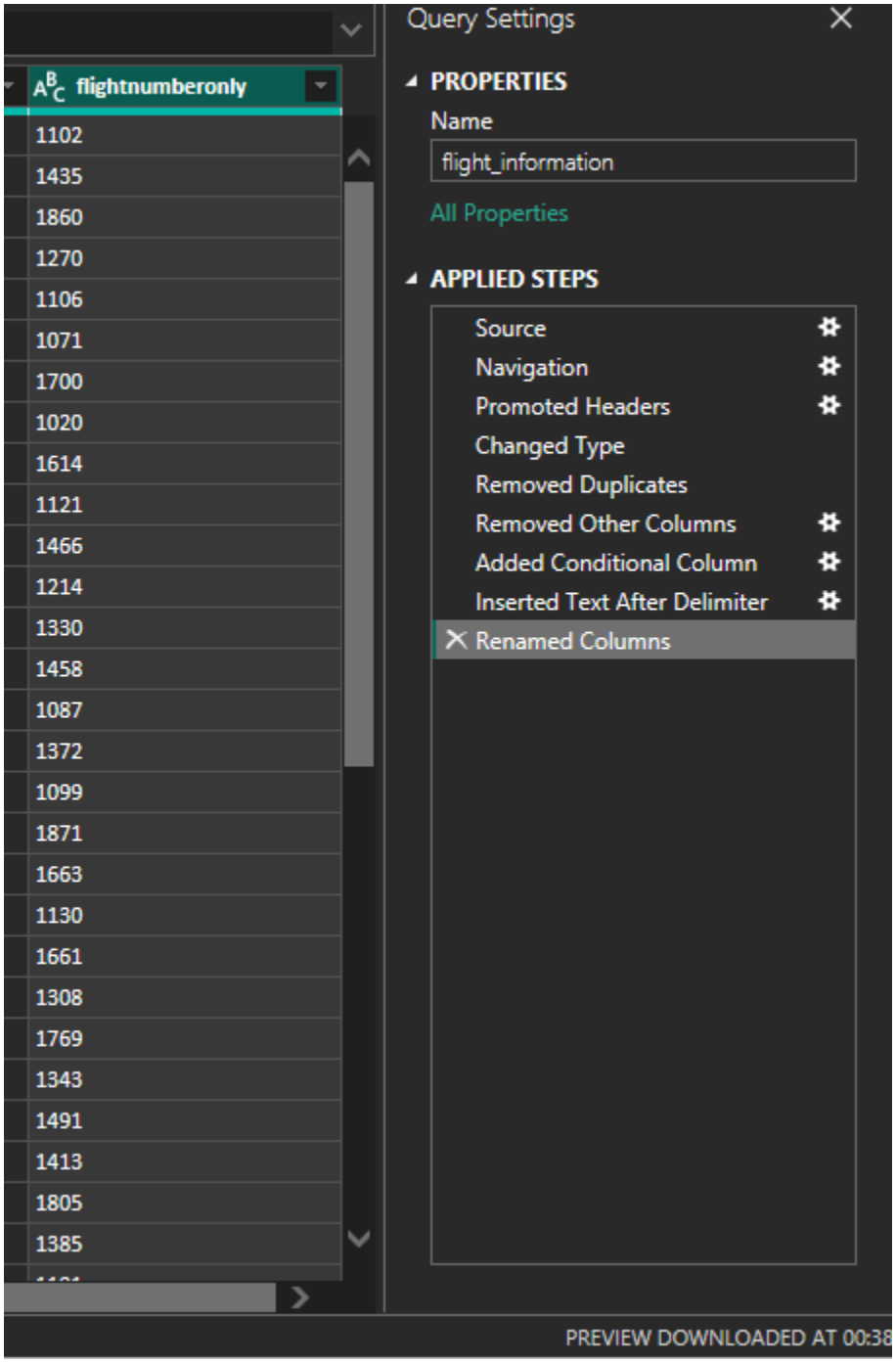
Task 3:Enhanced Data Insights

you need to **add a conditional column**, **extract flight numbers**, and transform the data in Power Query.

Add a Conditional Column for Flight Status:-



Extract Flight Number Using "Column from Examples"

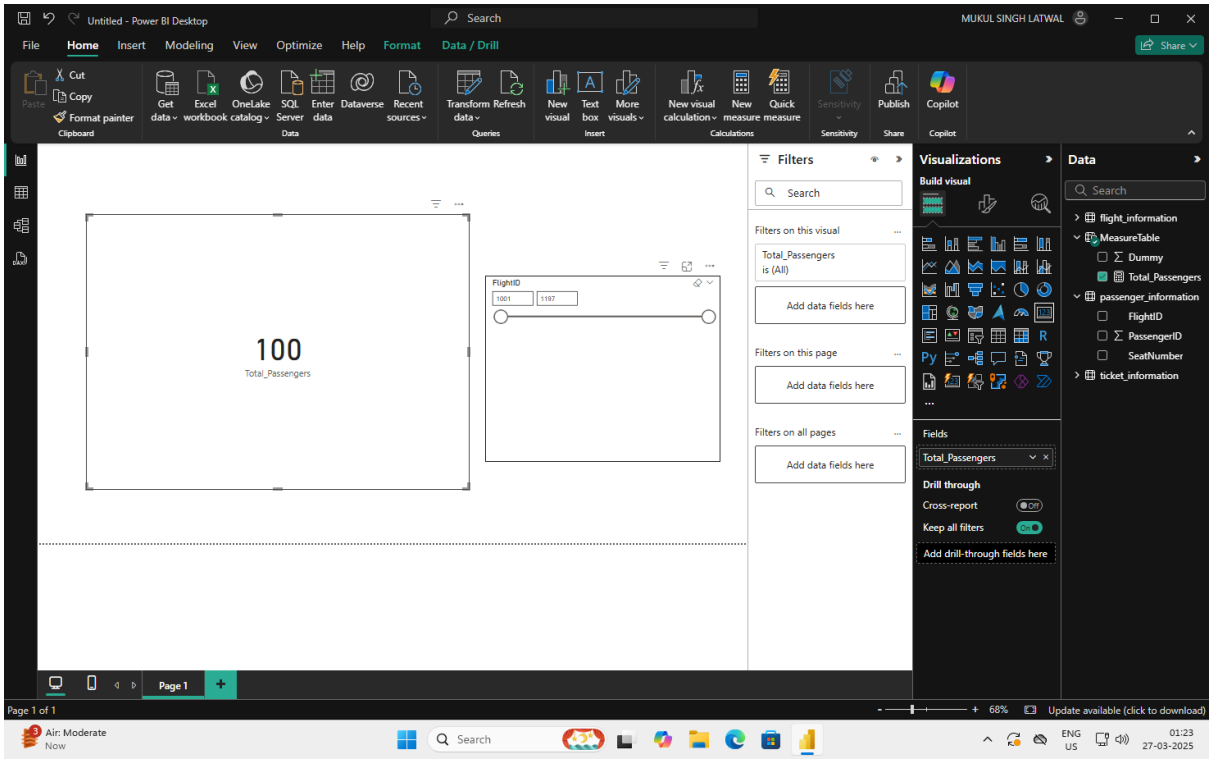


Task 4: Calculations Using DAX

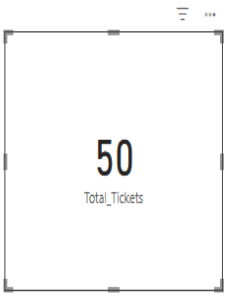
In this task, you will create **DAX measures** to calculate:

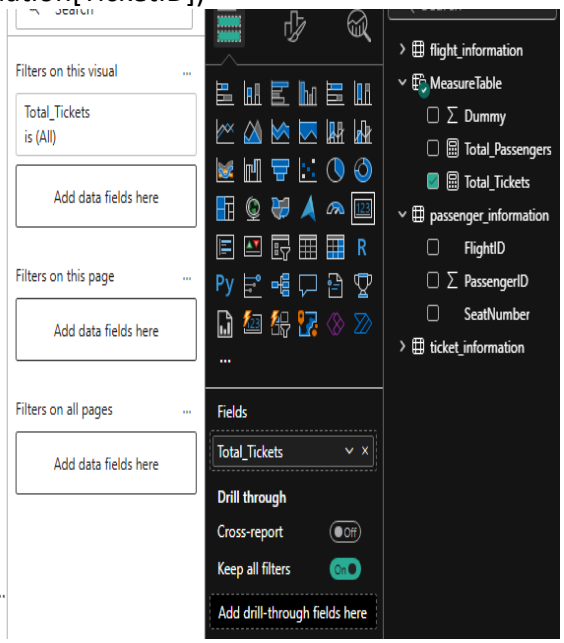
1. **Total passengers for a specific flight**
2. **Total tickets booked**
3. **A filtered table showing only "Best" flights**

Calculate Total Passengers for a Specific Flight
Dax formula-Total_Passengers = COUNT(Passenger_Information[PassengerID])
Use a **Slicer** with Flightid.

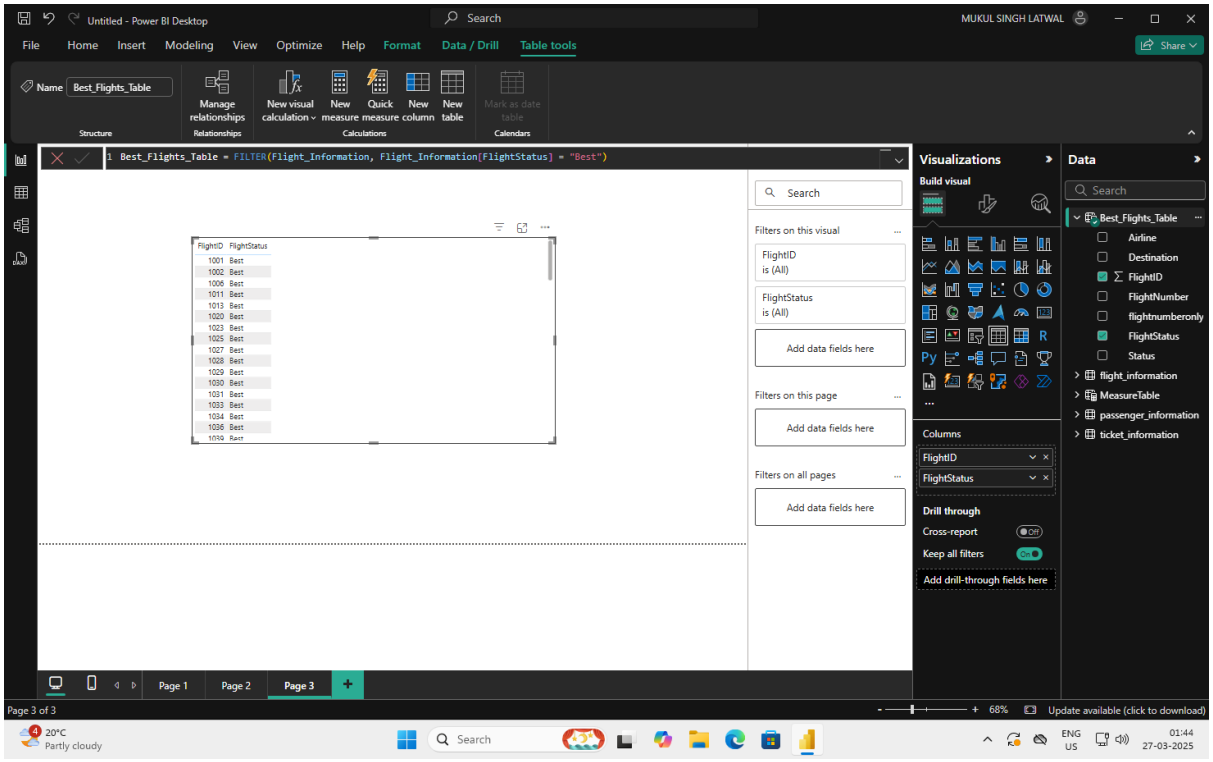


Calculate Total Tickets Booked
This measure counts all booked tickets.
Dax formula-Total_Tickets = COUNT(Ticket_Information[TicketID])

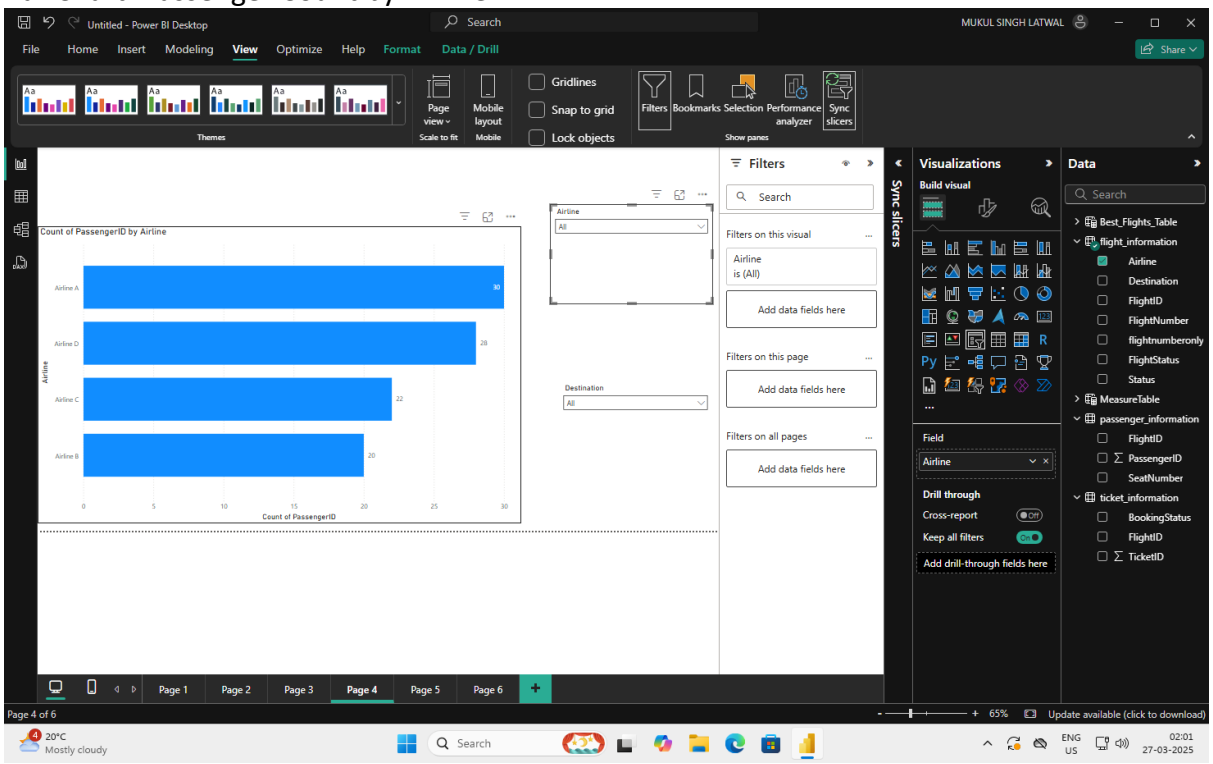




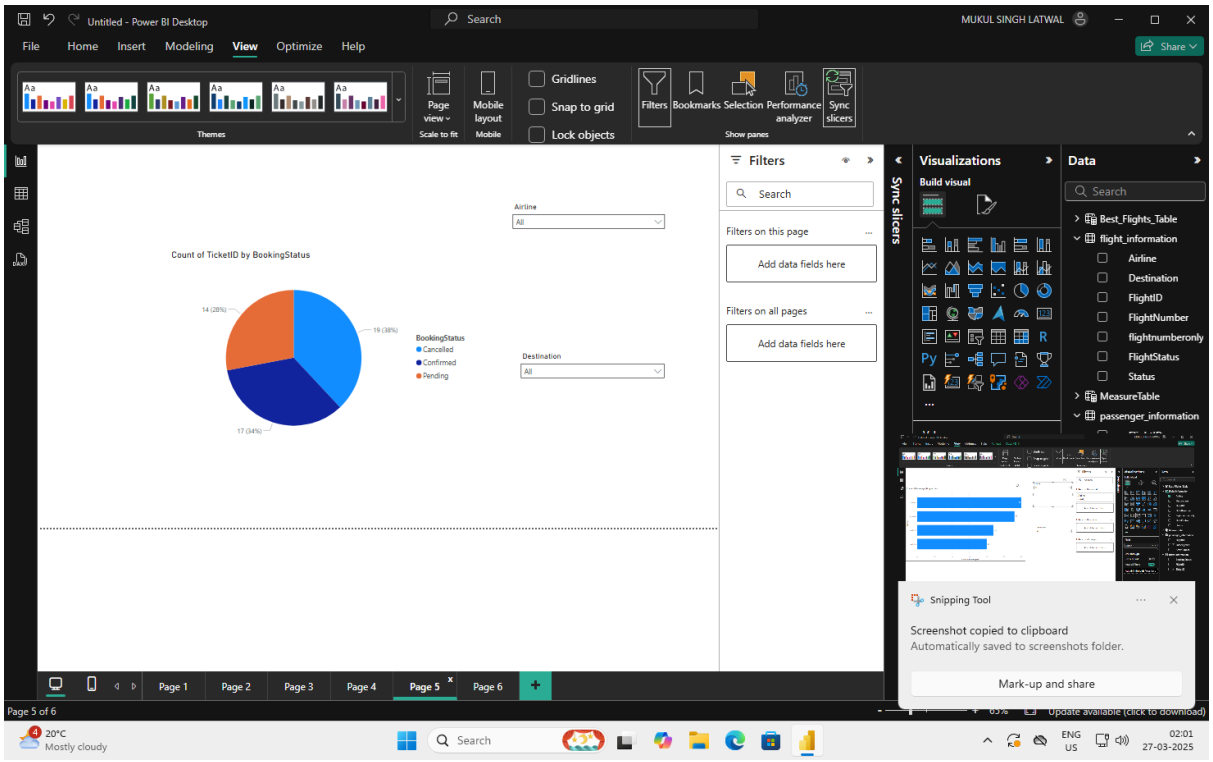
Create a Filtered Table for "Best" Flights Only
Go to "Modeling" → "New Table"
Best_Flights_Table = FILTER(Flight_Information, Flight_Information[FlightStatus] = "Best")



Task 5: Visualization and Interactive Features
Bar Chart: Passenger Count by Airline

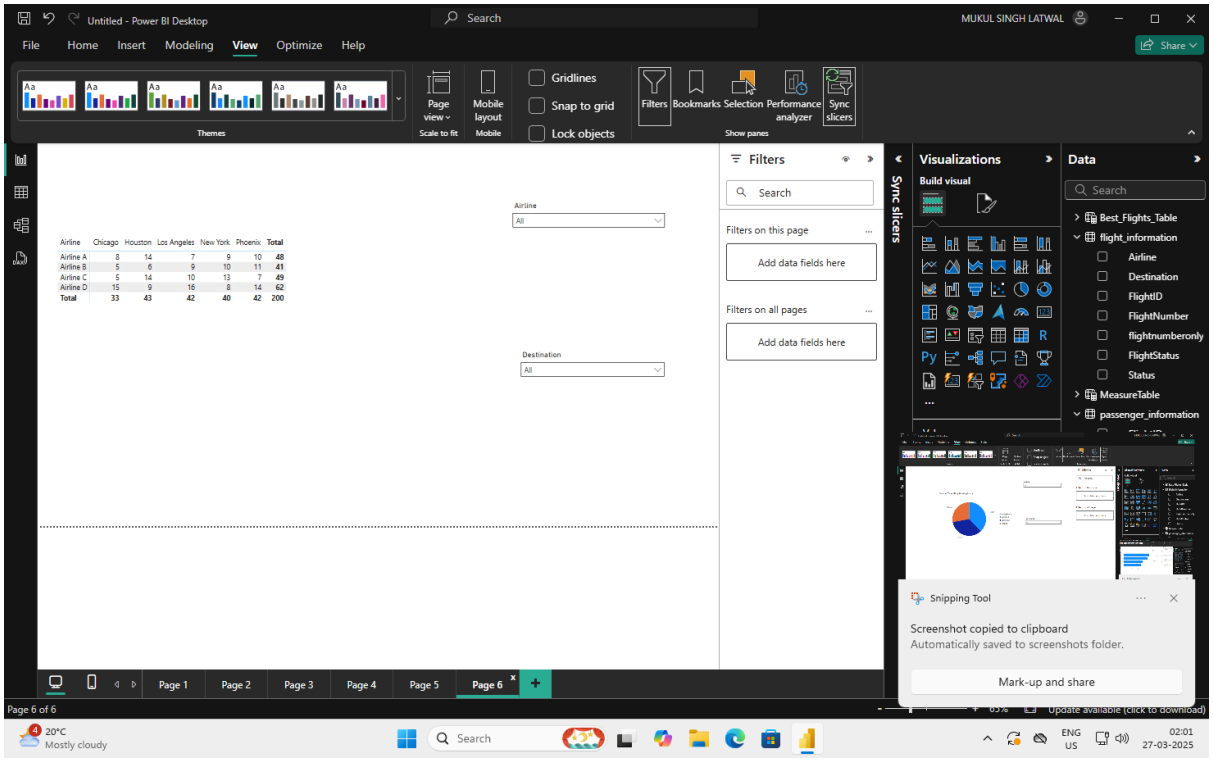


Pie Chart: Ticket Booking Status
Show different booking statuses in a percentage format.



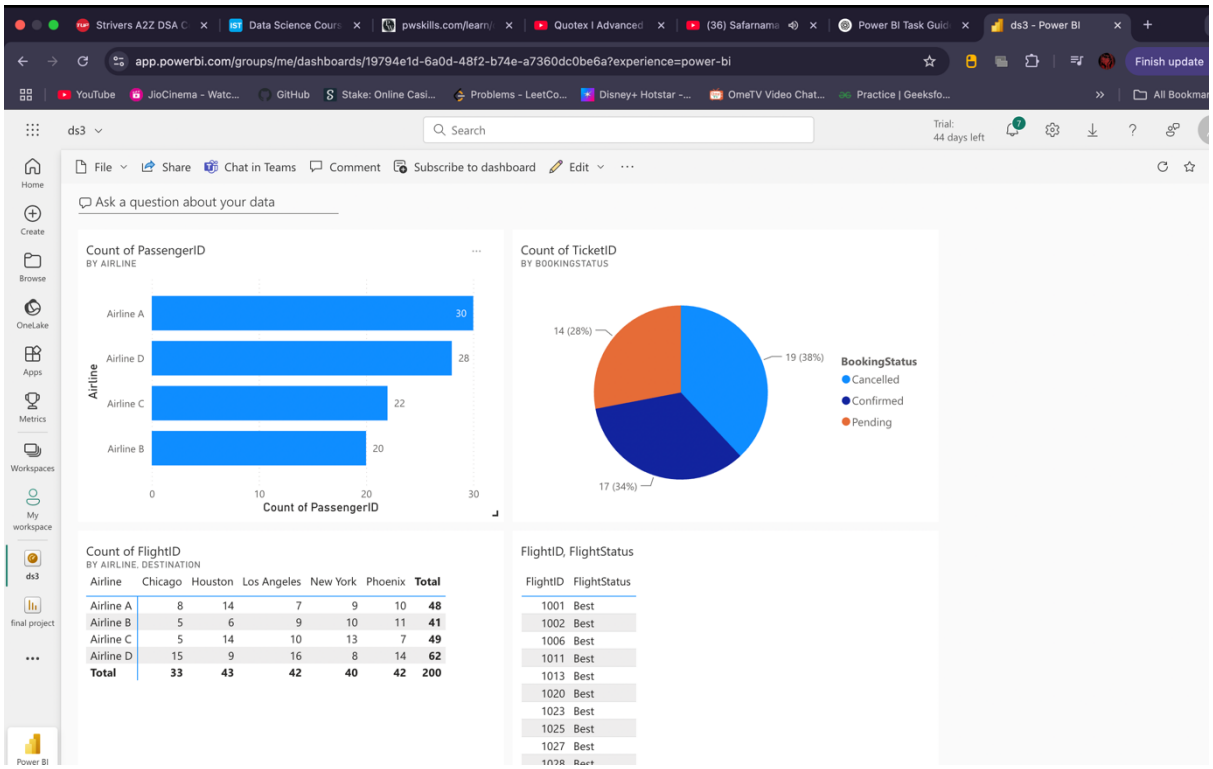
Matrix Table: Flights by Airline and Destination

Show the number of flights each airline has for different destinations.



Task 6: Final Dashboard and Power BI Service

Open **Power BI Desktop**.
Click on **"File" → "Publish" → "Power BI Service"**.
Select your **Workspace**

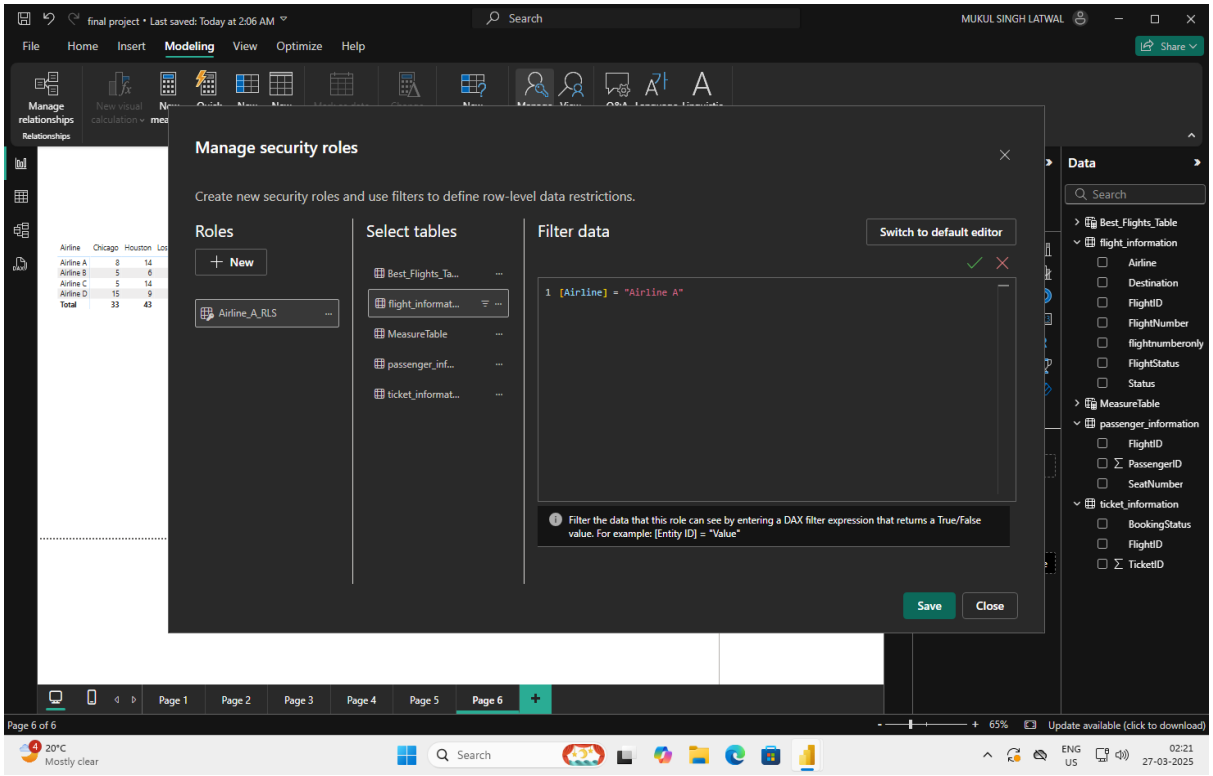


Configure Row-Level Security (RLS) in Power BI Service

1Go to **Datasets → Click on "..." → Security**.
2Select the role you created (**"AirlineA_RLS"**).
3Add users who should only see **Airline A data**.

Set Up Scheduled Refresh at 5 PM Daily

1 Go to **Datasets** in Power BI Service.
2 Click on **"..." → "Schedule Refresh"**.
3 Turn on **Keep Data Updated**.
4 Set **Refresh Time = 5:00 PM**.


final project • Last saved: Today at 2:06 AM
Search
MUKUL SINGH LATWAL
File
Home
Insert
Modeling
View
Optimize
Help
Share
Manage relationships
Relationships
Manage security roles
Create new security roles and use filters to define row-level data restrictions.
Roles
New
Airline_A_RLS
Select tables
Best_Flights_Ta...
flight_informat...
MeasureTable
passenger_inf...
ticket_informat...
Filter data
Switch to default editor
1 [Airline] = "Airline A"
Filter the data that this role can see by entering a DAX filter expression that returns a True/False value. For example: [Entity ID] = "Value"
Save
Close
Data
Search
Best_Flights_Table
flight_information
Airline
Destination
FlightID
FlightNumber
flightnumberonly
FlightStatus
Status
MeasureTable
passenger_information
FlightID
PassengerID
SeatNumber
ticket_information
BookingStatus
FlightID
TicketID
Page 1
Page 2
Page 3
Page 4
Page 5
Page 6
Page 6 of 6
65%
Update available (click to download)
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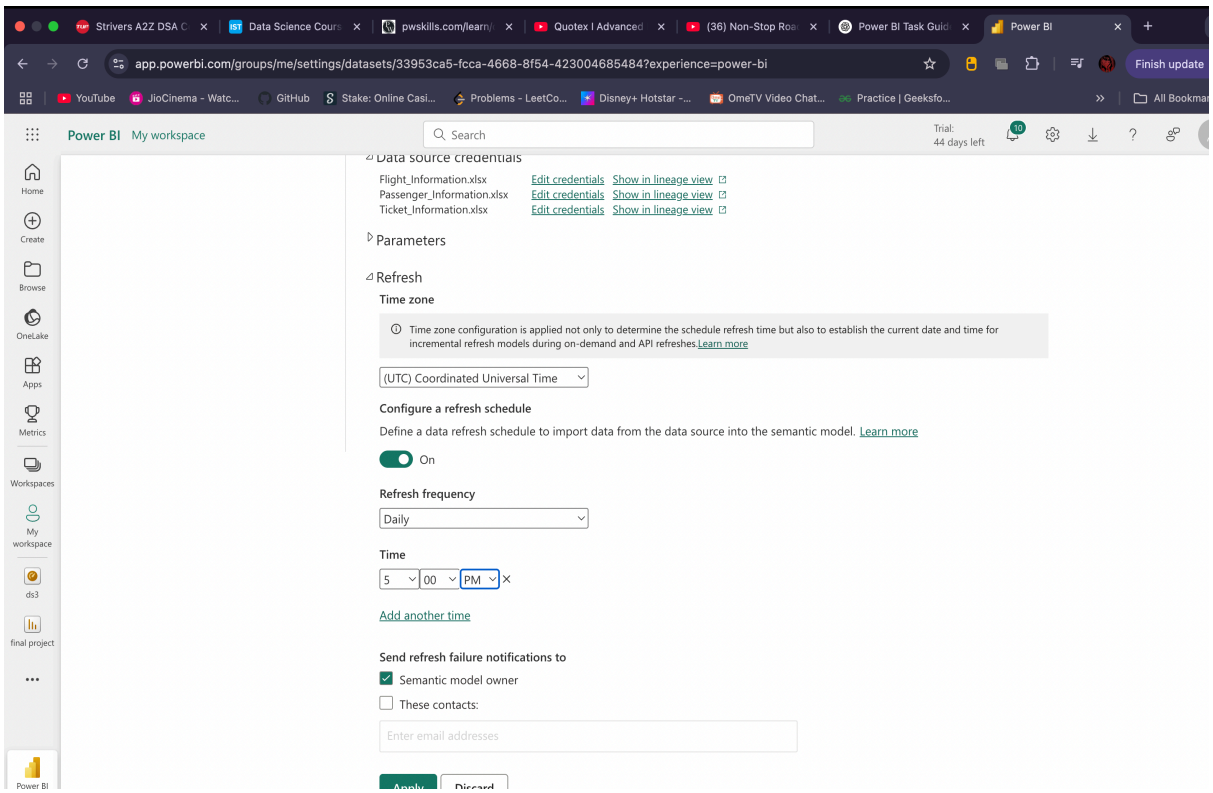
app.powerbi.com/groups/me/settings/datasets/33953ca5-fcca-4668-8f54-423004685484?experience=power-bi
Finish update
Power BI
My workspace
Search
Trial:
44 days left
Data source credentials
Flight_Information.xlsx Edit credentials Show in lineage view
Passenger_Information.xlsx Edit credentials Show in lineage view
Ticket_Information.xlsx Edit credentials Show in lineage view
Parameters
Refresh
Time zone
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) Coordinated Universal Time
Configure a refresh schedule
Define a data refresh schedule to import data from the data source into the semantic model. Learn more
On
Refresh frequency
Daily
Time
5
00
PM
Add another time
Send refresh failure notifications to
Semantic model owner
These contacts:
Enter email addresses
Apply
Discard