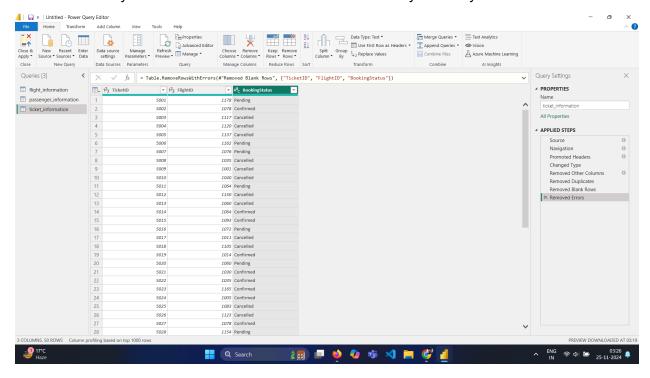
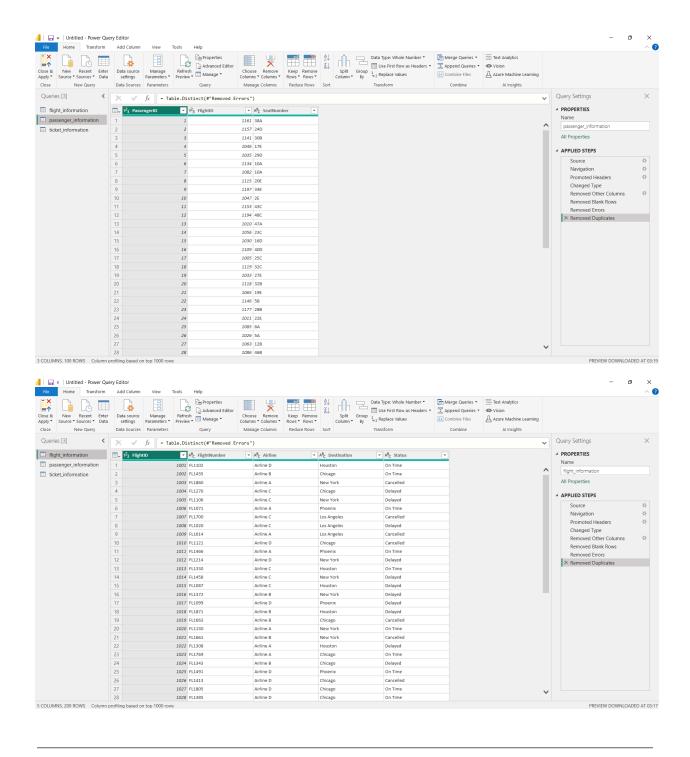
# Report on Steps Completed for the Airline Data Management Project

Video Explanation : ■ Project 3 Video Submission .mp4

# Task 1: Data Preparation and Cleaning

Loaded datasets into Power BI and used Power Query Editor to remove duplicates and handle missing values. Reformatted columns for consistency. Ensured FlightID was clean and served as the key across datasets. Cleaned data is now ready for analysis.

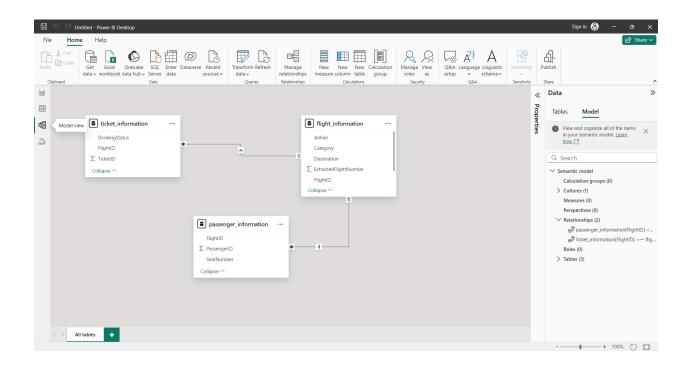




# Task 2: Data Modeling

Established relationships between datasets using FlightID as the primary key. Configured relationships as one-to-many cardinality for Flight\_Information,

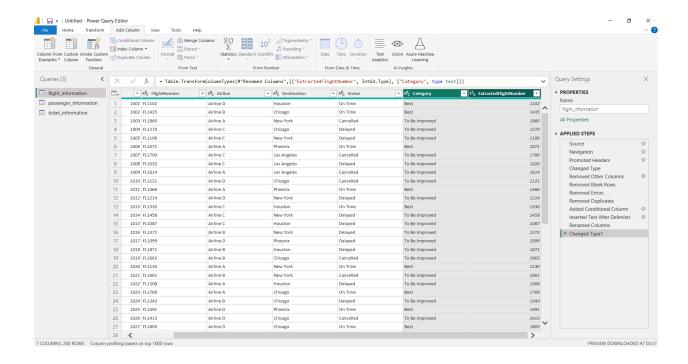
Passenger\_Information, and Ticket\_Information. Verified the integrity of data flow in the model.



## Task 3: Enhanced Data Insights

Created a conditional column classifying flights as "Best" or "To Be Improved" based on status.

Used the "Column from Examples" feature to extract numeric parts from FlightNumber.



#### **Task 4: DAX Calculations**

Created DAX formulas for:

### TotalPassengersForFlight =

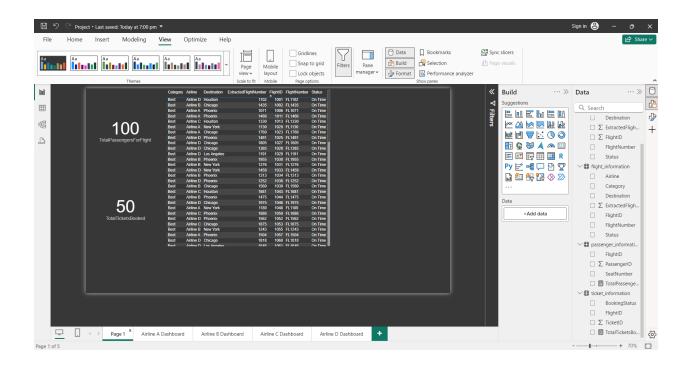
COUNTROWS (DISTINCT (passenger information))

#### **Total Tickets Booked:**

TotalTicketsBooked = COUNTROWS (ticket information)

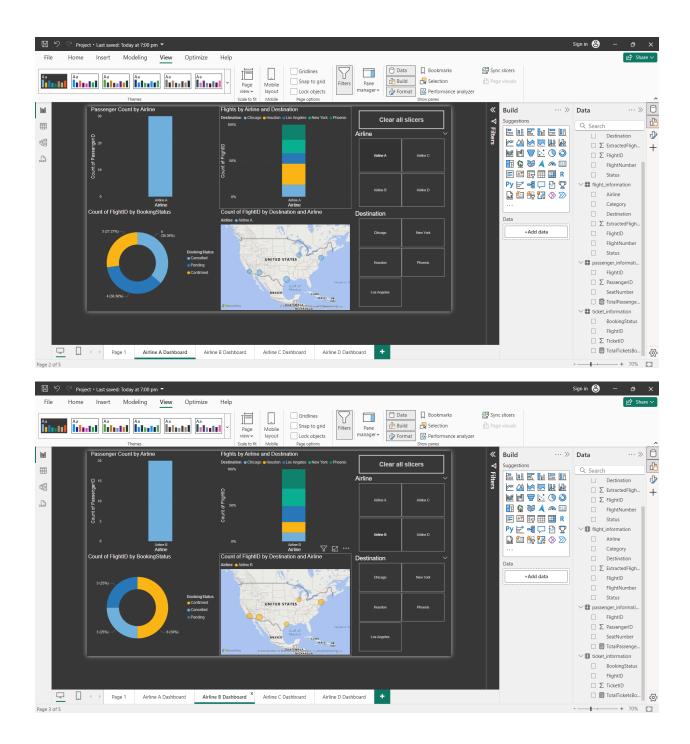
### **Filtered Table for Best Flights:**

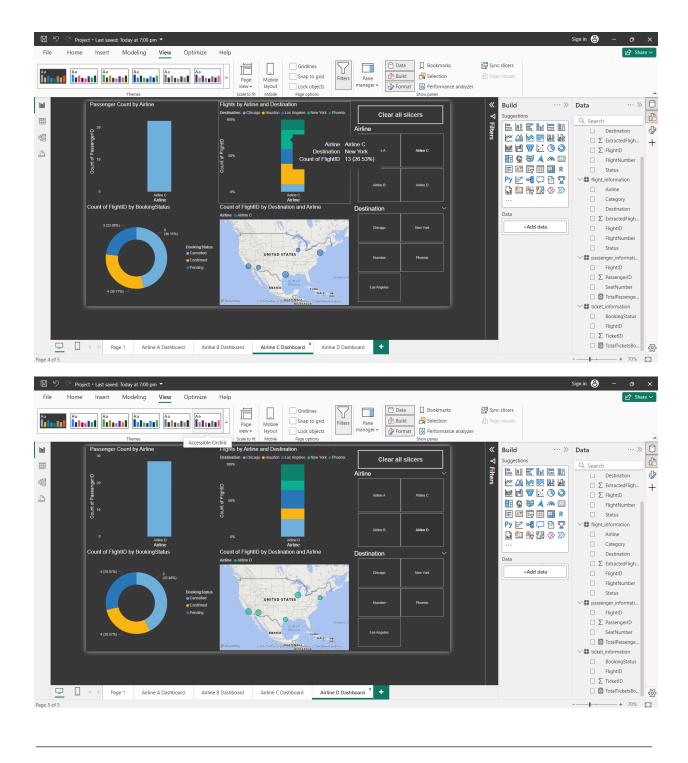
```
BestFlightsTable = FILTER(flight_information,
flight_information[Category] = "Best")
```



Task 5: Visualization and Interactivity

Developed visuals for passenger count by airline, ticket booking statuses, and flights by destination. Added slicers for dynamic filtering by airline and destination.





### Task 6: Dashboard and RLS

Designed a dashboard with KPIs, including total passengers, tickets booked, and a gauge visual showing the percentage of "Best" flights:

```
PercentageBestFlights = DIVIDE(
    COUNTROWS(FILTER(Flight_Information, Flight_Information[Category] = "Best")),
    COUNTROWS(Flight_Information),
    0
)
Then Convert it into percentage format
```

Configured RLS for Airline A and scheduled a 5 PM daily refresh.

