Task 1

Extracted and transformed data in Power Query

Removed Blank Columns from 3 Tables

Removed duplicate values from Flight ID Column under Flight Information Table

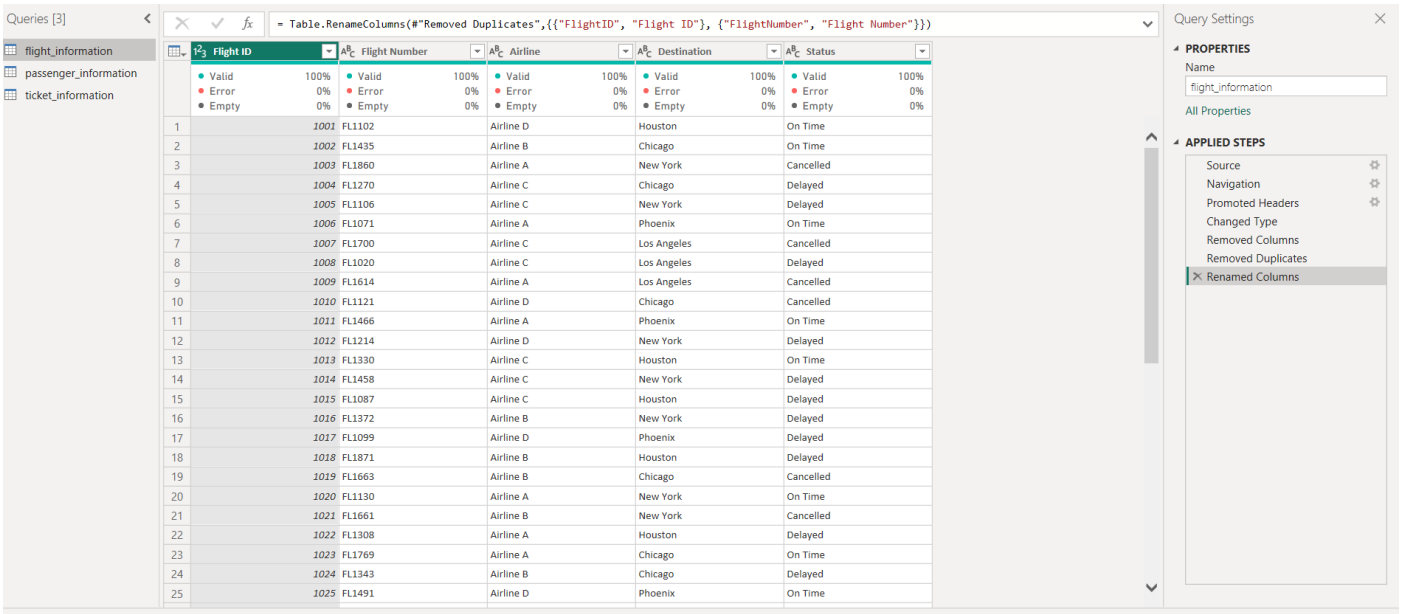
Removed duplicate values from Passenger ID and Flight ID Column under the Passenger Information Table

Removed duplicate values from Ticket ID and Flight ID Column under Ticket Information Table

We don’t have empty cells over there

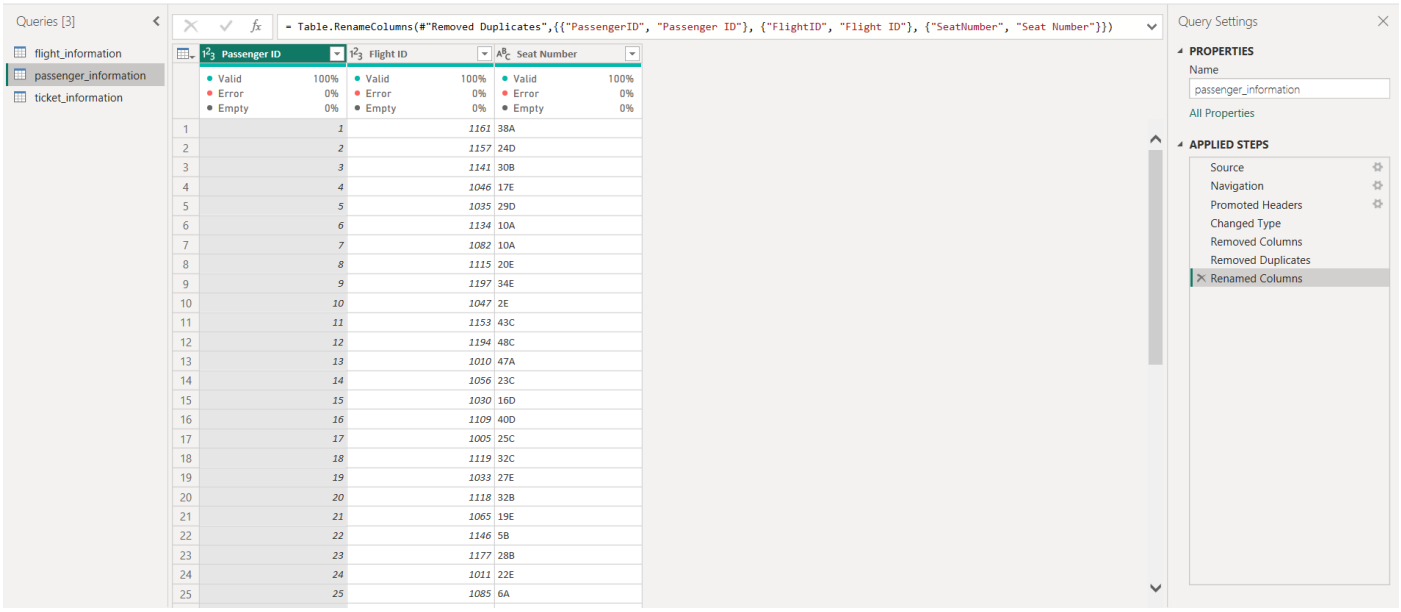
Formatted Column headers

Flight Information Table

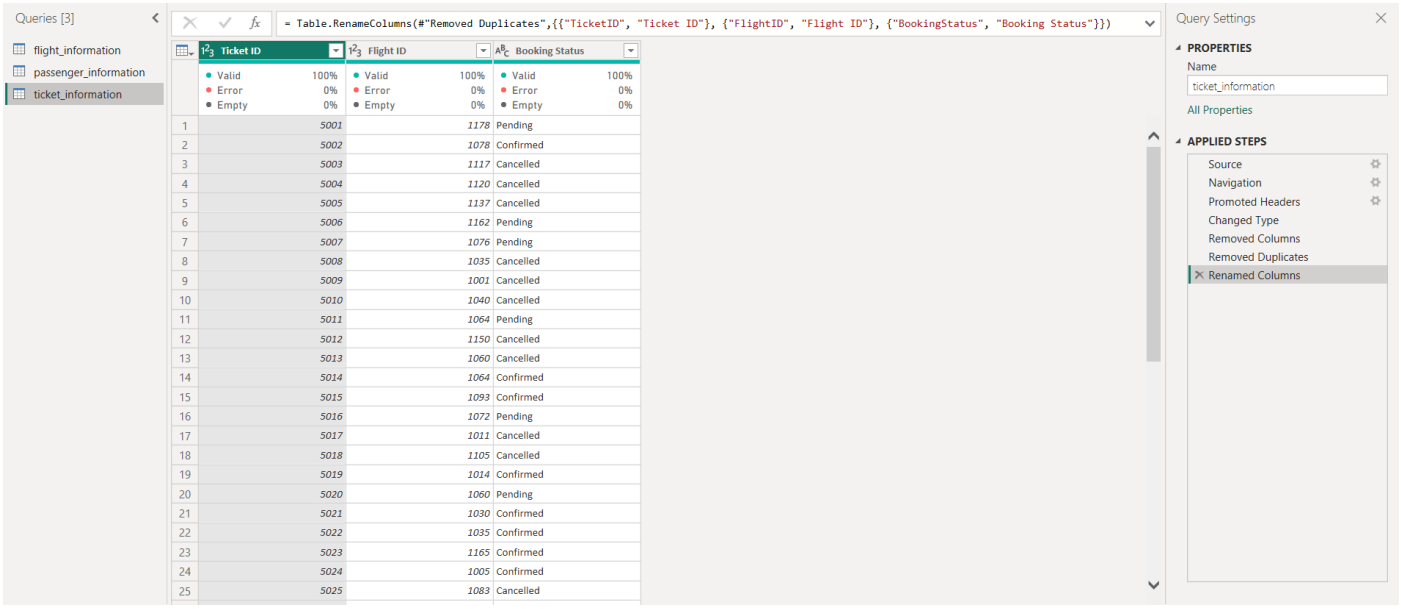


	Flight ID	Flight Number	Airline	Destination	Status
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
1	1001	FL1102	Airline D	Houston	On Time
2	1002	FL1435	Airline B	Chicago	On Time
3	1003	FL1860	Airline A	New York	Cancelled
4	1004	FL1270	Airline C	Chicago	Delayed
5	1005	FL1106	Airline C	New York	Delayed
6	1006	FL1071	Airline A	Phoenix	On Time
7	1007	FL1700	Airline C	Los Angeles	Cancelled
8	1008	FL1020	Airline C	Los Angeles	Delayed
9	1009	FL1614	Airline A	Los Angeles	Cancelled
10	1010	FL1121	Airline D	Chicago	Cancelled
11	1011	FL1466	Airline A	Phoenix	On Time
12	1012	FL1214	Airline D	New York	Delayed
13	1013	FL1330	Airline C	Houston	On Time
14	1014	FL1458	Airline C	New York	Delayed
15	1015	FL1087	Airline C	Houston	Delayed
16	1016	FL1372	Airline B	New York	Delayed
17	1017	FL1099	Airline D	Phoenix	Delayed
18	1018	FL1871	Airline B	Houston	Delayed
19	1019	FL1663	Airline B	Chicago	Cancelled
20	1020	FL1130	Airline A	New York	On Time
21	1021	FL1661	Airline B	New York	Cancelled
22	1022	FL1308	Airline A	Houston	Delayed
23	1023	FL1769	Airline A	Chicago	On Time
24	1024	FL1343	Airline B	Chicago	Delayed
25	1025	FL1491	Airline D	Phoenix	On Time

Passenger Information Table



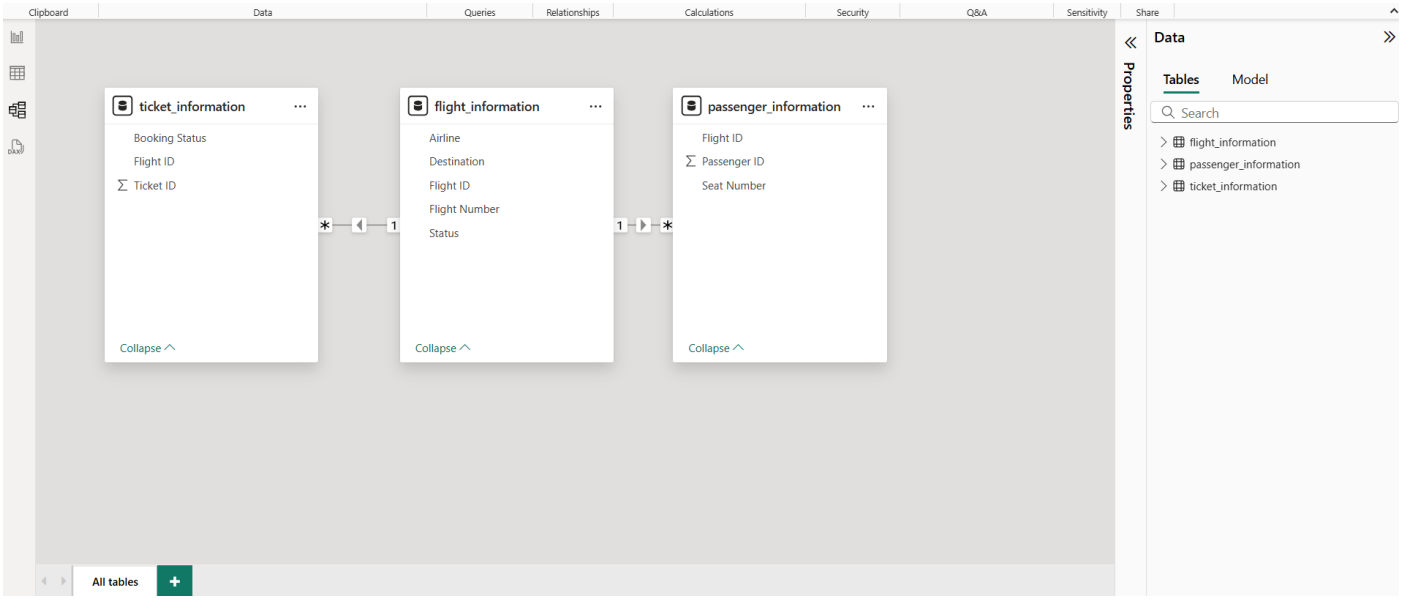
Ticket Information Table



We will click on Close & Apply

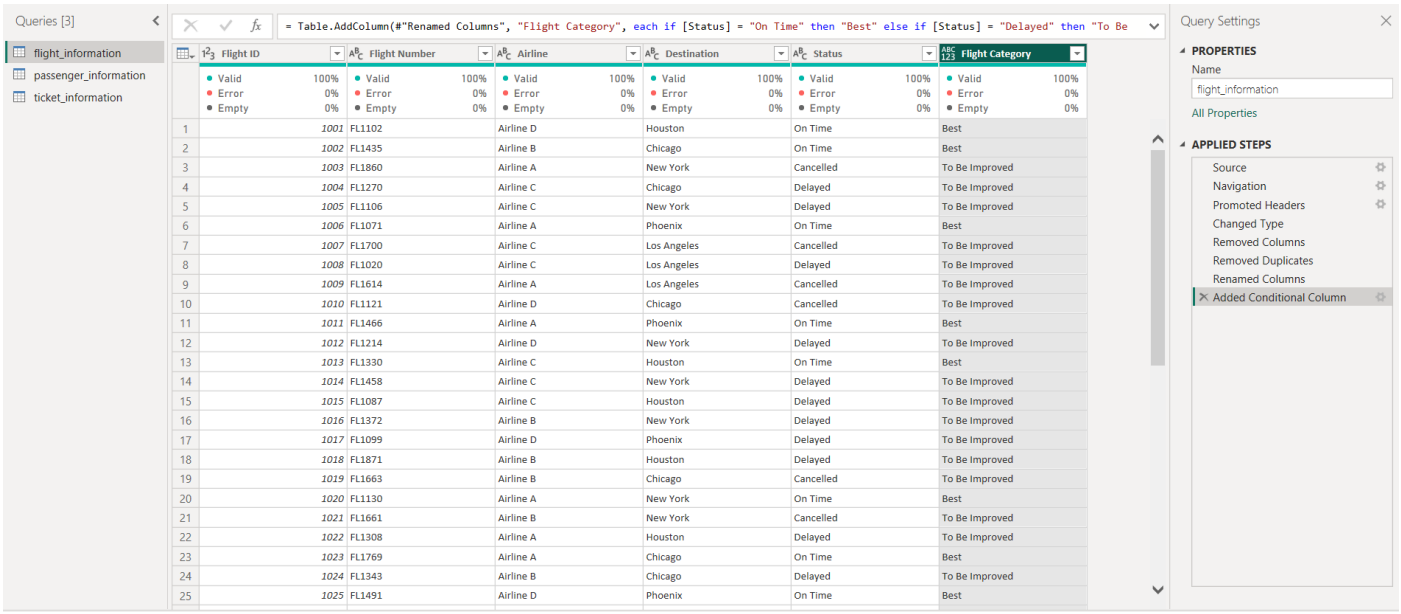
Task 2

Created relationships between datasets (FlightID as the key).



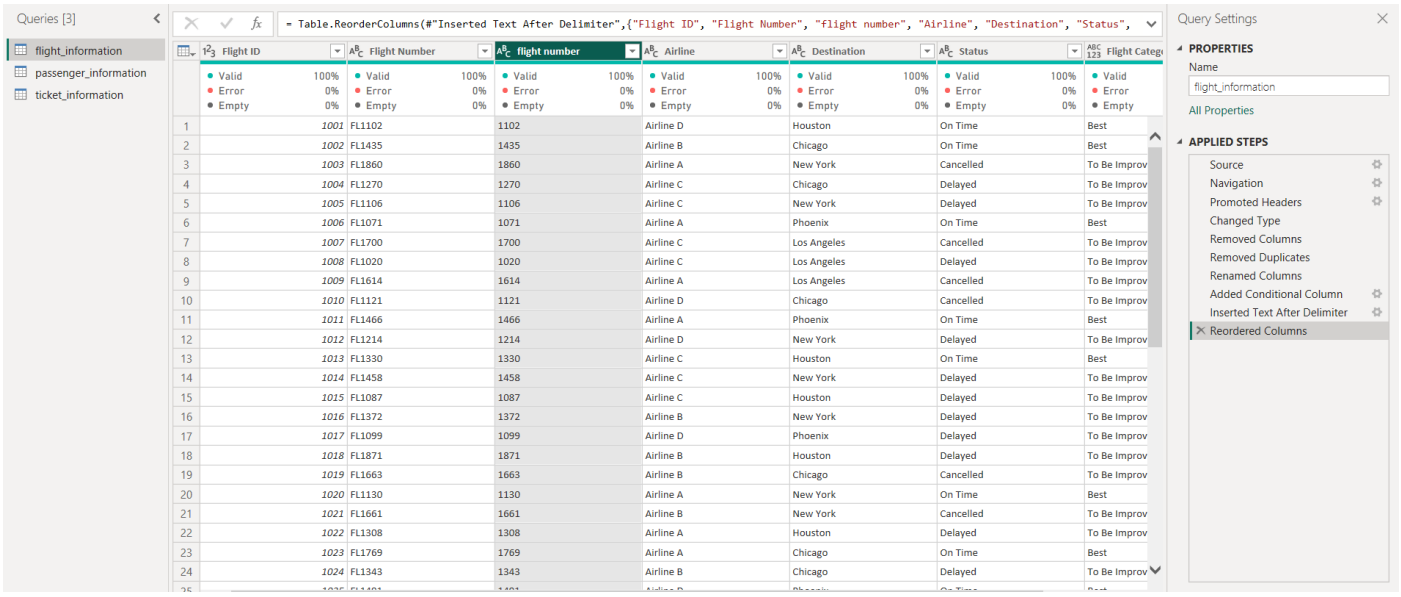
Task 3

Added a conditional column to classify flights as "Best" or "To Be Improved" based on status.



	Flight ID	Flight Number	Airline	Destination	Status	Flight Category
1	1001	FL1102	Airline D	Houston	On Time	Best
2	1002	FL1435	Airline B	Chicago	On Time	Best
3	1003	FL1860	Airline A	New York	Cancelled	To Be Improved
4	1004	FL1270	Airline C	Chicago	Delayed	To Be Improved
5	1005	FL1106	Airline C	New York	Delayed	To Be Improved
6	1006	FL1071	Airline A	Phoenix	On Time	Best
7	1007	FL1700	Airline C	Los Angeles	Cancelled	To Be Improved
8	1008	FL1020	Airline C	Los Angeles	Delayed	To Be Improved
9	1009	FL1614	Airline A	Los Angeles	Cancelled	To Be Improved
10	1010	FL1121	Airline D	Chicago	Cancelled	To Be Improved
11	1011	FL1466	Airline A	Phoenix	On Time	Best
12	1012	FL1214	Airline D	New York	Delayed	To Be Improved
13	1013	FL1330	Airline C	Houston	On Time	Best
14	1014	FL1458	Airline C	New York	Delayed	To Be Improved
15	1015	FL1087	Airline C	Houston	Delayed	To Be Improved
16	1016	FL1372	Airline B	New York	Delayed	To Be Improved
17	1017	FL1099	Airline D	Phoenix	Delayed	To Be Improved
18	1018	FL1871	Airline B	Houston	Delayed	To Be Improved
19	1019	FL1663	Airline B	Chicago	Cancelled	To Be Improved
20	1020	FL1130	Airline A	New York	On Time	Best
21	1021	FL1661	Airline B	New York	Cancelled	To Be Improved
22	1022	FL1308	Airline A	Houston	Delayed	To Be Improved
23	1023	FL1769	Airline A	Chicago	On Time	Best
24	1024	FL1343	Airline B	Chicago	Delayed	To Be Improved
25	1025	FL1491	Airline D	Phoenix	On Time	Best

Used "Column from Examples" to extract the flight number from Flight Number.



	Flight ID	Flight Number	flight number	Airline	Destination	Status	Flight Categ
1	1001	FL1102	1102	Airline D	Houston	On Time	Best
2	1002	FL1435	1435	Airline B	Chicago	On Time	Best
3	1003	FL1860	1860	Airline A	New York	Cancelled	To Be Improv
4	1004	FL1270	1270	Airline C	Chicago	Delayed	To Be Improv
5	1005	FL1106	1106	Airline C	New York	Delayed	To Be Improv
6	1006	FL1071	1071	Airline A	Phoenix	On Time	Best
7	1007	FL1700	1700	Airline C	Los Angeles	Cancelled	To Be Improv
8	1008	FL1020	1020	Airline C	Los Angeles	Delayed	To Be Improv
9	1009	FL1614	1614	Airline A	Los Angeles	Cancelled	To Be Improv
10	1010	FL1121	1121	Airline D	Chicago	Cancelled	To Be Improv
11	1011	FL1466	1466	Airline A	Phoenix	On Time	Best
12	1012	FL1214	1214	Airline D	New York	Delayed	To Be Improv
13	1013	FL1330	1330	Airline C	Houston	On Time	Best
14	1014	FL1458	1458	Airline C	New York	Delayed	To Be Improv
15	1015	FL1087	1087	Airline C	Houston	Delayed	To Be Improv
16	1016	FL1372	1372	Airline B	New York	Delayed	To Be Improv
17	1017	FL1099	1099	Airline D	Phoenix	Delayed	To Be Improv
18	1018	FL1871	1871	Airline B	Houston	Delayed	To Be Improv
19	1019	FL1663	1663	Airline B	Chicago	Cancelled	To Be Improv
20	1020	FL1130	1130	Airline A	New York	On Time	Best
21	1021	FL1661	1661	Airline B	New York	Cancelled	To Be Improv
22	1022	FL1308	1308	Airline A	Houston	Delayed	To Be Improv
23	1023	FL1769	1769	Airline A	Chicago	On Time	Best
24	1024	FL1343	1343	Airline B	Chicago	Delayed	To Be Improv

Task 4

Total passengers for a specific flight.

Total tickets booked.

DAX queries will be saved to your model They won't be visible when published in the Power BI service. Learn more

Run | Update model with changes (0) | Share feedback

```
1   // Welcome to DAX query view! Learn more about DAX queries at https://aka.ms/dax-queries.
2   // Right-click on tables, columns, or measures in the data pane to access quick queries, or ask Copilot for help writing DAX.
3   //
4   //
5   EVALUATE
6   ROW("Total Tickets Booked",CALCULATE(COUNT(ticket_information[Ticket ID])))
7
8   EVALUATE
9   FILTER(flight_information,flight_information[Flight Category]="Best")
```

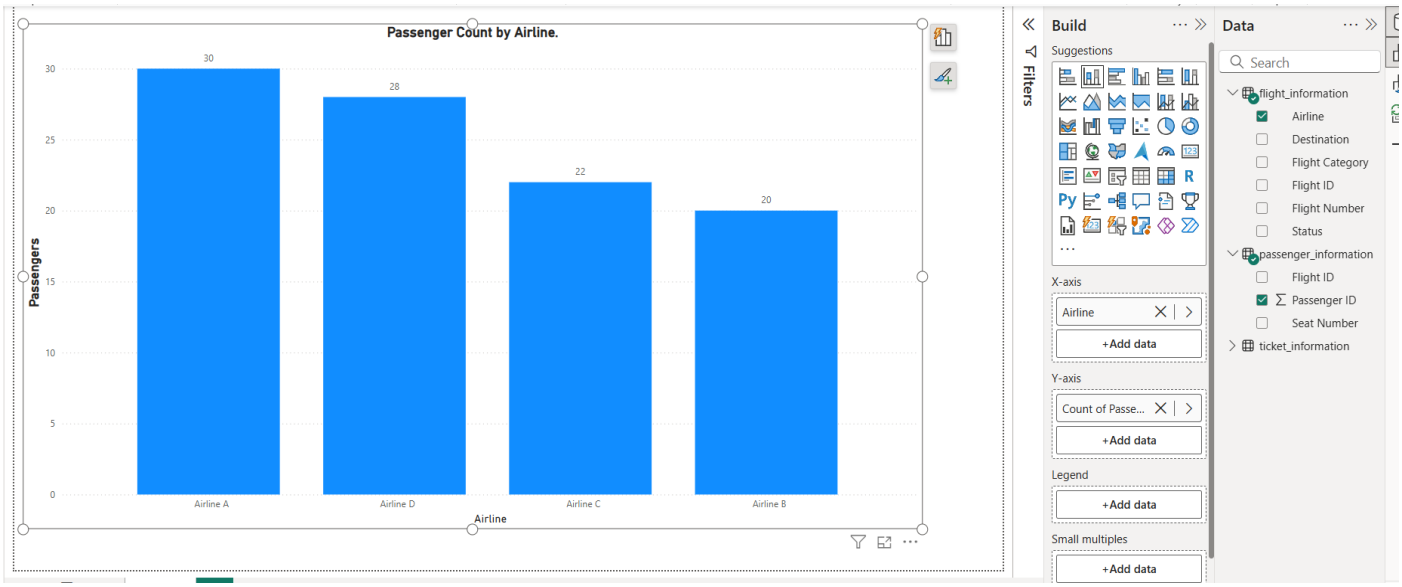
Results | Result 1 of 1 | Copy

	flight_information[Flight...	flight_information[Flight...	flight_information[Airline]	flight_information[Desti...	flight_information[Status]	flight_information[Flight...
1	1001	FL1102	Airline D	Houston	On Time	Best
2	1002	FL1435	Airline B	Chicago	On Time	Best
3	1006	FL1071	Airline A	Phoenix	On Time	Best
4	1011	FL1466	Airline A	Phoenix	On Time	Best
5	1013	FL1330	Airline C	Houston	On Time	Best
6	1020	FL1130	Airline A	New York	On Time	Best
7	1023	FL1769	Airline A	Chicago	On Time	Best
8	1025	FL1491	Airline D	Phoenix	On Time	Best

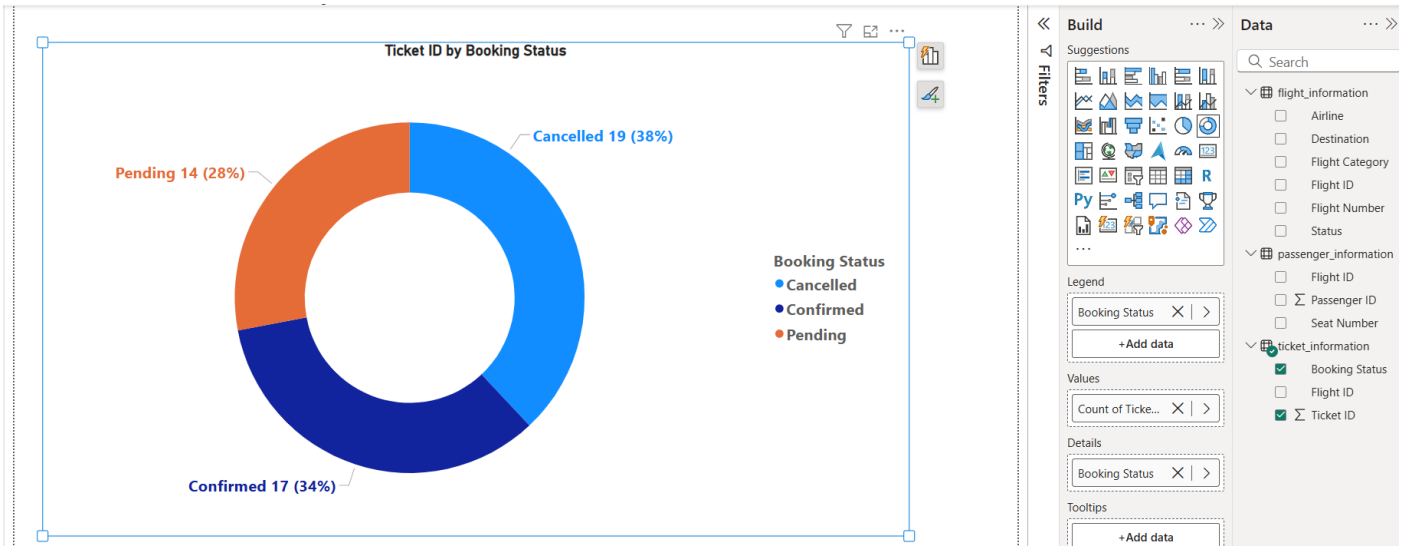
Filtered table showing "Best" flights only

Task 5

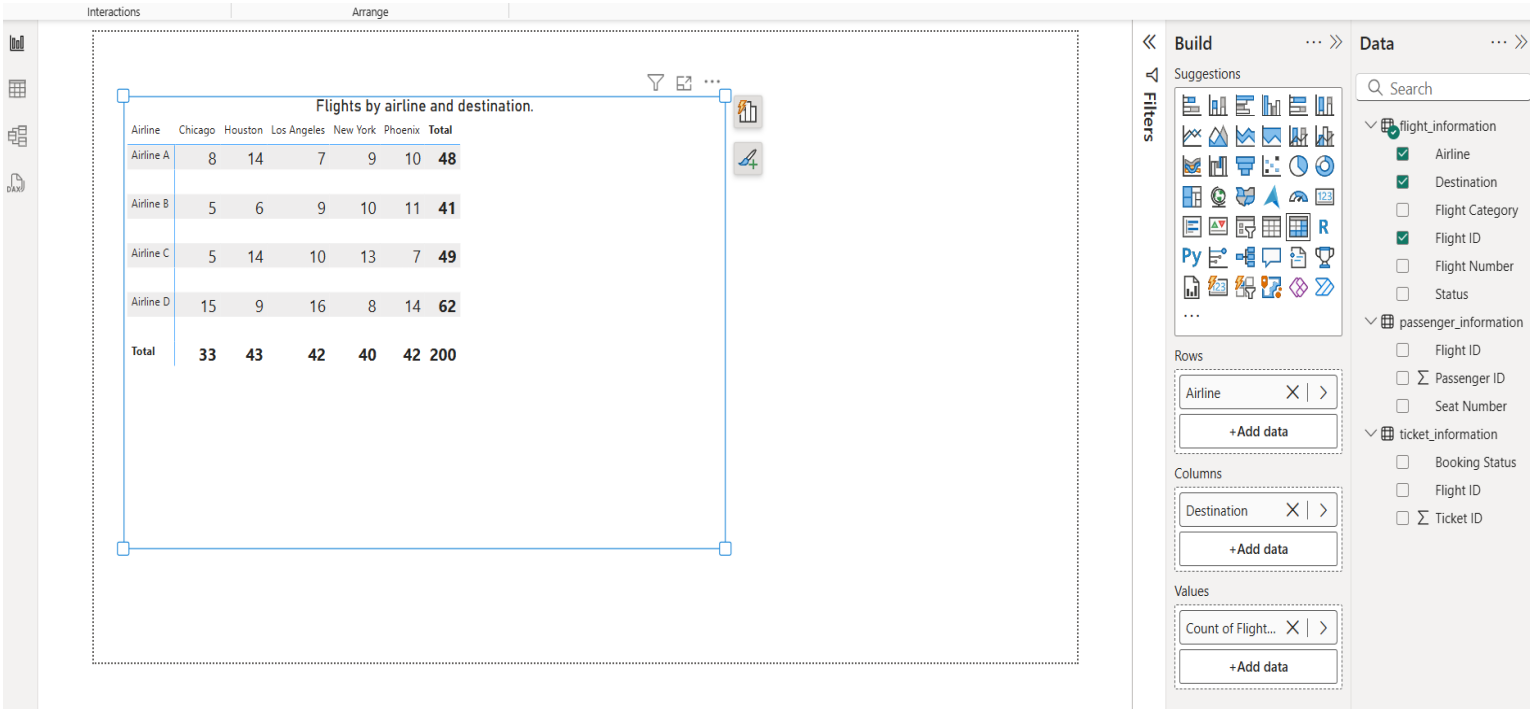
Create visuals for



Passenger count by airline.

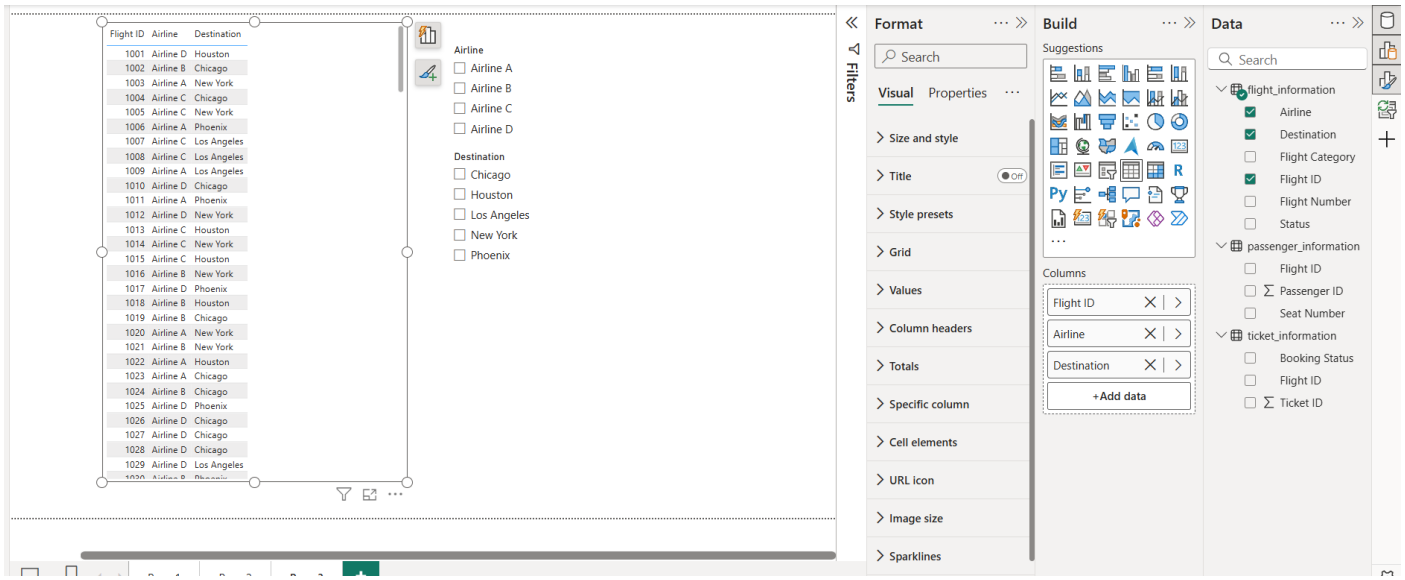


Ticket booking statuses.

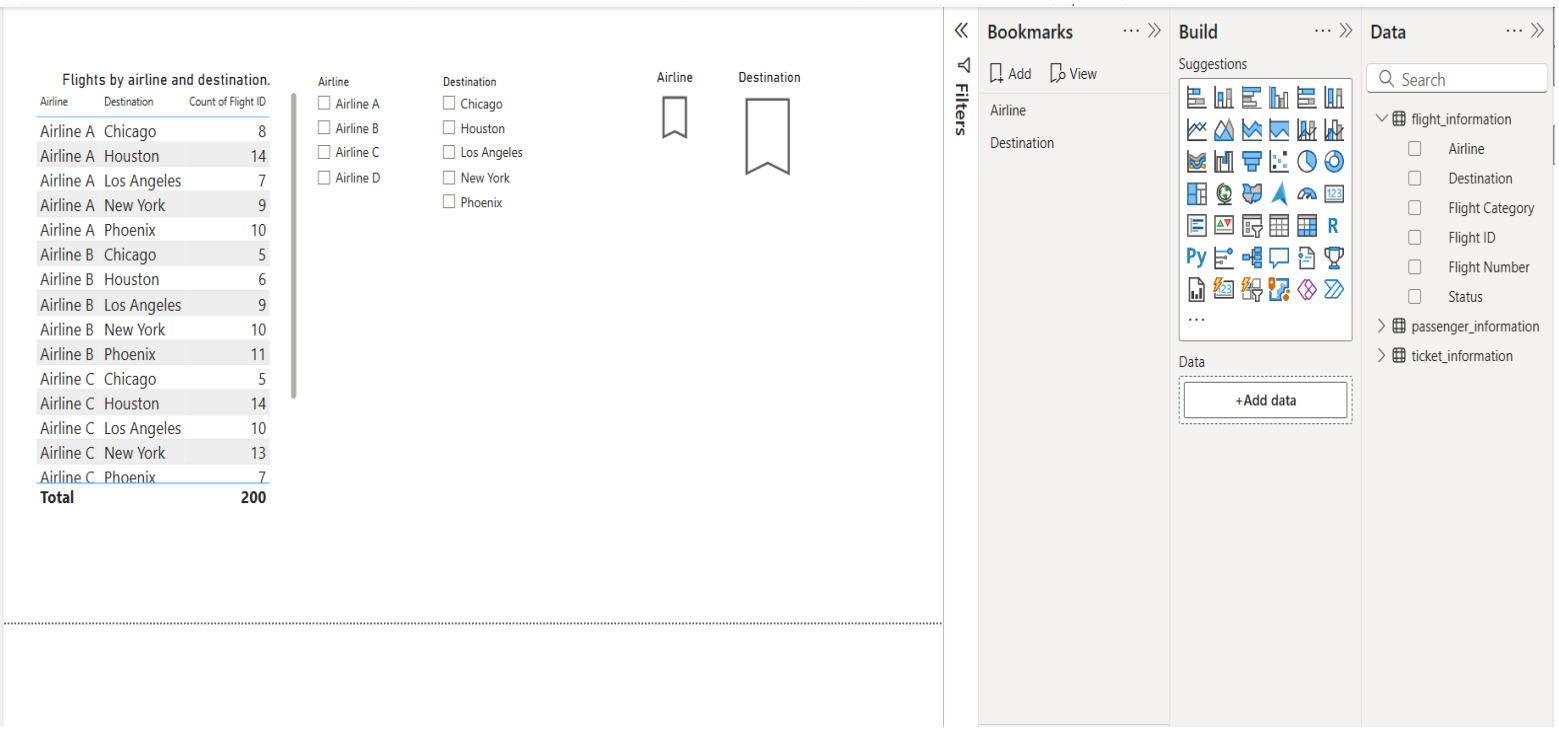


Flights by airline and destination.

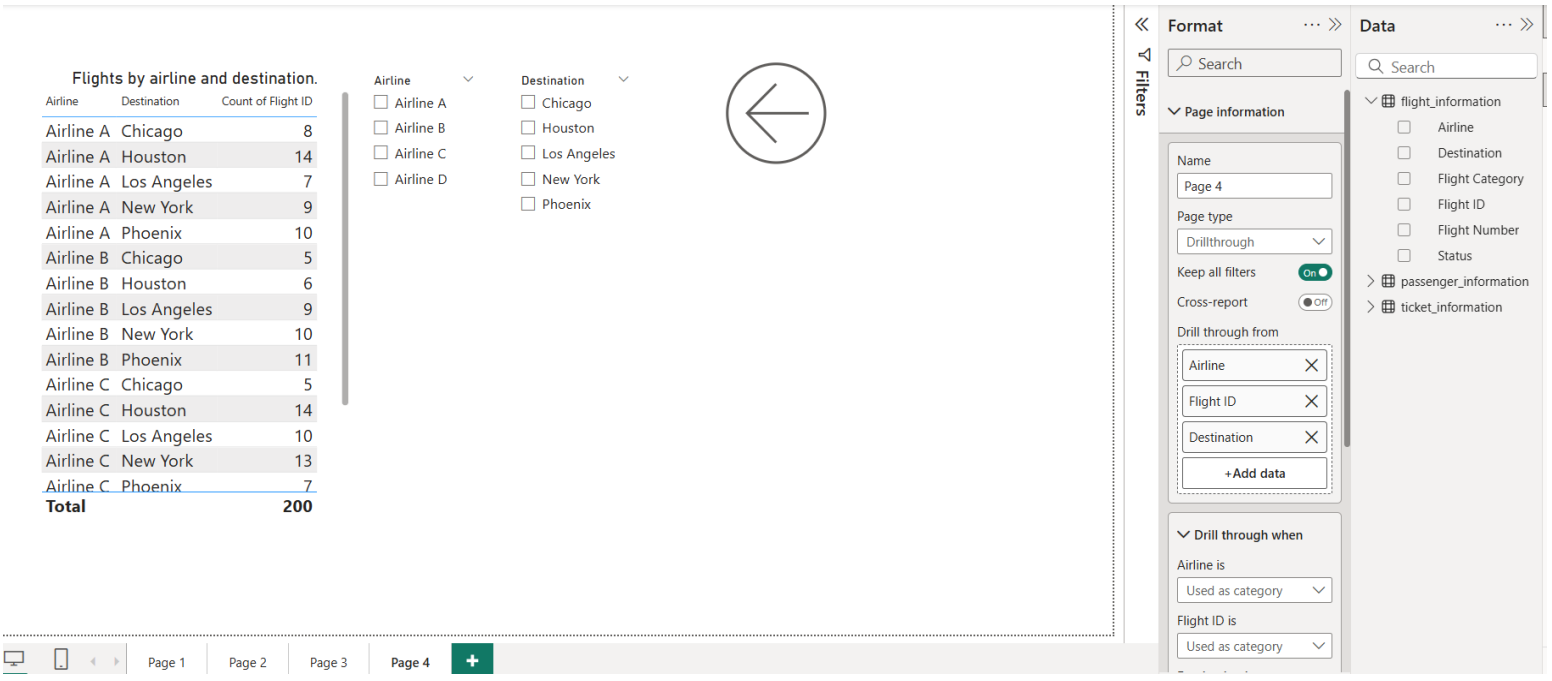
- **Added interactive features for:**



Destination and Airline.

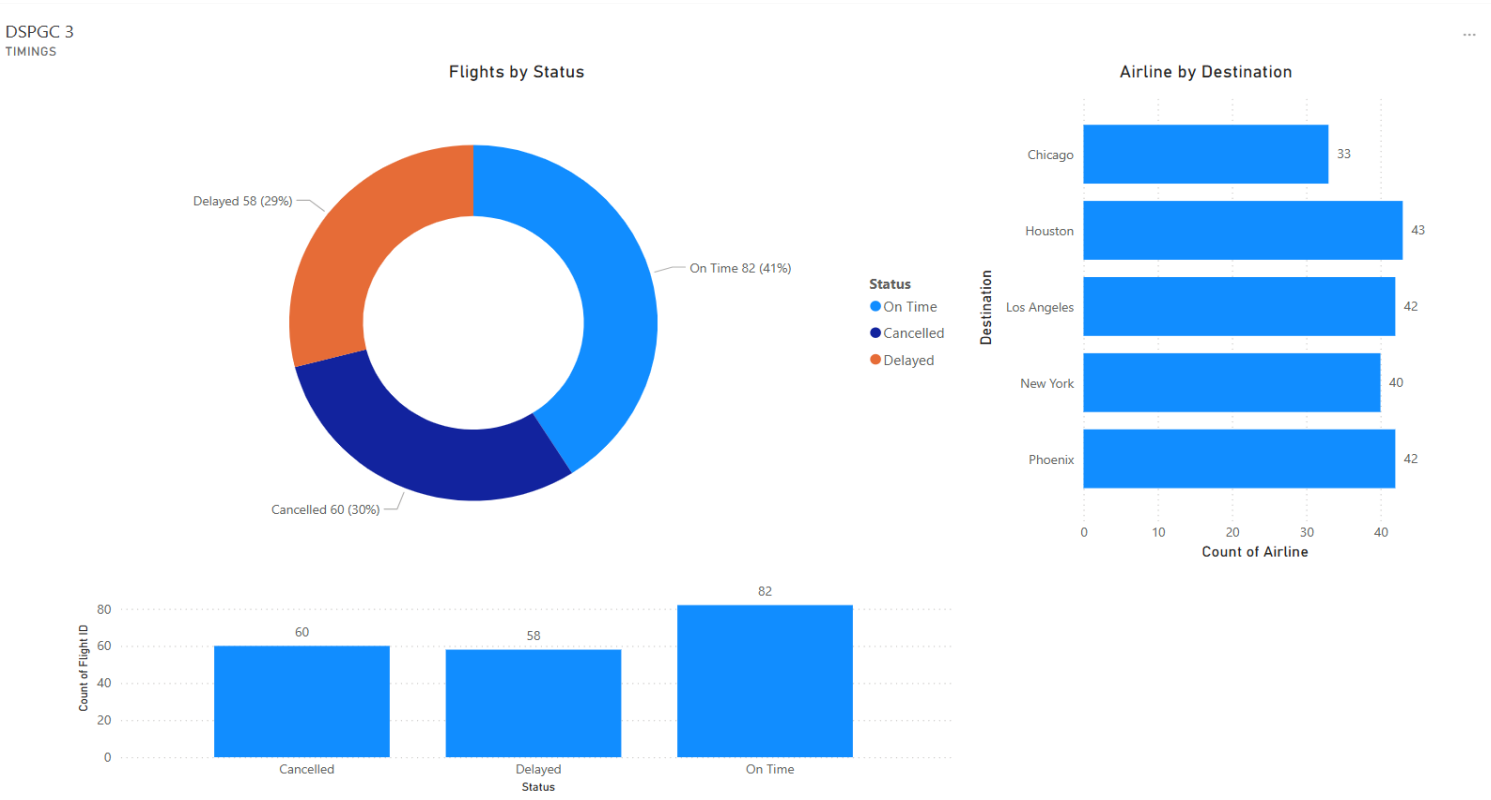


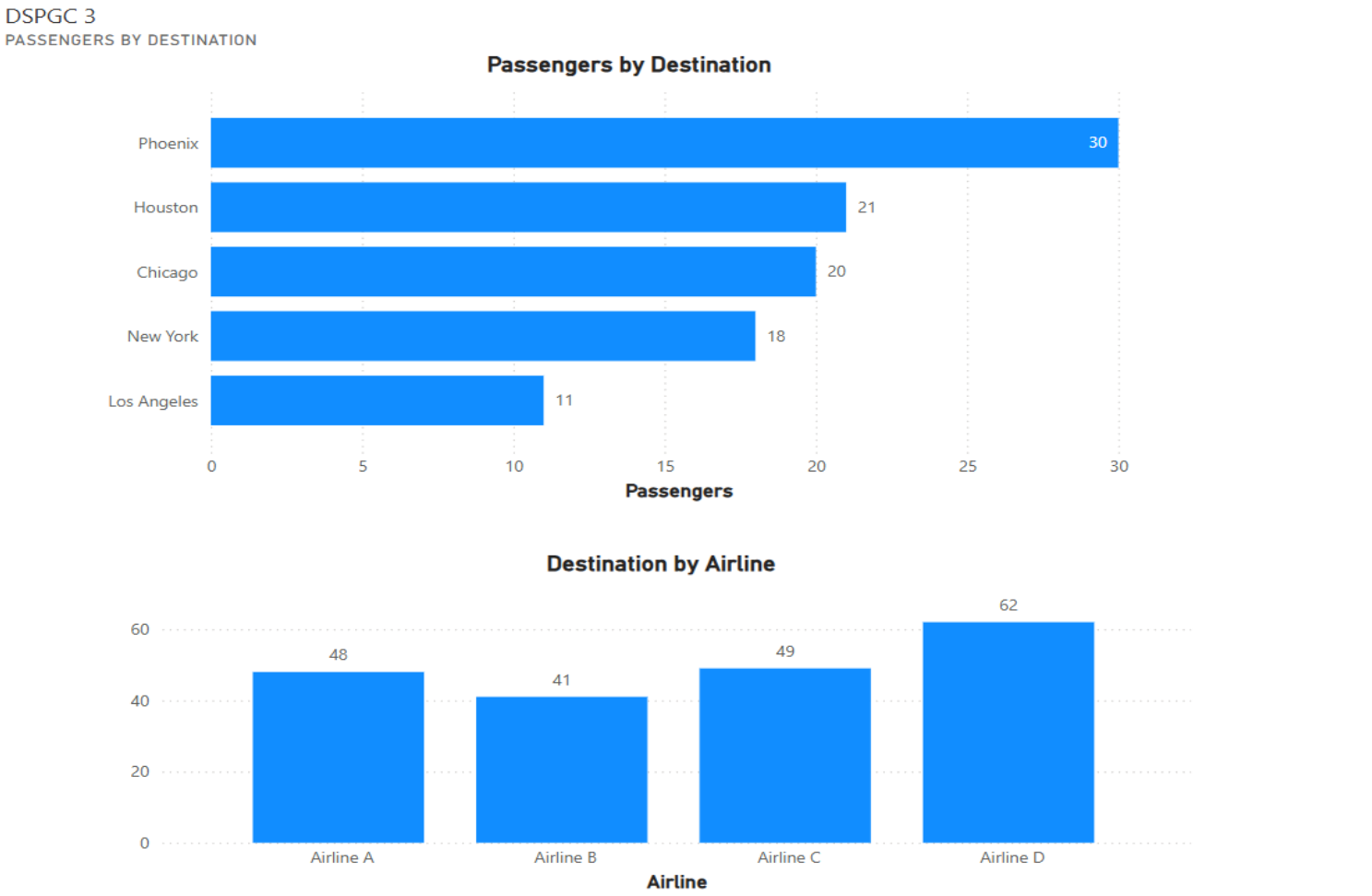
Quick views.



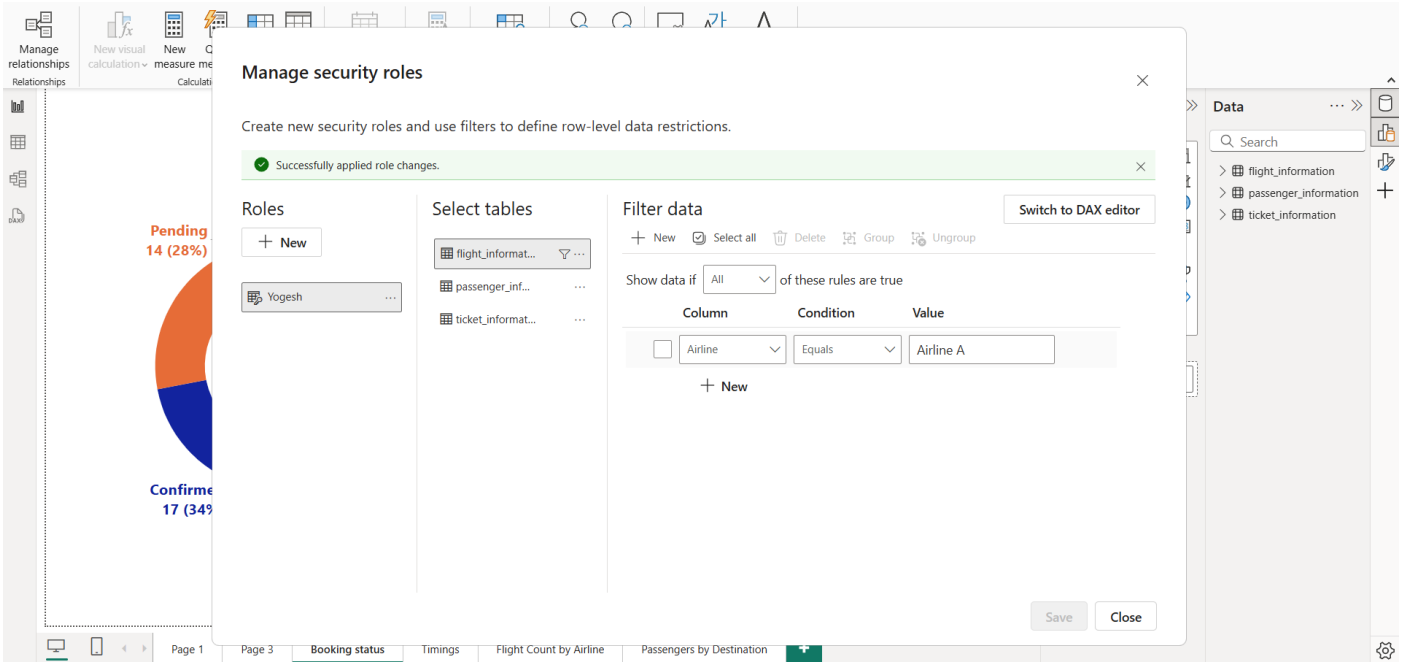
Airline-specific pages.

Task 6

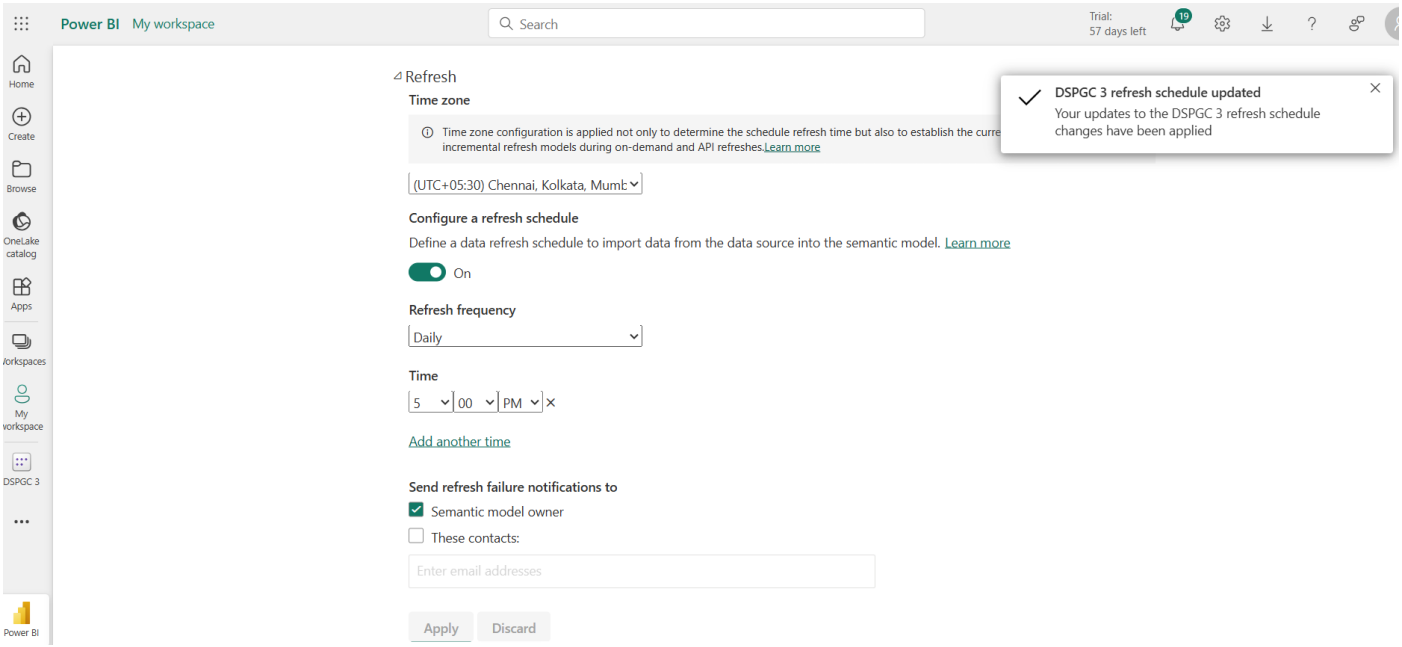




Designed a comprehensive dashboard with key visuals and insights.



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



Set upped schedule refresh at 5 PM daily.

Video Link https://drive.google.com/drive/folders/1gAiPqsBeOLvPhUrAgVe065mbN92Tndvb