

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

Queries [3]

- flight_information
- passenger_information
- ticket_information

fx

= Table.RenameColumns(#"Removed Duplicates",{{"FlightID", "Flight ID"}, {"FlightNumber", "Flight Number"}})

	Flight ID	Flight Number	Airline	Destination	Status
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

Query Settings

PROPERTIES

Name

flight_information

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Removed Columns

Removed Duplicates

Renamed Columns

Passenger Information Table

Queries [3]

flight_information

passenger_information

ticket_information

Table.RenameColumns(#"Removed Duplicates",{{"PassengerID", "Passenger ID"}, {"FlightID", "Flight ID"}, {"SeatNumber", "Seat Number"}}})

123 Passenger ID

123 Flight ID

A6 Seat Number

Valid 100%

Error 0%

Empty 0%

Valid 100%

Error 0%

Empty 0%

Valid 100%

Error 0%

Empty 0%

1	1	1161	38A
2	2	1157	24D
3	3	1141	30B
4	4	1046	17E
5	5	1035	29D
6	6	1134	10A
7	7	1082	10A
8	8	1115	20E
9	9	1197	34E
10	10	1047	2E
11	11	1153	43C
12	12	1194	48C
13	13	1010	47A
14	14	1056	23C
15	15	1030	16D
16	16	1109	40D
17	17	1005	25C
18	18	1119	32C
19	19	1033	27E
20	20	1118	32B
21	21	1065	19E
22	22	1146	5B
23	23	1177	28B
24	24	1011	22E
25	25	1085	6A

Query Settings

PROPERTIES

Name

passenger_information

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Removed Columns

Removed Duplicates

Renamed Columns

Ticket Information Table

Queries [3]

flight_information

passenger_information

ticket_information

Table.RenameColumns(#"Removed Duplicates",{{"TicketID", "Ticket ID"}, {"FlightID", "Flight ID"}, {"BookingStatus", "Booking Status"}}})

123 Ticket ID

123 Flight ID

A6 Booking Status

Valid 100%

Error 0%

Empty 0%

Valid 100%

Error 0%

Empty 0%

Valid 100%

Error 0%

Empty 0%

1	5001	1178	Pending
2	5002	1078	Confirmed
3	5003	1117	Cancelled
4	5004	1120	Cancelled
5	5005	1137	Cancelled
6	5006	1162	Pending
7	5007	1076	Pending
8	5008	1035	Cancelled
9	5009	1001	Cancelled
10	5010	1040	Cancelled
11	5011	1064	Pending
12	5012	1150	Cancelled
13	5013	1060	Cancelled
14	5014	1064	Confirmed
15	5015	1093	Confirmed
16	5016	1072	Pending
17	5017	1011	Cancelled
18	5018	1105	Cancelled
19	5019	1014	Confirmed
20	5020	1060	Pending
21	5021	1030	Confirmed
22	5022	1035	Confirmed
23	5023	1165	Confirmed
24	5024	1005	Confirmed
25	5025	1083	Cancelled

Query Settings

PROPERTIES

Name

ticket_information

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Removed Columns

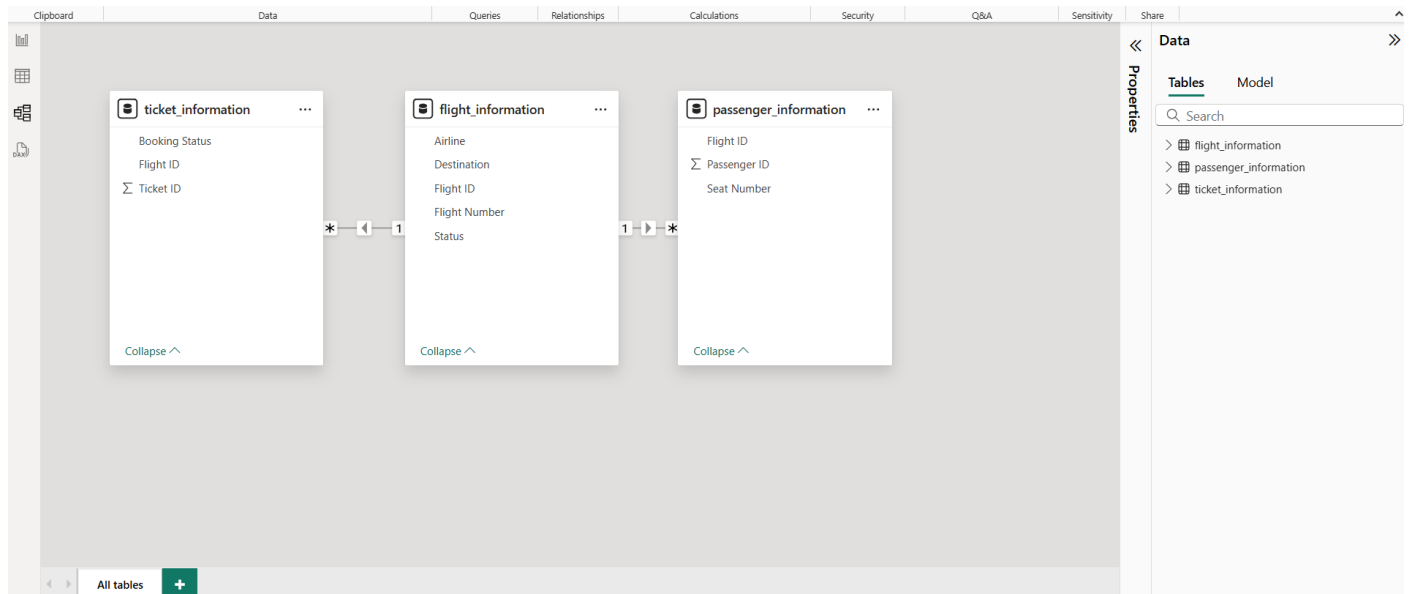
Removed Duplicates

Renamed Columns

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.

Queries [3]

flight_information

passenger_information

ticket_information

fx

= Table.AddColumn("#Renamed Columns", "Flight Category", each if [Status] = "On Time" then "Best" else if [Status] = "Delayed" then "To Be

123 Flight ID

ABC Flight Number

ABC Airline

ABC Destination

ABC Status

ABC Flight Category

Valid 100%

Valid 100%

Valid 100%

Valid 100%

Valid 100%

Valid 100%

Error 0%

Error 0%

Error 0%

Error 0%

Error 0%

Error 0%

Empty 0%

Empty 0%

Empty 0%

Empty 0%

Empty 0%

Empty 0%

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

Query Settings

PROPERTIES

Name

flight_information

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Removed Columns

Removed Duplicates

Renamed Columns

Added Conditional Column

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

Queries [3]

flight_information

passenger_information

ticket_information

fx

= Table.ReorderColumns("#Inserted Text After Delimiter",{"Flight ID", "Flight Number", "flight number", "Airline", "Destination", "Status",

123 Flight ID

ABC Flight Number

ABC flight number

ABC Airline

ABC Destination

ABC Status

ABC Flight Category

Valid 100%

Valid 100%

Valid 100%

Valid 100%

Valid 100%

Valid 100%

Error 0%

Error 0%

Error 0%

Error 0%

Error 0%

Error 0%

Empty 0%

Empty 0%

Empty 0%

Empty 0%

Empty 0%

Empty 0%

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
25	1025	FL1491	1491	Airline D	Phoenix	On Time	Best

Query Settings

PROPERTIES

Name

flight_information

All Properties

APPLIED STEPS

Source

Navigation

Promoted Headers

Changed Type

Removed Columns

Removed Duplicates

Renamed Columns

Added Conditional Column

Inserted Text After Delimiter

Reordered Columns

Task 4

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 Passenger For 1161",CALCULATE(COUNT(passenger_information[Passenger ID]),passenger_information[Flight ID]=1161))
```

Results

Result 1 of 1

Copy

	[Total Passenger For 1161]
1	2

Total passengers for a specific flight.

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])))
```

Results

Result 1 of 1

Copy

	[Total Tickets Booked]
1	50

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

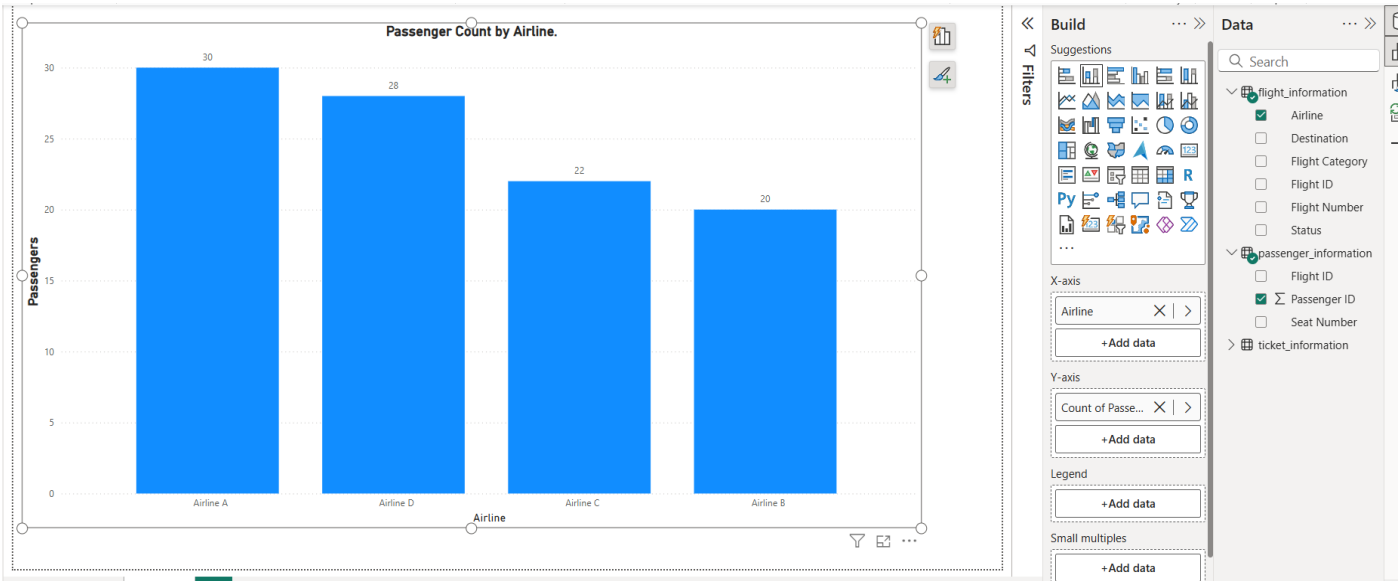
Copy

	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

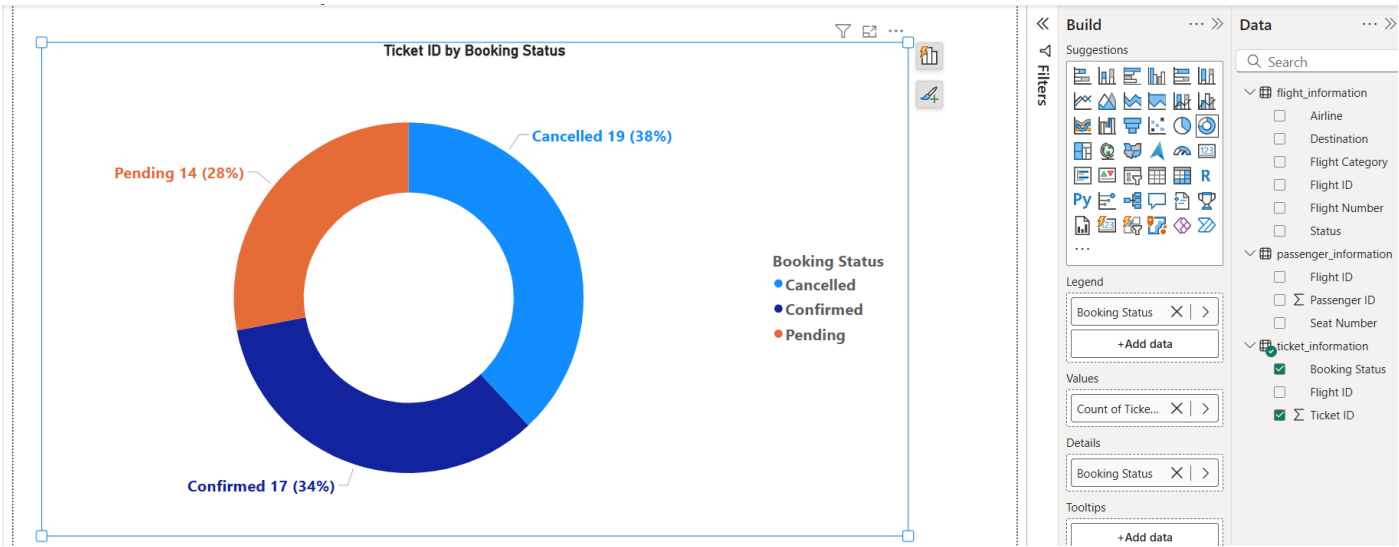
Filtered table showing "Best" flights only

Task 5

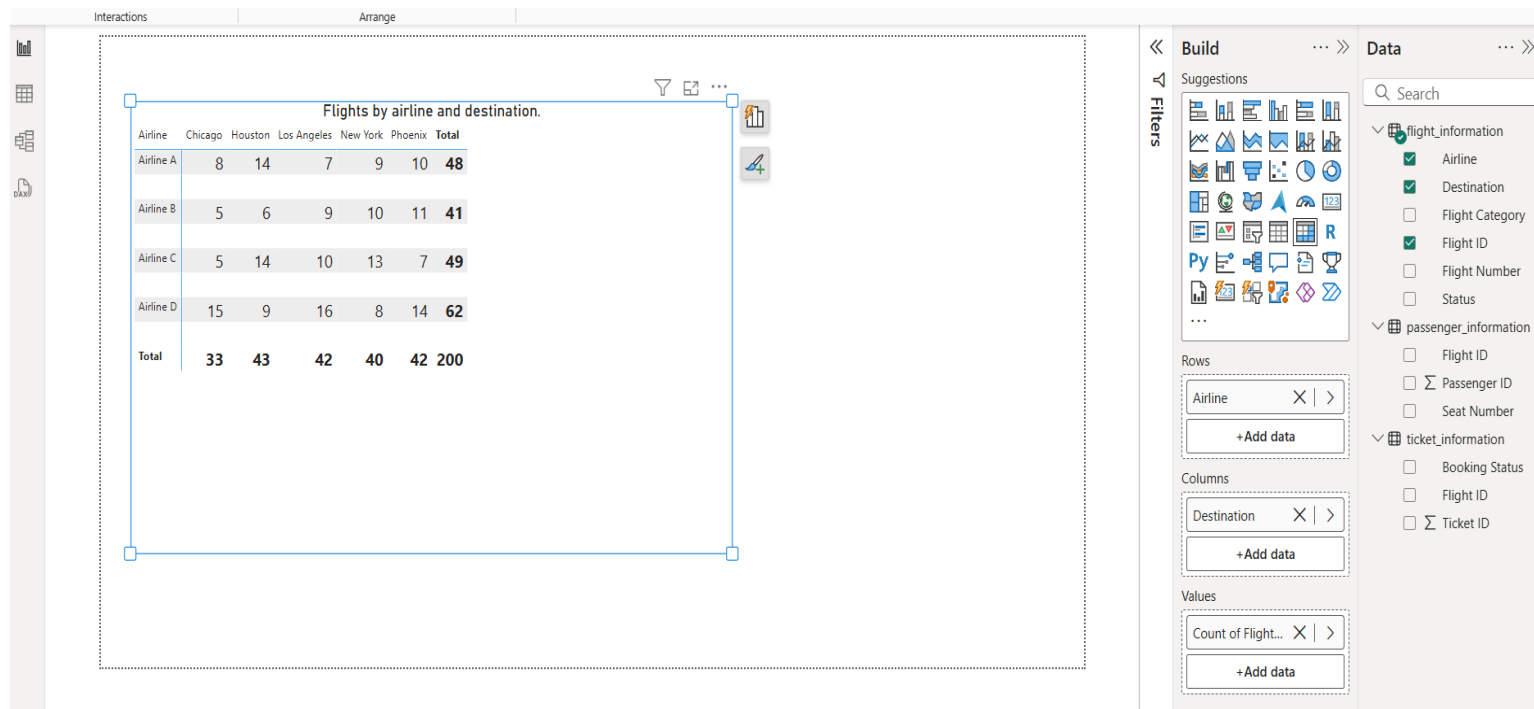
Create visuals for



Passenger count by airline.

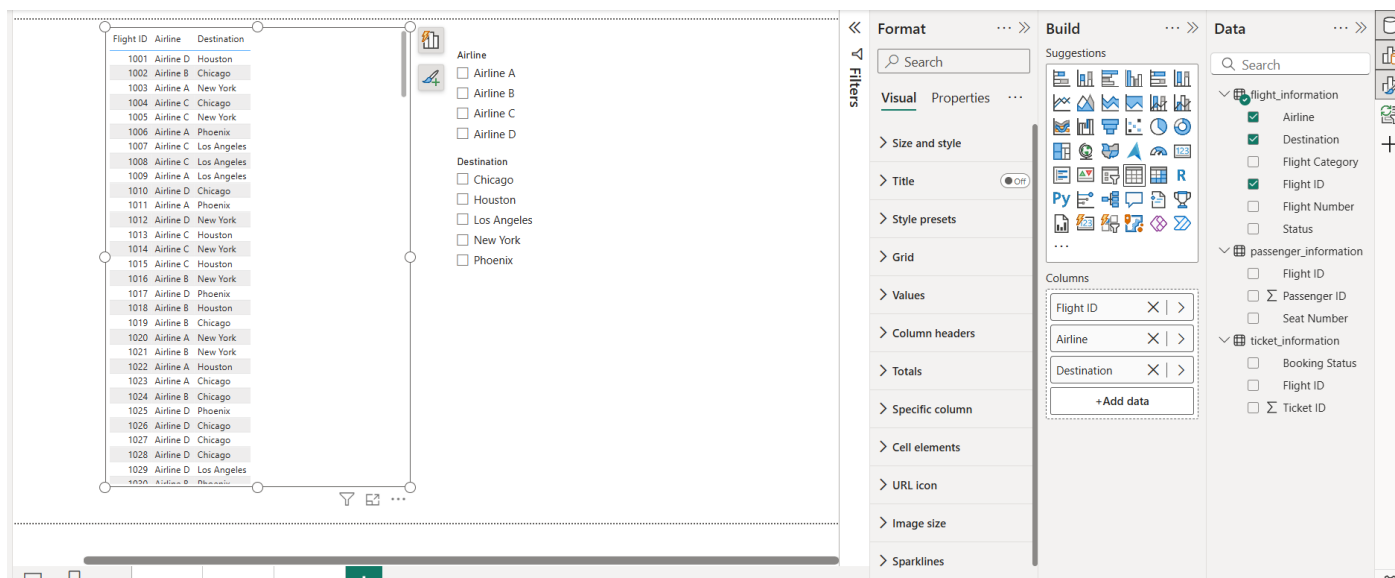


Ticket booking statuses.



Flights by airline and destination.

● Added interactive features for:



Destination and Airline.

Flights by airline and destination.

Airline	Destination	Count of Flight ID
Airline A	Chicago	8
Airline A	Houston	14
Airline A	Los Angeles	7
Airline A	New York	9
Airline A	Phoenix	10
Airline B	Chicago	5
Airline B	Houston	6
Airline B	Los Angeles	9
Airline B	New York	10
Airline B	Phoenix	11
Airline C	Chicago	5
Airline C	Houston	14
Airline C	Los Angeles	10
Airline C	New York	13
Airline C	Phoenix	7
Total		200

Airline

☐ Airline A

☐ Airline B

☐ Airline C

☐ Airline D

Destination

☐ Chicago

☐ Houston

☐ Los Angeles

☐ New York

☐ Phoenix

Airline

Destination

Bookmarks

AddView

Airline

Destination

Build

Suggestions

Data

+Add data

Data

Search

flight_information

Airline

Destination

Flight Category

Flight ID

Flight Number

Status

passenger_information

ticket_information

Quick views.

Flights by airline and destination.

Airline	Destination	Count of Flight ID
Airline A	Chicago	8
Airline A	Houston	14
Airline A	Los Angeles	7
Airline A	New York	9
Airline A	Phoenix	10
Airline B	Chicago	5
Airline B	Houston	6
Airline B	Los Angeles	9
Airline B	New York	10
Airline B	Phoenix	11
Airline C	Chicago	5
Airline C	Houston	14
Airline C	Los Angeles	10
Airline C	New York	13
Airline C	Phoenix	7
Total		200

Airline

☐ Airline A

☐ Airline B

☐ Airline C

☐ Airline D

Destination

☐ Chicago

☐ Houston

☐ Los Angeles

☐ New York

☐ Phoenix

←

Format

Search

Page information

Name

Page 4

Page type

Drillthrough

Keep all filters

On

Cross-report

Off

Drill through from

Airline

Flight ID

Destination

+Add data

Drill through when

Airline is

Used as category

Flight ID is

Used as category

Data

Search

flight_information

Airline

Destination

Flight Category

Flight ID

Flight Number

Status

passenger_information

ticket_information

Page 1

Page 2

Page 3

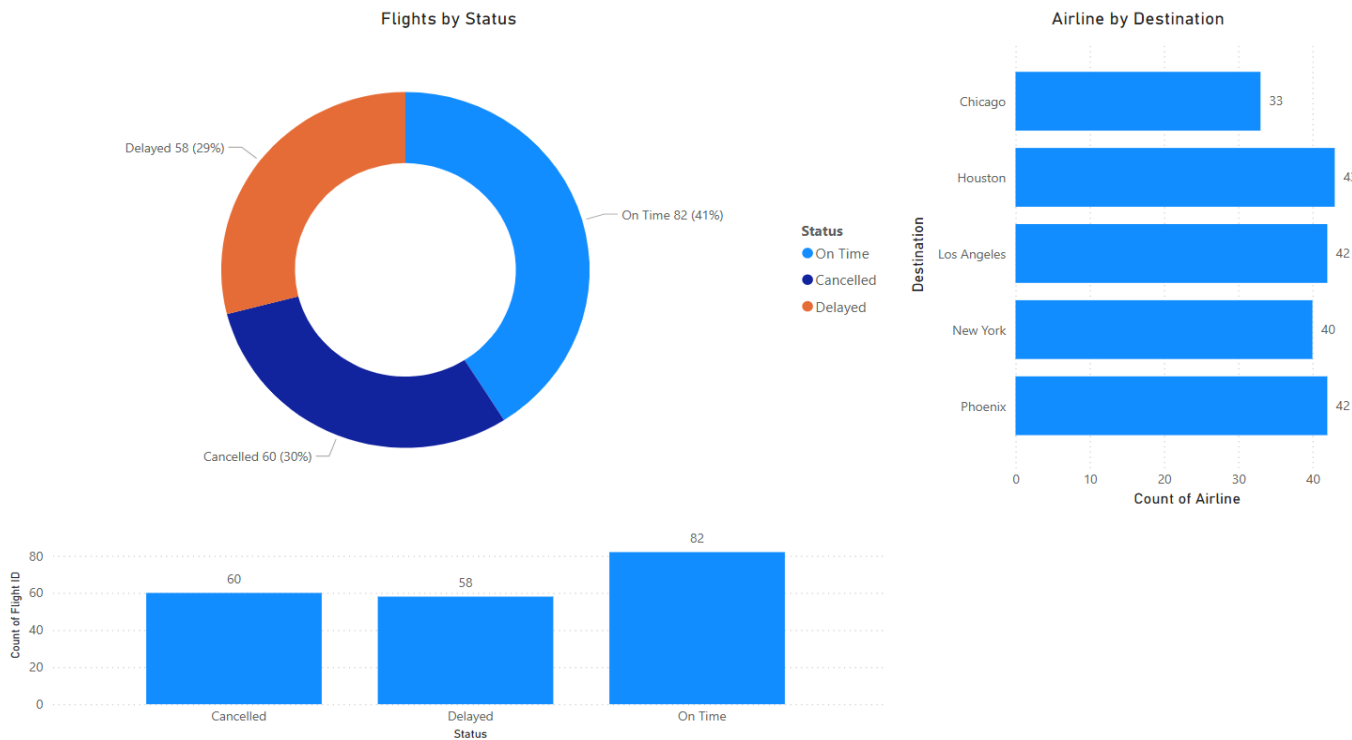
Page 4

+

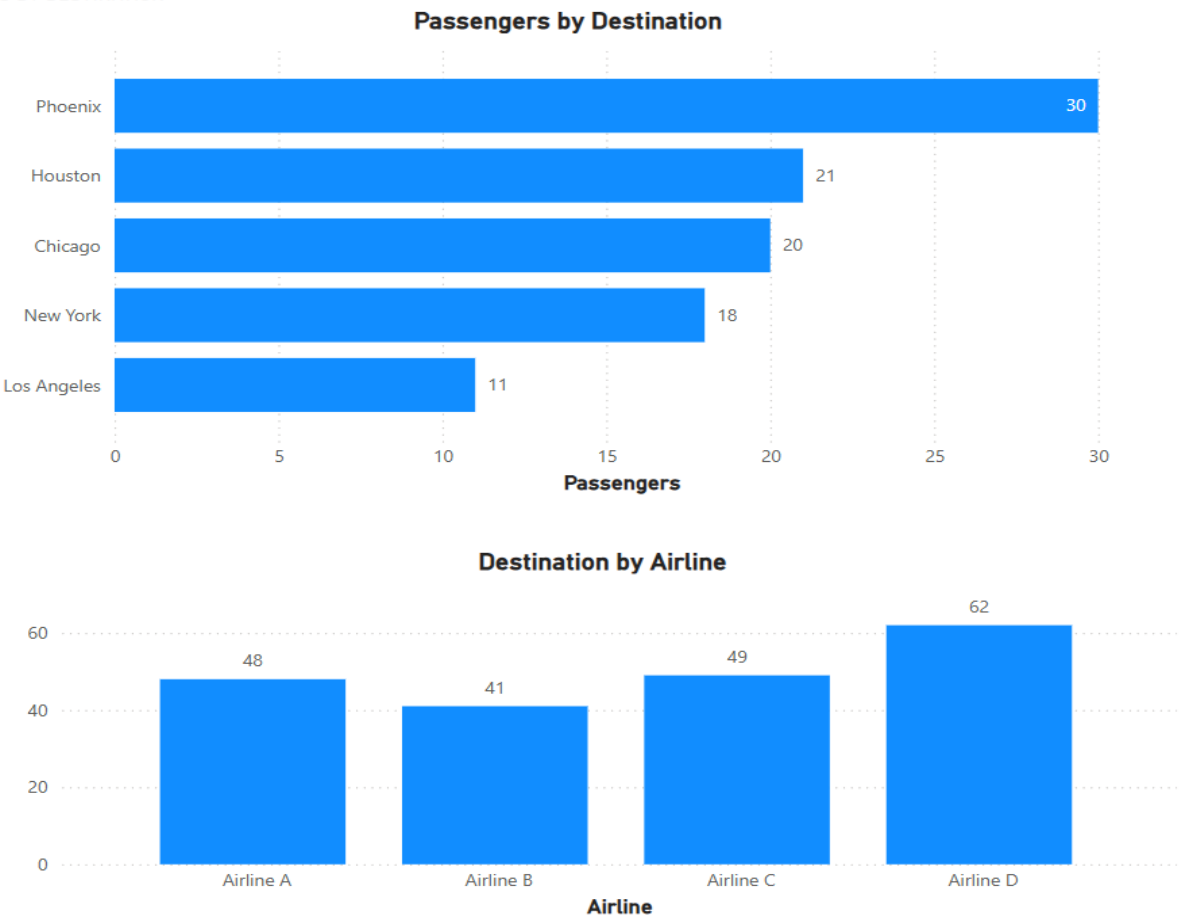
Airline-specific pages.

Task 6

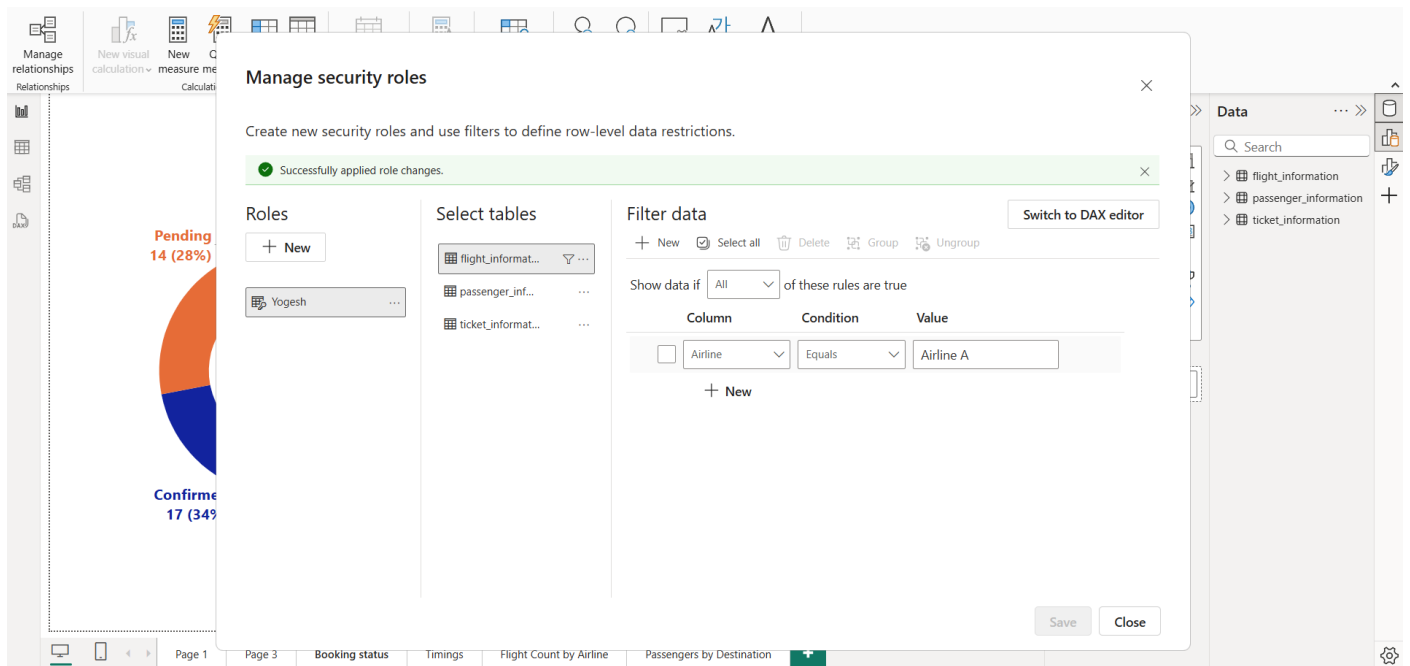
DSPGC 3
TIMINGS



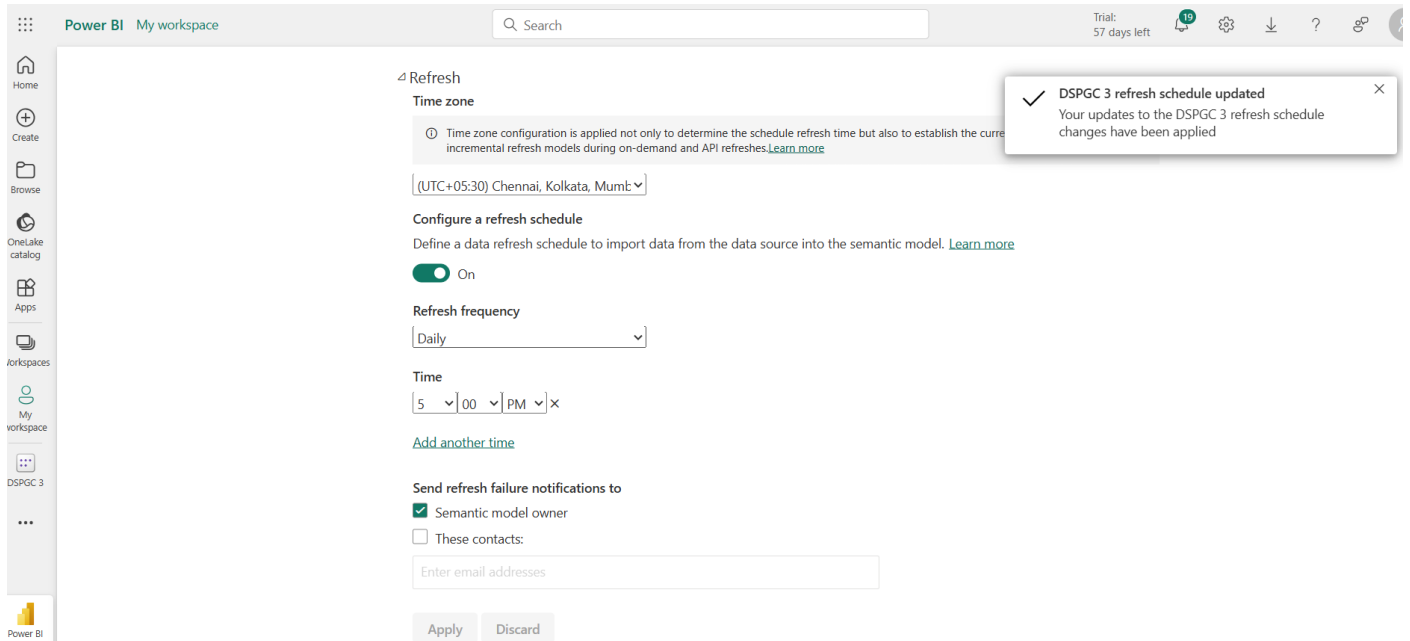
DSPGC 3
PASSENGERS BY DESTINATION



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>

