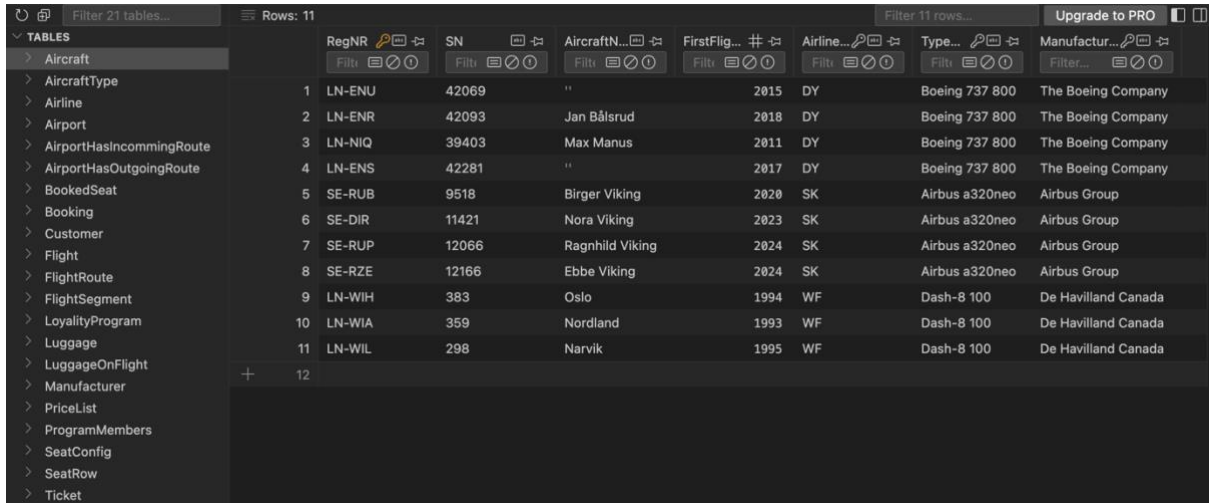


Output for Use Cases

Note: The **blue** text displayed in the terminal output after running the Python scripts represents data entered by the user.

- Use Case 1-4:

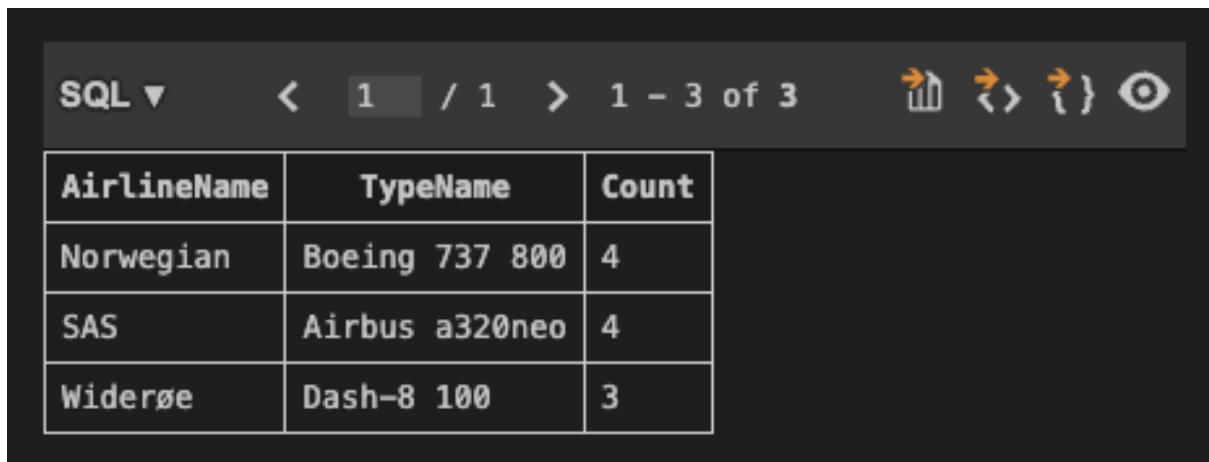


The screenshot shows a database management interface with a table containing 11 rows of data. The table has columns for RegNR, SN, AircraftN..., FirstFlig..., Airline..., Type..., and Manufactur... The data includes flight information for various airlines like Norwegian, SAS, and Widerøe.

RegNR	SN	AircraftN...	FirstFlig...	Airline...	Type...	Manufactur...
1 LN-ENU	42069	"	2015	DY	Boeing 737 800	The Boeing Company
2 LN-ENR	42093	Jan Bålsrud	2018	DY	Boeing 737 800	The Boeing Company
3 LN-NIQ	39403	Max Manus	2011	DY	Boeing 737 800	The Boeing Company
4 LN-ENS	42281	"	2017	DY	Boeing 737 800	The Boeing Company
5 SE-RUB	9518	Birger Viking	2020	SK	Airbus a320neo	Airbus Group
6 SE-DIR	11421	Nora Viking	2023	SK	Airbus a320neo	Airbus Group
7 SE-RUP	12066	Ragnhild Viking	2024	SK	Airbus a320neo	Airbus Group
8 SE-RZE	12166	Ebbe Viking	2024	SK	Airbus a320neo	Airbus Group
9 LN-WIH	383	Oslo	1994	WF	Dash-8 100	De Havilland Canada
10 LN-WIA	359	Nordland	1993	WF	Dash-8 100	De Havilland Canada
11 LN-WIL	298	Narvik	1995	WF	Dash-8 100	De Havilland Canada

Figure 1: The database after initialization and insertion

- Use Case 5:



The screenshot shows a SQL query result in a database management tool. The query is displayed as 'SQL' and the result is shown as a table with 3 rows. The table has columns for AirlineName, TypeName, and Count. The data includes Norwegian, SAS, and Widerøe.

AirlineName	TypeName	Count
Norwegian	Boeing 737 800	4
SAS	Airbus a320neo	4
Widerøe	Dash-8 100	3

Figure 2: This table is shown after running Use Case 5

- Use Case 6:

```
Available Airports:
BGO: Bergen lufthavn, Flesland
B00: Bodø Lufthavn
OSL: Oslo lufthavn, Gardermoen
SVG: Stavanger lufthavn, Sola
TRD: Trondheim lufthavn, Værnes

Choose an airport [Use airport code from list]:
> TRD

Choose a weekday [1-7]:
> 2

Departures or arrivals? [departures, arrivals]:
> Departures

Result:
• RouteID: SK888, Earliest Departure: 10:00, Full Route: TRD->BGO, BGO->SVG
• RouteID: DY753, Earliest Departure: 10:20, Full Route: TRD->OSL
• RouteID: WF1311, Earliest Departure: 15:15, Full Route: TRD->B00
```

Figure 3: Output from the terminal after running the script for Use Case 6

- Use Case 7:

```
Available Flights:
• F001_DY753
• F001_SK888
• F001_WF1302
• F002_SK888
• F003_SK888

Enter flight number:
> F001_WF1302

Success: Inserted 38 seats for flight F001_WF1302.

Success: Executed sql_operations/book_flight.sql successfully.
You can now verify the booking in the database.
```

Figure 4: Output from the terminal after running the script for Use Case 7

- Use Case 8:

```
Available Route IDs:
DY753
SK332
SK888
WF1302
WF1311

Enter flight route ID:
> WF1302

Enter flight date (YYYY-MM-DD):
> 2025-04-01

Seat availability for flight F001_WF1302 on aircraft type Dash-8 100:

      X      1D
X    2B      2C  2D
3A   3B      X   3D
X    4B      4C  4D
5A   5B      X   5D
X    6B      6C  6D
7A   7B      X   7D
X    8B      8C  8D
9A   9B      X   9D
10A  X       10C 10D
```

Figure 5: Output from the terminal after running the script for Use Case 8