Screenshot 1 — SSMS, SQLAirplane.sql

```sql
--Display each flight leg's no, airline, and the name of the airplane assigned to it--
SELECT fl.Log_no AS FlightLogID,
       d.Scheduled_dep_time AS DepartureTime,
       a.Type_name AS AirplaneType
FROM FlightLog fl
JOIN Departure d ON fl.Log_no = d.Log_no
JOIN Airplane a ON a.Airplane_id = fl.Log_no;

   ---Display all flight numbers and the names of the departure and arrival airports.---
   SELECT f.code AS FlightNumber,
          dep_air.name AS DepartureAirport,
          arr_air.name AS ArrivalAirport
FROM Flight f
JOIN Departure d ON f.code = d.Log_no
JOIN Airport dep_air ON d.Airport_ID = dep_air.airport_ID
JOIN Arrival a ON f.code = d.Airport_ID
JOIN Airport arr_air ON a.Airport_ID = arr_air.airport_ID;
---Display all reservation data with the name and phone of the customer who made each booking---
SELECT r.Customer_id, c.name, c.phone, r.Seat_no, r.Airplane_id
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id;
```

Results:

	FlightLogID	DepartureTime	AirplaneType
1	1	2026-11-20 05:30:00.000	muscat 737
2	2	2026-12-20 12:45:00.000	sur A320
3	3	2026-01-21 09:15:00.000	sohar 747
4	4	2026-02-22 10:15:00.000	suwaq E190

Query executed successfully.

Screenshot 2 — SSMS, SQLAirplane.sql

```sql
--Display each flight leg's no, airline, and the name of the airplane assigned to it--
SELECT fl.Log_no AS FlightLogID,
       d.Scheduled_dep_time AS DepartureTime,
       a.Type_name AS AirplaneType
FROM FlightLog fl
JOIN Departure d ON fl.Log_no = d.Log_no
JOIN Airplane a ON a.Airplane_id = fl.Log_no;

   ---Display all flight numbers and the names of the departure and arrival airports.---
   SELECT f.code AS FlightNumber,
          dep_air.name AS DepartureAirport,
          arr_air.name AS ArrivalAirport
FROM Flight f
JOIN Departure d ON f.code = d.Log_no
JOIN Airport dep_air ON d.Airport_ID = dep_air.airport_ID
JOIN Arrival a ON f.code = d.Airport_ID
JOIN Airport arr_air ON a.Airport_ID = arr_air.airport_ID;
---Display all reservation data with the name and phone of the customer who made each booking---
SELECT r.Customer_id, c.name, c.phone, r.Seat_no, r.Airplane_id
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id;
```

Results:

	Customer_id	name	phone	Seat_no	Airplane_id
1	1	Moza	123456	2c	1
2	2	Ahmed	987659	1B	2
3	3	Fatma	666777	1C	3
4	4	Maha	99988	2A	4

Query executed successfully.

v

Screenshot 1 — SQL code visible:

```sql
JOIN Airplane a ON a.Airplane_id = fl.Log_no;

---Display all flight numbers and the names of the departure and arrival airports.---
SELECT f.code AS FlightNumber,
       dep_air.name AS DepartureAirport,
       arr_air.name AS ArrivalAirport
FROM Flight f
JOIN Departure d ON f.code = d.Log_no
JOIN Airport dep_air ON d.Airport_ID = dep_air.airport_ID
JOIN Arrival a ON d.Airport_ID
JOIN Airport arr_air ON a.Airport_ID = arr_air.airport_ID;
---Display all reservation data with the name and phone of the customer who made each booking---
SELECT r.Customer_id, c.name, c.phone, r.Seat_no, r.Airplane_id
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id;
---Display IDs and locations of flights departing from 'CAI' or 'DXB'.--
SELECT d.Log_no, a.city, a.state
FROM Departure d
JOIN Airport a ON d.Airport_ID = a.airport_ID
WHERE a.name IN ('CAI', 'DXB');
```


Screenshot 2 — SQL code visible:

```sql
JOIN Airplane a ON a.Airplane_id = fl.Log_no;

---Display all flight numbers and the names of the departure and arrival airports.---
SELECT f.code AS FlightNumber,
       dep_air.name AS DepartureAirport,
       arr_air.name AS ArrivalAirport
FROM Flight f
JOIN Departure d ON f.code = d.Log_no
JOIN Airport dep_air ON d.Airport_ID = dep_air.airport_ID
JOIN Arrival a ON d.Airport_ID
JOIN Airport arr_air ON a.Airport_ID = arr_air.airport_ID;
---Display all reservation data with the name and phone of the customer who made each booking---
SELECT r.Customer_id, c.name, c.phone, r.Seat_no, r.Airplane_id
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id;
---Display IDs and locations of flights departing from 'CAI' or 'DXB'.--
SELECT d.Log_no, a.city, a.state
FROM Departure d
JOIN Airport a ON d.Airport_ID = a.airport_ID
WHERE a.name IN ('CAI', 'DXB');
---Display full data of flights whose names start with 'A'.---
SELECT *
FROM Flight
WHERE code LIKE 'A%';
```

```sql
JOIN Arrival a ON f.code = d.Airport_ID
JOIN Airport arr_air ON a.Airport_ID = arr_air.airport_ID;
---Display all reservation data with the name and phone of the customer who made each booking---
SELECT r.Customer_id, c.name, c.phone, r.Seat_no, r.Airplane_id
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id;
--Display IDs and locations of flights departing from 'CAI' or 'DXB'.--
SELECT d.Log_no, a.city, a.state
FROM Departure d
JOIN Airport a ON d.Airport_ID = a.airport_ID
WHERE a.name IN ('CAI', 'DXB');
----Display full data of flights whose names start with 'A'.---
SELECT *
FROM Flight
WHERE code LIKE 'A%';
----List customers who have bookings with total payment between 3000 and 5000.----
SELECT c.Customer_id, c.name, SUM(f.amount) AS TotalPayment
FROM Customer c
JOIN Reservation r ON c.Customer_id = r.Customer_id
JOIN Flight f ON r.Airplane_id = Airplane_id
GROUP BY c.Customer_id, c.name
HAVING SUM(f.amount) BETWEEN 3000 AND 5000;
select* from Airplane
```

Results | Messages

Customer_id | name | TotalPayment

Query executed successfully.

```sql
WHERE a.name IN ('CAI', 'DXB');
----Display full data of flights whose names start with 'A'.---
SELECT *
FROM Flight
WHERE code LIKE 'A%';
---List customers who have bookings with total payment between 3000 and 5000.---
SELECT c.Customer_id, c.name, SUM(f.amount) AS TotalPayment
FROM Customer c
JOIN Reservation r ON c.Customer_id = r.Customer_id
JOIN Flight f ON r.Airplane_id = Airplane_id
GROUP BY c.Customer_id, c.name
HAVING SUM(f.amount) BETWEEN 3000 AND 5000;
--Retrieve all passengers on 'Flight 110' who booked more than 2 seats.----
SELECT c.name, COUNT(*) AS SeatsBooked
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id
JOIN Flight f ON r.Airplane_id = f.code  -- link may need adjustment
WHERE f.code = 'Flight 110'
GROUP BY c.name
HAVING COUNT(*) > 2
```

Results | Messages

name | SeatsBooked

Query executed successfully.

Screenshot 1 — SQL editor (SQLAirplane.sql):

```sql
WHERE a.name IN ('CAI', 'DXB');
---Display full data of flights whose names start with 'A'.---
SELECT *
FROM Flight
WHERE code LIKE 'A%'
---List customers who have bookings with total payment between 3000 and 5000.---
SELECT c.Customer_id, c.name, SUM(f.amount) AS TotalPayment
FROM Customer c
JOIN Reservation r ON c.Customer_id = r.Customer_id
JOIN Flight f ON r.Airplane_id = Airplane_id
GROUP BY c.Customer_id, c.name
HAVING SUM(f.amount) BETWEEN 3000 AND 5000;
---Retrieve all passengers on 'Flight 110' who booked more than 2 seats.---
SELECT c.name, COUNT(*) AS SeatsBooked
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id
JOIN Flight f ON r.Airplane_id = f.code  -- link may need adjustment
WHERE f.code = 'Flight 110'
GROUP BY c.name
HAVING COUNT(*) > 2;
----Find names of passengers whose booking was handled by agent "Youssef Hamed".----
---not have agent---
```

Results tab columns: name | SeatsBooked

Status bar: Query executed successfully. ALMAZIDI (15.0 RTM) | ALMAZIDI\mozam (56) | AirplainDB | 00:00:00 | 0 rows | Ln 47 Col 21 Ch 21 INS

Screenshot 2 — SQL editor (SQLAirplane.sql):

```sql
--Retrieve all passengers on 'Flight 110' who booked more than 2 seats.---
SELECT c.name, COUNT(*) AS SeatsBooked
FROM Reservation r
JOIN Customer c ON r.Customer_id = c.Customer_id
JOIN Flight f ON r.Airplane_id = f.code
WHERE f.code = 'Flight 110'
GROUP BY c.name
HAVING COUNT(*) > 2;
----Find names of passengers whose booking was handled by agent "Youssef Hamed".----
---not have agent---
---Display each passenger's name and the flights they booked, ordered by flight date--
SELECT c.name, f.code AS FlightNumber, dep.Scheduled_dep_time
FROM Customer c
JOIN Reservation r ON c.Customer_id = r.Customer_id
JOIN Flight f ON r.Airplane_id = f.amount
JOIN Departure dep ON dep.Log_no = f.amount
ORDER BY dep.Scheduled_dep_time;
select* from Flight
```

Results tab columns: name | FlightNumber | Scheduled_dep_time

Status bar: Query executed successfully. ALMAZIDI (15.0 RTM) | ALMAZIDI\mozam (56) | AirplainDB | 00:00:00 | 0 rows | Ln 54 Col 33 Ch 33 INS

Screenshot 1:

```sql
SELECT c.name, f.code AS FlightNumber, dep.Scheduled_dep_time
FROM Customer c
JOIN Reservation r ON c.Customer_id = r.Customer_id
JOIN Flight f ON r.Airplane_id = f.amount
JOIN Departure dep ON dep.Log_no = f.amount
ORDER BY dep.Scheduled_dep_time;

----For each flight departing from 'Cairo', display the flight number, departure time, and airline name.---
SELECT f.code, d.Scheduled_dep_time, f.Airline
FROM Flight f
JOIN Departure d ON f.code = d.Log_no
JOIN Airport a ON d.Airport_ID = a.airport_ID
WHERE a.city = 'Cairo';
```

Results: code | Scheduled_dep_time | Airline

Query executed successfully.   ALMAZIDI (15.0 RTM)   ALMAZIDI\mozam (56)   AirplainDB   00:00:00   0 rows

Screenshot 2:

```sql
SELECT c.name, f.code AS FlightNumber, dep.Scheduled_dep_time
FROM Customer c
JOIN Reservation r ON c.Customer_id = r.Customer_id
JOIN Flight f ON r.Airplane_id = f.amount
JOIN Departure dep ON dep.Log_no = f.amount
ORDER BY dep.Scheduled_dep_time;

----For each flight departing from 'Cairo', display the flight number, departure time, and airline name.---
SELECT f.code, d.Scheduled_dep_time, f.Airline
FROM Flight f
JOIN Departure d ON f.code = d.Log_no
JOIN Airport a ON d.Airport_ID = a.airport_ID
WHERE a.city = 'Cairo';

---Display all staff members who are assigned as supervisors for flights.---
----No staff---

--Display all bookings and their related passengers, even if some bookings are unpaid---

SELECT c.name, c.phone, r.Seat_no, r.Airplane_id
FROM Customer c
LEFT JOIN Reservation r ON c.Customer_id = r.Customer_id.
select* from Reservation
SELECT* FROM Customer
```

Results table 1:

	name	phone	Seat_no	Airplane_id
1	Moza	123456	2c	1
2	Ahmed	987659	1B	2
3	Fatma	666777	1C	3
4	Maha	99988	2A	4

Results table 2:

	Customer_id	Seat_no	Airplane_id
1	1	2c	1
2	2	1B	2
3	3	1C	3
4	4	2A	4

Results table 3:

	Customer_id	name	phone
1	1	Moza	123456
2	2	Ahmed	987659
3	3	Fatma	666777
4	4	Maha	99988

Query executed successfully.   ALMAZIDI (15.0 RTM)   ALMAZIDI\mozam (56)   AirplainDB   00:00:00   12 rows