

The screenshot shows two windows of Microsoft SQL Server Management Studio (SSMS) running on a Windows 10 desktop.

Top Window (Flight Data):

- Object Explorer:** Shows the database structure including Tables, Views, and Procedures.
- Results Grid:** Displays data from several tables:
 - Airport:** Shows airports like Cairo International Airport, Dubai International Airport, and King Abdulaziz Airport.
 - Leg:** Shows flight legs with details like departure and arrival times.
 - Leg_Instance:** Shows flight instances with arrival and departure times.
 - Flight:** Shows flights with weekday restrictions.
 - Flight_Leg_Assignment:** Shows assignments of legs to flights.
 - Flight_Leg:** Shows detailed flight leg information.
 - Fare:** Shows fare details.
 - Reservation:** Shows passenger reservations.
 - Airplane:** Shows airplane types and details.
 - Airplane_Type:** Shows airplane company and seat details.
- Status Bar:** Shows "Query executed successfully." and "DESKTOP-BLAC20R-AirlineDB 00:00:00 30 rows".

Bottom Window (Schema Diagram):

- Object Explorer:** Shows the database structure.
- Diagram View:** Displays the database schema as a network of entities and their relationships:
 - Airplane** is connected to **Airplane_Type**.
 - Airport** is connected to **Airplane** and **Flight_Leg**.
 - Flight** is connected to **Flight_Leg**.
 - Flight_Leg** is connected to **Flight_Leg_Assignment**, **Flight_Instance**, and **Fare**.
 - Flight_Leg_Assignment** is connected to **Flight_Leg**.
 - Flight_Instance** is connected to **Flight_Leg**.
 - Fare** is connected to **Flight_Leg**.
 - Reservation** is connected to **Flight_Leg**.

Airline DB.sql - DESKTOP-BLAC2B8R.AirlineDB (DESKTOP-BLAC2B8R\athf (53)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Tools Window Help

Object Explorer

Connect to... Help

DESKTOP-BLAC2B8R (SQL Server 15.0.2600.6) | AirlineDB | New Query | Open | Save | Import | Export | Refresh | Connect | Disconnect | Execute | Quick Launch (Ctrl+Q) |

Flight

INSERT INTO Flight VALUES
('FL100', 'EgyptAir', 'CAI', 'DXB', 'No restrictions'),
('FL200', 'EgyptAir', 'CAI', 'JED', 'No pets allowed'),
('FL300', 'Saudia', 'Non-Fri', 'No liquids over 100ml').

Flight Leg Assignment

INSERT INTO Flight_Leg_Assignment VALUES
('FL100', '101'),
('FL200', '102'),
('FL300', '103');

Fare

INSERT INTO Fare VALUES
('F100', '500.00', '101'),
('F200', '700.00', '102'),
('F300', '400.00', '103');

Reservation

INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
('Ali Ahmed', '+201234567890', '101', '2025-06-10'),
('Fatima Saleh', '+971501234567', '102', '2025-06-10'),
('Hassan Omar', '+9665981234567', '103', '2025-06-11');

DQL Tasks

-- 1. Display all flight leg records
SELECT * FROM Flight_Leg

-- 2. Flight leg ID, scheduled departure, and arrival time

Results

leg_no	dep_airport_code	arr_airport_code	scheduled_dep_time	scheduled_ar_time
101	CAI	DXB	08:00:0000000	12:00:0000000
102	DXB	JED	14:00:0000000	16:00:0000000
103	CAI	JED	09:00:0000000	11:00:0000000

Query executed successfully.

DESKTOP-BLAC2B8R (15.0 RTM) | DESKTOP-BLAC2B8R\athf ... | AirlineDB | 00:00:00 | 3 rows

Ready

27°C Sunny

Search

Ln 141 Col 1 Ch 1 RS

2:48 PM

12/15/2023

Flight Leg Assignment

```

--INSERT INTO Flight_Leg_Assignment VALUES
('FL100', '101,1'),
('FL200', '102,1'),
('FL300', '103,1');

----FARE
--INSERT INTO Fare VALUES
('F100', '500.00', '101'),
('F200', '700.00', '102'),
('F300', '400.00', '103');

--RESERVATION
--INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
('All American', '+201234567890', '101', '2025-06-10'),
('Fatima Saleem', '+9876543210987654321', '102', '2025-06-10'),
('Hassan Omar', '+996501234567', '103', '2025-06-11');

-----DQL Tasks-----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

```

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\pathi... | AirlineDB | 00:00:00 | 3 rows

Flight Leg Assignment

```

--INSERT INTO Flight_Leg_Assignment VALUES
('FL200', '102,1'),
('FL300', '103,1');

----FARE
--INSERT INTO Fare VALUES
('F100', '500.00', '101'),
('F200', '700.00', '102'),
('F300', '400.00', '103');

--RESERVATION
--INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
('All American', '+201234567890', '101', '2025-06-10'),
('Fatima Saleem', '+9876543210987654321', '102', '2025-06-10'),
('Hassan Omar', '+996501234567', '103', '2025-06-11');

-----DQL Tasks-----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100

```

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\pathi... | AirlineDB | 00:00:00 | 3 rows

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\pathi... | AirlineDB | 00:00:00 | 3 rows

Flight Fare

```

--INSERT INTO Fare VALUES
('F100', 500.00, 101),
('F200', 700.00, 102),
('F300', 400.00, 103);

--RESERVATION
--INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
('Ali Ahmed', '+201234567890', 101, '2025-06-10'),
('Fatima Saleh', '+971501234567', 102, '2025-06-10'),
('Hassan Omar', '+966501234567', 103, '2025-06-11');

----- DQL TASKS -----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

```

Results

leg_no
101
103

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\AlineDB | 00:00:00 | 2 rows

Airport

```

--INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
('Ali Ahmed', '+201234567890', 101, '2025-06-10'),
('Fatima Saleh', '+971501234567', 102, '2025-06-10'),
('Hassan Omar', '+966501234567', 103, '2025-06-11');

----- DQL TASKS -----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = 'Cairo'
SELECT airport_code, airport_name FROM Airport WHERE city = 'Cairo';

```

Results

airplane_id
2

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\AlineDB | 00:00:00 | 1 rows

AirlineDB - DESKTOP-BLAC28R\AirlineDB (DESKTOP-BLAC28R\fatih) - Microsoft SQL Server Management Studio (Administrator)

```
-- Reservation
-- INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
-- ('Ali Ahmed', '+201234567890', 101, '2025-06-10'),
-- ('Fatima Saleh', '+971501234567', 102, '2025-06-10'),
-- ('Hasan Omar', '+996501234567', 103, '2025-06-11');

----- DQL Tasks -----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = 'Cairo'
SELECT airport_code, name FROM Airport WHERE city='Cairo';

-- 8. Flight legs scheduled on 2025-06-10
SELECT * FROM Leg_Instance WHERE flight_date='2025-06-10';

-- 9. Flight legs ordered by departure time
SELECT * FROM Leg_Instance ORDER BY scheduled_dep_time;
```

Query executed successfully.

Ready 27°C Sunny Ln 159 Col 1 Ch 1 INS 12:51 PM 12/15/2025

AirlineDB - DESKTOP-BLAC28R\AirlineDB (DESKTOP-BLAC28R\fatih) - Microsoft SQL Server Management Studio (Administrator)

```
-- Reservation
-- INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
-- ('Ali Ahmed', '+201234567890', 101, '2025-06-10'),
-- ('Fatima Saleh', '+971501234567', 102, '2025-06-10'),
-- ('Hasan Omar', '+996501234567', 103, '2025-06-11');

----- DQL Tasks -----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = 'Cairo'
SELECT airport_code, name FROM Airport WHERE city='Cairo';

-- 8. Flight legs scheduled on 2025-06-10
SELECT * FROM Leg_Instance WHERE flight_date='2025-06-10';

-- 9. Flight legs ordered by departure time
SELECT * FROM Leg_Instance ORDER BY scheduled_dep_time;
```

Query executed successfully.

Ready 27°C Sunny Ln 162 Col 1 Ch 1 INS 12:51 PM 12/15/2025

Object Explorer

```
-- DQL Tasks ----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = 'Cairo'
SELECT airport_code, name FROM Airport WHERE city='Cairo';

-- 8. Flight legs scheduled on 2025-06-18
SELECT * FROM Leg_Instance WHERE flight_date='2025-06-18';

-- 9. Flight legs ordered by departure time
SELECT * FROM Flight_Leg ORDER BY scheduled_dep_time;

-- 10. Maximum, minimum, and average available seats

```

Results

leg_no	dep_airport_code	arr_airport_code	scheduled_dep_time	scheduled_arr_time
101	CAI	DXB	08:00:00.0000000	12:00:00.0000000
103	CAI	JED	09:00:00.0000000	11:00:00.0000000
102	DXB	JED	14:00:00.0000000	16:00:00.0000000

Query executed successfully.

Object Explorer

```
-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = 'Cairo'
SELECT airport_code, name FROM Airport WHERE city='Cairo';

-- 8. Flight legs scheduled on 2025-06-18
SELECT * FROM Leg_Instance WHERE flight_date='2025-06-18';

-- 9. Flight legs ordered by departure time
SELECT * FROM Flight_Leg ORDER BY scheduled_dep_time;

-- 10. Maximum, minimum, and average available seats
SELECT MAX(available_seats) AS MaxSeats,
       MIN(available_seats) AS MinSeats,
       AVG(available_seats) AS AvgSeats
FROM Leg_Instance;
```

Results

MaxSeats	MinSeats	AvgSeats
200	90	136

Query executed successfully.

SQL Server Management Studio (Administrator)

```
-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats
FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = 'Cairo'
SELECT airport_code, name FROM Airport WHERE city='Cairo';

-- 8. Flight legs scheduled on 2025-06-10
SELECT * FROM Leg_Instance WHERE flight_date='2025-06-10';

-- 9. Flight legs ordered by departure time
SELECT * FROM Flight_Leg ORDER BY scheduled_dep_time;

-- 10. Maximum, minimum, and average available seats
SELECT MAX(available_seats) AS MaxSeats,
       MIN(available_seats) AS MinSeats,
       AVG(available_seats) AS AvgSeats
FROM Leg_Instance;

-- 11. Total number of flight legs
SELECT COUNT(*) AS TotalFlightlegs FROM Flight_Leg;

-- 12. Airplanes whose type contains 'Boeing'
```

100 %

Results Messages

TotalFlightlegs
2

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\fatih... | AirlineDB | 00:00:00 | 1 rows

SQL Server Management Studio (Administrator)

```
-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats
FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = 'Cairo'
SELECT airport_code, name FROM Airport WHERE city='Cairo';

-- 8. Flight legs scheduled on 2025-06-10
SELECT * FROM Leg_Instance WHERE flight_date='2025-06-10';

-- 9. Flight legs ordered by departure time
SELECT * FROM Flight_Leg ORDER BY scheduled_dep_time;

-- 10. Maximum, minimum, and average available seats
SELECT MAX(available_seats) AS MaxSeats,
       MIN(available_seats) AS MinSeats,
       AVG(available_seats) AS AvgSeats
FROM Leg_Instance;

-- 11. Total number of flight legs
SELECT COUNT(*) AS TotalFlightlegs FROM Flight_Leg;

-- 12. Airplanes whose type contains 'Boeing'
```

100 %

Results Messages

airplane_id	type_name	total_seats	airport_code
1	Boeing 737	180	CAI
2	Boeing 777	350	DXB

Query executed successfully.

DESKTOP-BLAC28R (15.0 RTM) | DESKTOP-BLAC28R\fatih... | AirlineDB | 00:00:00 | 2 rows

SQLQuery1.sql - DESKTOP-BLAC28R.AirlineDB (DESKTOP-BLAC28R\fatih (55)) - Microsoft SQL Server Management Studio (Administrator)

```
-- 7. Airport codes and names where city = "Cairo"
SELECT airport_code, name FROM Airport WHERE city='Cairo';

-- 8. Flight legs scheduled on 2025-06-10
SELECT * FROM Leg_Instance WHERE flight_date='2025-06-10';

-- 9. Flight legs ordered by departure time
SELECT * FROM Flight_Leg ORDER BY scheduled_dep_time;

-- 10. Maximum available seats, and average available seats
SELECT MAX(available_seats) AS MaxSeats,
AVG(available_seats) AS AvgSeats
FROM Leg_Instance;

-- 11. Total number of flight legs
SELECT COUNT(*) AS TotalFlightlegs FROM Flight_Leg;

-- 12. Airplanes whose type contains "Boeing"
SELECT * FROM Airplane WHERE type_name LIKE '%Boeing%';

----- DDL Tasks -----

-- 13. Insert new flight leg CAT = 000 on 2025-06-10
INSERT INTO Flight_Leg VALUES (104, 'CAT', '000', '18:00', '22:00');
INSERT INTO Leg_Instance VALUES (104, '2025-06-10', '22:00', '18:00', 150);

-- 14. Insert a customer with NULL contact number
INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date)
VALUES ('Ali Ahmed', '+201234567890', 101, '2025-06-10');

----- Results ----

Results Messages
+-----+
| leg_no | flight_date | arrival_time | departure_time | available_seats |
+-----+
| 101    | 2025-06-10  | 12:05:00.000000 | 08:05:00.000000 | 120          |
| 102    | 2025-06-10  | 16:10:00.000000 | 14:10:00.000000 | 90           |
| 103    | 2025-06-11  | 11:05:00.000000 | 09:05:00.000000 | 200          |
| 104    | 2025-06-10  | 22:05:00.000000 | 18:05:00.000000 | 150          |
+-----+
```

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC28R.AirlineDB (DESKTOP-BLAC28R\fatih (55)) - Microsoft SQL Server Management Studio (Administrator)

```
-- 1. RESERVATION
INSERT INTO Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
('Ali Ahmed', '+201234567890', 101, '2025-06-10'),
('Fatma Saleh', '+971501234567', 102, '2025-06-10'),
('Hassan Omar', '+966501234567', 103, '2025-06-11');

----- DDL Tasks ----

-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;
SELECT * FROM Leg_Instance;
SELECT * FROM Reservation;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats
FROM Leg_Instance;

-- 5. Flight legs with available seats > 100
SELECT leg_no FROM Leg_Instance WHERE available_seats > 100;

-- 6. Airplane IDs with seat capacity above 300
SELECT airplane_id FROM Airplane WHERE total_seats > 300;

-- 7. Airport codes and names where city = "Cairo"
SELECT airport_code, name FROM Airport WHERE city='Cairo';

----- Results ----

Results Messages
+-----+
| reservation_id | passenger_name | phone_no | leg_no | flight_date |
+-----+
| 1              | Ali Ahmed     | +201234567890 | 101   | 2025-06-10 |
| 2              | Fatma Saleh  | +971501234567 | 102   | 2025-06-10 |
| 3              | Hassan Omar   | +966501234567 | 103   | 2025-06-11 |
| 4              | NULL          | NULL       | 101   | 2025-06-10 |
+-----+
```

Query executed successfully.

SQLQuery2.sql - DESKTOP-BLAC28R\AirlineDB (DESKTOP-BLAC28R\fathi (55)) - Microsoft SQL Server Management Studio (Administrator)

```

-- 1. Insert new flight leg CAI ~ DXB on 2025-06-10
INSERT INTO Flight_Leg VALUES (104,'CAI','DXB','18:00','22:00');
INSERT INTO Leg_Instance VALUES (104, '2025-06-10', '22:05', '18:05', 150);

-- 12. Airplanes whose type contains 'Boeing'
SELECT * FROM Airplane WHERE type_name LIKE '%Boeing%';

-----DQL TASKS-----
-- 13. Insert new flight leg CAI ~ DXB on 2025-06-10
-- 14. Insert a customer with NULL contact number
-- 15. Reduce available seats of inserted flight leg by 5
UPDATE Leg_Instance
SET available_seats = available_seats - 5
WHERE leg_no = 104 AND flight_date = '2025-06-10';

-- 16. Increases available seats by 10 for all domestic flights
UPDATE Leg_Instance
SET available_seats = available_seats + 10
FROM Leg_Instance L1
INNER JOIN Flight_Leg FL ON L1.leg_no = FL.leg_no
WHERE FL.dep_airport_code = FL.arr_airport_code;

```

100 %

Results Messages

leg_no	flight_date	arrival_time	departure_time	available_seats
1	2025-06-10	12:05:00.000000	08:05:00.000000	120
2	2025-06-10	16:10:00.000000	14:10:00.000000	90
3	2025-06-11	11:05:00.000000	09:05:00.000000	200
4	2025-06-10	22:05:00.000000	18:05:00.000000	145

Query executed successfully.

Ready Humid Now 12:57 PM 12/15/2025

SQLQuery2.sql - DESKTOP-BLAC28R\AirlineDB (DESKTOP-BLAC28R\fathi (55)) - Microsoft SQL Server Management Studio (Administrator)

```

-- 1. Insert new flight leg CAI ~ DXB on 2025-06-10
INSERT INTO Fare VALUES
('F100', 500.00, 101),
('F200', 700.00, 102),
('F300', 400.00, 103);

--RESERVATION
-- 2. Insert Reservation (passenger_name, phone_no, leg_no, flight_date) VALUES
('All Ahead', '+201234567890', 101, '2025-06-10'),
('Fatima Saleh', '+971501234567', 102, '2025-06-10'),
('Hasan Omar', '+996501234567', 103, '2025-06-11');

-----DQL TASKS-----
-- 1. Display all flight leg records
SELECT * FROM Flight_Leg;
SELECT * FROM Leg_Instance;
SELECT * FROM Reservation;
SELECT * FROM Airplane;

-- 2. Flight leg ID, scheduled departure, and arrival time
SELECT leg_no, scheduled_dep_time, scheduled_arr_time FROM Flight_Leg;

-- 3. Airplane ID, type, and seat capacity
SELECT airplane_id, type_name, total_seats FROM Airplane;

-- 4. Flight leg ID and available seats as AvailableSeats
SELECT leg_no, available_seats AS AvailableSeats FROM Leg_Instance;

-- 5. Flight legs with available seats > 100

```

100 %

Results Messages

airplane_id	type_name	total_seats	airport_code
1	Boeing 737	180	CAI
2	Flying 777	350	DXB
3	Airbus A320	160	CAI

Query executed successfully.

Ready 27°C Sunny 3:02 PM 12/15/2025