

SQLAirplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to ALMAZDI (SQL Server 15.0.2000.5 - ALMAZDI\mozam (56))

Query: AirplaneDB

```

--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 = a.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: 4 rows

FlightLogID	DepartureTime	AirplaneType
1	2026-11-20 09:30:00.000	muscad 737
2	2026-12-10 14:00:00.000	suwaq A320
3	2026-01-21 09:15:00.000	nohar 747
4	2026-02-22 10:15:00.000	suwaq E190

Properties: Current connection parameters

Aggregate Status: Connection failures: 00:00:00.022, Elapsed time: 12/22/2023 11:17:15 AM, Name: ALMAZDI, Rows returned: 4, Start time: 12/22/2023 11:17:15 AM, State: Open

Connection: Connection name: ALMAZDI (ALMAZDI\mozam)

Connection Details: Connection elapsed time: 00:00:00.022, Connection encryption: Not encrypted, Connection finish time: 12/22/2023 11:17:15 AM, Connection rows returned: 4, Connection start time: 12/22/2023 11:17:15 AM, Connection state: Open, Display name: ALMAZDI, Login name: ALMAZDI\mozam, Server name: ALMAZDI, Server version: 15.0.2000, Session Tracing ID: SPD, SPD: 56

Name: The name of the connection.

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       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 = a.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: 4 rows

Customer_id	name	phone	Seat_no	Airplane_id
1	Musa	123456	2c	1
2	Ahmed	987654	1b	2
3	Fatma	666777	1C	3
4	Maha	99988	2A	4

Properties: Current connection parameters

Aggregate Status: Connection failures: 00:00:00.023, Elapsed time: 12/22/2023 11:19:07 AM, Name: ALMAZDI, Rows returned: 4, Start time: 12/22/2023 11:19:07 AM, State: Open

Connection: Connection name: ALMAZDI (ALMAZDI\mozam)

Connection Details: Connection elapsed time: 00:00:00.023, Connection encryption: Not encrypted, Connection finish time: 12/22/2023 11:19:07 AM, Connection rows returned: 4, Connection start time: 12/22/2023 11:19:07 AM, Connection state: Open, Display name: ALMAZDI, Login name: ALMAZDI\mozam, Server name: ALMAZDI, Server version: 15.0.2000, Session Tracing ID: SPD, SPD: 56

Name: The name of the connection.

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SQL Airplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to ALMAZDI (SQL Server 15.0.2000.5 - ALMAZDI\mozam) | Databases | AirplaneDB | Tables | Flight | Airport | Reservation

Query:
 

```

    1 JOIN Airplane a ON a.Airplane_id = f1.Log_no;
    2
    3 --Display all flight numbers and the names of the departure and arrival airports....
    4 SELECT f.code AS FlightNumber,
    5       dep_air.name AS DepartureAirport,
    6       arr_air.name AS ArrivalAirport
    7 FROM Flight f
    8 JOIN Departure d ON f.code = d.Log_no
    9 JOIN Airport dep_air ON d.Airport_ID = dep_air.airport_ID
    10 JOIN Arrival a ON f.code = a.Airport_ID
    11 JOIN Airport arr_air ON a.Airport_ID = arr_air.airport_ID;
    12
    13 --Display all reservation data with the name and phone of the customer who made each booking---
    14 SELECT r.Customer_id, c.name, c.phone, r.Seat_no, r.Airplane_id
    15 FROM Reservation r
    16 JOIN Customer c ON r.Customer_id = c.Customer_id;
    17
    18 --Display IDs and locations of flights departing from 'CAZ' or 'DXB'---
    19 SELECT d.Log_no, a.city, a.state
    20 FROM Departure d
    21 JOIN Airport a ON d.Airport_ID = a.airport_ID
    22 WHERE a.name IN ('CAZ', 'DXB');
    
```

Results: 1 row(s) affected. Query executed successfully.

Properties: Current connection parameters | Aggregate Status | Connection | Connection Details

SQL Airplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to ALMAZDI (SQL Server 15.0.2000.5 - ALMAZDI\mozam) | Databases | AirplaneDB | Tables | Flight | Airport | Reservation

Query:
 

```

    1 JOIN Airplane a ON a.Airplane_id = f1.Log_no;
    2
    3 --Display all flight numbers and the names of the departure and arrival airports....
    4 SELECT f.code AS FlightNumber,
    5       dep_air.name AS DepartureAirport,
    6       arr_air.name AS ArrivalAirport
    7 FROM Flight f
    8 JOIN Departure d ON f.code = d.Log_no
    9 JOIN Airport dep_air ON d.Airport_ID = dep_air.airport_ID
    10 JOIN Arrival a ON f.code = a.Airport_ID
    11 JOIN Airport arr_air ON a.Airport_ID = arr_air.airport_ID;
    12
    13 --Display all reservation data with the name and phone of the customer who made each booking---
    14 SELECT r.Customer_id, c.name, c.phone, r.Seat_no, r.Airplane_id
    15 FROM Reservation r
    16 JOIN Customer c ON r.Customer_id = c.Customer_id;
    17
    18 --Display IDs and locations of flights departing from 'CAZ' or 'DXB'---
    19 SELECT d.Log_no, a.city, a.state
    20 FROM Departure d
    21 JOIN Airport a ON d.Airport_ID = a.airport_ID
    22 WHERE a.name IN ('CAZ', 'DXB');
    23
    24 --Display full data of flights whose names start with 'A'---
    25 SELECT *
    26 FROM Flight
    27 WHERE code LIKE 'A%';
    
```

Results: 1 row(s) affected. Query executed successfully.

Properties: Current connection parameters | Aggregate Status | Connection | Connection Details

SQLAirplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to AirplaneDB

Query Editor (SQLAirplane.sql - ALMAZDI\mozam (56)):

```

2020 Arrival a ON f.code = d.Airport_ID
2020 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
2020 Customer c ON r.Customer_id = c.Customer_id;
---Display IDs and locations of flights departing from "CAI" or "DWB"---
SELECT d.Log_no, a.city, a.state
FROM Departure d
2020 Airport a ON d.Airport_ID = a.Airport_ID
WHERE a.name IN ('CAI', 'DWB');
---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
2020 Reservation r ON c.Customer_id = r.Customer_id
2020 Flight f ON r.Airplane_id = f.Airplane_id
GROUP BY c.Customer_id, c.name
HAVING SUM(f.amount) BETWEEN 3000 AND 5000;
select * from Airplane

```

Results:

Customer_id	name	TotalPayment
1	John Doe	3500
2	Jane Smith	4200
3	Mike Johnson	3800
4	Sarah Brown	4500
5	David Wilson	3200

Properties: Current connection parameters

Aggregate Status:

- Connection failures: 0
- Elapsed time: 00:00:00.021
- Finish time: 12/22/2023 11:27:14 AM
- Name: ALMAZDI
- Rows returned: 0
- Start time: 12/22/2023 11:27:14 AM
- State: Open

Connection:

- Connection name: ALMAZDI (ALMAZDI\mozam)

Connection Details:

- Connection elapsed time: 00:00:00.021
- Connection encryption: Not encrypted
- Connection finish time: 12/22/2023 11:27:14 AM
- Connection rows returned: 0
- Connection start time: 12/22/2023 11:27:14 AM
- Connection state: Open
- Display name: ALMAZDI
- Login name: ALMAZDI\mozam
- Server name: ALMAZDI
- Server version: 15.0.2000
- Session Tracing ID: SPD

Name: The name of the connection.

Ready

SQLAirplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to AirplaneDB

Query Editor (SQLAirplane.sql - ALMAZDI\mozam (56)):

```

WHERE a.name IN ('CAI', 'DWB');
---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
2020 Reservation r ON c.Customer_id = r.Customer_id
2020 Flight f ON r.Airplane_id = f.Airplane_id
GROUP BY c.Customer_id, c.name
HAVING SUM(f.amount) BETWEEN 3000 AND 5000;
---Retrieve all passengers on "Flight 118" who booked more than 2 seats---
SELECT c.name, COUNT(*) AS SeatsBooked
FROM Reservation r
2020 Customer c ON r.Customer_id = c.Customer_id
2020 Flight f ON r.Airplane_id = f.Airplane_id
WHERE f.code = 'Flight 118'
GROUP BY c.name
HAVING COUNT(*) > 2;

```

Results:

name	SeatsBooked
John Doe	2
Jane Smith	3
Mike Johnson	1
Sarah Brown	2
David Wilson	1

Properties: Current connection parameters

Aggregate Status:

- Connection failures: 0
- Elapsed time: 00:00:00.021
- Finish time: 12/22/2023 11:29:06 AM
- Name: ALMAZDI
- Rows returned: 0
- Start time: 12/22/2023 11:29:06 AM
- State: Open

Connection:

- Connection name: ALMAZDI (ALMAZDI\mozam)

Connection Details:

- Connection elapsed time: 00:00:00.021
- Connection encryption: Not encrypted
- Connection finish time: 12/22/2023 11:29:06 AM
- Connection rows returned: 0
- Connection start time: 12/22/2023 11:29:06 AM
- Connection state: Open
- Display name: ALMAZDI
- Login name: ALMAZDI\mozam
- Server name: ALMAZDI
- Server version: 15.0.2000
- Session Tracing ID: SPD

Name: The name of the connection.

Ready

SQLAirplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to AirplaneDB (SQL Server 15.0.2000.5 - ALMAZDI\mozam (56))

Query Editor: SQLAirplane.sql - ALMAZDI\mozam (56)

```

WHERE a.name IN ('GAT', 'DGB');
----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 = f.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.fcode -- link may need adjustment
WHERE f.fcode = 'Flight 110'
GROUP BY c.name
----Find names of passengers whose booking was handled by agent 'Youssef Hamed'----
----not have agent----

```

Results: 100 %

name	SeatsBooked

Properties: Current connection parameters

Aggregate Status

Connection failures	Elapsed time
	00:00:00.031

Connection

Connection name	Connection details
ALMAZDI (ALMAZDI\mozam)	Connection elapsed time: 00:00:00.031 Connection encryption: Not encrypted Connection finish time: 12/22/2023 11:29:06 AM Connection rows returned: 0 Connection start time: 12/22/2023 11:29:06 AM Connection state: Open Display name: ALMAZDI Login name: ALMAZDI\mozam Server name: ALMAZDI Server version: 15.0.2000 Session Tracing ID: SPD SPID: 56

Name: The name of the connection.

Ready

SQLAirplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to AirplaneDB (SQL Server 15.0.2000.5 - ALMAZDI\mozam (56))

Query Editor: SQLAirplane.sql - ALMAZDI\mozam (56)

```

--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.fcode
WHERE f.fcode = '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.fcode AS FlightNumber, dep.Scheduled_dep_time
FROM Reservation r
JOIN Customer c ON r.Customer_id = r.Customer_id
JOIN Flight f ON r.Airplane_id = f.fcode
JOIN Departure dep ON dep.fcode = f.fcode
ORDER BY dep.Scheduled_dep_time
select* from Flight

```

Results: 100 %

name	FlightNumber	Scheduled_dep_time

Properties: Current connection parameters

Aggregate Status

Connection failures	Elapsed time
	00:00:00.016

Connection

Connection name	Connection details
ALMAZDI (ALMAZDI\mozam)	Connection elapsed time: 00:00:00.016 Connection encryption: Not encrypted Connection finish time: 12/22/2023 11:37:43 AM Connection rows returned: 0 Connection start time: 12/22/2023 11:37:43 AM Connection state: Open Display name: ALMAZDI Login name: ALMAZDI\mozam Server name: ALMAZDI Server version: 15.0.2000 Session Tracing ID: SPD SPID: 56

Name: The name of the connection.

Ready

SQLAirplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to AirplaneDB. Databases: AirplaneDB. Tables: Reservation, Flight, Airport, Customer, Airplane.

Query Editor (SQLAirplane.sql - ALMAZDI\mozam (56)):

```
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.Airplane_id
JOIN Airport a ON f.Airplane_id = a.airport_id
WHERE a.city = 'Cairo';
```

Results:

code	Scheduled_dep_time	Airline
1	123456	2A
2	987654	1B
3	654321	1C
4	999888	2A

Properties: Current connection parameters. Aggregate Status: Connection failures: 0, Elapsed time: 00:00:00.016, Finish time: 12/22/2023 11:39:54 AM, Name: ALMAZDI, Rows returned: 0, Start time: 12/22/2023 11:39:54 AM, State: Open.

SQLAirplane.sql - ALMAZDI\AirplaneDB (ALMAZDI\mozam (56)) - Microsoft SQL Server Management Studio

Object Explorer: Connect to AirplaneDB. Databases: AirplaneDB. Tables: Reservation, Flight, Airport, Customer, Airplane.

Query Editor (SQLAirplane.sql - ALMAZDI\mozam (56)):

```
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.Airplane_id
JOIN Airport a ON f.Airplane_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
JOIN Reservation r ON c.Customer_id = r.Customer_id
SELECT * FROM Reservation
SELECT * FROM Customer
```

Results:

name	phone	Seat_no	Airplane_id
Musa	123456	2A	1
Ahmed	987654	1B	2
Fatma	654321	1C	3
Maha	999888	2A	4

Customer\_id, Seat\_no, Airplane\_id

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

Customer\_id, name, phone

Customer_id	name	phone
1	Musa	123456
2	Ahmed	987654
3	Fatma	654321
4	Maha	999888

Properties: Current connection parameters. Aggregate Status: Connection failures: 0, Elapsed time: 00:00:00.063, Finish time: 12/22/2023 11:44:57 AM, Name: ALMAZDI, Rows returned: 12, Start time: 12/22/2023 11:44:56 AM, State: Open.