```
 --lab3
INSERT INTO Airport (airport_name, country, state, city)
VALUES
('Nursultan Nazarbayev International Airport', 'Kazakhstan', 'Akmola', 'Astana'),
('Almaty International Airport', 'Kazakhstan', 'Almaty', 'Almaty'),
('Heathrow Airport', 'United Kingdom', 'England', 'London'),
('airpekin', 'China', 'Pekin', 'Pekin');


INSERT INTO Passengers (first_name, last_name, date_of_birth, gender,
                country_of_citizenship, country_of_residence, passport_number)
VALUES
('Aidos', 'Nursultanov', '1995-03-12', 'Male', 'Kazakhstan', 'Kazakhstan', 'KZ1234567'),
('Aliya', 'Serik', '2000-07-24', 'Female', 'Kazakhstan', 'Kazakhstan', 'KZ7654321'),
('John', 'Smith', '1988-11-02', 'Male', 'United Kingdom', 'United Kingdom', 'UK9876543'),
('Dana', 'Dana', '1999-06-15', 'Female', 'Kazakhstan', 'Kazakhstan', 'KZ2222333'); -- для
задания 1 (имя=фамилия)


INSERT INTO Flights (sch_departure_time, sch_arrival_time, departing_airport_id,
arriving_airport_id,
               departing_gate, arriving_gate, airline_id, act_departure_time, act_arrival_time)
VALUES
('2025-09-23 08:00', '2025-09-23 09:30', 1, 2, 'A1', 'B3', 1, '2025-09-23 08:05', '2025-09-23
09:25'),
('2025-09-24 14:00', '2025-09-24 19:00', 2, 3, 'C2', 'D5', 1, '2025-09-24 14:10', '2025-09-24
18:50'),
('2025-09-26 12:00', '2025-09-26 22:00', 3, 1, 'E1', 'F2', 2, '2025-09-26 12:05', '2025-09-26
21:55'),
('2025-09-27 14:00', '2025-09-27 18:00', 2, 4, 'D2', 'D5', 1, '2025-09-27 14:10', '2025-09-27
17:50');

INSERT INTO Booking (flight_id, passenger_id, booking_platform, status, ticket_price)
VALUES
(1, 1, 'Website', 'Confirmed', 45000),
(2, 2, 'Mobile App', 'Confirmed', 12000),
(1, 3, 'Agent', 'Pending', 48000),
(3, 4, 'Website', 'Confirmed', 30000);

INSERT INTO Boarding_pass (booking_id, seat, boarding_time)
VALUES
(1, '12A', '2025-09-23 07:30'),
(2, '20C', '2025-09-24 13:30'),
(3, '7B', '2025-09-23 07:20'),
(4, '15D', '2025-09-26 11:30');

INSERT INTO Baggage (weight_in_kg, booking_id)
VALUES
(23.5, 1),
(18.0, 2),
(25.7, 3),
(30.2, 4);
INSERT INTO Baggage_check (check_result, booking_id, passenger_id)
VALUES
('OK', 1, 1),
```

```sql
('Extra screening', 2, 2),

('OK', 3, 3),

('Overweight', 4, 4);


INSERT INTO Security_check (check_result, passenger_id)

VALUES

('Cleared', 1),

('Secondary', 2),

('Cleared', 3),

('Cleared', 4);


INSERT INTO Booking_flight (booking_id, flight_id)

VALUES

(1, 1),

(2, 2),

(3, 1),

(4, 3);




--1)

SELECT * FROM Passengers

WHERE last_name = first_name;


--2)

SELECT DISTINCT last_name
```

```sql
FROM Passengers;


--3)
SELECT * FROM Passengers
WHERE gender = 'Male' AND date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';


--4)
SELECT DATE_TRUNC('month', created_at) AS month,
    SUM(ticket_price) AS total_sales
FROM Booking
GROUP BY month
ORDER BY month;


--5)
SELECT f. * FROM Flights f
JOIN Airport a on f.arriving_airport_id = a.airport_id
WHERE a.country = 'China';


--6)
SELECT * FROM Airline
WHERE airline_country in ('France', 'Portugal', 'Poland')
AND created_at BETWEEN '2023-11-01' AND '2024-03-31';


--7)
SELECT airline_name FROM Airline
WHERE airline_country = 'Kazakhstan';
```

```
--8)

UPDATE Booking

SET ticket_price = ticket_price * 0.9

WHERE created_at < '2023-11-01';


--9)

SELECT * FROM Baggage

WHERE weight_in_kg > 20

ORDER BY weight_in_kg DESC LIMIT 3;


--10)

SELECT first_name, last_name FROM Passengers

ORDER BY date_of_birth DESC LIMIT 1;


--11)

SELECT booking_platform, MIN(ticket_price) AS cheapest_price

FROM Booking

GROUP BY booking_platform;


--12)

SELECT * FROM Airline

WHERE airline_code ~ '[0-9]';


--13)

SELECT * FROM Airline
```

ORDER BY created_at DESC LIMIT 5;

--14)

SELECT * FROM Baggage_check

WHERE booking_id BETWEEN 1 AND 10

AND check_result <> 'OK';

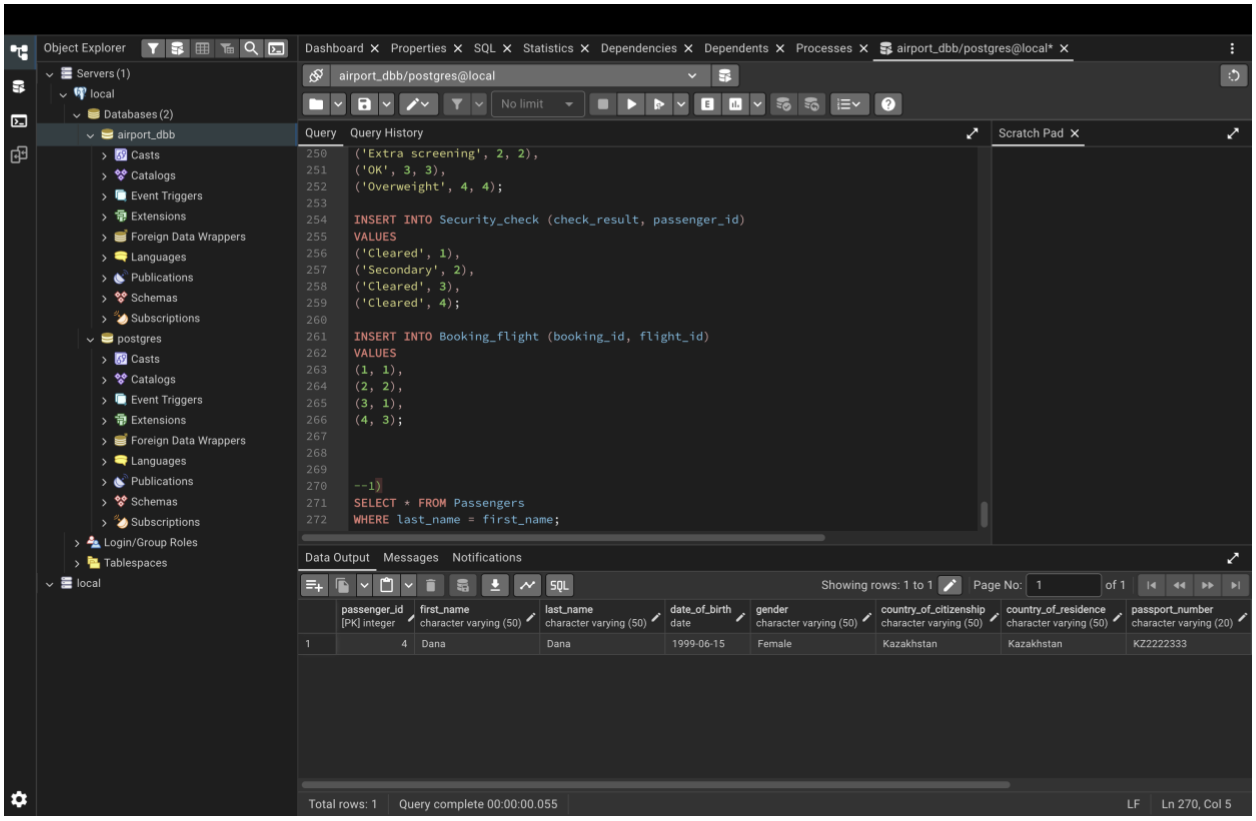
--15)

SELECT * FROM Baggage_check

WHERE DATE_TRUNC('month', updated_at) = DATE_TRUNC('month', created_at)

AND updated_at < created_at;

1)

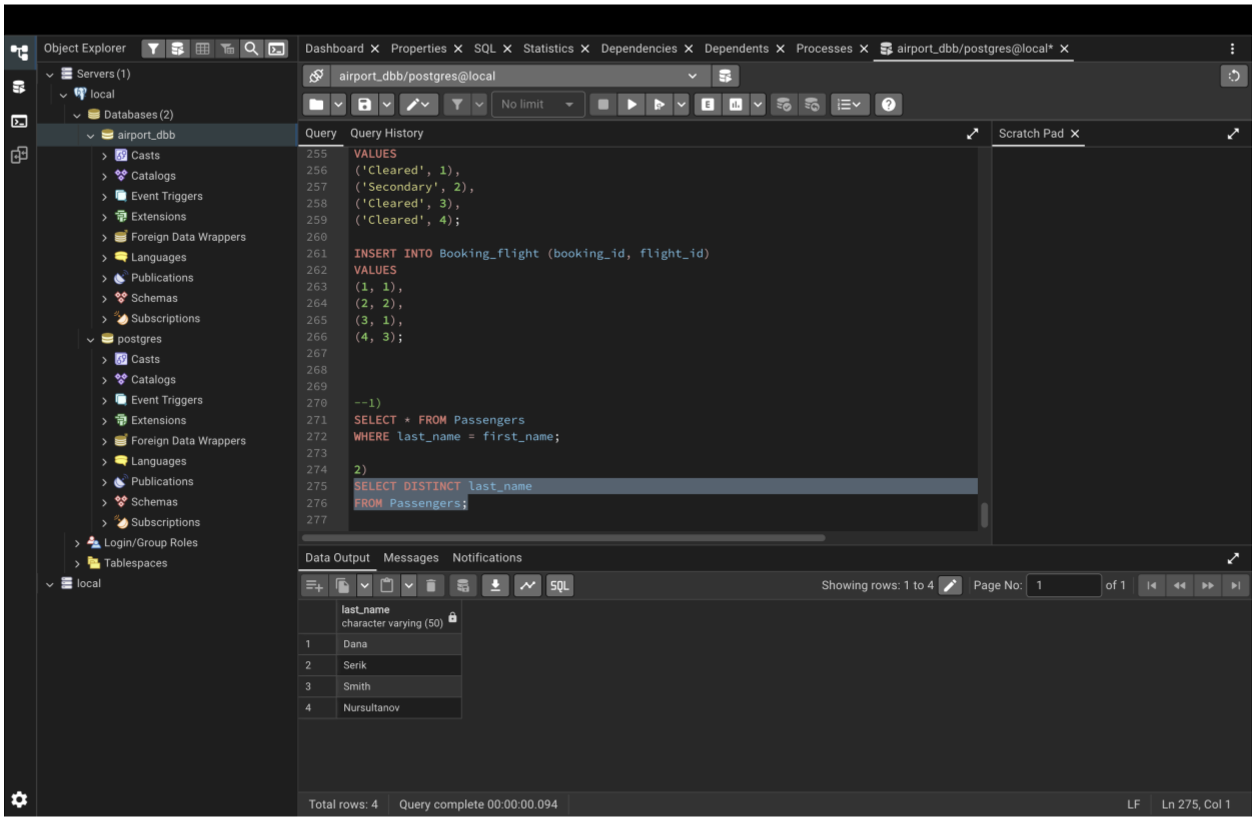


```
('Extra screening', 2, 2),
('OK', 3, 3),
('Overweight', 4, 4);

INSERT INTO Security_check (check_result, passenger_id)
VALUES
('Cleared', 1),
('Secondary', 2),
('Cleared', 3),
('Cleared', 4);

INSERT INTO Booking_flight (booking_id, flight_id)
VALUES
(1, 1),
(2, 2),
(3, 1),
(4, 3);



--1)
SELECT * FROM Passengers
WHERE last_name = first_name;
```

	passenger_id [PK] integer	first_name character varying (50)	last_name character varying (50)	date_of_birth date	gender character varying (50)	country_of_citizenship character varying (50)	country_of_residence character varying (50)	passport_number character varying (20)
1	4	Dana	Dana	1999-06-15	Female	Kazakhstan	Kazakhstan	KZ2222333

Total rows: 1 Query complete 00:00:00.055 LF Ln 270, Col 5

2)



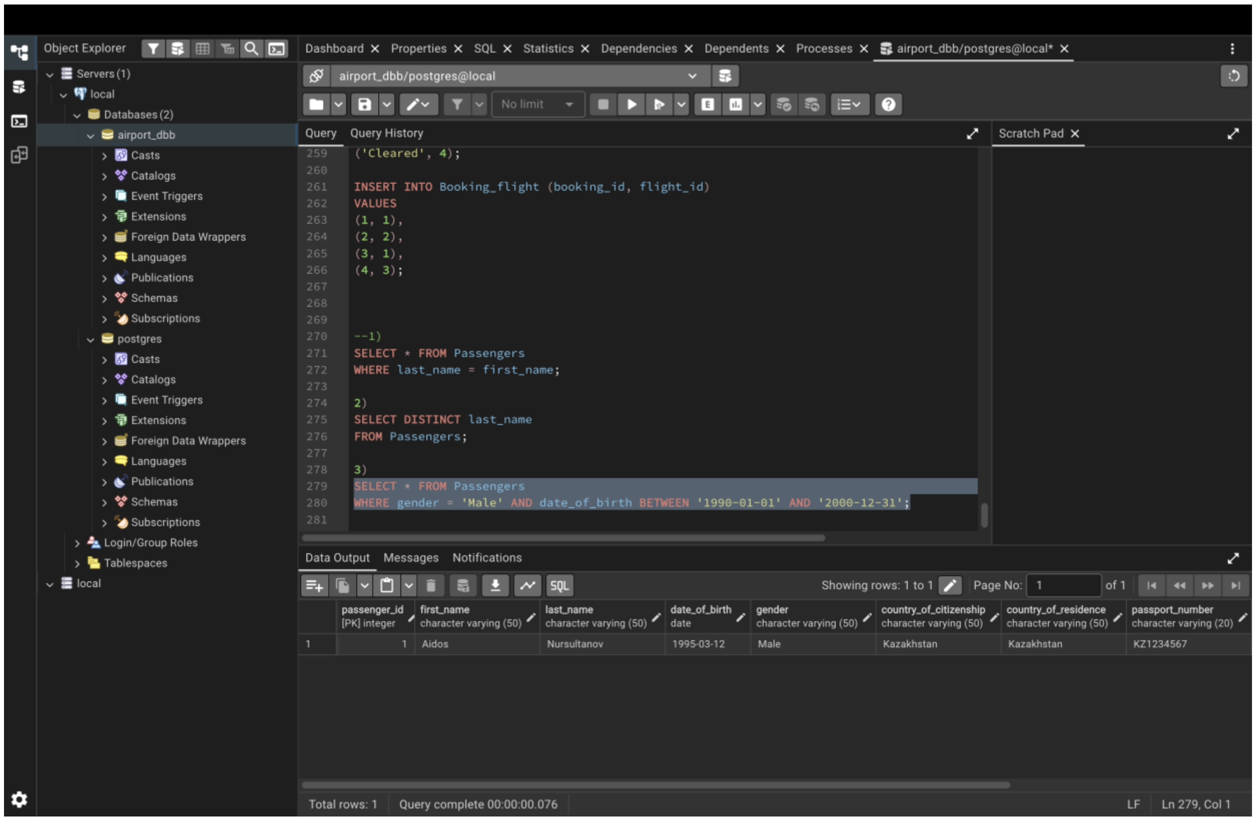
```
VALUES
('Cleared', 1),
('Secondary', 2),
('Cleared', 3),
('Cleared', 4);

INSERT INTO Booking_flight (booking_id, flight_id)
VALUES
(1, 1),
(2, 2),
(3, 1),
(4, 3);



--1)
SELECT * FROM Passengers
WHERE last_name = first_name;

2)
SELECT DISTINCT last_name
FROM Passengers;
```

Showing rows: 1 to 4 Page No: 1 of 1

	last_name character varying (50)
1	Dana
2	Serik
3	Smith
4	Nursultanov

Total rows: 4 Query complete 00:00:00.094 LF Ln 275, Col 1

3)

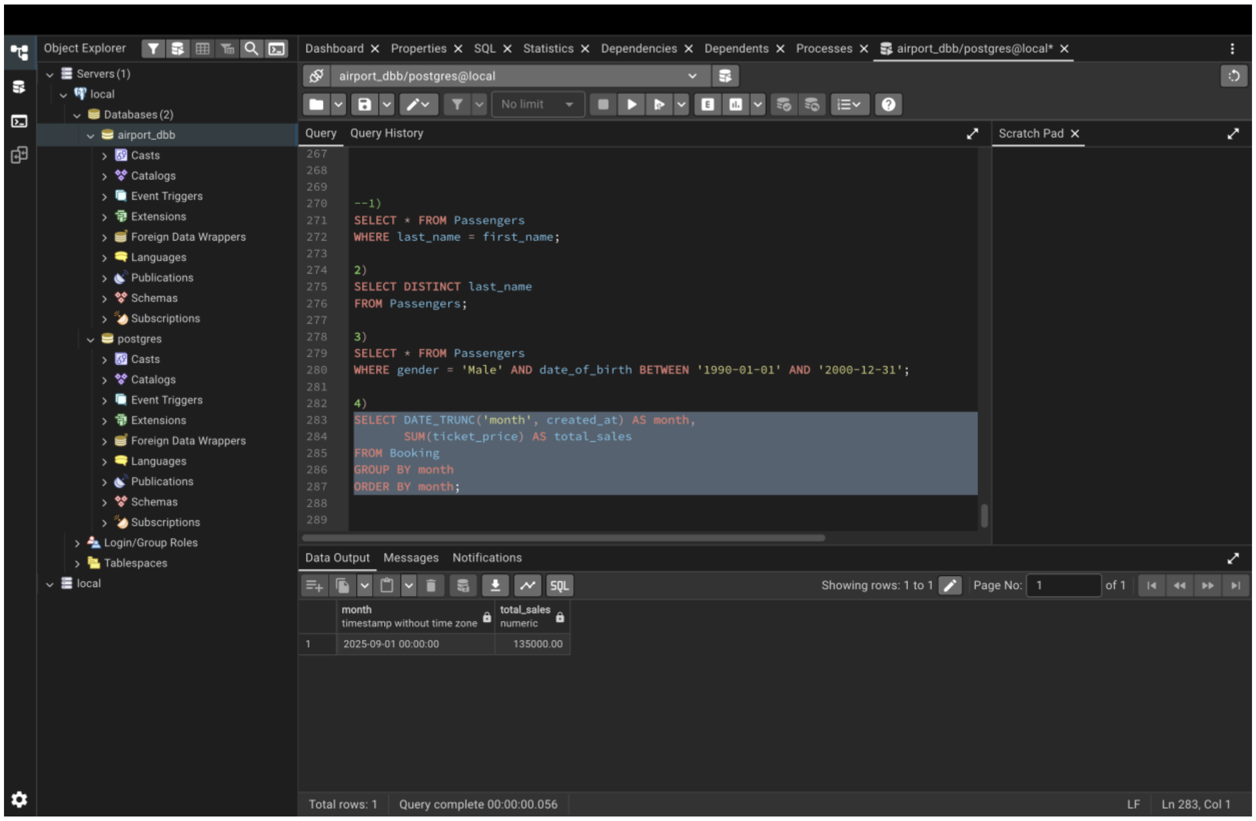


```sql
('Cleared', 4);

INSERT INTO Booking_flight (booking_id, flight_id)
VALUES
(1, 1),
(2, 2),
(3, 1),
(4, 3);



--1)
SELECT * FROM Passengers
WHERE last_name = first_name;

2)
SELECT DISTINCT last_name
FROM Passengers;

3)
SELECT * FROM Passengers
WHERE gender = 'Male' AND date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';
```

	passenger_id [PK] integer	first_name character varying (50)	last_name character varying (50)	date_of_birth date	gender character varying (50)	country_of_citizenship character varying (50)	country_of_residence character varying (50)	passport_number character varying (20)
1	1	Aidos	Nursultanov	1995-03-12	Male	Kazakhstan	Kazakhstan	KZ1234567

```
Total rows: 1    Query complete 00:00:00.076    LF    Ln 279, Col 1
```

4)

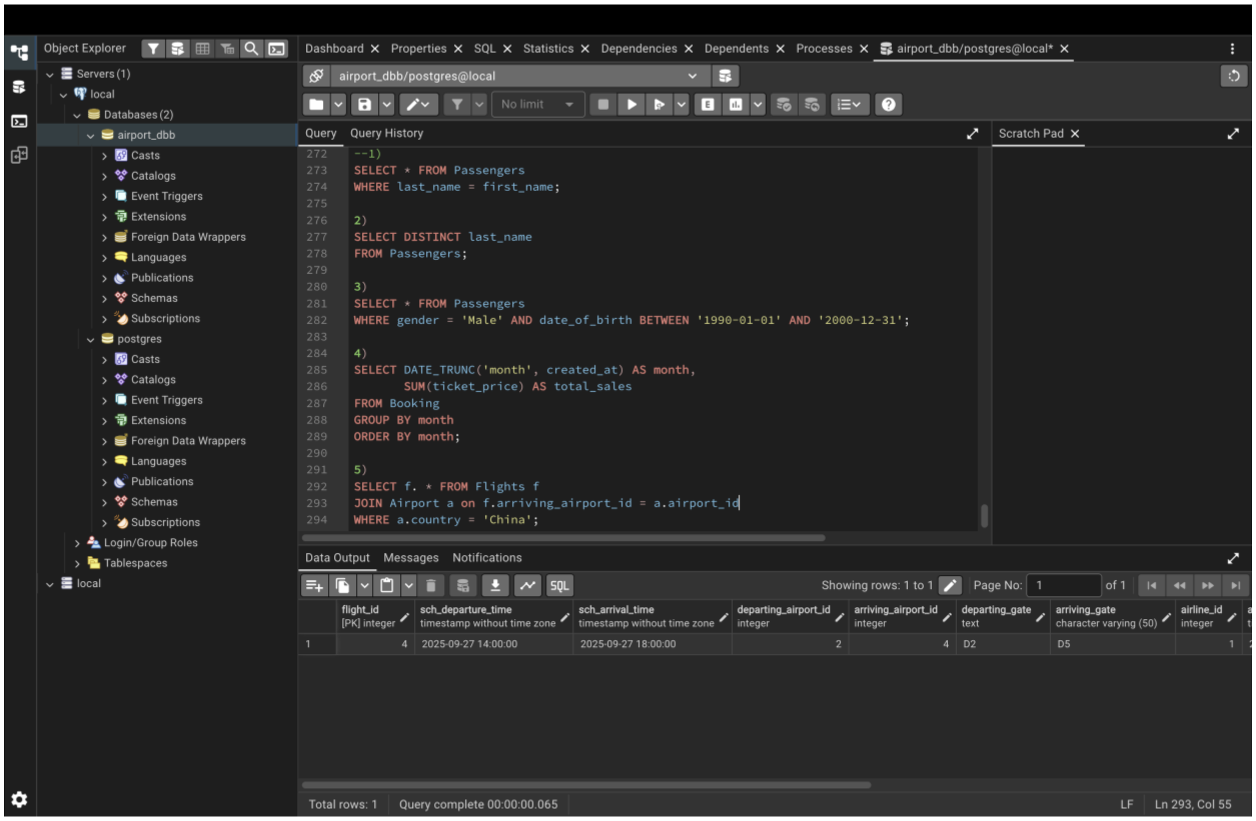


```sql



--1)
SELECT * FROM Passengers
WHERE last_name = first_name;

2)
SELECT DISTINCT last_name
FROM Passengers;

3)
SELECT * FROM Passengers
WHERE gender = 'Male' AND date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';

4)
SELECT DATE_TRUNC('month', created_at) AS month,
       SUM(ticket_price) AS total_sales
FROM Booking
GROUP BY month
ORDER BY month;
```

	month timestamp without time zone	total_sales numeric
1	2025-09-01 00:00:00	135000.00

```
Total rows: 1    Query complete 00:00:00.056    LF    Ln 283, Col 1
```

5)



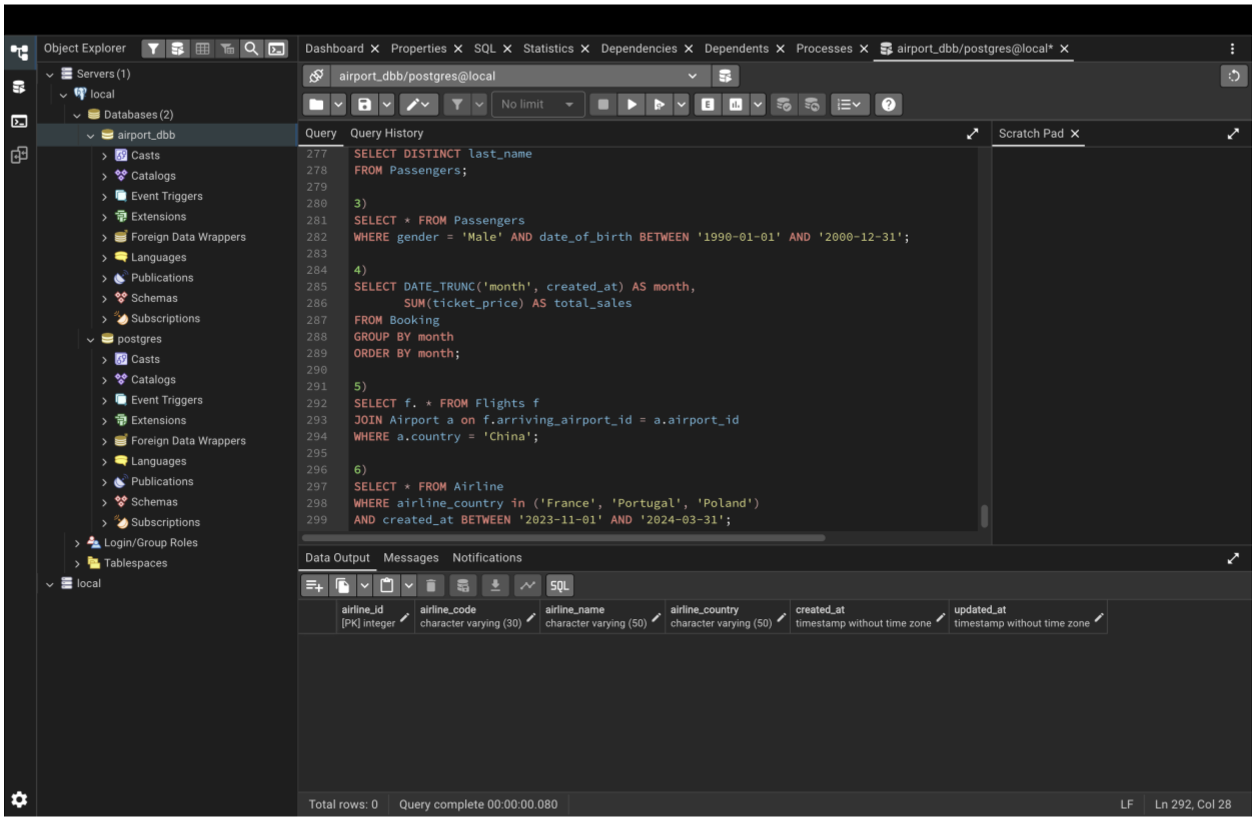
```
--1)
SELECT * FROM Passengers
WHERE last_name = first_name;

2)
SELECT DISTINCT last_name
FROM Passengers;

3)
SELECT * FROM Passengers
WHERE gender = 'Male' AND date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';

4)
SELECT DATE_TRUNC('month', created_at) AS month,
       SUM(ticket_price) AS total_sales
FROM Booking
GROUP BY month
ORDER BY month;

5)
SELECT f. * FROM Flights f
JOIN Airport a on f.arriving_airport_id = a.airport_id
WHERE a.country = 'China';
```

Showing rows: 1 to 1 Page No: 1 of 1

	flight_id [PK] integer	sch_departure_time timestamp without time zone	sch_arrival_time timestamp without time zone	departing_airport_id integer	arriving_airport_id integer	departing_gate text	arriving_gate character varying (50)	airline_id integer
1	4	2025-09-27 14:00:00	2025-09-27 18:00:00	2	4	D2	D5	1

Total rows: 1 Query complete 00:00:00.065 LF Ln 293, Col 55

6)

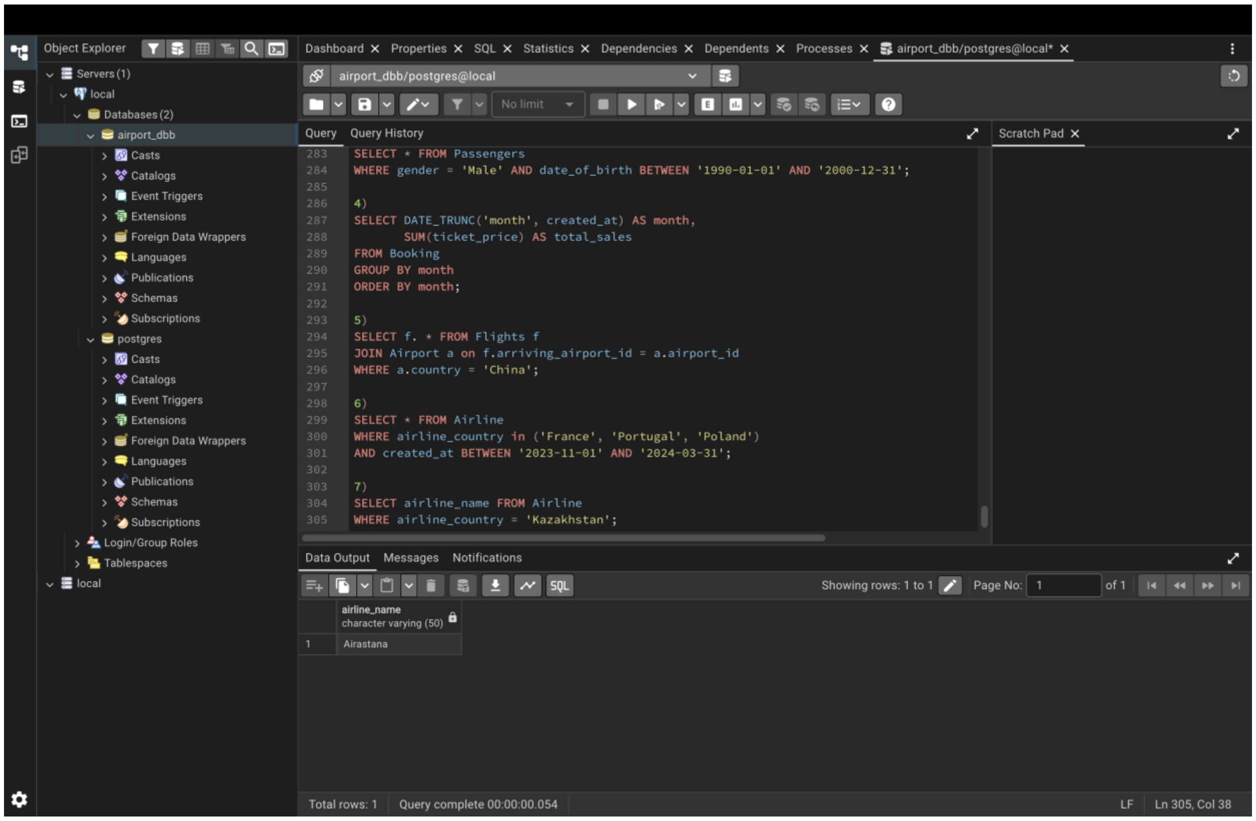


```
SELECT DISTINCT last_name
FROM Passengers;

3)
SELECT * FROM Passengers
WHERE gender = 'Male' AND date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';

4)
SELECT DATE_TRUNC('month', created_at) AS month,
       SUM(ticket_price) AS total_sales
FROM Booking
GROUP BY month
ORDER BY month;

5)
SELECT f. * FROM Flights f
JOIN Airport a on f.arriving_airport_id = a.airport_id
WHERE a.country = 'China';

6)
SELECT * FROM Airline
WHERE airline_country in ('France', 'Portugal', 'Poland')
AND created_at BETWEEN '2023-11-01' AND '2024-03-31';
```

airline_id [PK] integer	airline_code character varying (30)	airline_name character varying (50)	airline_country character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone

Total rows: 0 Query complete 00:00:00.080 LF Ln 292, Col 28

7)



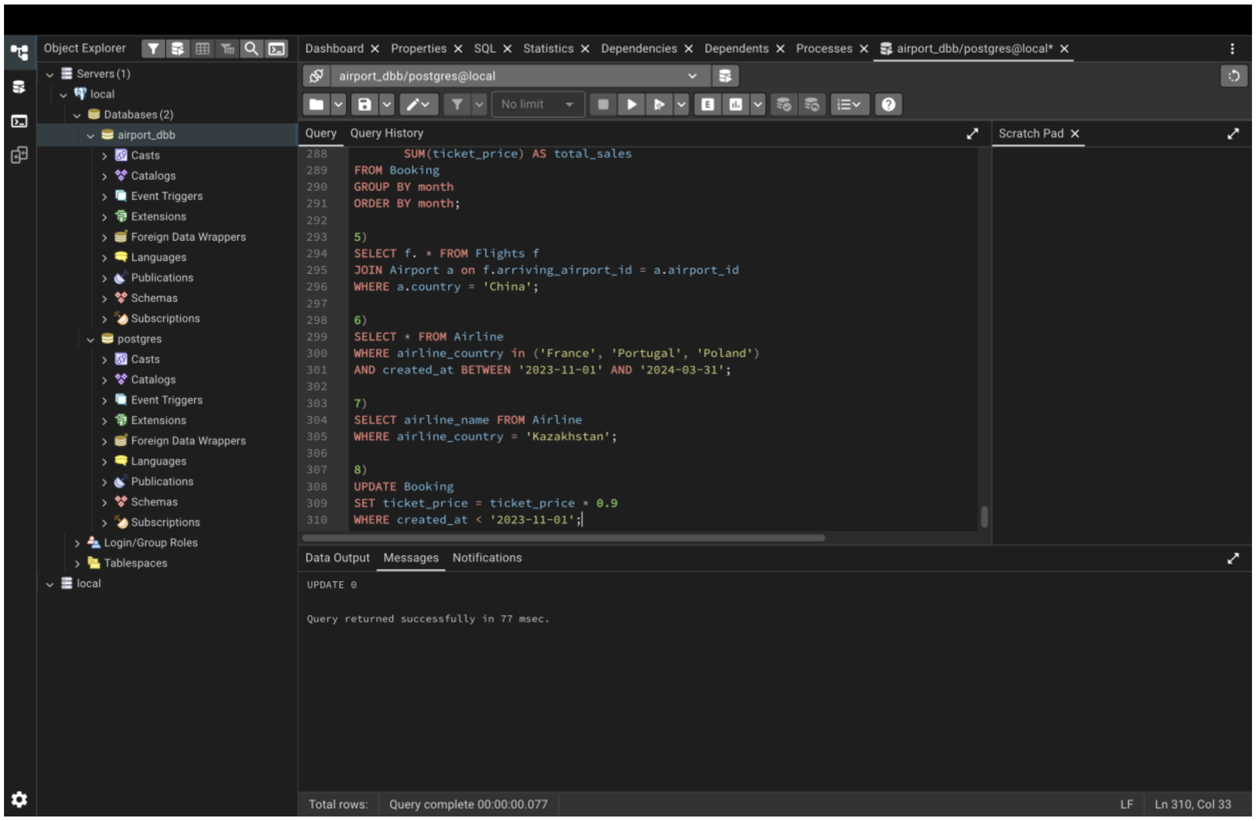
```
SELECT * FROM Passengers
WHERE gender = 'Male' AND date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';

4)
SELECT DATE_TRUNC('month', created_at) AS month,
       SUM(ticket_price) AS total_sales
FROM Booking
GROUP BY month
ORDER BY month;

5)
SELECT f. * FROM Flights f
JOIN Airport a on f.arriving_airport_id = a.airport_id
WHERE a.country = 'China';

6)
SELECT * FROM Airline
WHERE airline_country in ('France', 'Portugal', 'Poland')
AND created_at BETWEEN '2023-11-01' AND '2024-03-31';

7)
SELECT airline_name FROM Airline
WHERE airline_country = 'Kazakhstan';
```

Showing rows: 1 to 1   Page No: 1 of 1

	airline_name character varying (50)
1	Airastana

Total rows: 1   Query complete 00:00:00.054   LF   Ln 305, Col 38

8)

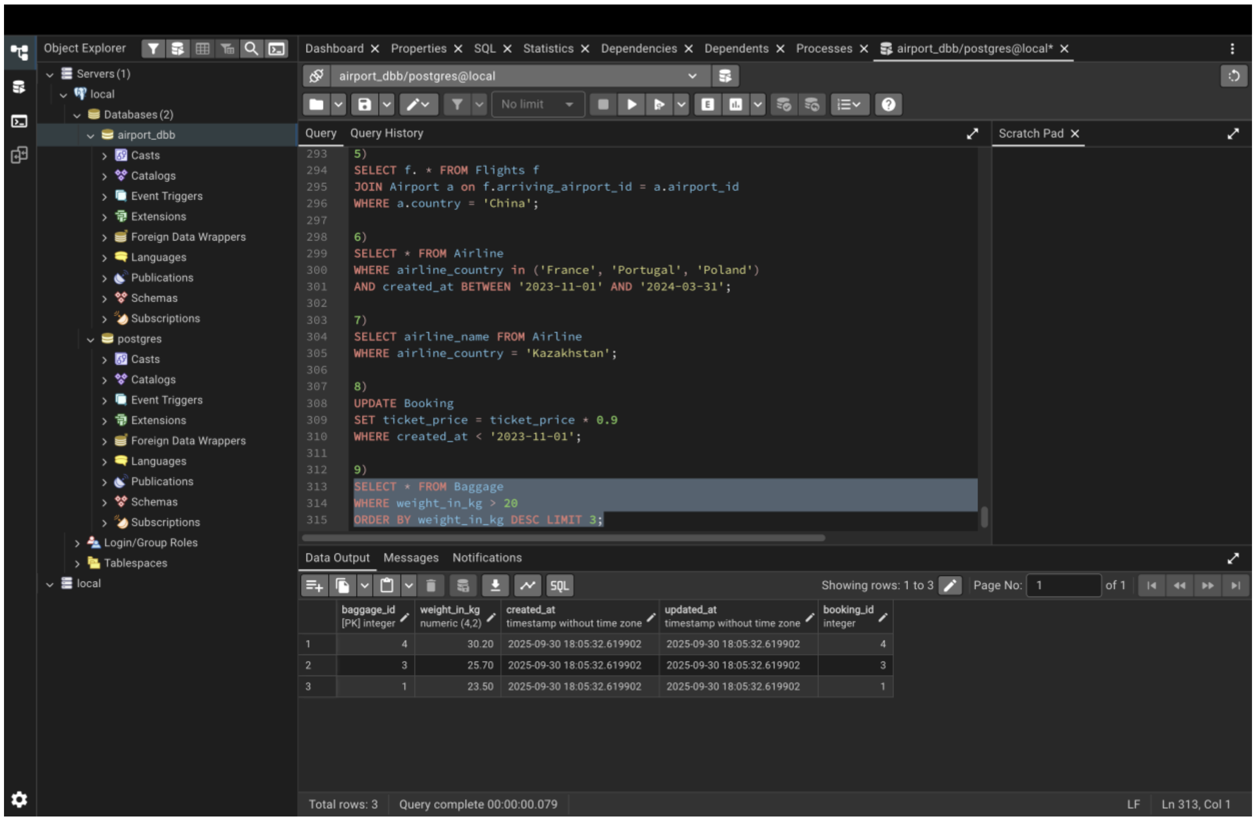


```
       SUM(ticket_price) AS total_sales
FROM Booking
GROUP BY month
ORDER BY month;

5)
SELECT f. * FROM Flights f
JOIN Airport a on f.arriving_airport_id = a.airport_id
WHERE a.country = 'China';

6)
SELECT * FROM Airline
WHERE airline_country in ('France', 'Portugal', 'Poland')
AND created_at BETWEEN '2023-11-01' AND '2024-03-31';

7)
SELECT airline_name FROM Airline
WHERE airline_country = 'Kazakhstan';

8)
UPDATE Booking
SET ticket_price = ticket_price * 0.9
WHERE created_at < '2023-11-01';
```

```
UPDATE 0

Query returned successfully in 77 msec.
```

Total rows: Query complete 00:00:00.077   LF   Ln 310, Col 33

9)

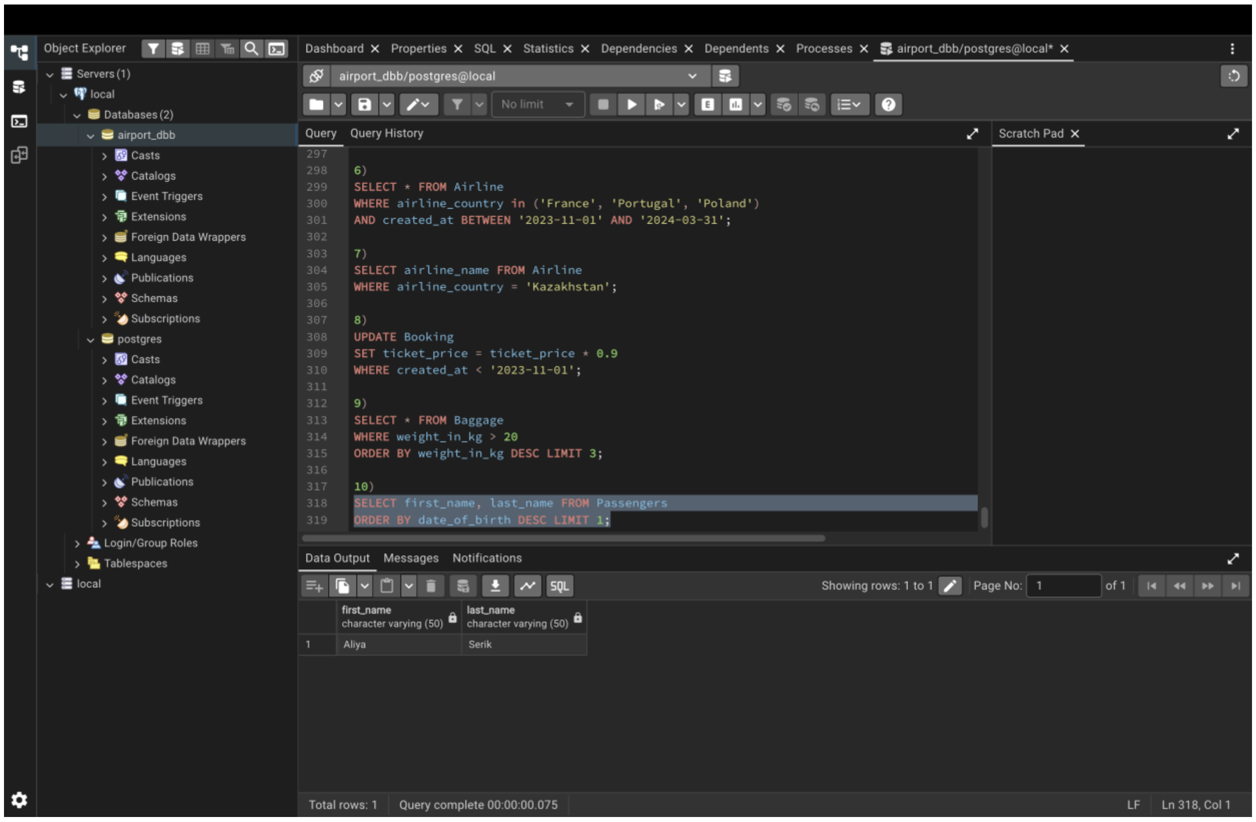


```
5)
SELECT f. * FROM Flights f
JOIN Airport a on f.arriving_airport_id = a.airport_id
WHERE a.country = 'China';

6)
SELECT * FROM Airline
WHERE airline_country in ('France', 'Portugal', 'Poland')
AND created_at BETWEEN '2023-11-01' AND '2024-03-31';

7)
SELECT airline_name FROM Airline
WHERE airline_country = 'Kazakhstan';

8)
UPDATE Booking
SET ticket_price = ticket_price * 0.9
WHERE created_at < '2023-11-01';

9)
SELECT * FROM Baggage
WHERE weight_in_kg > 20
ORDER BY weight_in_kg DESC LIMIT 3;
```

	baggage_id [PK] integer	weight_in_kg numeric (4,2)	created_at timestamp without time zone	updated_at timestamp without time zone	booking_id integer
1	4	30.20	2025-09-30 18:05:32.619902	2025-09-30 18:05:32.619902	4
2	3	25.70	2025-09-30 18:05:32.619902	2025-09-30 18:05:32.619902	3
3	1	23.50	2025-09-30 18:05:32.619902	2025-09-30 18:05:32.619902	1

```
Total rows: 3    Query complete 00:00:00.079
```

10)

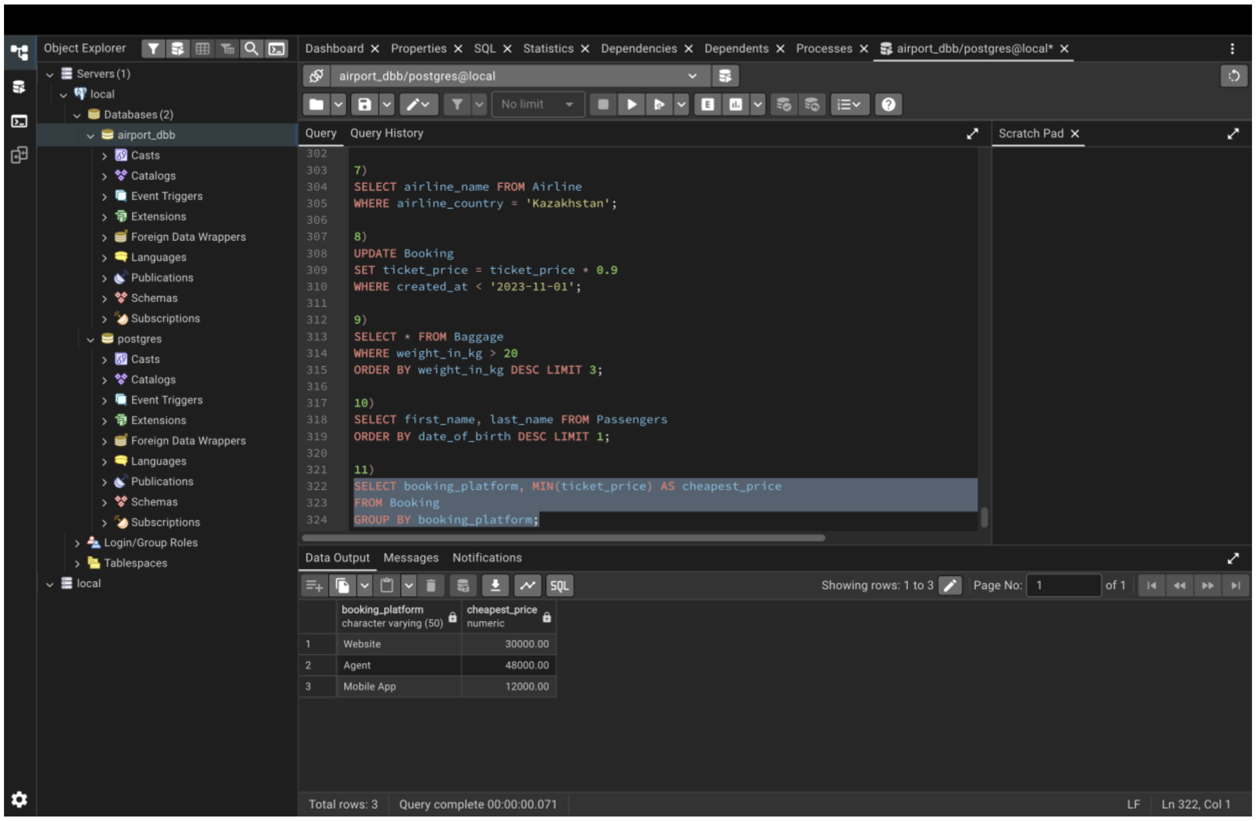


```
6)
SELECT * FROM Airline
WHERE airline_country in ('France', 'Portugal', 'Poland')
AND created_at BETWEEN '2023-11-01' AND '2024-03-31';

7)
SELECT airline_name FROM Airline
WHERE airline_country = 'Kazakhstan';

8)
UPDATE Booking
SET ticket_price = ticket_price * 0.9
WHERE created_at < '2023-11-01';

9)
SELECT * FROM Baggage
WHERE weight_in_kg > 20
ORDER BY weight_in_kg DESC LIMIT 3;

10)
SELECT first_name, last_name FROM Passengers
ORDER BY date_of_birth DESC LIMIT 1;
```

	first_name character varying (50)	last_name character varying (50)
1	Aliya	Serik

```
Total rows: 1    Query complete 00:00:00.075
```

11)



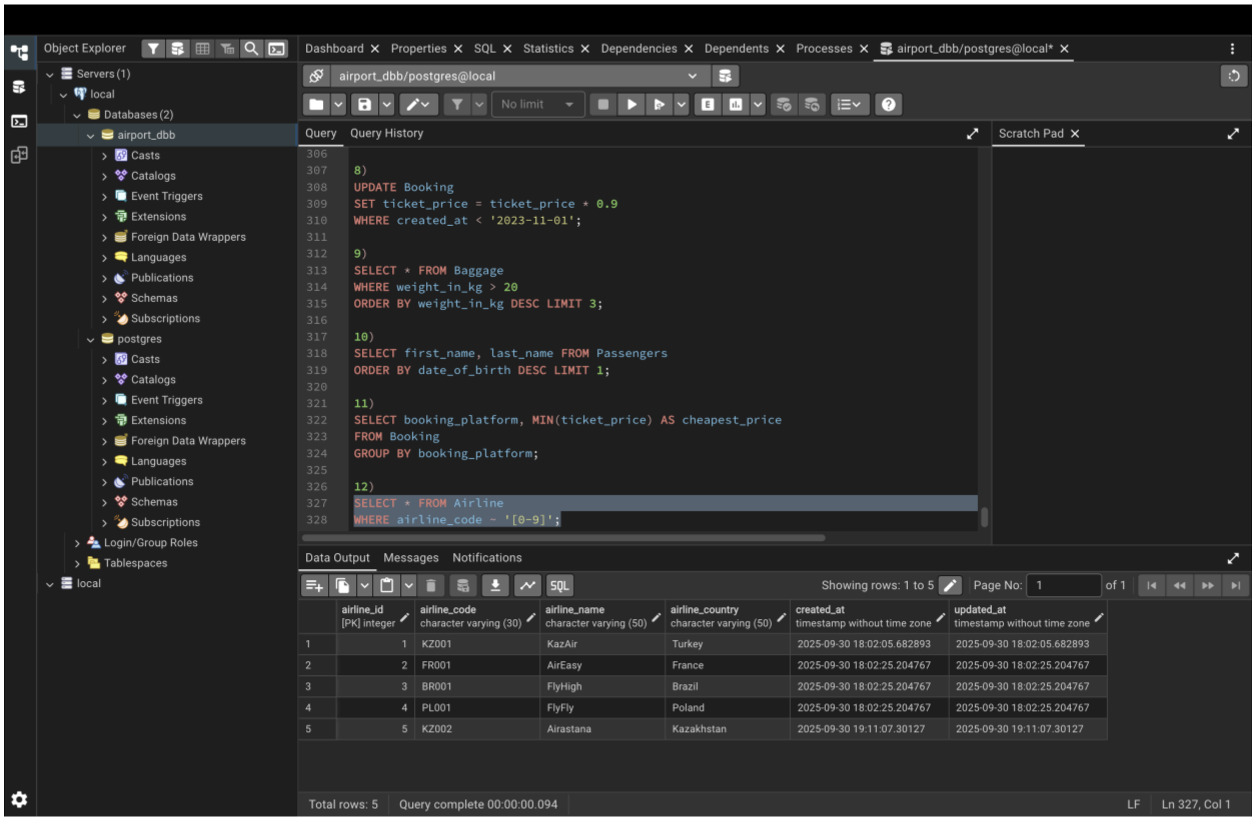
```
7)
SELECT airline_name FROM Airline
WHERE airline_country = 'Kazakhstan';

8)
UPDATE Booking
SET ticket_price = ticket_price * 0.9
WHERE created_at < '2023-11-01';

9)
SELECT * FROM Baggage
WHERE weight_in_kg > 20
ORDER BY weight_in_kg DESC LIMIT 3;

10)
SELECT first_name, last_name FROM Passengers
ORDER BY date_of_birth DESC LIMIT 1;

11)
SELECT booking_platform, MIN(ticket_price) AS cheapest_price
FROM Booking
GROUP BY booking_platform;
```

Showing rows: 1 to 3 Page No: 1 of 1

	booking_platform character varying (50)	cheapest_price numeric
1	Website	30000.00
2	Agent	48000.00
3	Mobile App	12000.00

Total rows: 3 Query complete 00:00:00.071 LF Ln 322, Col 1

12)



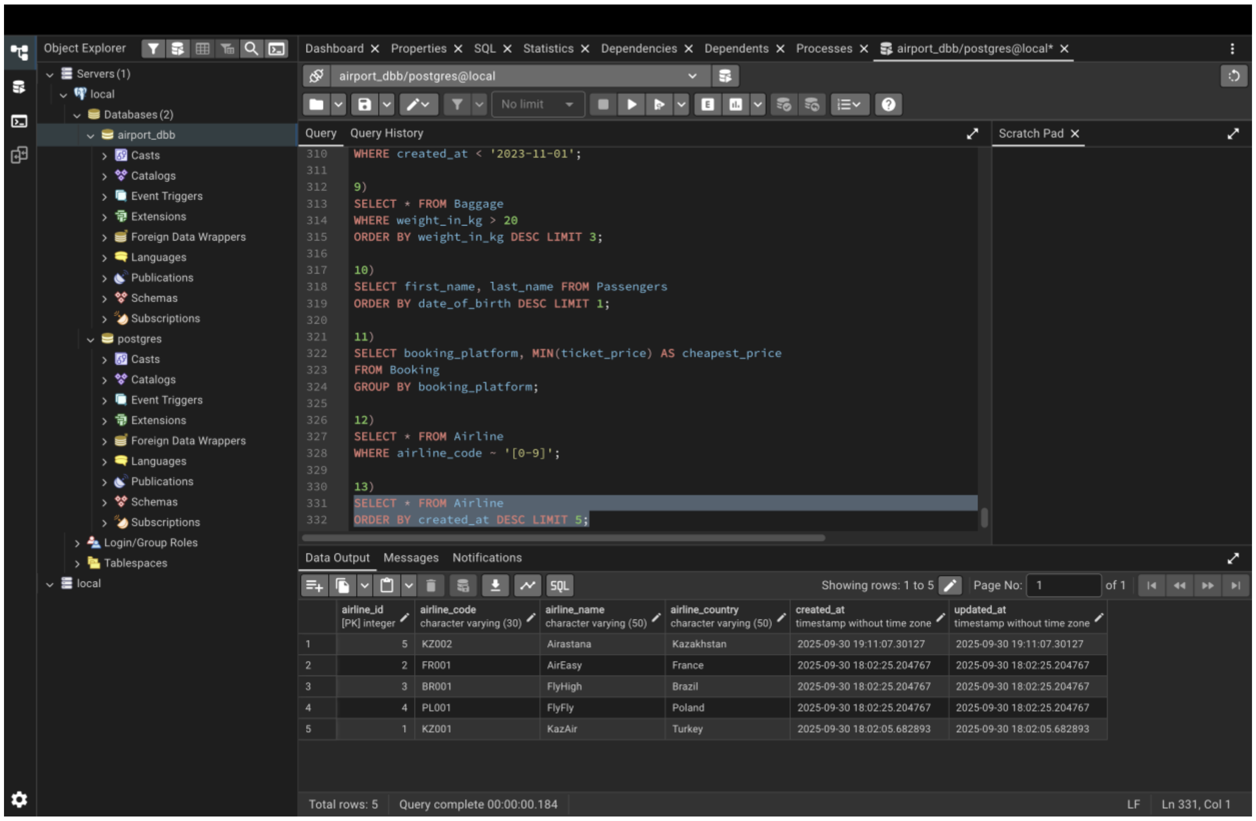
```
8)
UPDATE Booking
SET ticket_price = ticket_price * 0.9
WHERE created_at < '2023-11-01';

9)
SELECT * FROM Baggage
WHERE weight_in_kg > 20
ORDER BY weight_in_kg DESC LIMIT 3;

10)
SELECT first_name, last_name FROM Passengers
ORDER BY date_of_birth DESC LIMIT 1;

11)
SELECT booking_platform, MIN(ticket_price) AS cheapest_price
FROM Booking
GROUP BY booking_platform;

12)
SELECT * FROM Airline
WHERE airline_code ~ '[0-9]';
```

Showing rows: 1 to 5 Page No: 1 of 1

	airline_id [PK] integer	airline_code character varying (30)	airline_name character varying (50)	airline_country character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone
1	1	KZ001	KazAir	Turkey	2025-09-30 18:02:05.682893	2025-09-30 18:02:05.682893
2	2	FR001	AirEasy	France	2025-09-30 18:02:25.204767	2025-09-30 18:02:25.204767
3	3	BR001	FlyHigh	Brazil	2025-09-30 18:02:25.204767	2025-09-30 18:02:25.204767
4	4	PL001	FlyFly	Poland	2025-09-30 18:02:25.204767	2025-09-30 18:02:25.204767
5	5	KZ002	Airastana	Kazakhstan	2025-09-30 19:11:07.30127	2025-09-30 19:11:07.30127

Total rows: 5 Query complete 00:00:00.094 LF Ln 327, Col 1

13)



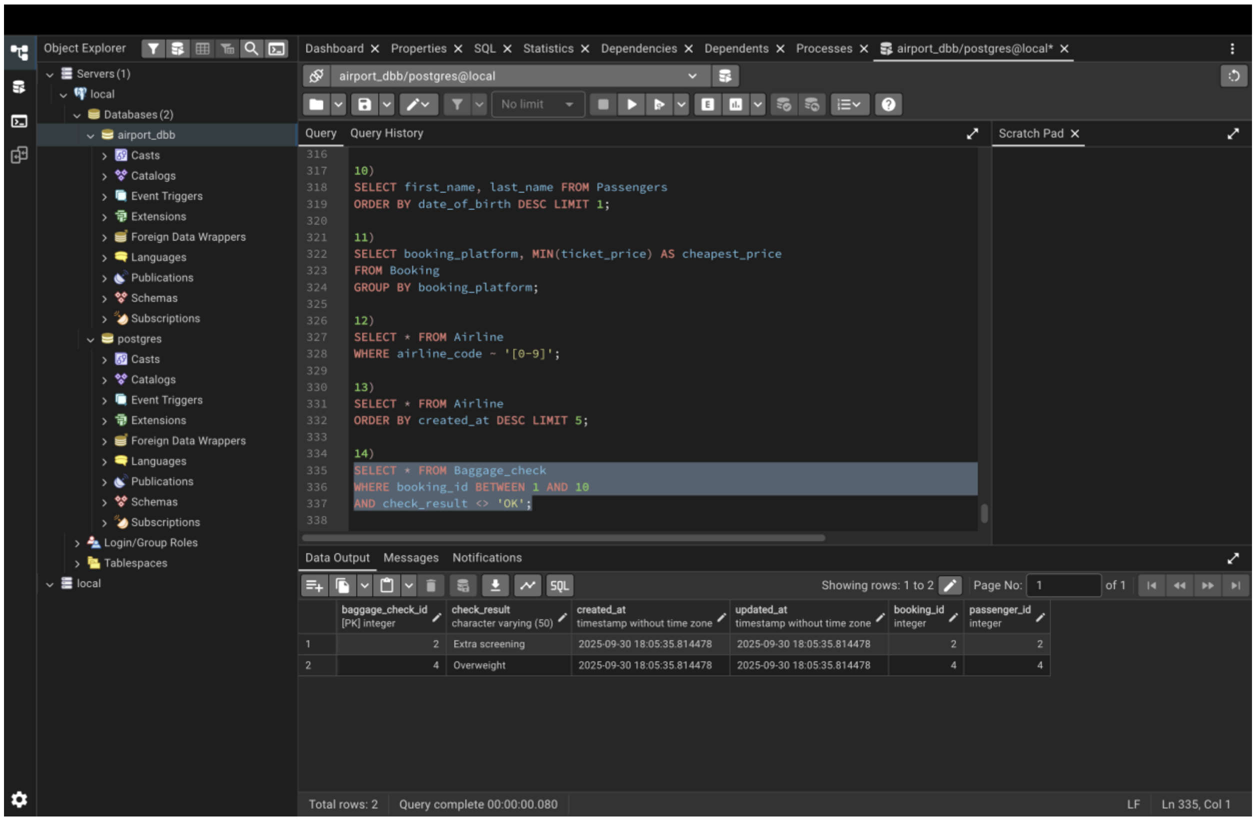
```
WHERE created_at < '2023-11-01';

9)
SELECT * FROM Baggage
WHERE weight_in_kg > 20
ORDER BY weight_in_kg DESC LIMIT 3;

10)
SELECT first_name, last_name FROM Passengers
ORDER BY date_of_birth DESC LIMIT 1;

11)
SELECT booking_platform, MIN(ticket_price) AS cheapest_price
FROM Booking
GROUP BY booking_platform;

12)
SELECT * FROM Airline
WHERE airline_code ~ '[0-9]';

13)
SELECT * FROM Airline
ORDER BY created_at DESC LIMIT 5;
```

Showing rows: 1 to 5 Page No: 1 of 1

	airline_id [PK] integer	airline_code character varying (30)	airline_name character varying (50)	airline_country character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone
1	5	KZ002	Airastana	Kazakhstan	2025-09-30 19:11:07.30127	2025-09-30 19:11:07.30127
2	2	FR001	AirEasy	France	2025-09-30 18:02:25.204767	2025-09-30 18:02:25.204767
3	3	BR001	FlyHigh	Brazil	2025-09-30 18:02:25.204767	2025-09-30 18:02:25.204767
4	4	PL001	FlyFly	Poland	2025-09-30 18:02:25.204767	2025-09-30 18:02:25.204767
5	1	KZ001	KazAir	Turkey	2025-09-30 18:02:05.682893	2025-09-30 18:02:05.682893

Total rows: 5 Query complete 00:00:00.184

14)



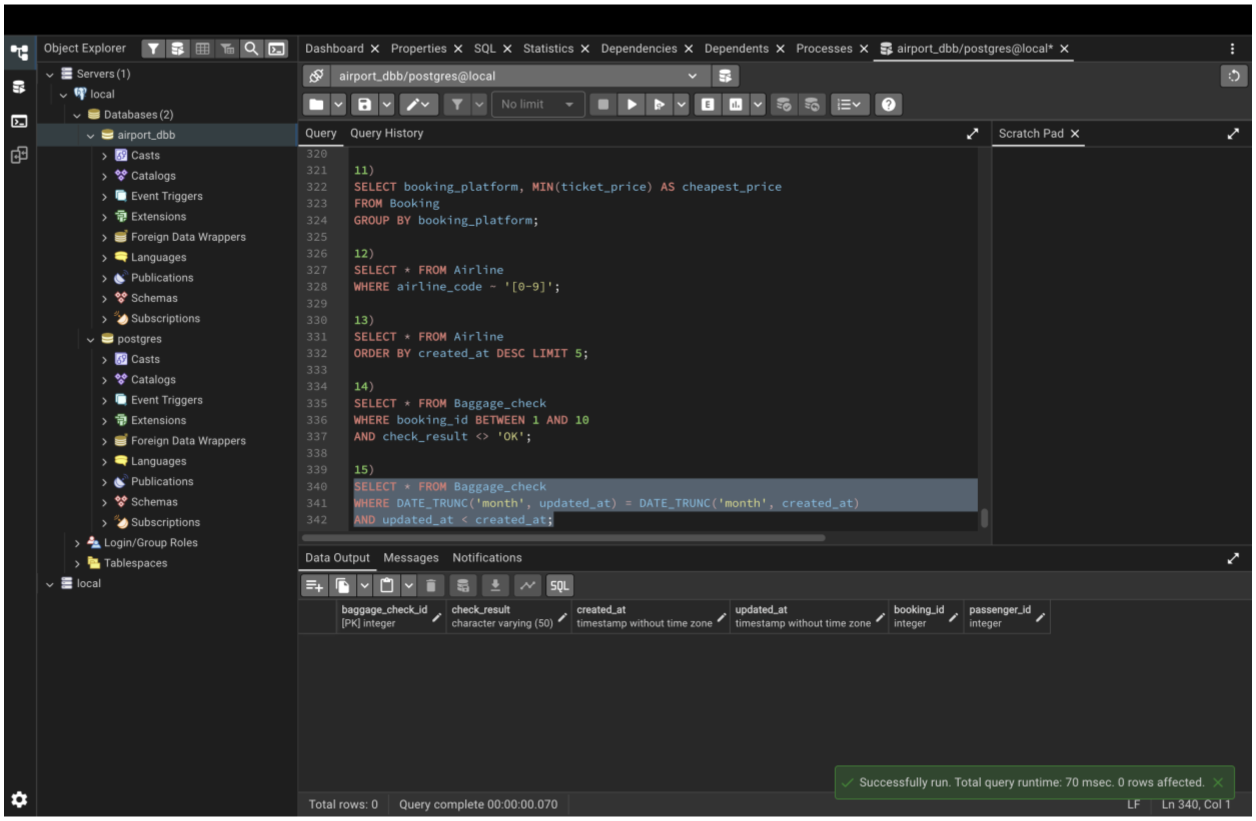
```

10)
SELECT first_name, last_name FROM Passengers
ORDER BY date_of_birth DESC LIMIT 1;

11)
SELECT booking_platform, MIN(ticket_price) AS cheapest_price
FROM Booking
GROUP BY booking_platform;

12)
SELECT * FROM Airline
WHERE airline_code ~ '[0-9]';

13)
SELECT * FROM Airline
ORDER BY created_at DESC LIMIT 5;

14)
SELECT * FROM Baggage_check
WHERE booking_id BETWEEN 1 AND 10
AND check_result <> 'OK';

```

Showing rows: 1 to 2 Page No: 1 of 1

	baggage_check_id [PK] integer	check_result character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone	booking_id integer	passenger_id integer
1	2	Extra screening	2025-09-30 18:05:35.814478	2025-09-30 18:05:35.814478	2	2
2	4	Overweight	2025-09-30 18:05:35.814478	2025-09-30 18:05:35.814478	4	4

Total rows: 2 Query complete 00:00:00.080

15)



airport_dbb/postgres@local

```sql
11)
SELECT booking_platform, MIN(ticket_price) AS cheapest_price
FROM Booking
GROUP BY booking_platform;

12)
SELECT * FROM Airline
WHERE airline_code ~ '[0-9]';

13)
SELECT * FROM Airline
ORDER BY created_at DESC LIMIT 5;

14)
SELECT * FROM Baggage_check
WHERE booking_id BETWEEN 1 AND 10
AND check_result <> 'OK';

15)
SELECT * FROM Baggage_check
WHERE DATE_TRUNC('month', updated_at) = DATE_TRUNC('month', created_at)
AND updated_at < created_at;
```

baggage_check_id [PK] integer	check_result character varying (50)	created_at timestamp without time zone	updated_at timestamp without time zone	booking_id integer	passenger_id integer

Successfully run. Total query runtime: 70 msec. 0 rows affected.

Total rows: 0   Query complete 00:00:00.070   LF   Ln 340, Col 1