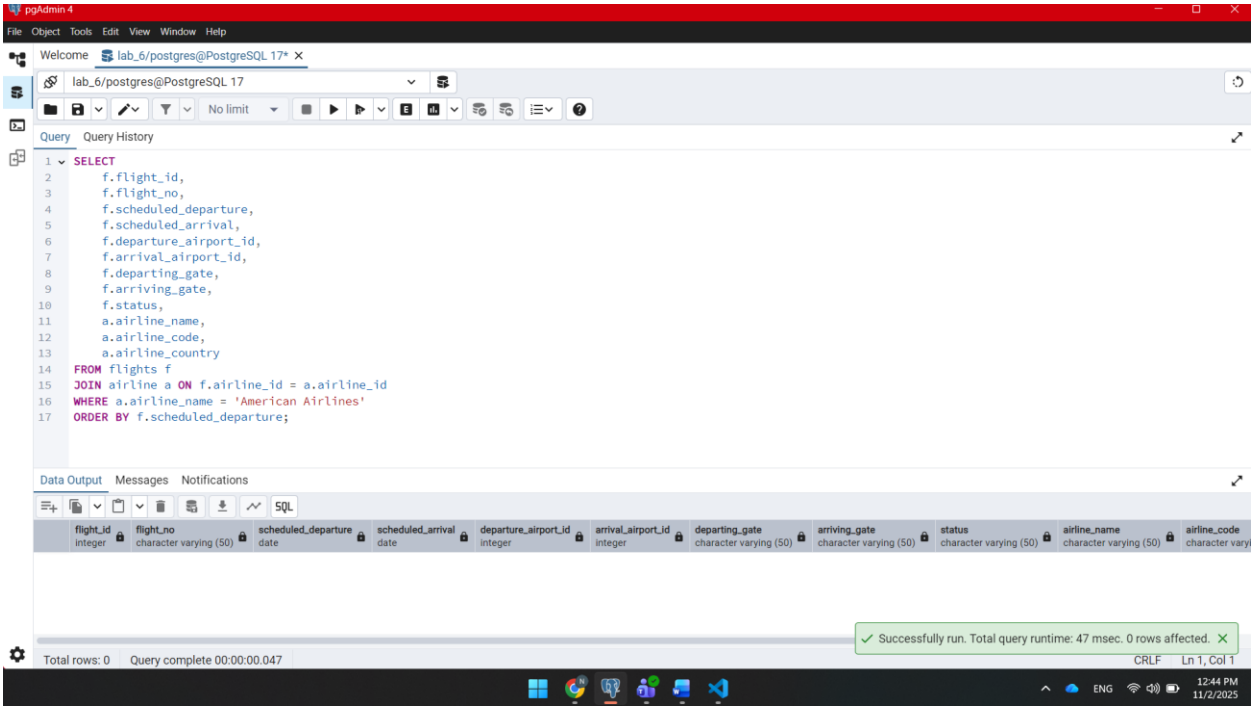
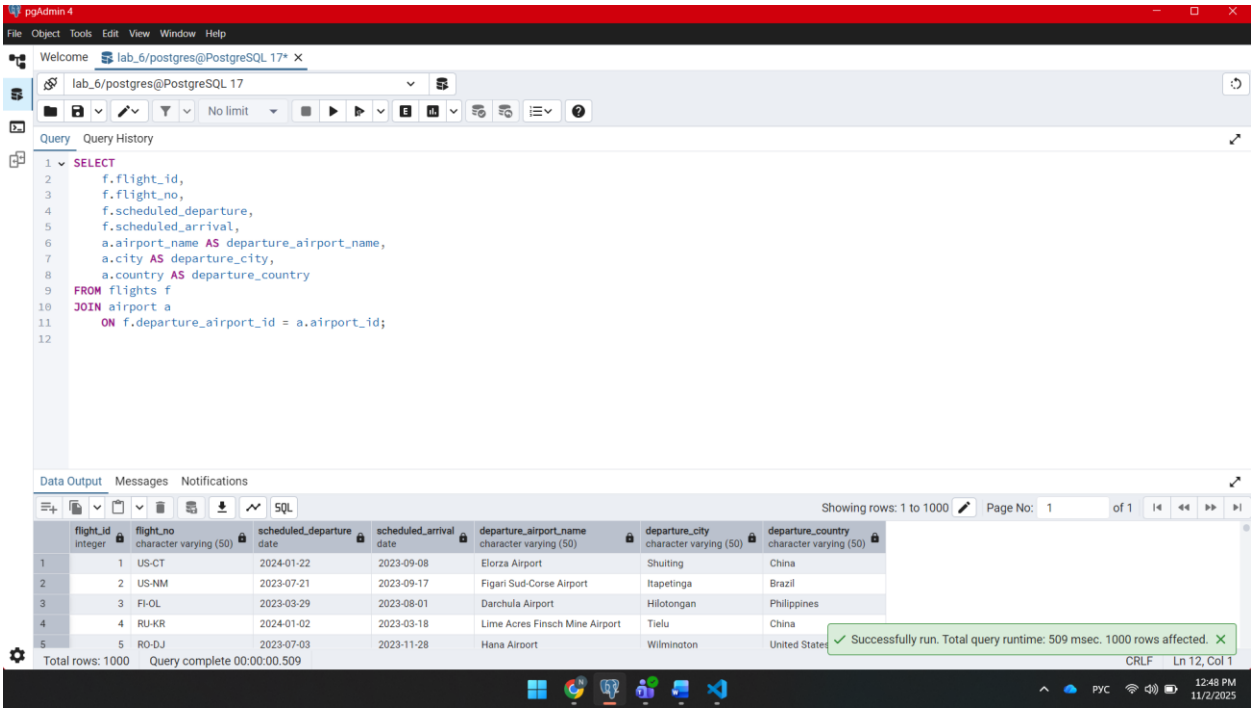
Lab-6



1

```
SELECT
    f.flight_id,
    f.flight_no,
    f.scheduled_departure,
    f.scheduled_arrival,
    f.departure_airport_id,
    f.arrival_airport_id,
    f.departing_gate,
    f.arriving_gate,
    f.status,
```

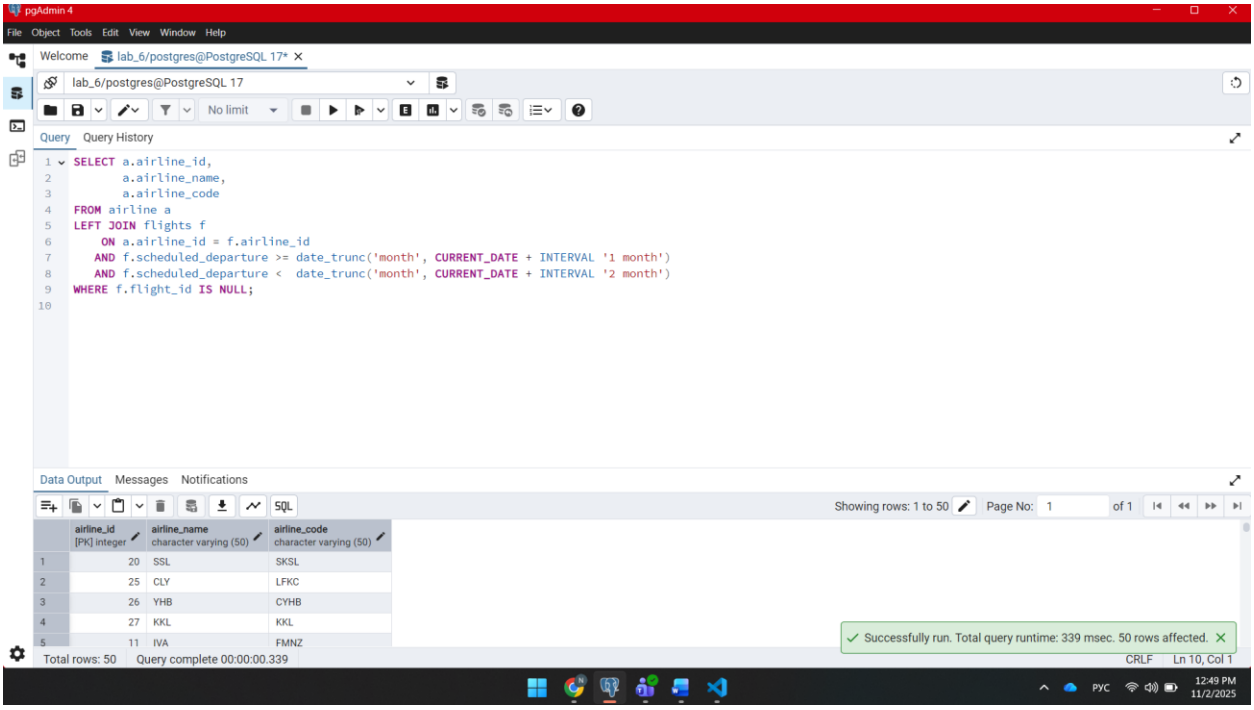
```
    a.airline_name,
    a.airline_code,
    a.airline_country
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
WHERE a.airline_name = 'American Airlines'
ORDER BY f.scheduled_departure;
```



2

```
SELECT
    f.flight_id,
    f.flight_no,
    f.scheduled_departure,
    f.scheduled_arrival,
    a.airport_name AS departure_airport_name,
```

```
    a.city AS departure_city,
    a.country AS departure_country
FROM flights f
JOIN airport a
    ON f.departure_airport_id = a.airport_id;
```



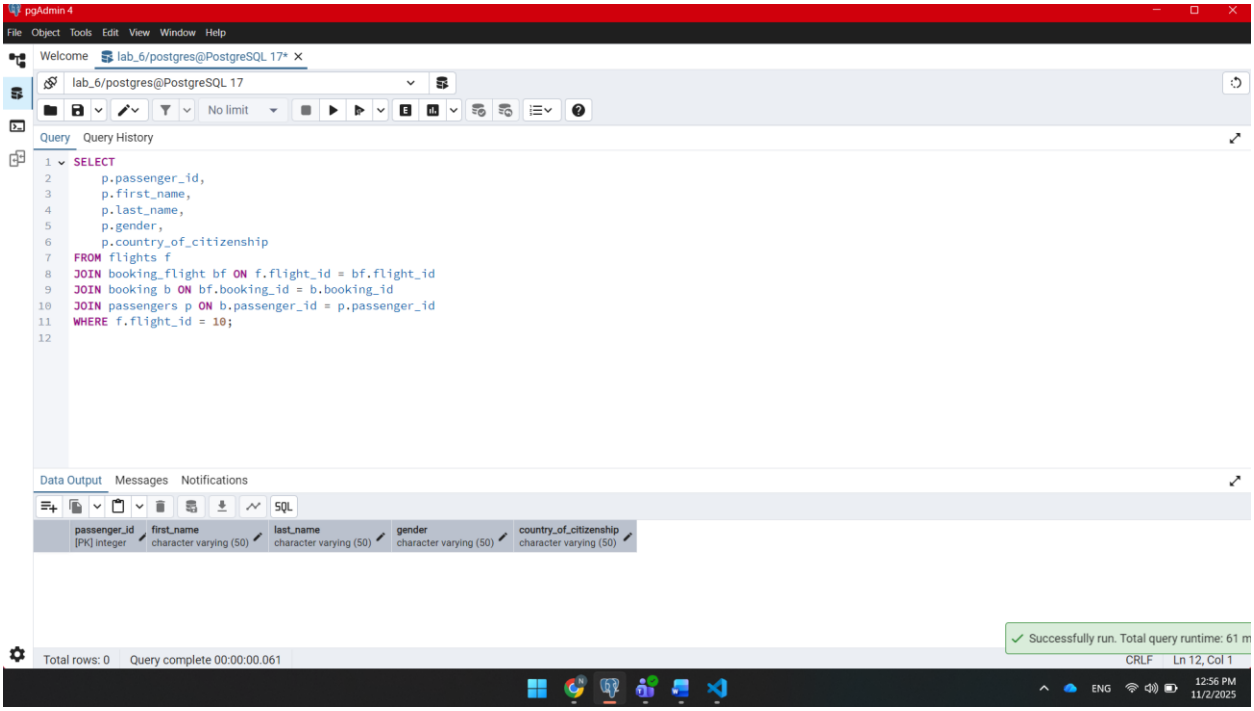
3

```
SELECT a.airline_id,
       a.airline_name,
       a.airline_code
FROM airline a
LEFT JOIN flights f
    ON a.airline_id = f.airline_id
```

AND f.scheduled_departure >= date_trunc('month', CURRENT_DATE + INTERVAL '1 month')

AND f.scheduled_departure < date_trunc('month', CURRENT_DATE + INTERVAL '2 month')

WHERE f.flight_id IS NULL;



4

SELECT

p.passenger_id,

p.first_name,

p.last_name,

p.gender,

p.country_of_citizenship

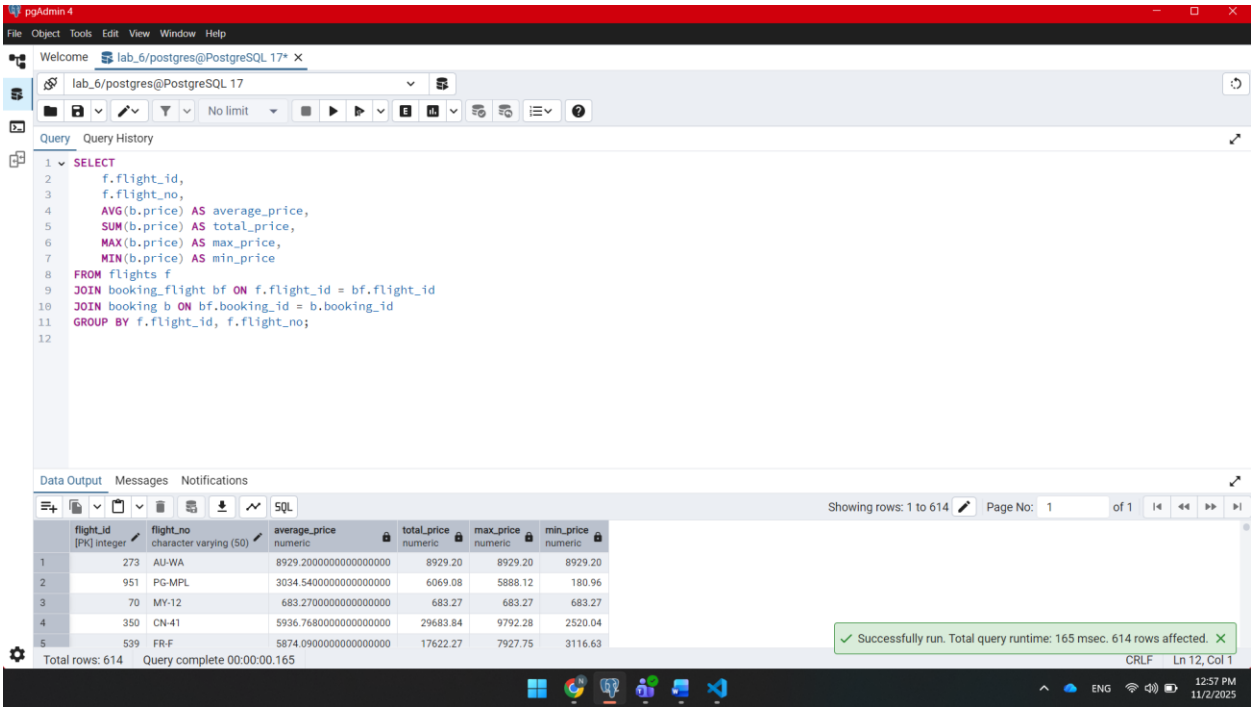
FROM flights f

JOIN booking_flight bf ON f.flight_id = bf.flight_id

JOIN booking b ON bf.booking_id = b.booking_id

JOIN passengers p ON b.passenger_id = p.passenger_id

WHERE f.flight_id = 10;



5

SELECT

f.flight_id,

f.flight_no,

AVG(b.price) AS average_price,

SUM(b.price) AS total_price,

MAX(b.price) AS max_price,

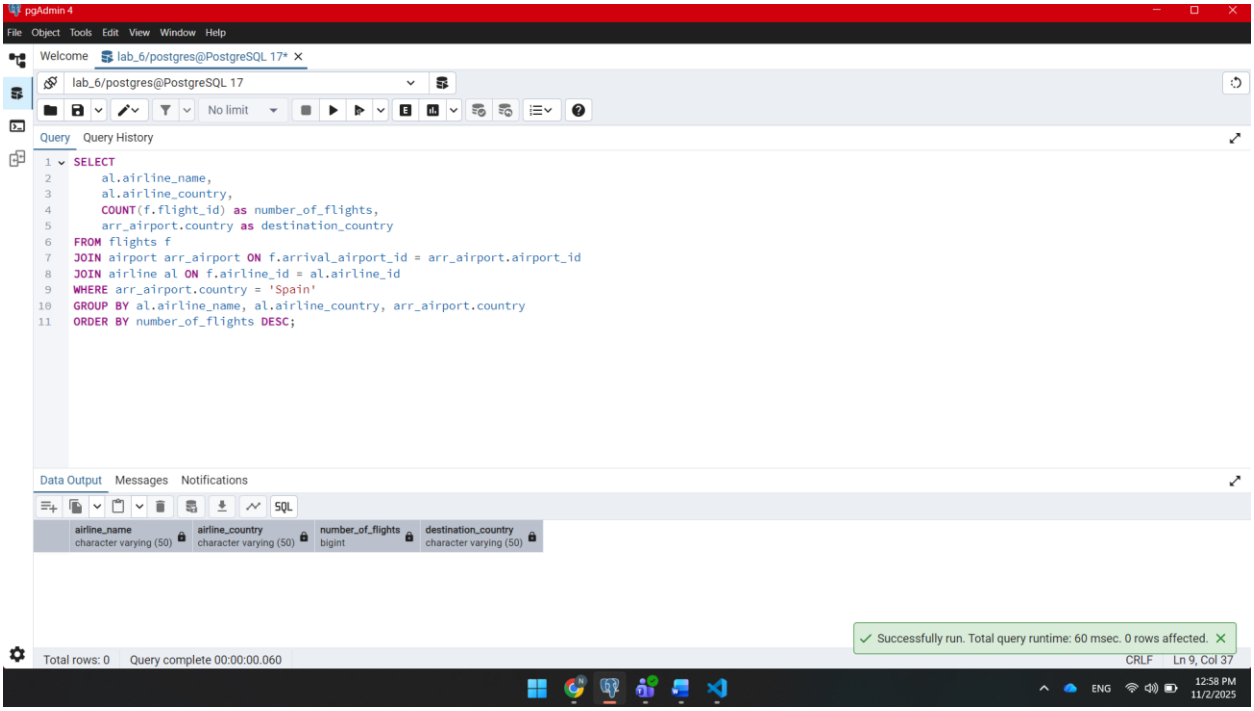
MIN(b.price) AS min_price

FROM flights f

JOIN booking_flight bf ON f.flight_id = bf.flight_id

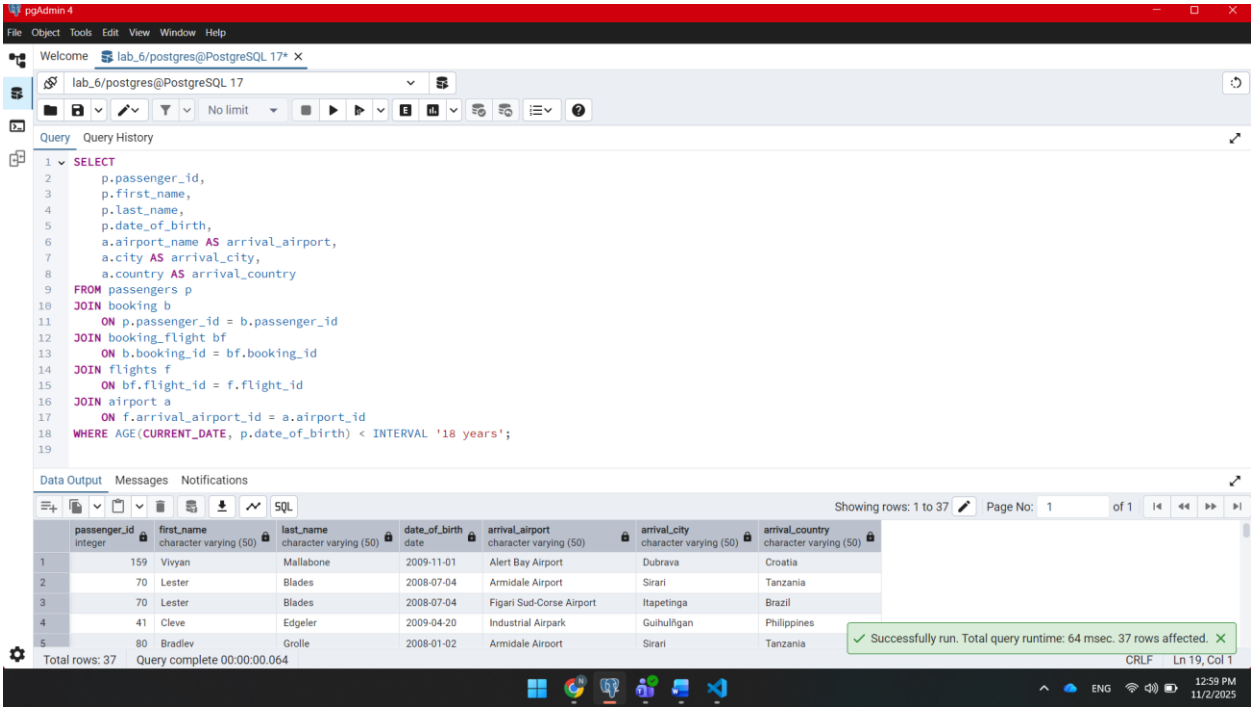
JOIN booking b ON bf.booking_id = b.booking_id

GROUP BY f.flight_id, f.flight_no;



6

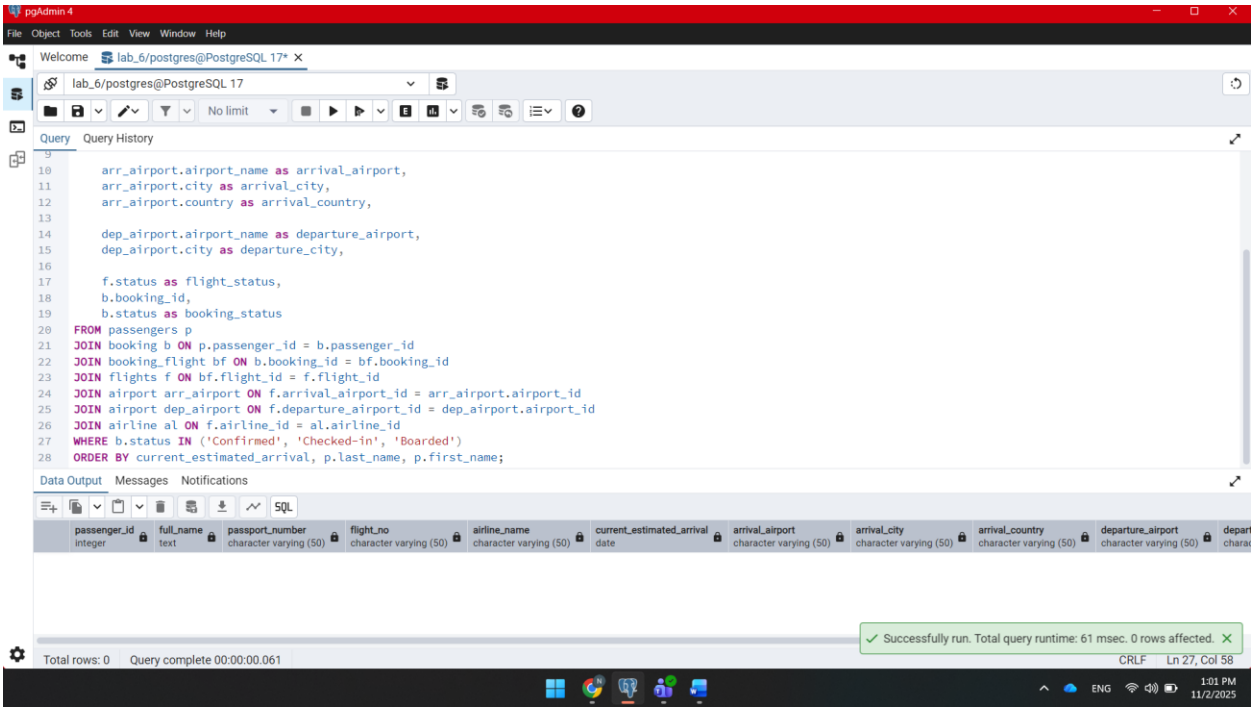
```
SELECT
    al.airline_name,
    al.airline_country,
    COUNT(f.flight_id) as number_of_flights,
    arr_airport.country as destination_country
FROM flights f
JOIN airport arr_airport ON f.arrival_airport_id = arr_airport.airport_id
JOIN airline al ON f.airline_id = al.airline_id
WHERE arr_airport.country = 'Spain'
GROUP BY al.airline_name, al.airline_country, arr_airport.country
ORDER BY number_of_flights DESC;
```



7

```
SELECT
    p.passenger_id,
    p.first_name,
    p.last_name,
    p.date_of_birth,
    a.airport_name AS arrival_airport,
    a.city AS arrival_city,
    a.country AS arrival_country
FROM passengers p
JOIN booking b
    ON p.passenger_id = b.passenger_id
JOIN booking_flight bf
```

```
    ON b.booking_id = bf.booking_id
JOIN flights f
    ON bf.flight_id = f.flight_id
JOIN airport a
    ON f.arrival_airport_id = a.airport_id
WHERE AGE(CURRENT_DATE, p.date_of_birth) < INTERVAL '18
years';
```



8

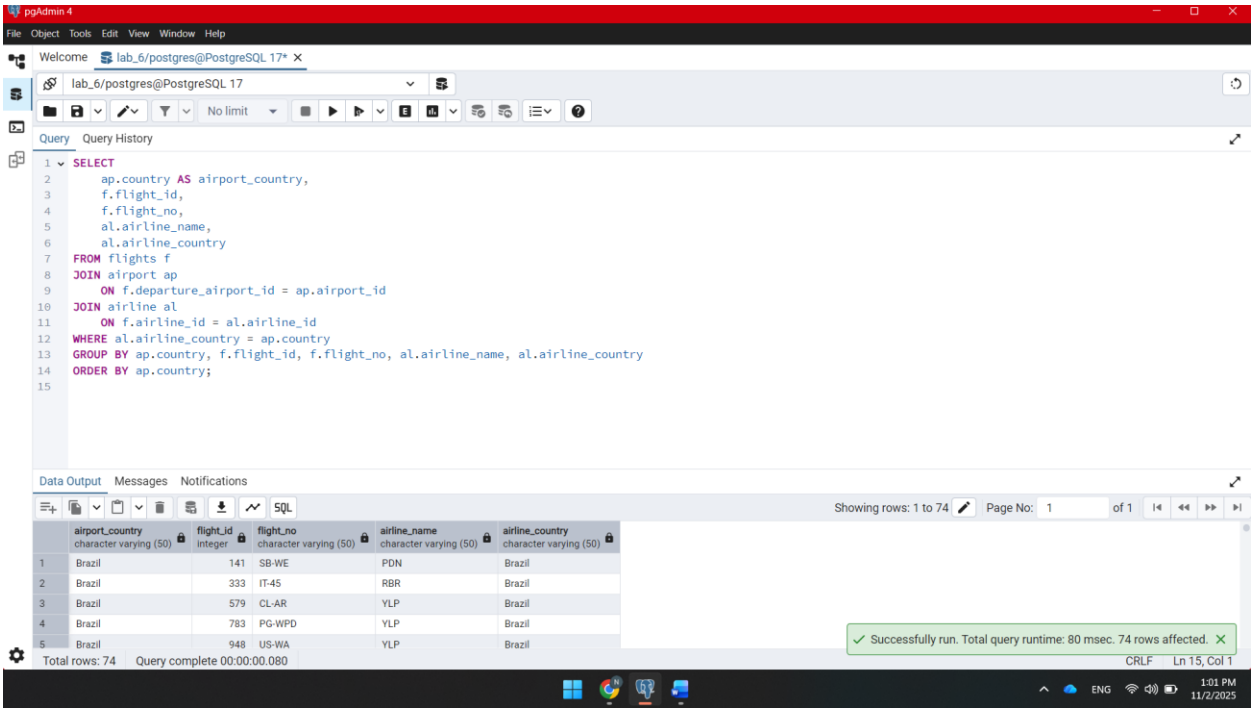
```
SELECT
    p.passenger_id,
    CONCAT(p.first_name, ' ', p.last_name) as full_name,
    p.passport_number,
    f.flight_no,
    al.airline_name,
```

```
    COALESCE(f.actual_arrival, f.scheduled_arrival) as
current_estimated_arrival,

    arr_airport.airport_name as arrival_airport,
    arr_airport.city as arrival_city,
    arr_airport.country as arrival_country,

    dep_airport.airport_name as departure_airport,
    dep_airport.city as departure_city,

    f.status as flight_status,
    b.booking_id,
    b.status as booking_status
FROM passengers p
JOIN booking b ON p.passenger_id = b.passenger_id
JOIN booking_flight bf ON b.booking_id = bf.booking_id
JOIN flights f ON bf.flight_id = f.flight_id
JOIN airport arr_airport ON f.arrival_airport_id = arr_airport.airport_id
JOIN airport dep_airport ON f.departure_airport_id =
dep_airport.airport_id
JOIN airline al ON f.airline_id = al.airline_id
WHERE b.status IN ('Confirmed', 'Checked-in', 'Boarded')
ORDER BY current_estimated_arrival, p.last_name, p.first_name;
```



9

```
SELECT
    ap.country AS airport_country,
    f.flight_id,
    f.flight_no,
    al.airline_name,
    al.airline_country
FROM flights f
JOIN airport ap
    ON f.departure_airport_id = ap.airport_id
JOIN airline al
    ON f.airline_id = al.airline_id
WHERE al.airline_country = ap.country
GROUP BY ap.country, f.flight_id, f.flight_no, al.airline_name, al.airline_country
```

```
ORDER BY ap.country;
```