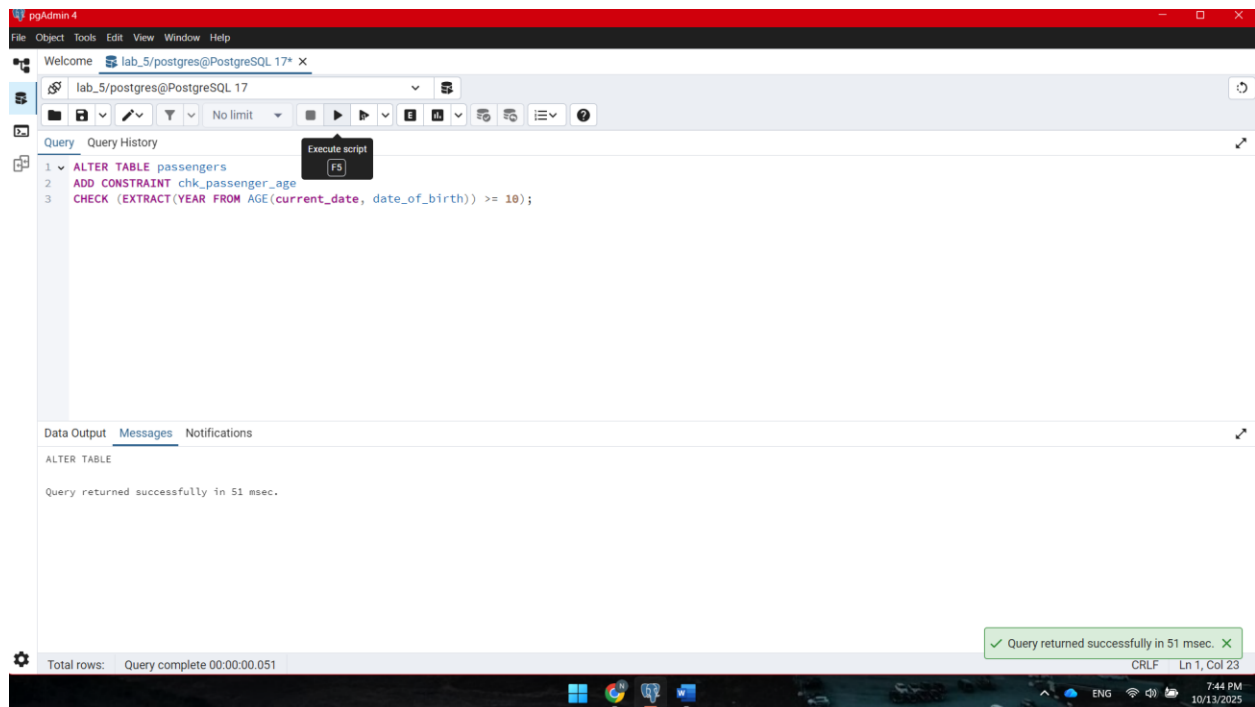


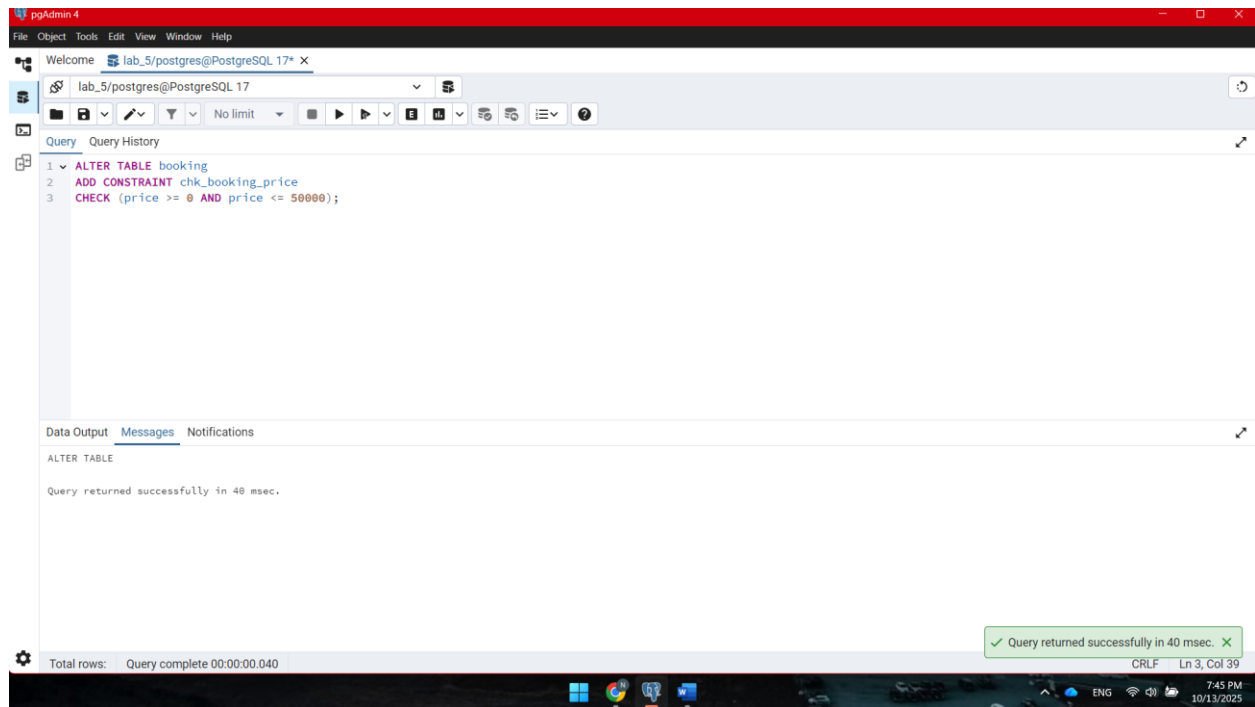
Lab-5



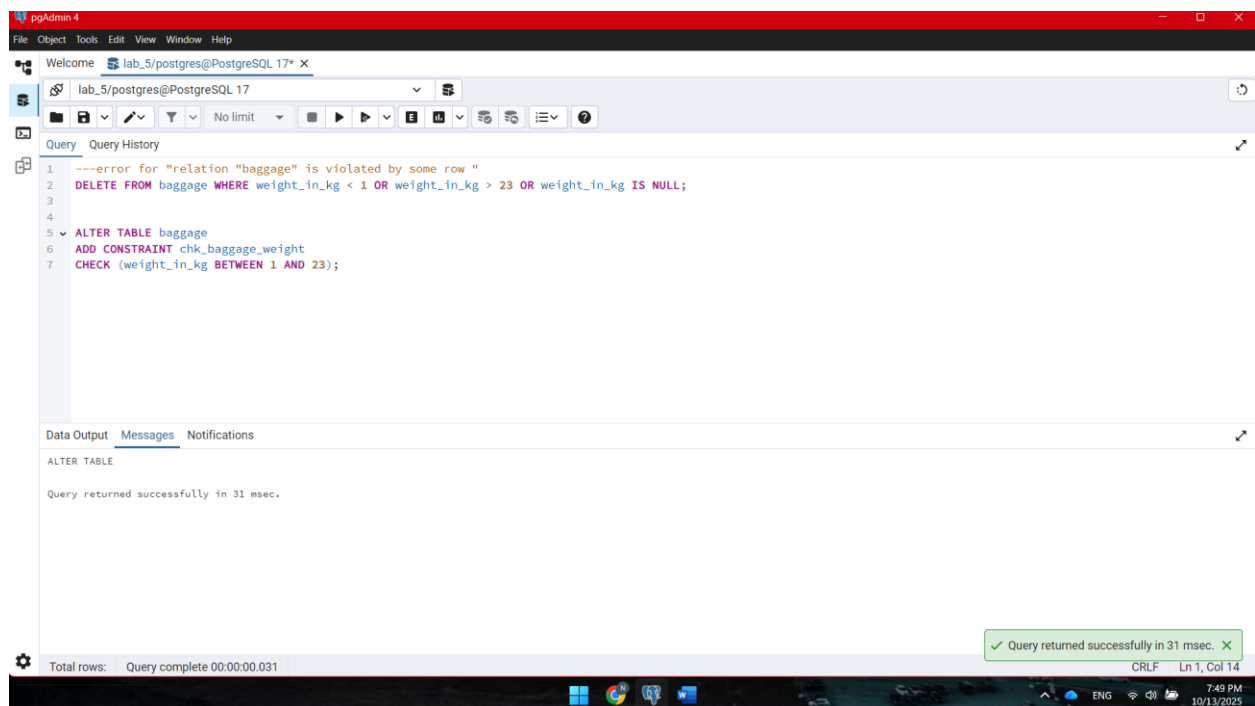
1 ALTER TABLE passengers

ADD CONSTRAINT chk_passenger_age

CHECK (EXTRACT(YEAR FROM AGE(current_date, date_of_birth)) >= 10);



2 ALTER TABLE booking
ADD CONSTRAINT chk_booking_price
CHECK (price >= 0 AND price <= 50000);



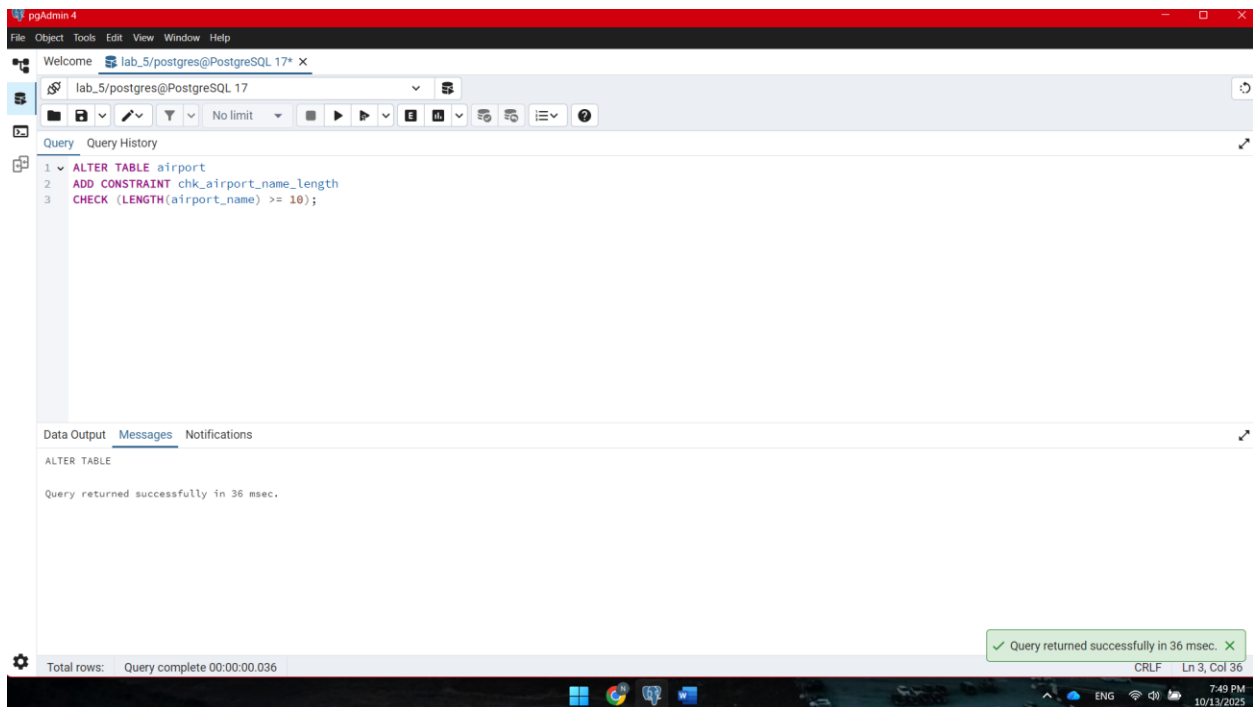
3 ---error for "relation "baggage" is violated by some row "

DELETE FROM baggage WHERE weight_in_kg < 1 OR weight_in_kg > 23 OR weight_in_kg IS NULL;

ALTER TABLE baggage

ADD CONSTRAINT chk_baggage_weight

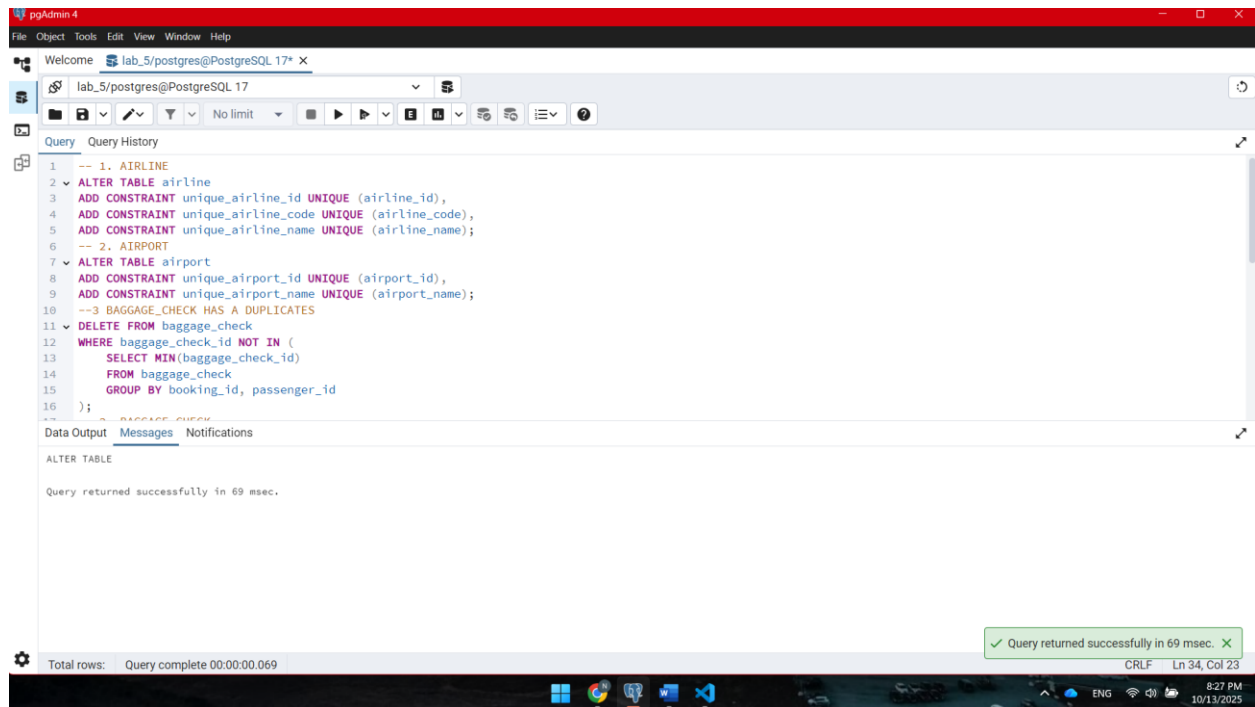
CHECK (weight_in_kg BETWEEN 1 AND 23);



4 ALTER TABLE airport

ADD CONSTRAINT chk_airport_name_length

CHECK (LENGTH(airport_name) >= 10);



5 -- 1. AIRLINE

ALTER TABLE airline

ADD CONSTRAINT unique_airline_id UNIQUE (airline_id),

ADD CONSTRAINT unique_airline_code UNIQUE (airline_code),

ADD CONSTRAINT unique_airline_name UNIQUE (airline_name);

-- 2. AIRPORT

ALTER TABLE airport

ADD CONSTRAINT unique_airport_id UNIQUE (airport_id),

ADD CONSTRAINT unique_airport_name UNIQUE (airport_name);

--3 BAGGAGE_CHECK HAS A DUPLICATES

DELETE FROM baggage_check

WHERE baggage_check_id NOT IN (

SELECT MIN(baggage_check_id)

FROM baggage_check

```
GROUP BY booking_id, passenger_id
);
-- 3. BAGGAGE_CHECK
ALTER TABLE baggage_check
ADD CONSTRAINT unique_baggage_check_id UNIQUE
(baggage_check_id);
ALTER TABLE baggage_check
ADD CONSTRAINT unique_booking_passenger UNIQUE (booking_id,
passenger_id);
-- 4. BAGGAGE
ALTER TABLE baggage
ADD CONSTRAINT unique_luggage_id UNIQUE (baggage_id);
---5 BOARDING_PASS
ALTER TABLE boarding_pass ADD CONSTRAINT
unique_boarding_pass_id UNIQUE (boarding_pass_id);
---6 BOOKING_FLIGHT
ALTER TABLE booking_flight
ADD CONSTRAINT unique_booking_flight_id UNIQUE
(booking_flight_id),
ADD CONSTRAINT unique_booking_id UNIQUE (booking_id);
---7 BOOKING
ALTER TABLE booking
ADD CONSTRAINT unique_booking_id UNIQUE (booking_id);
-- 8. FLIGHT
ALTER TABLE flights
```

ADD CONSTRAINT unique_flight_id UNIQUE (flight_id),
ADD CONSTRAINT unique_flight_no UNIQUE (flight_no);

--9 PASSENGER

ALTER TABLE passenger

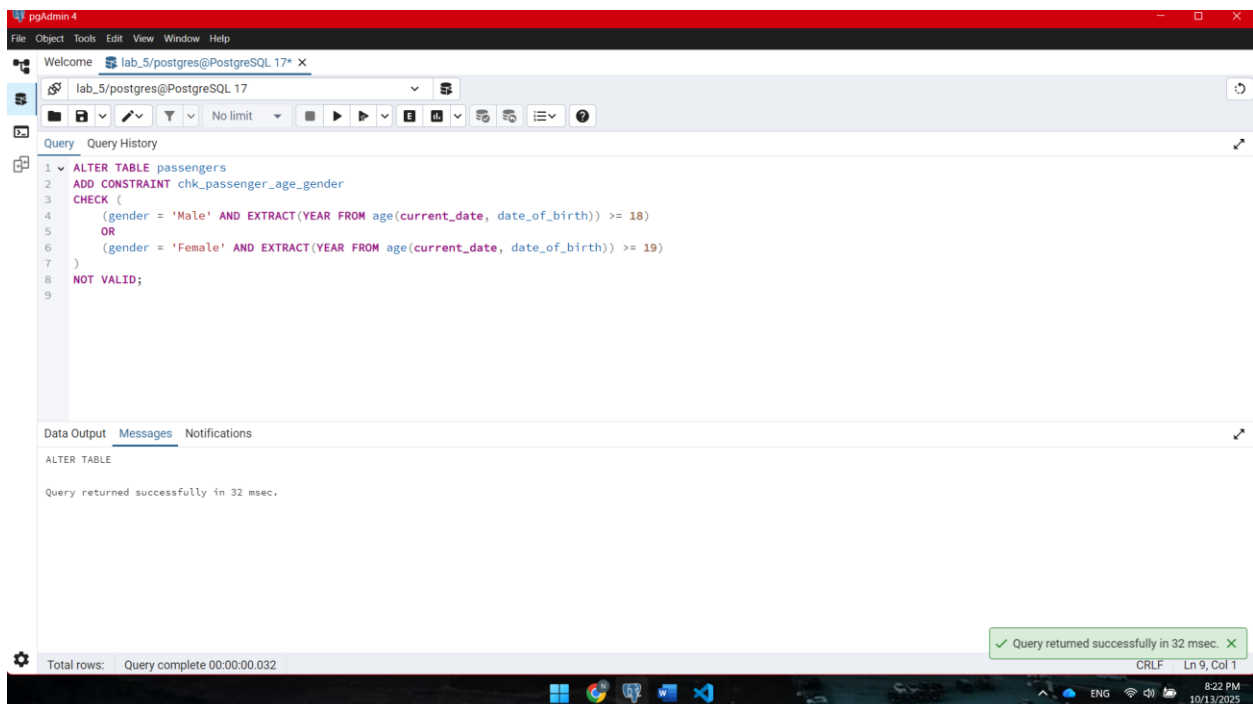
ADD CONSTRAINT unique_passenger_id UNIQUE (passenger_id),

ADD CONSTRAINT unique_passport_number UNIQUE
(passport_number);

---10 SECURITY CHECK

ALTER TABLE security_check

ADD CONSTRAINT unique_security_check_id UNIQUE
(security_check_id);



6 ALTER TABLE passengers

ADD CONSTRAINT chk_passenger_age_gender

CHECK (

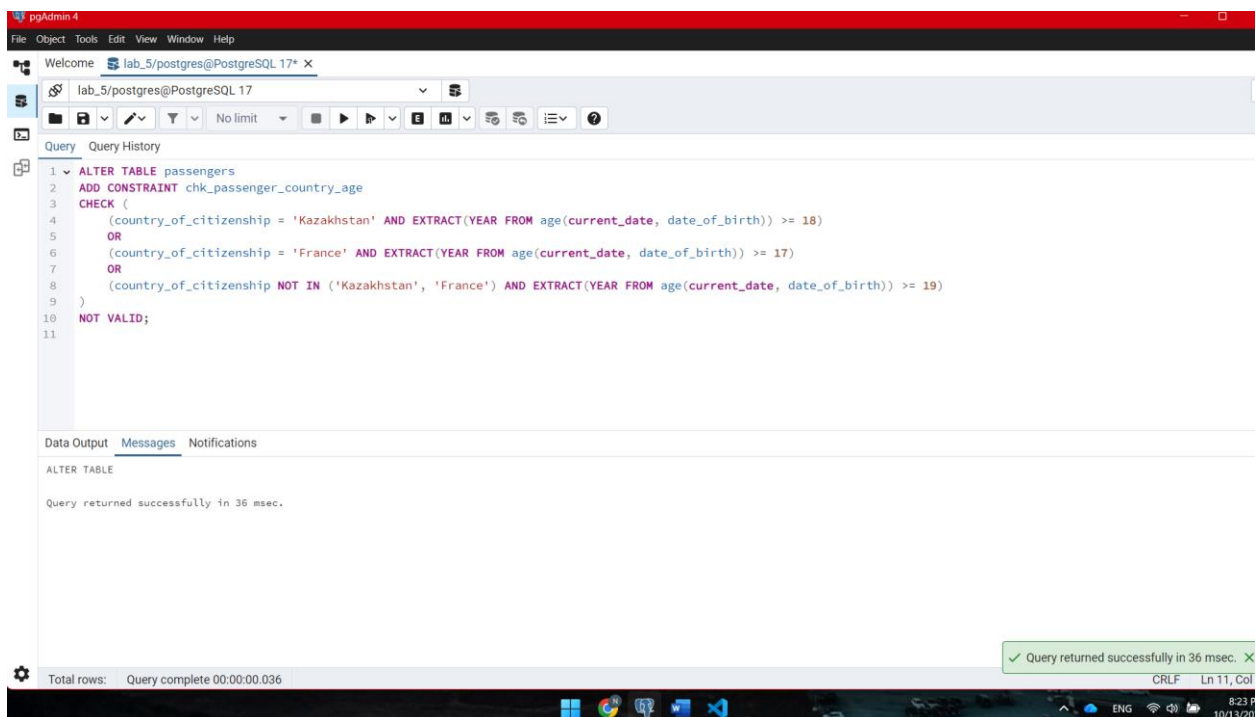
**(gender = 'Male' AND EXTRACT(YEAR FROM age(current_date,
date_of_birth)) >= 18)**

OR

**(gender = 'Female' AND EXTRACT(YEAR FROM age(current_date,
date_of_birth)) >= 19)**

)

NOT VALID;



7 ALTER TABLE passengers

ADD CONSTRAINT chk_passenger_country_age

CHECK (

**(country_of_citizenship = 'Kazakhstan' AND EXTRACT(YEAR FROM
age(current_date, date_of_birth)) >= 18)**

OR

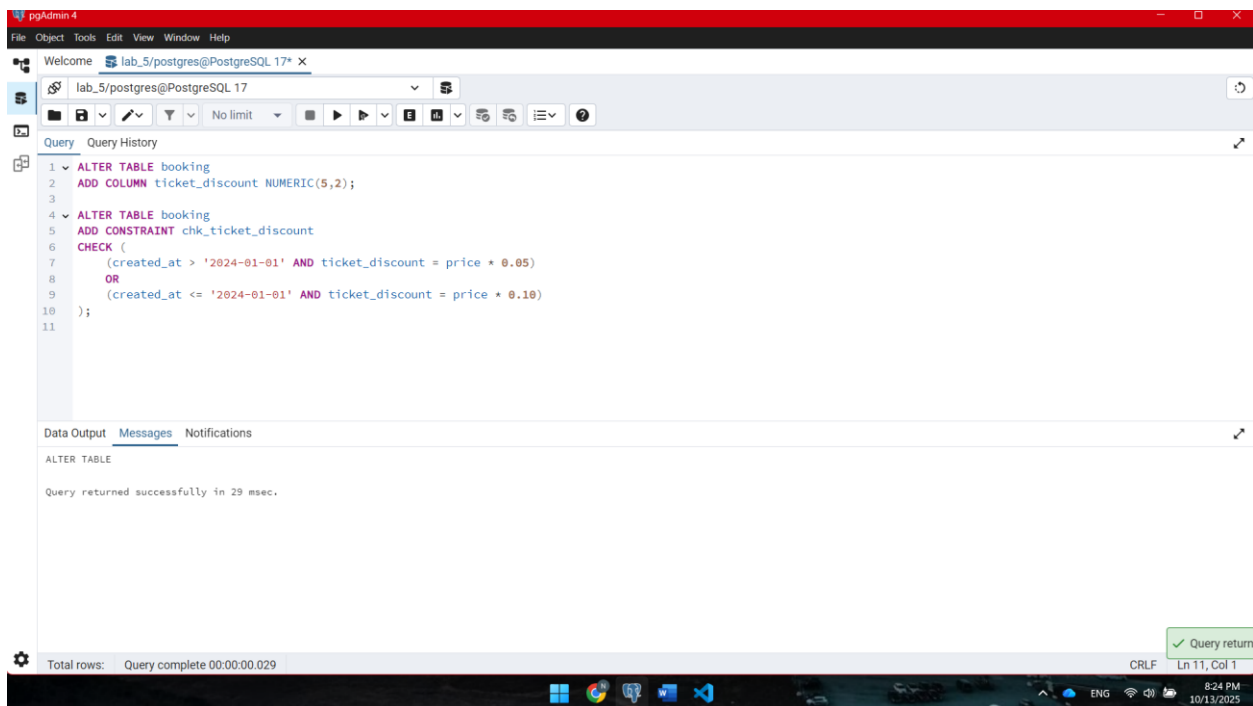
**(country_of_citizenship = 'France' AND EXTRACT(YEAR FROM
age(current_date, date_of_birth)) >= 17)**

OR

**(country_of_citizenship NOT IN ('Kazakhstan', 'France') AND
EXTRACT(YEAR FROM age(current_date, date_of_birth)) >= 19)**

)

NOT VALID;



8 ALTER TABLE booking

ADD COLUMN ticket_discount NUMERIC(5,2);

ALTER TABLE booking

ADD CONSTRAINT chk_ticket_discount

CHECK (

(created_at > '2024-01-01' AND ticket_discount = price * 0.05)

OR


```
(created_at <= '2024-01-01' AND ticket_discount = price * 0.10)  
);
```