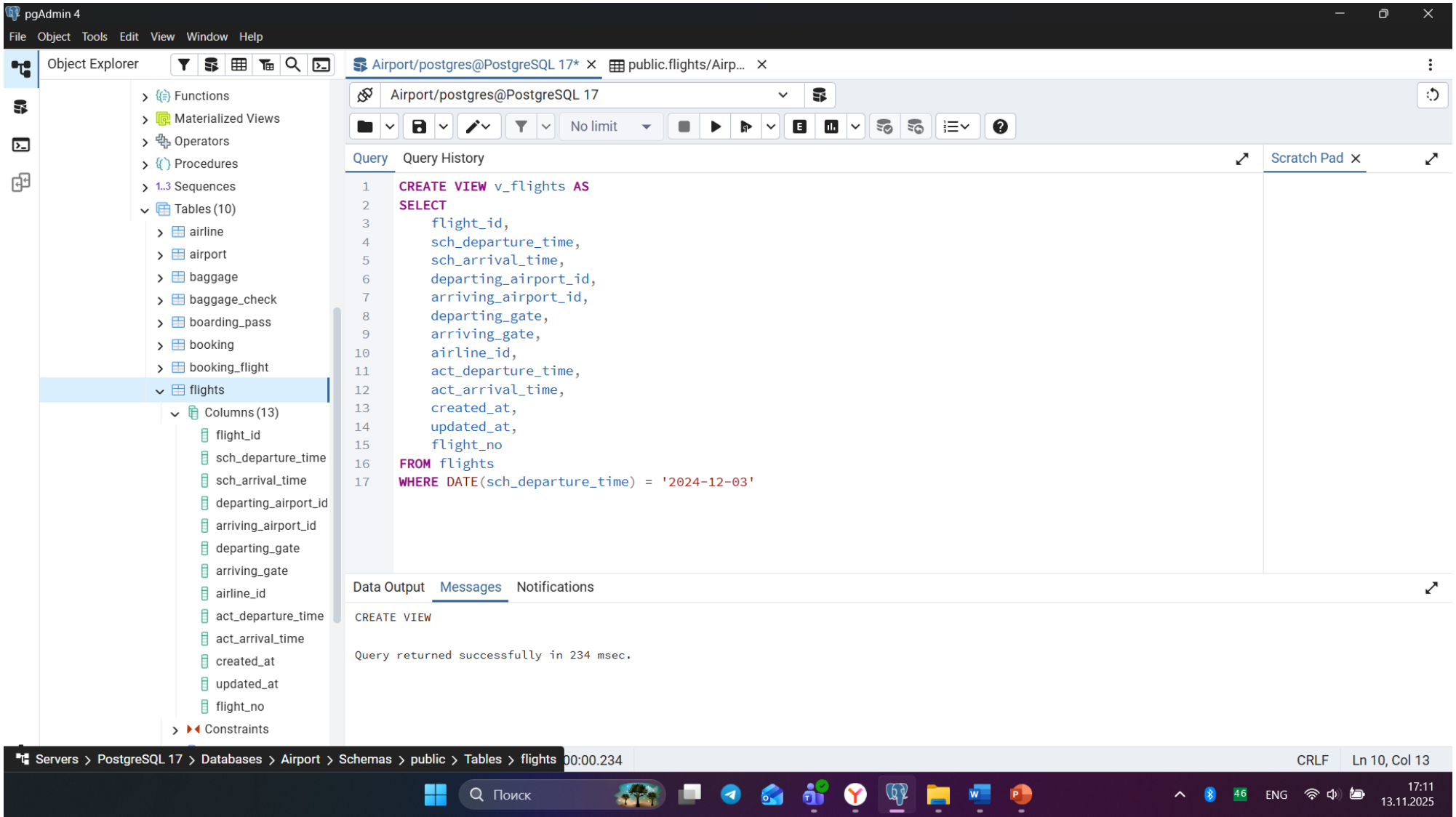
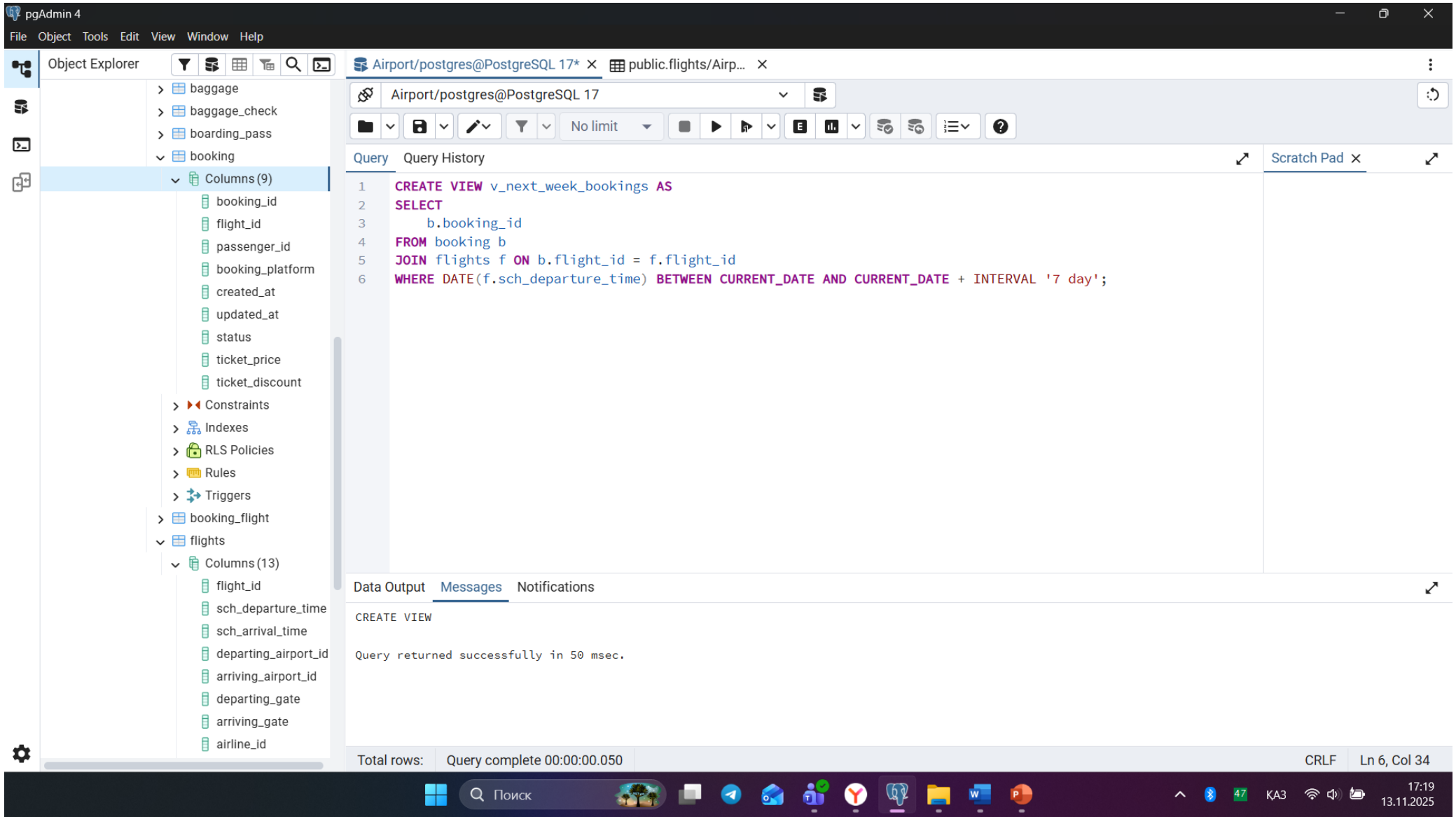
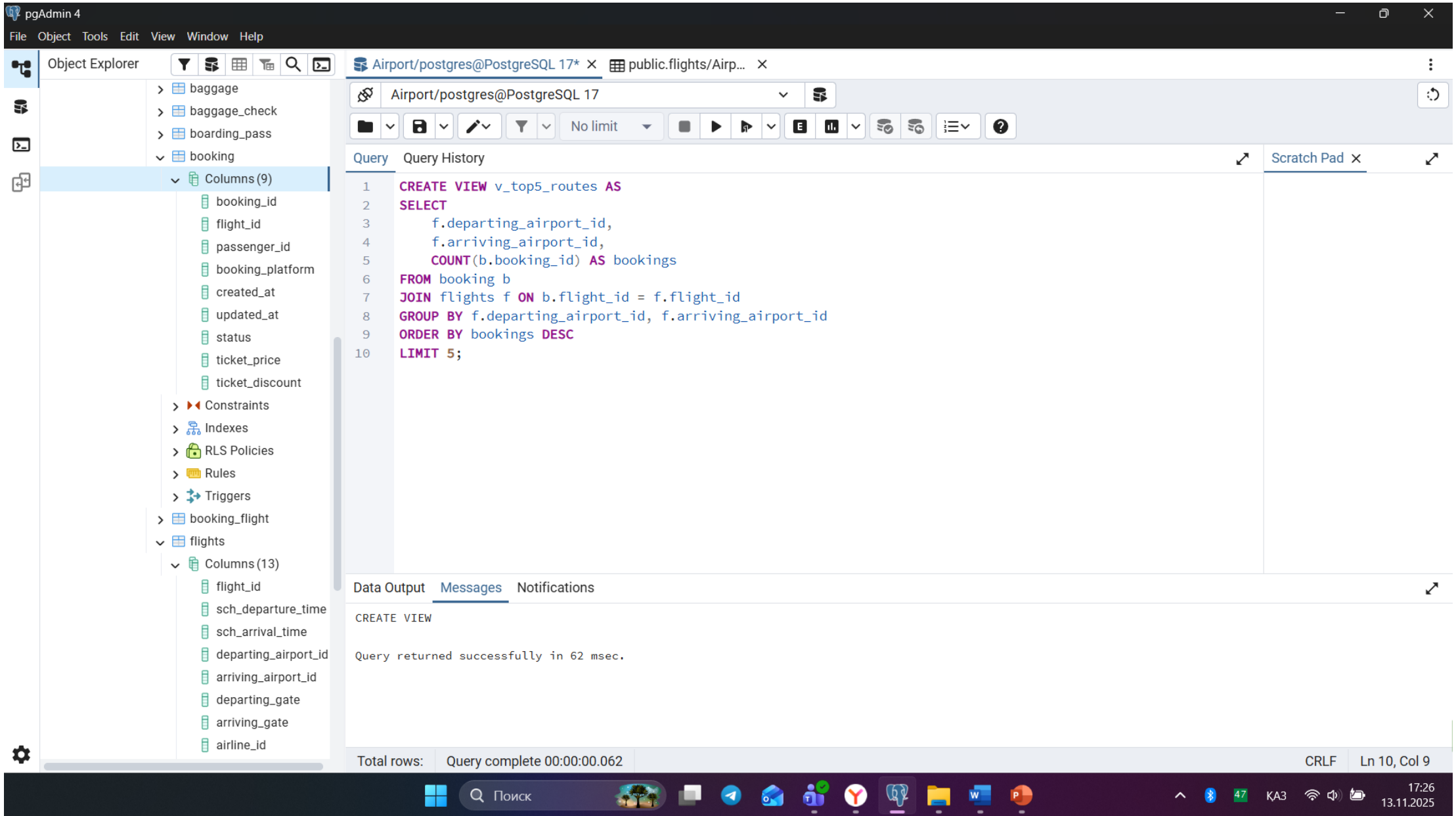
TASK 1


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Airport/postgres@PostgreSQL 17*
public.flights/Airp...
Airport/postgres@PostgreSQL 17
No limit
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
flights
Columns (13)
flight_id
sch_departure_time
sch_arrival_time
departing_airport_id
arriving_airport_id
departing_gate
arriving_gate
airline_id
act_departure_time
act_arrival_time
created_at
updated_at
flight_no
Constraints
Query
Query History
Scratch Pad
CREATE VIEW v_flights AS
SELECT
flight_id,
sch_departure_time,
sch_arrival_time,
departing_airport_id,
arriving_airport_id,
departing_gate,
arriving_gate,
airline_id,
act_departure_time,
act_arrival_time,
created_at,
updated_at,
flight_no
FROM flights
WHERE DATE(sch_departure_time) = '2024-12-03'
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 234 msec.
Servers > PostgreSQL 17 > Databases > Airport > Schemas > public > Tables > flights
00:00.234
CRLF
Ln 10, Col 13
Поиск
ENG
17:11
13.11.2025

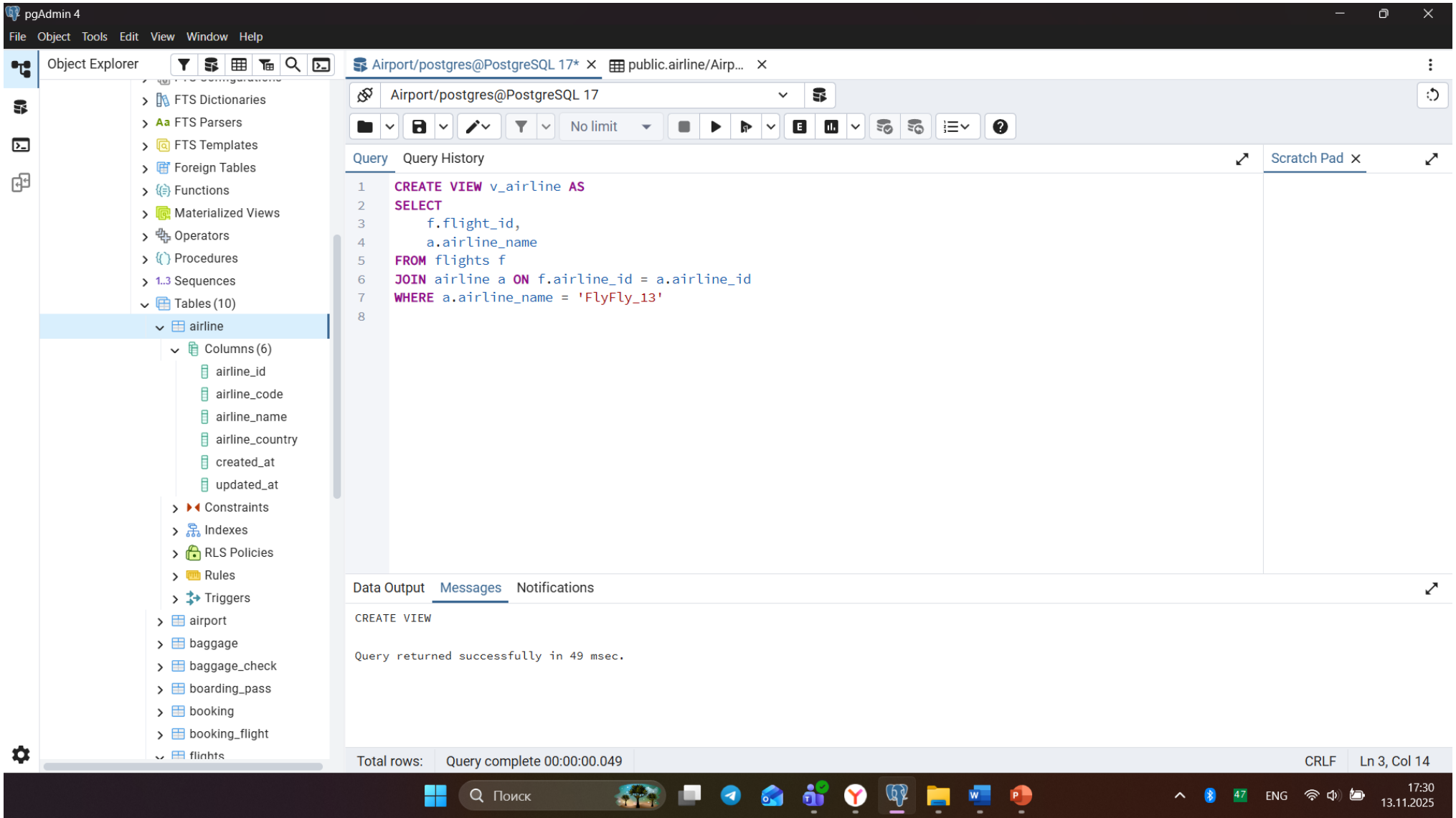
TASK 2


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
baggage
baggage_check
boarding_pass
booking
Columns (9)
booking_id
flight_id
passenger_id
booking_platform
created_at
updated_at
status
ticket_price
ticket_discount
Constraints
Indexes
RLS Policies
Rules
Triggers
booking_flight
flights
Columns (13)
flight_id
sch_departure_time
sch_arrival_time
departing_airport_id
arriving_airport_id
departing_gate
arriving_gate
airline_id
Airport/postgres@PostgreSQL 17*
public.flights/Airp...
Airport/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 CREATE VIEW v_next_week_bookings AS
2 SELECT
3 b.booking_id
4 FROM booking b
5 JOIN flights f ON b.flight_id = f.flight_id
6 WHERE DATE(f.sch_departure_time) BETWEEN CURRENT_DATE AND CURRENT_DATE + INTERVAL '7 day';
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 50 msec.
Total rows:
Query complete 00:00:00.050
CRLF
Ln 6, Col 34
Поиск
ҚАЗ
17:19
13.11.2025

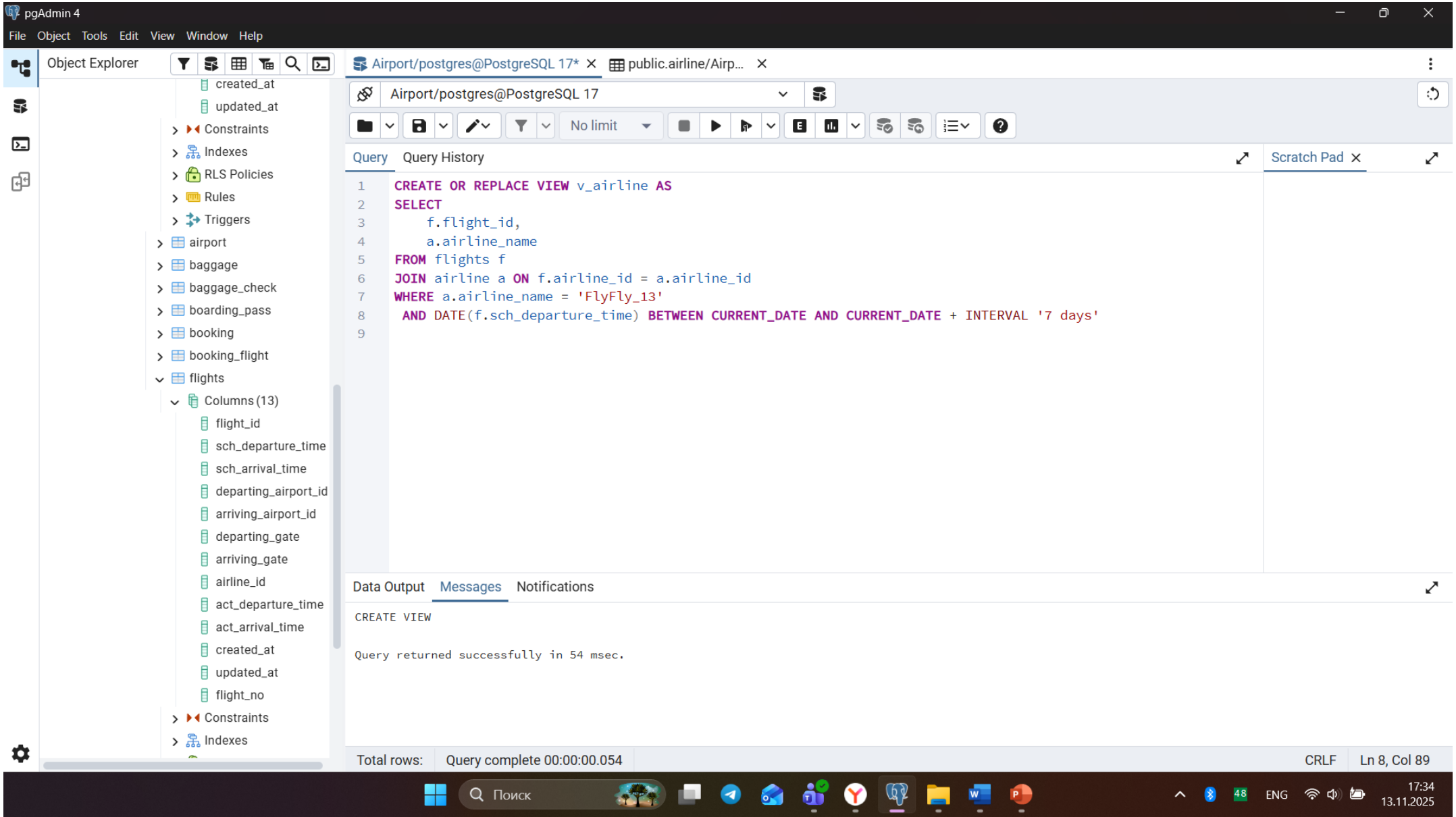
TASK 3


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
baggage
baggage_check
boarding_pass
booking
Columns (9)
booking_id
flight_id
passenger_id
booking_platform
created_at
updated_at
status
ticket_price
ticket_discount
Constraints
Indexes
RLS Policies
Rules
Triggers
booking_flight
flights
Columns (13)
flight_id
sch_departure_time
sch_arrival_time
departing_airport_id
arriving_airport_id
departing_gate
arriving_gate
airline_id
Airport/postgres@PostgreSQL 17*
public.flights/Airp...
Airport/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 CREATE VIEW v_top5_routes AS
2 SELECT
3 f.departing_airport_id,
4 f.arriving_airport_id,
5 COUNT(b.booking_id) AS bookings
6 FROM booking b
7 JOIN flights f ON b.flight_id = f.flight_id
8 GROUP BY f.departing_airport_id, f.arriving_airport_id
9 ORDER BY bookings DESC
10 LIMIT 5;
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 62 msec.
Total rows:
Query complete 00:00:00.062
CRLF
Ln 10, Col 9
Поиск
ҚАЗ
17:26
13.11.2025

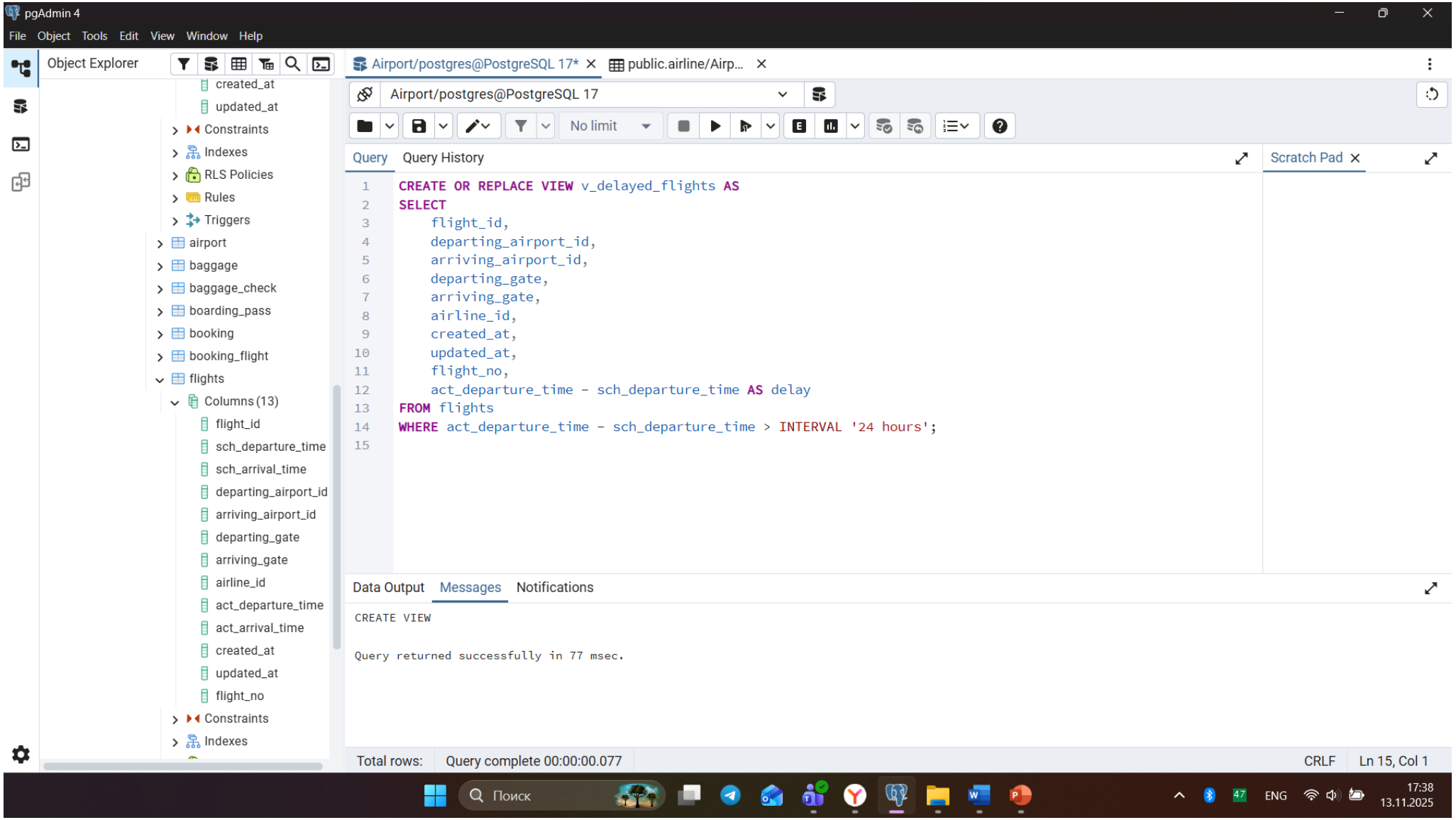
TASK 4


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Airport/postgres@PostgreSQL 17*
public.airline/Airp...
Airport/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
CREATE VIEW v_airline AS
SELECT
f.flight_id,
a.airline_name
FROM flights f
JOIN airline a ON f.airline_id = a.airline_id
WHERE a.airline_name = 'FlyFly_13'
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 49 msec.
Total rows:
Query complete 00:00:00.049
CRLF
Ln 3, Col 14
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
Columns (6)
airline_id
airline_code
airline_name
airline_country
created_at
updated_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
flights
Поиск
ENG
17:30
13.11.2025

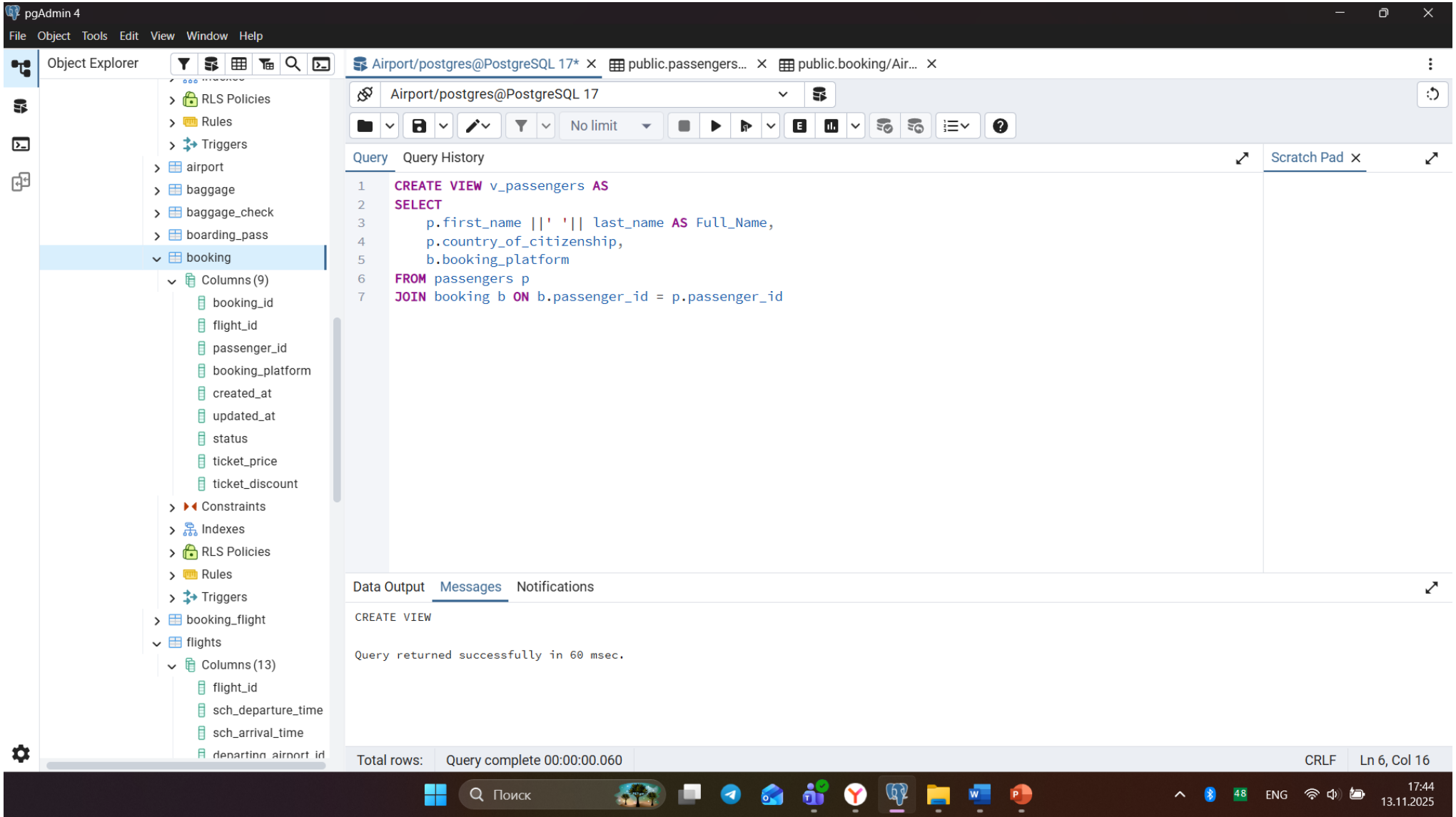
TASK 5


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
created_at
updated_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
flights
Columns (13)
flight_id
sch_departure_time
sch_arrival_time
departing_airport_id
arriving_airport_id
departing_gate
arriving_gate
airline_id
act_departure_time
act_arrival_time
created_at
updated_at
flight_no
Constraints
Indexes
Airport/postgres@PostgreSQL 17*
public.airline/Airp...
Airport/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 CREATE OR REPLACE VIEW v_airline AS
2 SELECT
3 f.flight_id,
4 a.airline_name
5 FROM flights f
6 JOIN airline a ON f.airline_id = a.airline_id
7 WHERE a.airline_name = 'FlyFly_13'
8 AND DATE(f.sch_departure_time) BETWEEN CURRENT_DATE AND CURRENT_DATE + INTERVAL '7 days'
9
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 54 msec.
Total rows:
Query complete 00:00:00.054
CRLF
Ln 8, Col 89
Поиск
ENG
17:34
13.11.2025

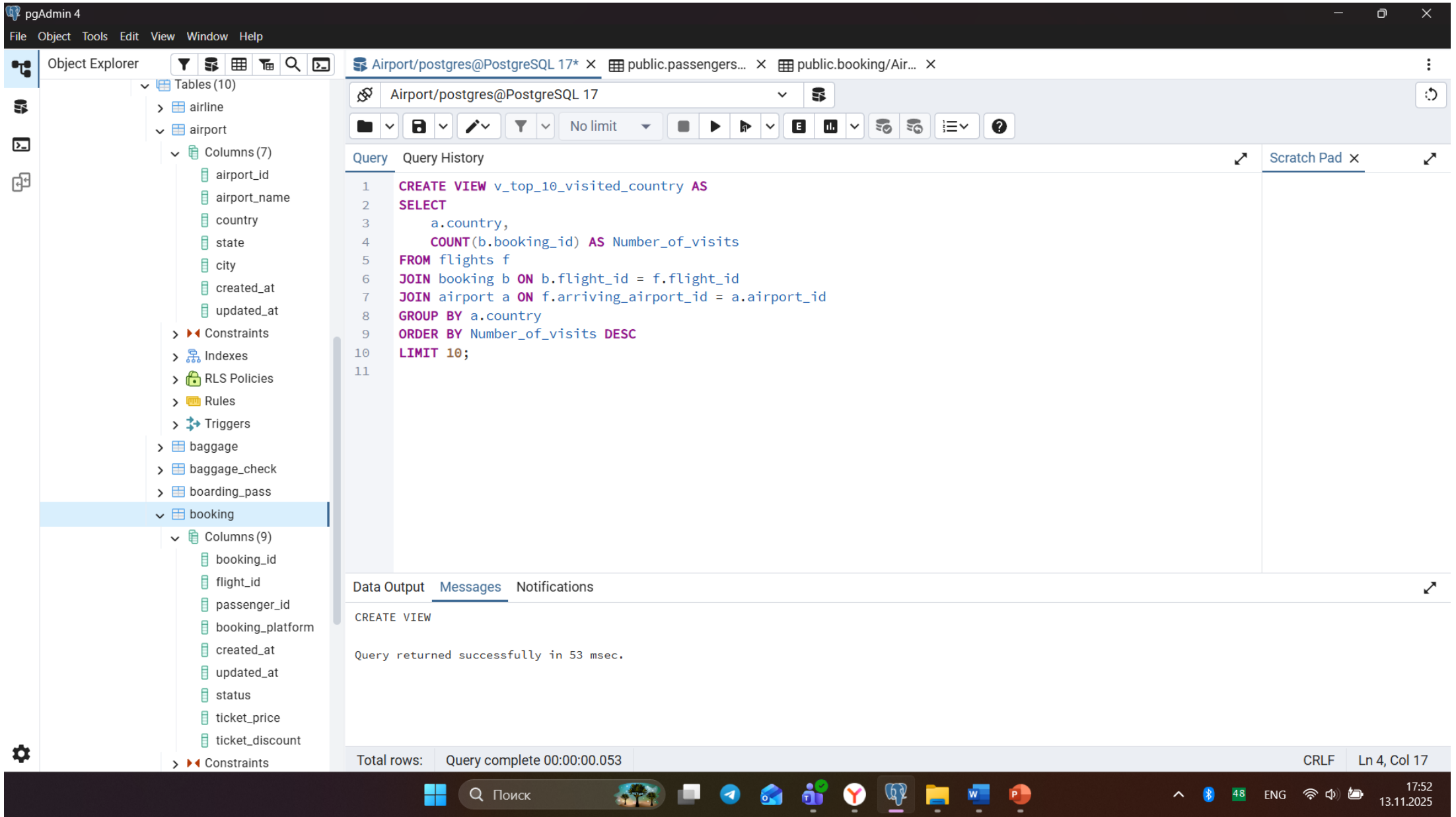
TASK 6


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
created_at
updated_at
Constraints
Indexes
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
flights
Columns (13)
flight_id
sch_departure_time
sch_arrival_time
departing_airport_id
arriving_airport_id
departing_gate
arriving_gate
airline_id
act_departure_time
act_arrival_time
created_at
updated_at
flight_no
Constraints
Indexes
Airport/postgres@PostgreSQL 17*
public.airline/Airp...
Airport/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 CREATE OR REPLACE VIEW v_delayed_flights AS
2 SELECT
3 flight_id,
4 departing_airport_id,
5 arriving_airport_id,
6 departing_gate,
7 arriving_gate,
8 airline_id,
9 created_at,
10 updated_at,
11 flight_no,
12 act_departure_time - sch_departure_time AS delay
13 FROM flights
14 WHERE act_departure_time - sch_departure_time > INTERVAL '24 hours';
15
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 77 msec.
Total rows:
Query complete 00:00:00.077
CRLF
Ln 15, Col 1
Поиск
ENG
17:38
13.11.2025

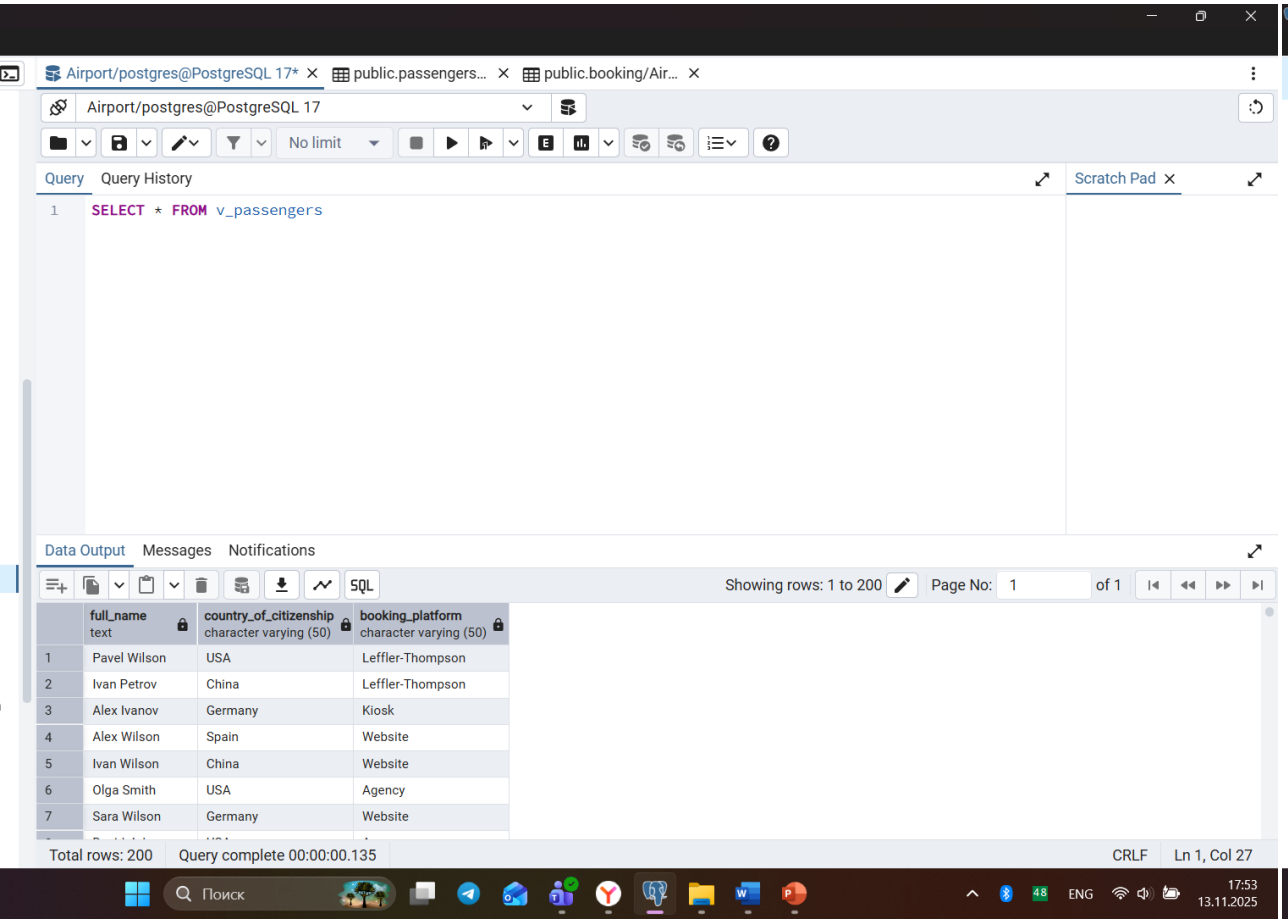
TASK 7

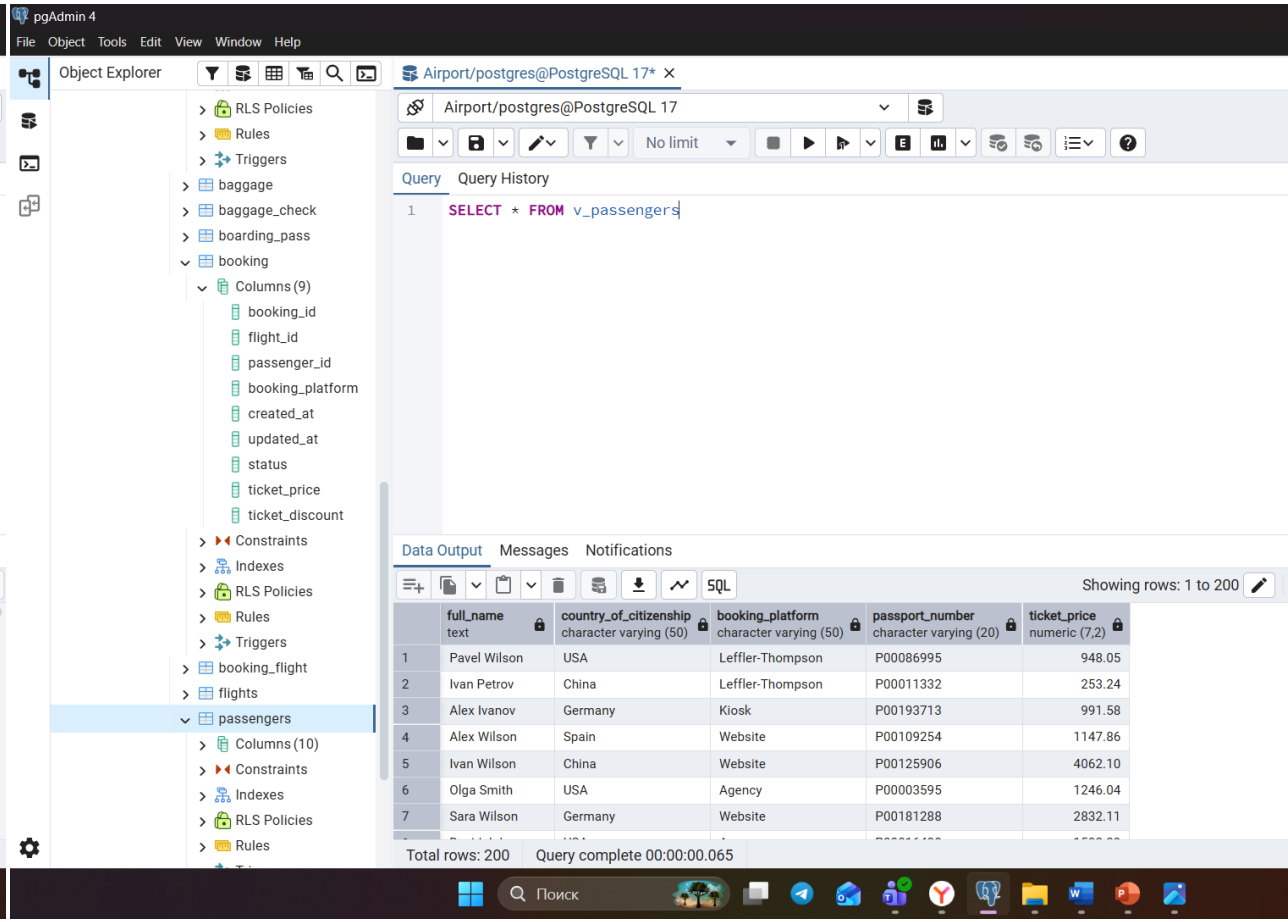

pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
RLS Policies
Rules
Triggers
airport
baggage
baggage_check
boarding_pass
booking
Columns (9)
booking_id
flight_id
passenger_id
booking_platform
created_at
updated_at
status
ticket_price
ticket_discount
Constraints
Indexes
RLS Policies
Rules
Triggers
booking_flight
flights
Columns (13)
flight_id
sch_departure_time
sch_arrival_time
departing_airport_id
Airport/postgres@PostgreSQL 17*
public.passengers...
public.booking/Air...
Airport/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 CREATE VIEW v_passengers AS
2 SELECT
3 p.first_name ||' '|| last_name AS Full_Name,
4 p.country_of_citizenship,
5 b.booking_platform
6 FROM passengers p
7 JOIN booking b ON b.passenger_id = p.passenger_id
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 60 msec.
Total rows:
Query complete 00:00:00.060
CRLF
Ln 6, Col 16
Поиск
ENG
17:44
13.11.2025

TASK 8


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Tables (10)
airline
airport
Columns (7)
airport_id
airport_name
country
state
city
created_at
updated_at
Constraints
Indexes
RLS Policies
Rules
Triggers
baggage
baggage_check
boarding_pass
booking
Columns (9)
booking_id
flight_id
passenger_id
booking_platform
created_at
updated_at
status
ticket_price
ticket_discount
Constraints
Airport/postgres@PostgreSQL 17*
public.passengers...
public.booking/Air...
Airport/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 CREATE VIEW v_top_10_visited_country AS
2 SELECT
3 a.country,
4 COUNT(b.booking_id) AS Number_of_visits
5 FROM flights f
6 JOIN booking b ON b.flight_id = f.flight_id
7 JOIN airport a ON f.arriving_airport_id = a.airport_id
8 GROUP BY a.country
9 ORDER BY Number_of_visits DESC
10 LIMIT 10;
11
Data Output
Messages
Notifications
CREATE VIEW
Query returned successfully in 53 msec.
Total rows:
Query complete 00:00:00.053
CRLF
Ln 4, Col 17
Поиск
ENG
17:52
13.11.2025

TASK 9

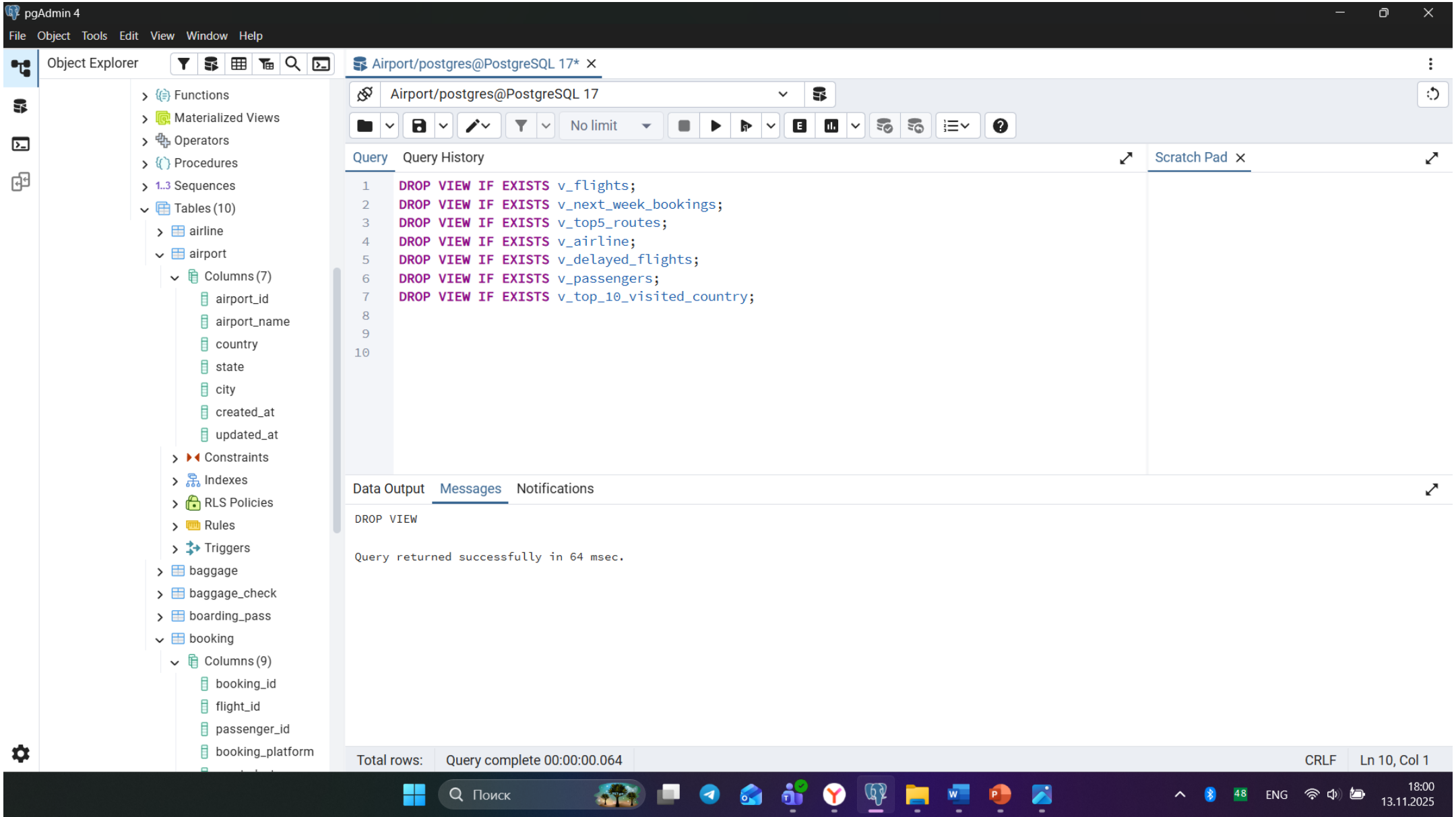




BEFORE

AFTER

TASK 10


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Airport/postgres@PostgreSQL 17*
Airport/postgres@PostgreSQL 17
No limit
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (10)
airline
airport
Columns (7)
airport_id
airport_name
country
state
city
created_at
updated_at
Constraints
Indexes
RLS Policies
Rules
Triggers
baggage
baggage_check
boarding_pass
booking
Columns (9)
booking_id
flight_id
passenger_id
booking_platform
Query
Query History
Scratch Pad
1 DROP VIEW IF EXISTS v_flights;
2 DROP VIEW IF EXISTS v_next_week_bookings;
3 DROP VIEW IF EXISTS v_top5_routes;
4 DROP VIEW IF EXISTS v_airline;
5 DROP VIEW IF EXISTS v_delayed_flights;
6 DROP VIEW IF EXISTS v_passengers;
7 DROP VIEW IF EXISTS v_top_10_visited_country;
8
9
10
Data Output
Messages
Notifications
DROP VIEW
Query returned successfully in 64 msec.
Total rows:
Query complete 00:00:00.064
CRLF
Ln 10, Col 1
Поиск
ENG
18:00
13.11.2025