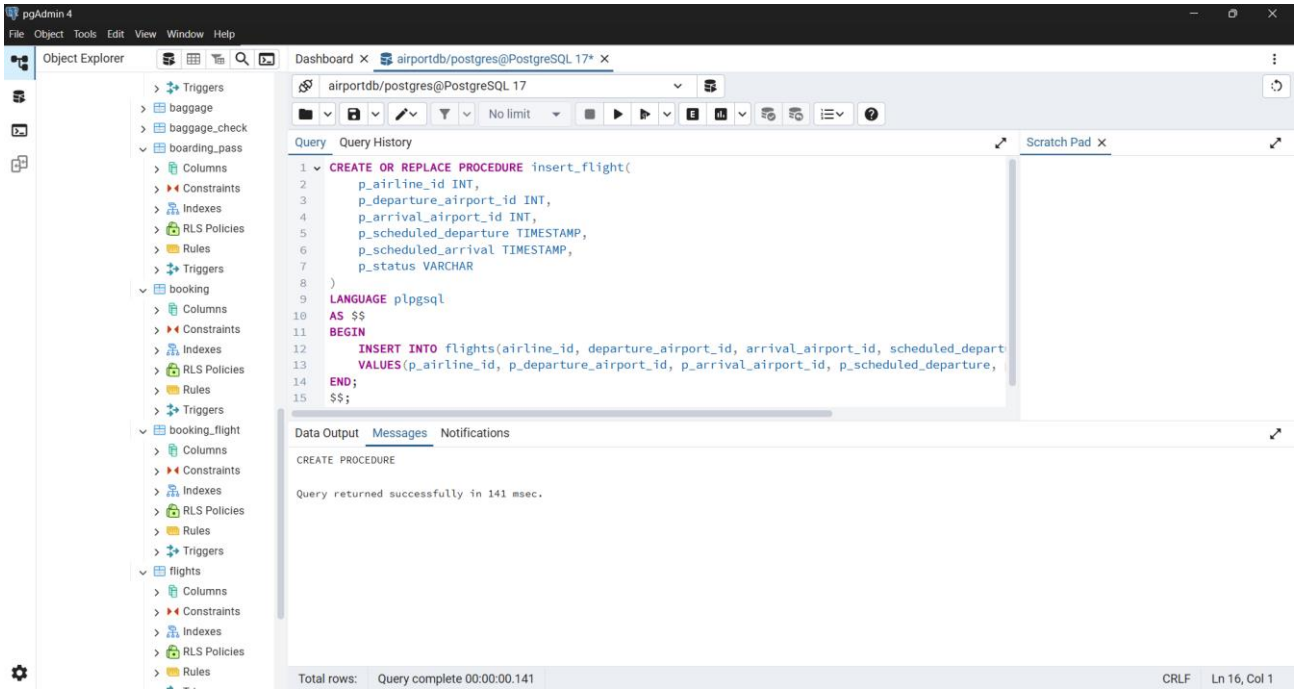
Laboratory work 10

We continue to work with the database from the previous laboratory works.

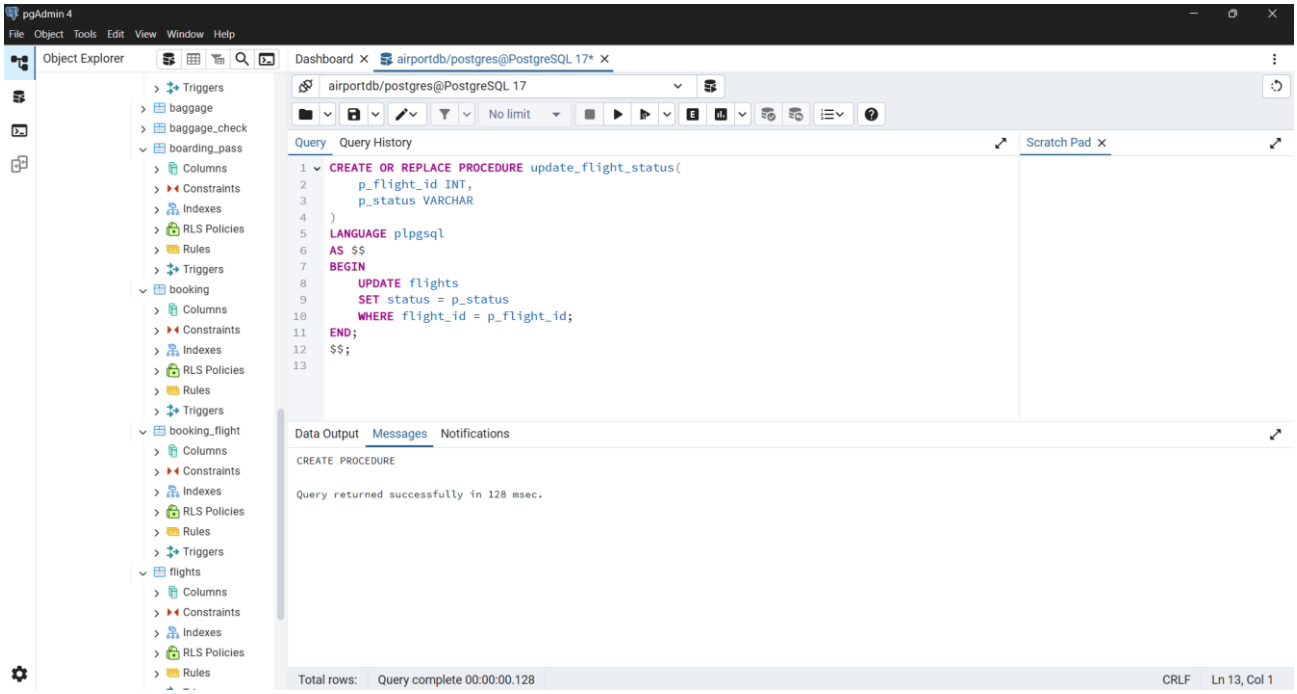
Take a full-page screenshot that covers the code and results of each task.

STORED PROCEDURES and FUNCTION.

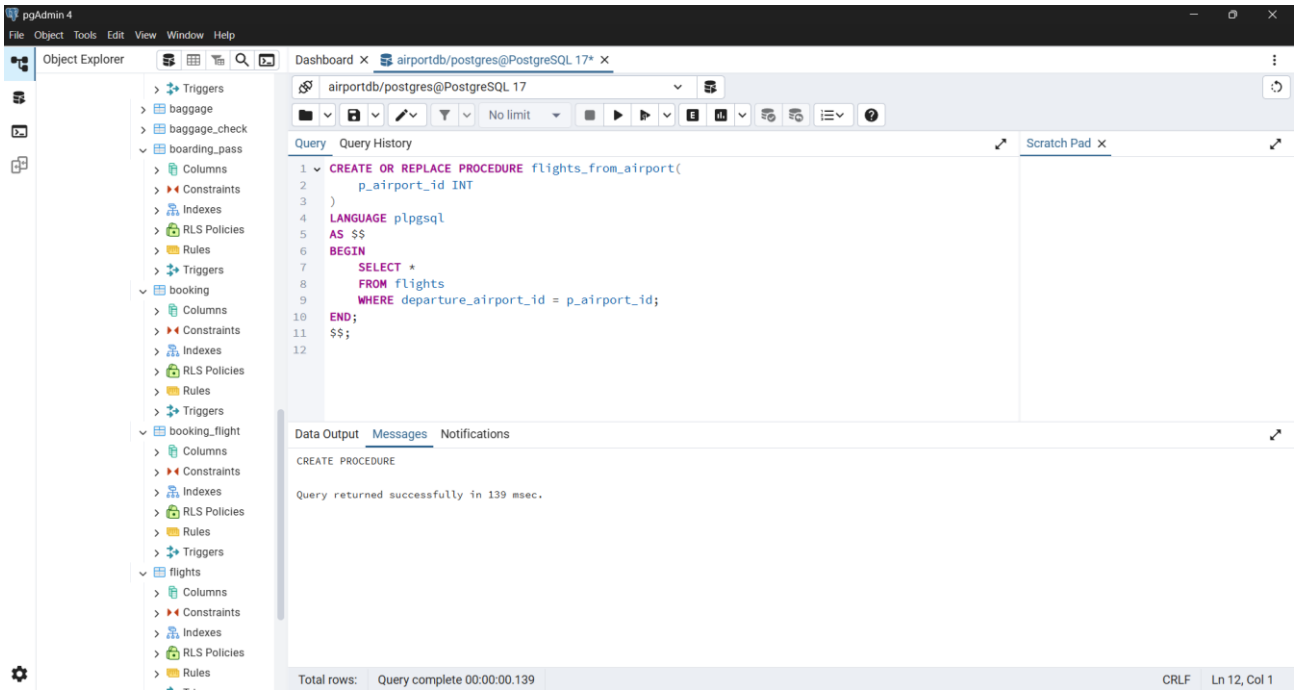
1. Create a stored procedure to insert a new flight into the flights table.



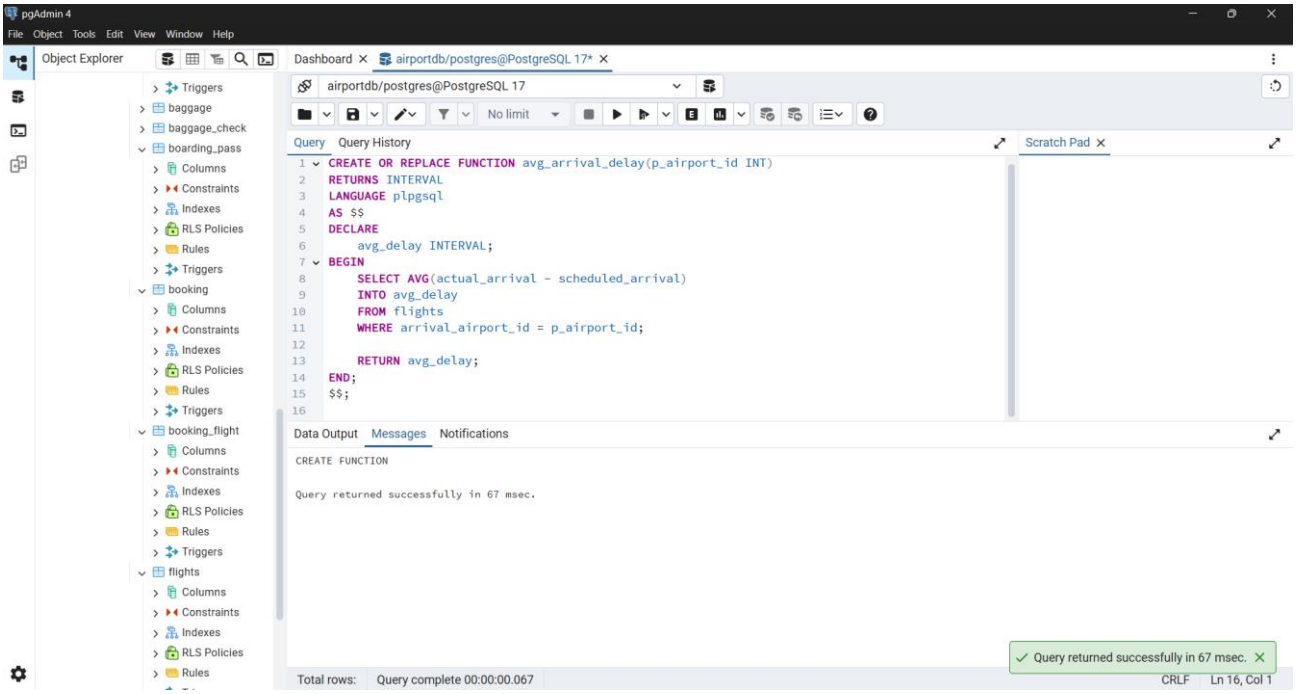
2. Create a stored procedure to update the status of a flight.



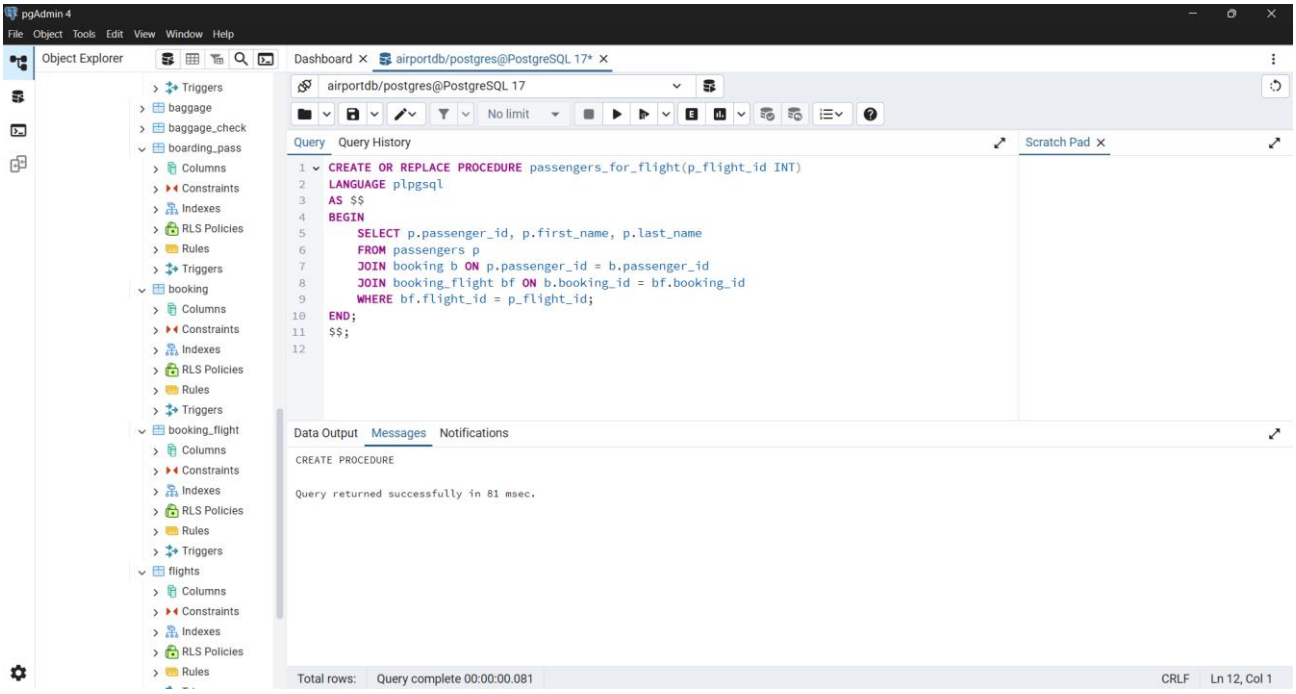
3. Create a stored procedure that returns a list of flights departing from a specific airport.



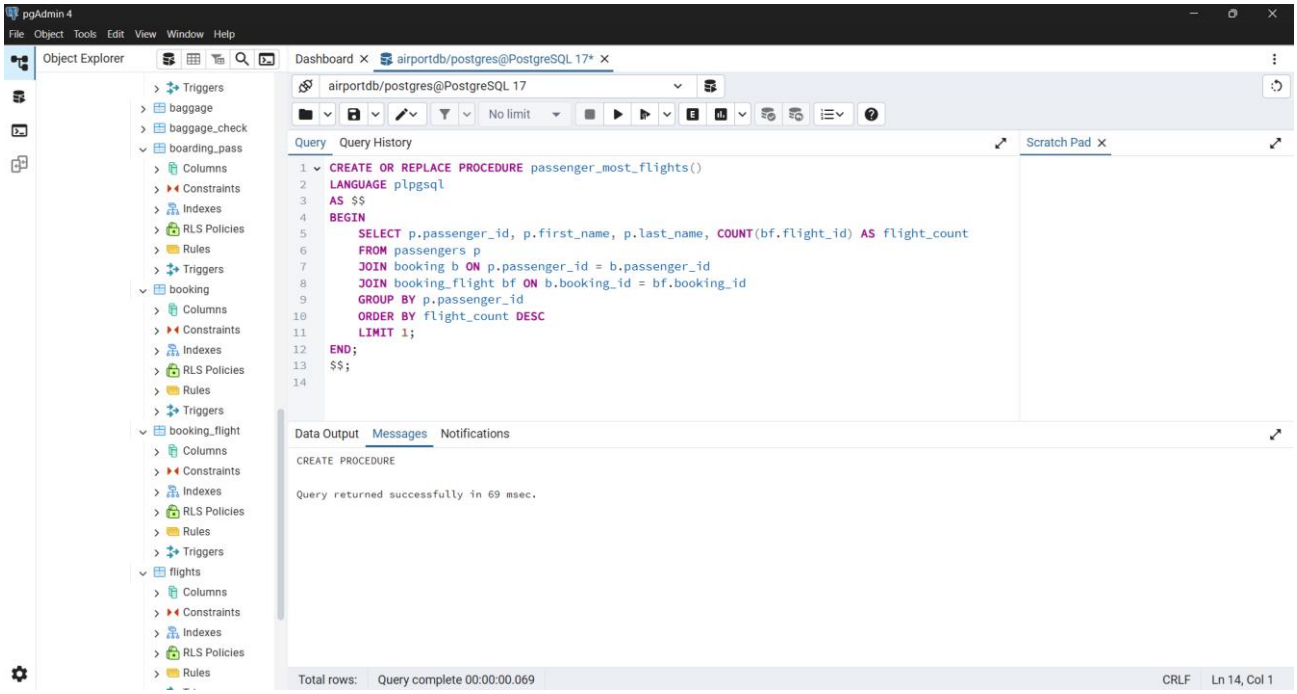
4. Create a function to calculate the average delay time of flights arriving at a specific airport.



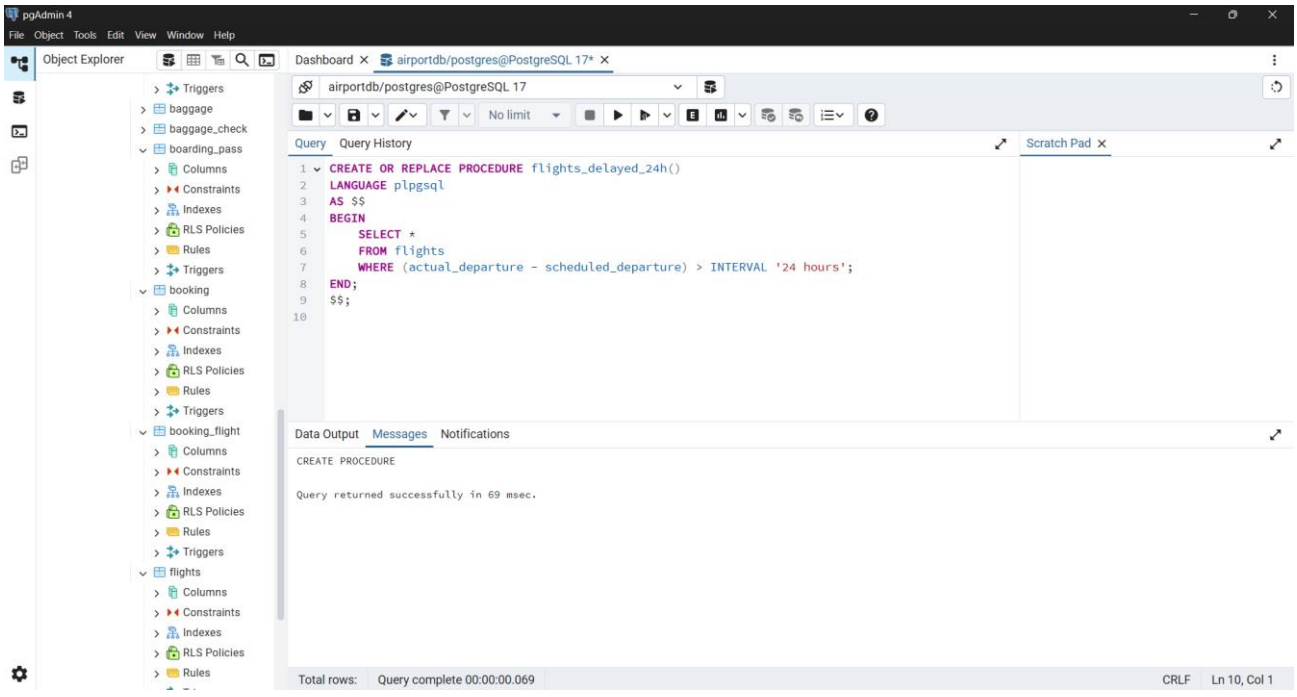
5. Create a stored procedure that lists all passengers for a given flight number.



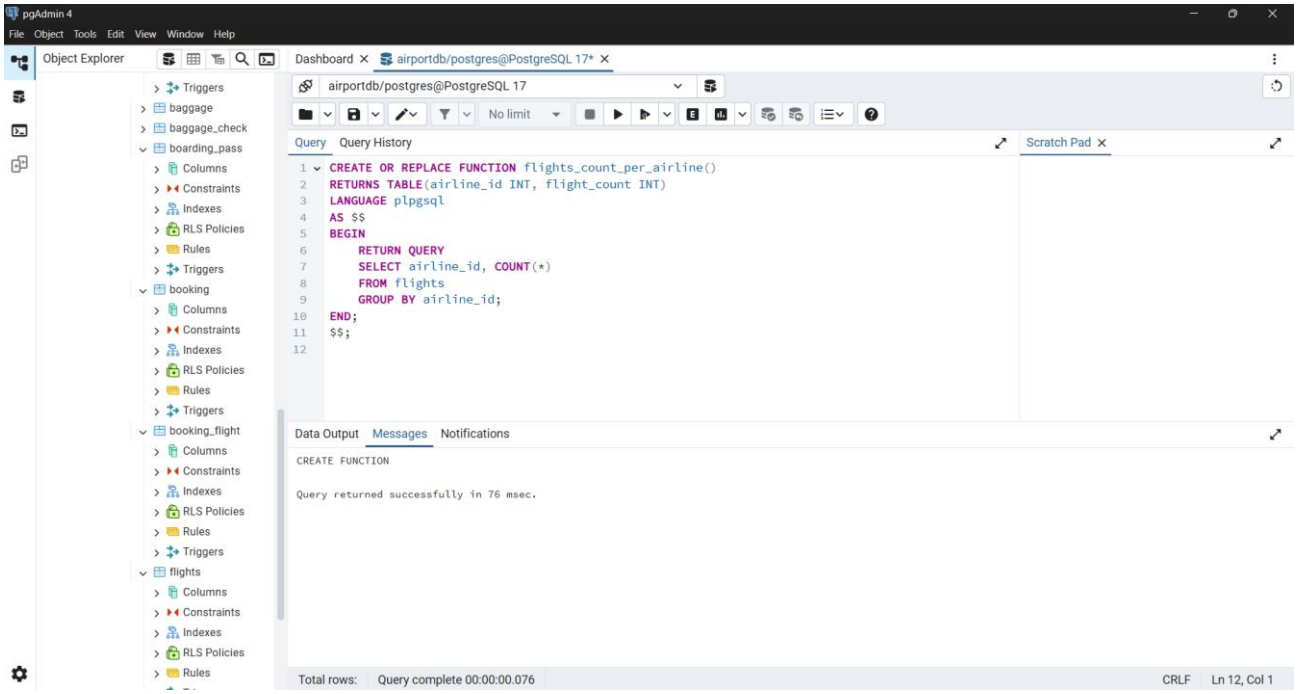
6. Create a stored procedure to find the passenger who has taken the greatest number of flights.



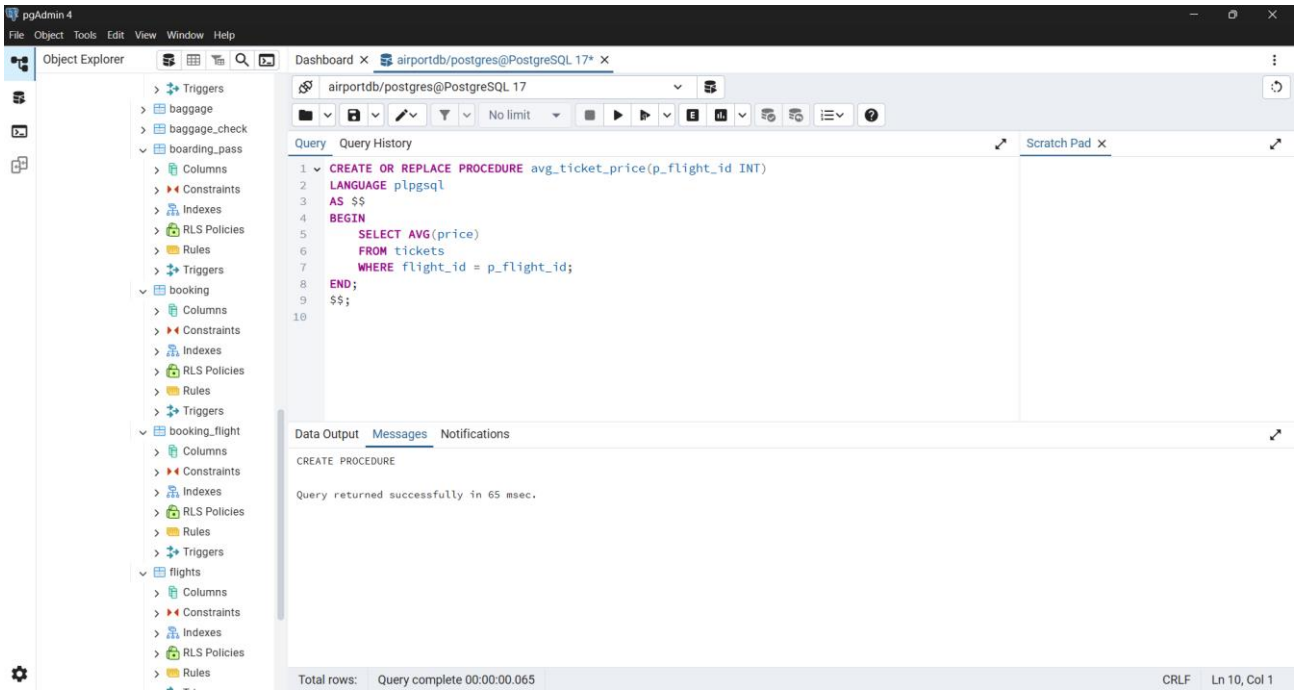
7. Create a stored procedure to find all flights that are delayed by more than 24 hours.



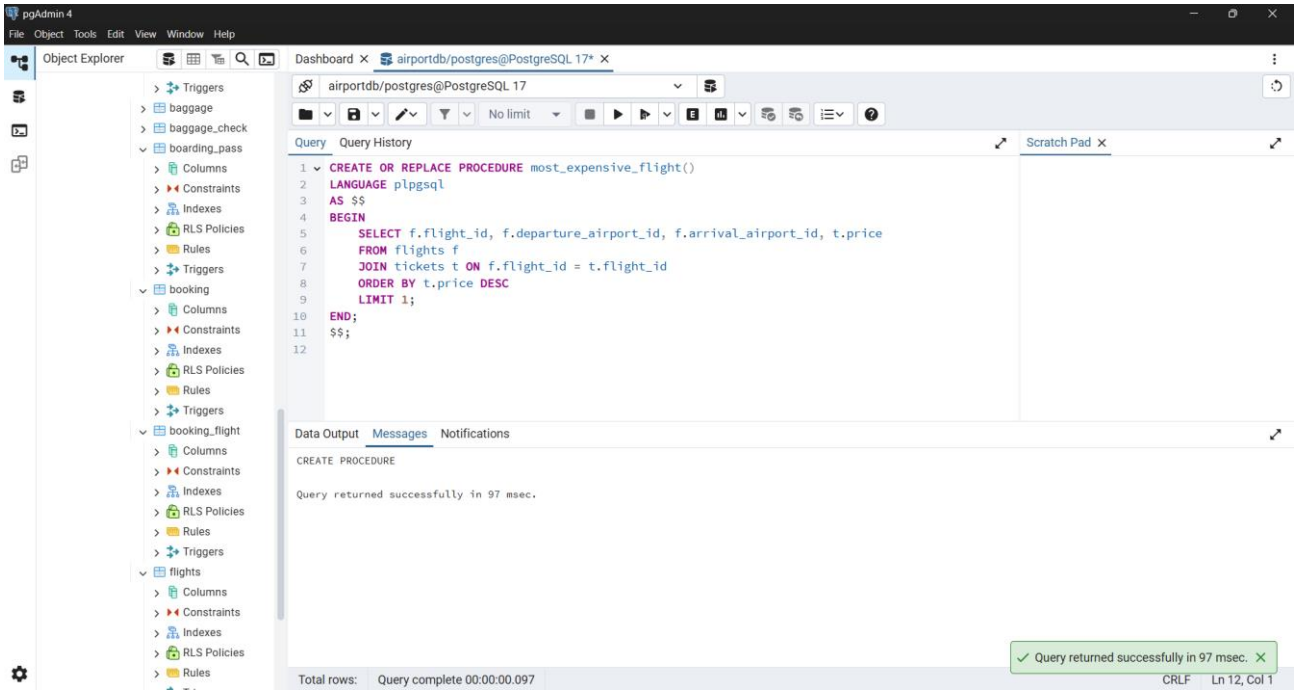
8. Create a function that counts the number of flights for each airline.



9. Create a stored procedure to calculate the average ticket price for a specific flight.



10. Create a stored procedure to find the flight with the highest ticket price. The procedure should return the flight number, the departure and arrival airports, and the ticket price for the most expensive flight.


pgAdmin 4
File Object Tools Edit View Window Help
Object Explorer
Dashboard
airportdb/postgres@PostgreSQL 17*
airportdb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
CREATE OR REPLACE PROCEDURE most_expensive_flight()
LANGUAGE plpgsql
AS $$
BEGIN
SELECT f.flight_id, f.departure_airport_id, f.arrival_airport_id, t.price
FROM flights f
JOIN tickets t ON f.flight_id = t.flight_id
ORDER BY t.price DESC
LIMIT 1;
END;
$$;
Data Output
Messages
Notifications
CREATE PROCEDURE
Query returned successfully in 97 msec.
Total rows:
Query complete 00:00:00.097
CRLF
Ln 12, Col 1
Triggers
baggage
baggage_check
boarding_pass
Columns
Constraints
Indexes
RLS Policies
Rules
Triggers
booking
Columns
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