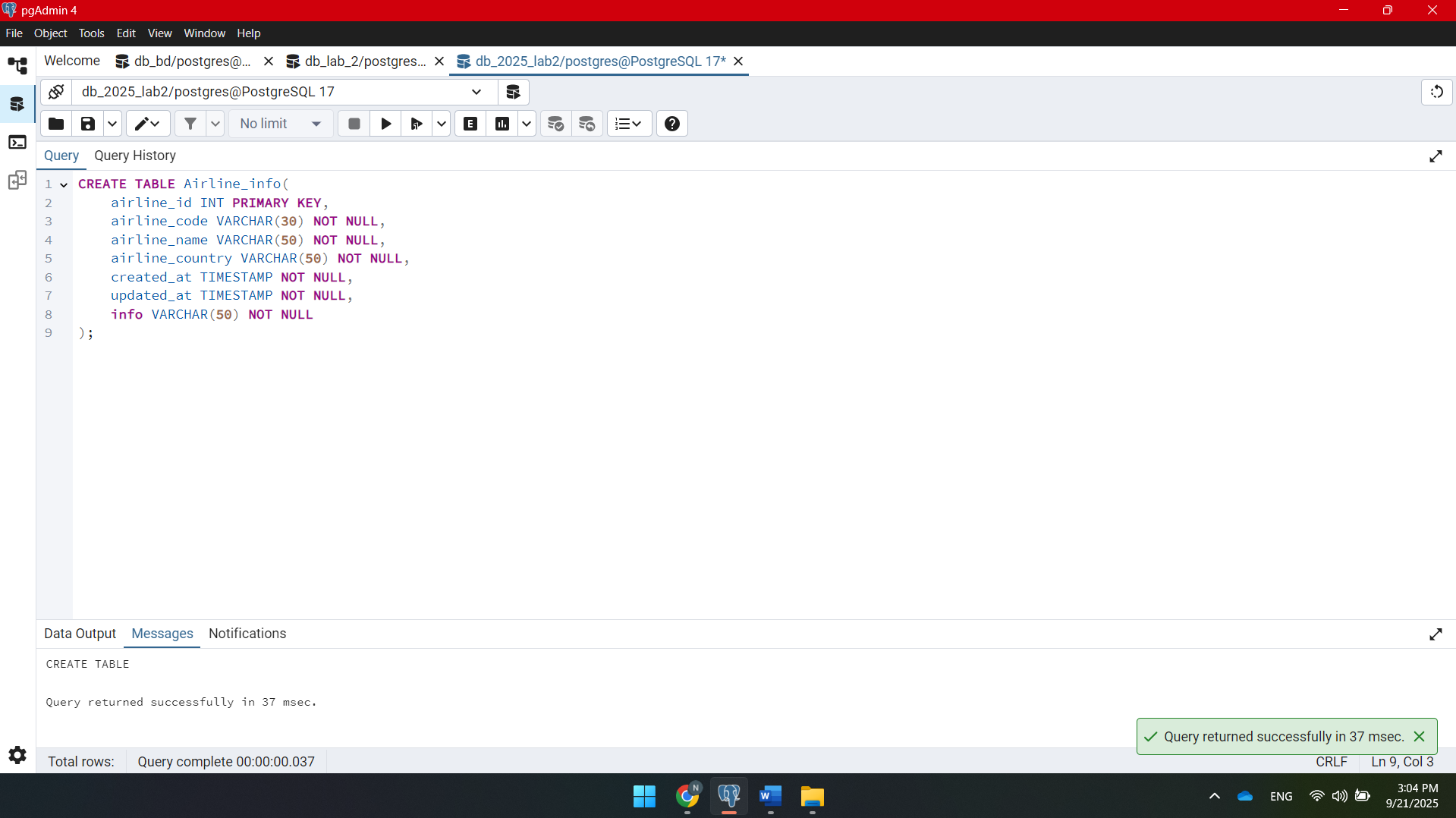
**LAB\_2**

**DDL**



**CREATE TABLE Airline\_info(**

**airline\_id INT PRIMARY KEY,**

**airline\_code VARCHAR(30) NOT NULL,**

**airline\_name VARCHAR(50) NOT NULL,**

**airline\_country VARCHAR(50) NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL,**

**info VARCHAR(50) NOT NULL**

**);**

A screenshot of a computer

AI-generated content may be incorrect.

**CREATE TABLE Airport(**

**airport\_id INT PRIMARY KEY,**

**airport\_name VARCHAR(50) NOT NULL,**

**country VARCHAR(50) NOT NULL,**

**state VARCHAR(50) NOT NULL,**

**city VARCHAR(50) NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL**

**);**

A screenshot of a computer

AI-generated content may be incorrect.

**CREATE TABLE Baggage\_check(**

**baggage\_check\_id INT PRIMARY KEY,**

**check\_result VARCHAR(50) NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL,**

**booking\_id INT NOT NULL,**

**passenger\_id INT NOT NULL**

**);**

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AI-generated content may be incorrect.

**CREATE TABLE Baggage(**

**baggage\_id INT PRIMARY KEY,**

**weight\_in\_kg DECIMAL(4,2) NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL,**

**booking\_id INT NOT NULL**

**);**

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AI-generated content may be incorrect.

**CREATE TABLE Boarding\_pass(**

**boarding\_pass\_id INT PRIMARY KEY,**

**booking\_id INT NOT NULL,**

**seat VARCHAR(50) NOT NULL,**

**boarding\_time TIMESTAMP NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL**

**);**

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C**REATE TABLE Booking\_flight(**

**booking\_flight\_id INT PRIMARY KEY,**

**booking\_id INT NOT NULL,**

**flight\_id INT NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL**

**);**

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AI-generated content may be incorrect.

**CREATE TABLE Booking(**

**booking\_id INT PRIMARY KEY,**

**flight\_id INT NOT NULL,**

**passenger\_id INT NOT NULL,**

**booking\_platform VARCHAR(50) NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL,**

**status VARCHAR(50) NOT NULL,**

**price DECIMAL(7,2) NOT NULL**

**);**

A screenshot of a computer

AI-generated content may be incorrect.

**CREATE TABLE Flights(**

**flight\_id INT PRIMARY KEY,**

**sch\_departure\_time TIMESTAMP NOT NULL,**

**sch\_arrival\_time TIMESTAMP NOT NULL,**

**departing\_airport\_id INT NOT NULL,**

**arriving\_airport\_id INT NOT NULL,**

**departing\_gate VARCHAR(50) NOT NULL,**

**arriving\_gate VARCHAR(50) NOT NULL,**

**airline\_id INT NOT NULL,**

**act\_departure\_time TIMESTAMP NOT NULL,**

**act\_arrival\_time TIMESTAMP NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL**

**);**

A screenshot of a computer

AI-generated content may be incorrect.

**CREATE TABLE Passengers(**

**passenger\_id INT PRIMARY KEY,**

**first\_name VARCHAR(50) NOT NULL,**

**last\_name VARCHAR(50) NOT NULL,**

**date\_of\_birth DATE NOT NULL,**

**gender VARCHAR(50) NOT NULL,**

**country\_of\_citizenship VARCHAR(50) NOT NULL,**

**country\_of\_residence VARCHAR(50) NOT NULL,**

**passport\_number VARCHAR(20) NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL**

**);**

A screenshot of a computer

AI-generated content may be incorrect.

**CREATE TABLE Security\_check(**

**security\_check\_id INT PRIMARY KEY,**

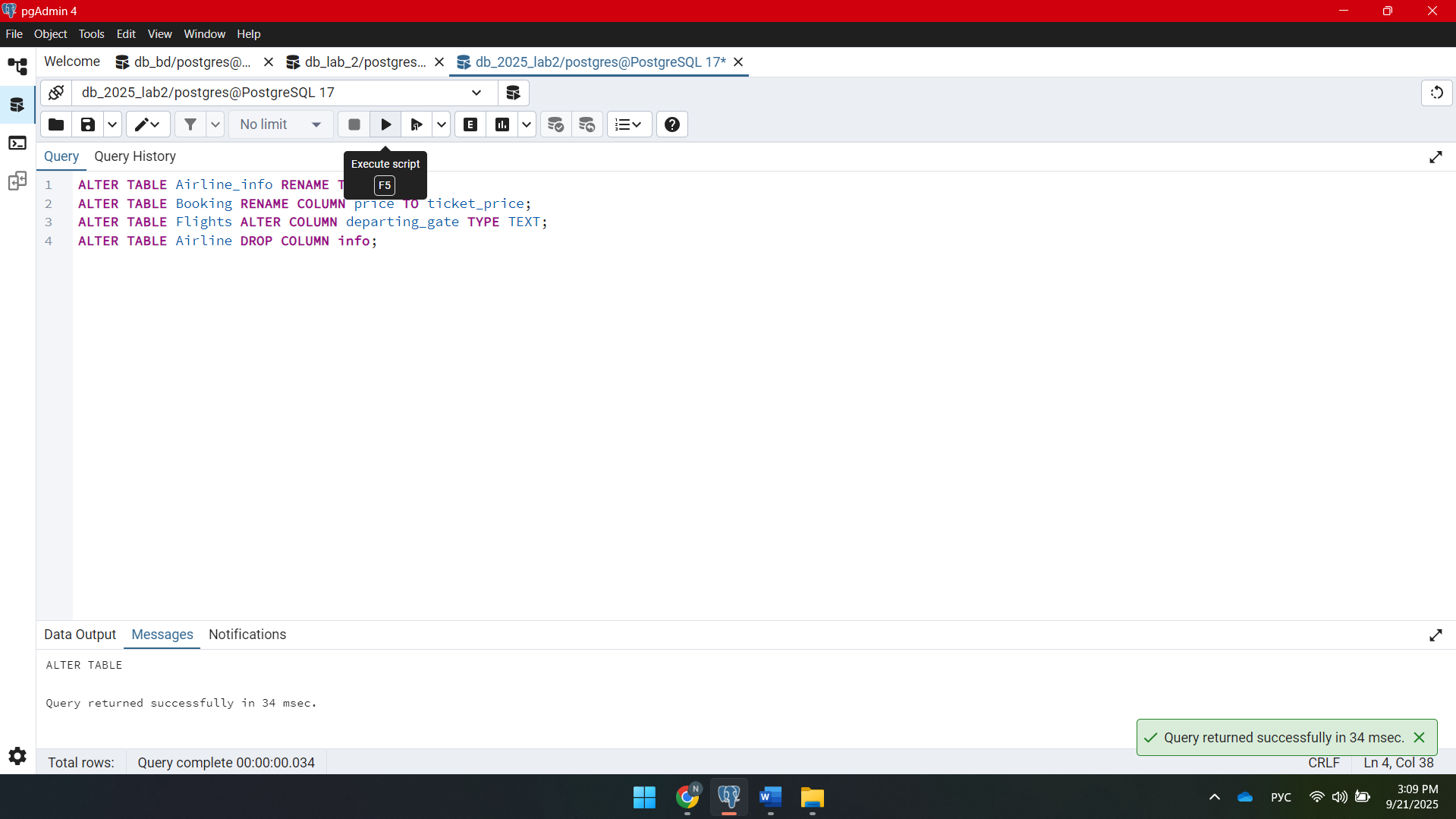
**check\_result VARCHAR(20) NOT NULL,**

**created\_at TIMESTAMP NOT NULL,**

**updated\_at TIMESTAMP NOT NULL,**

**passenger\_id INT NOT NULL**

**);**

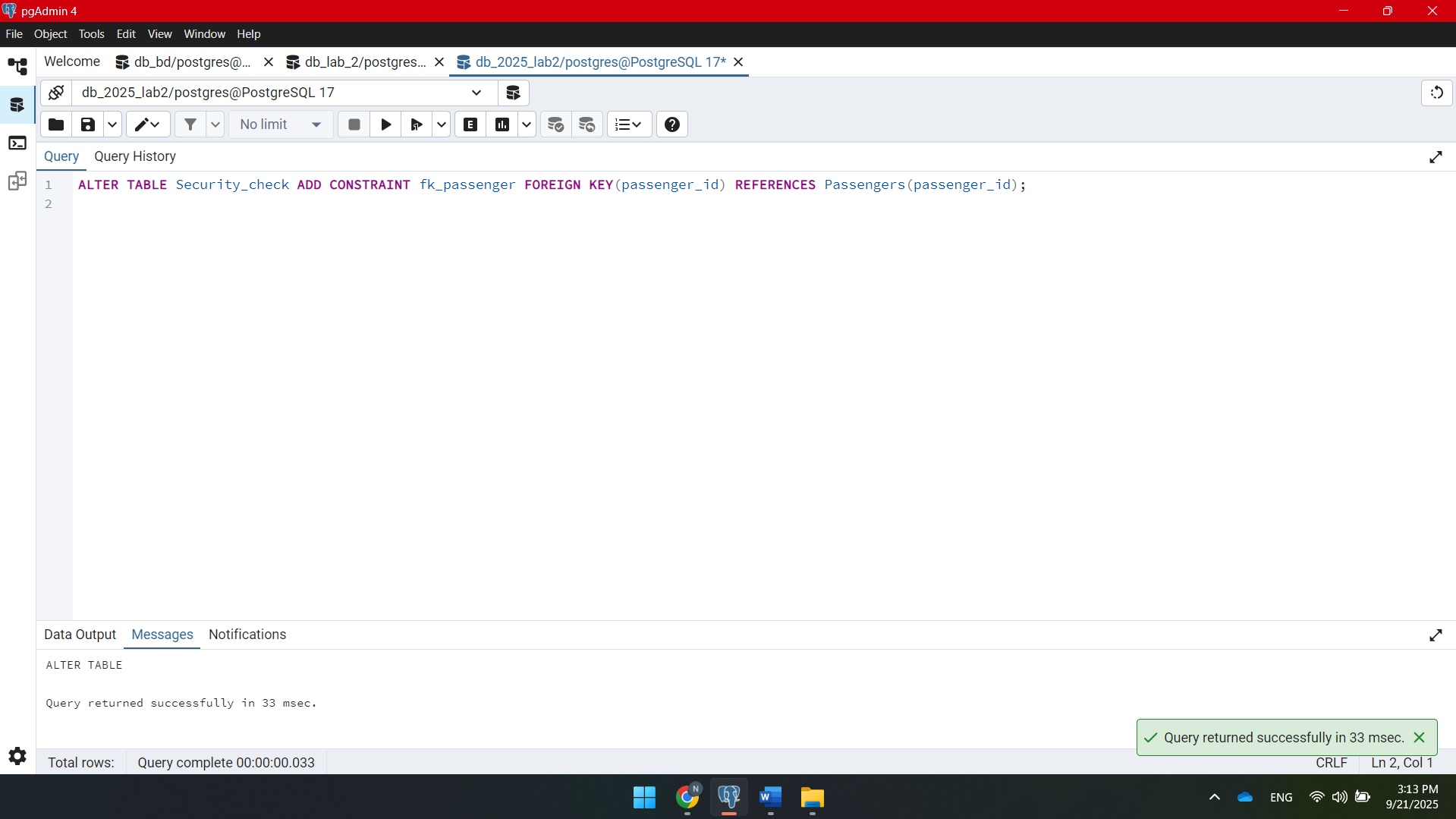


**5** ALTER TABLE Airline\_info RENAME TO Airline;

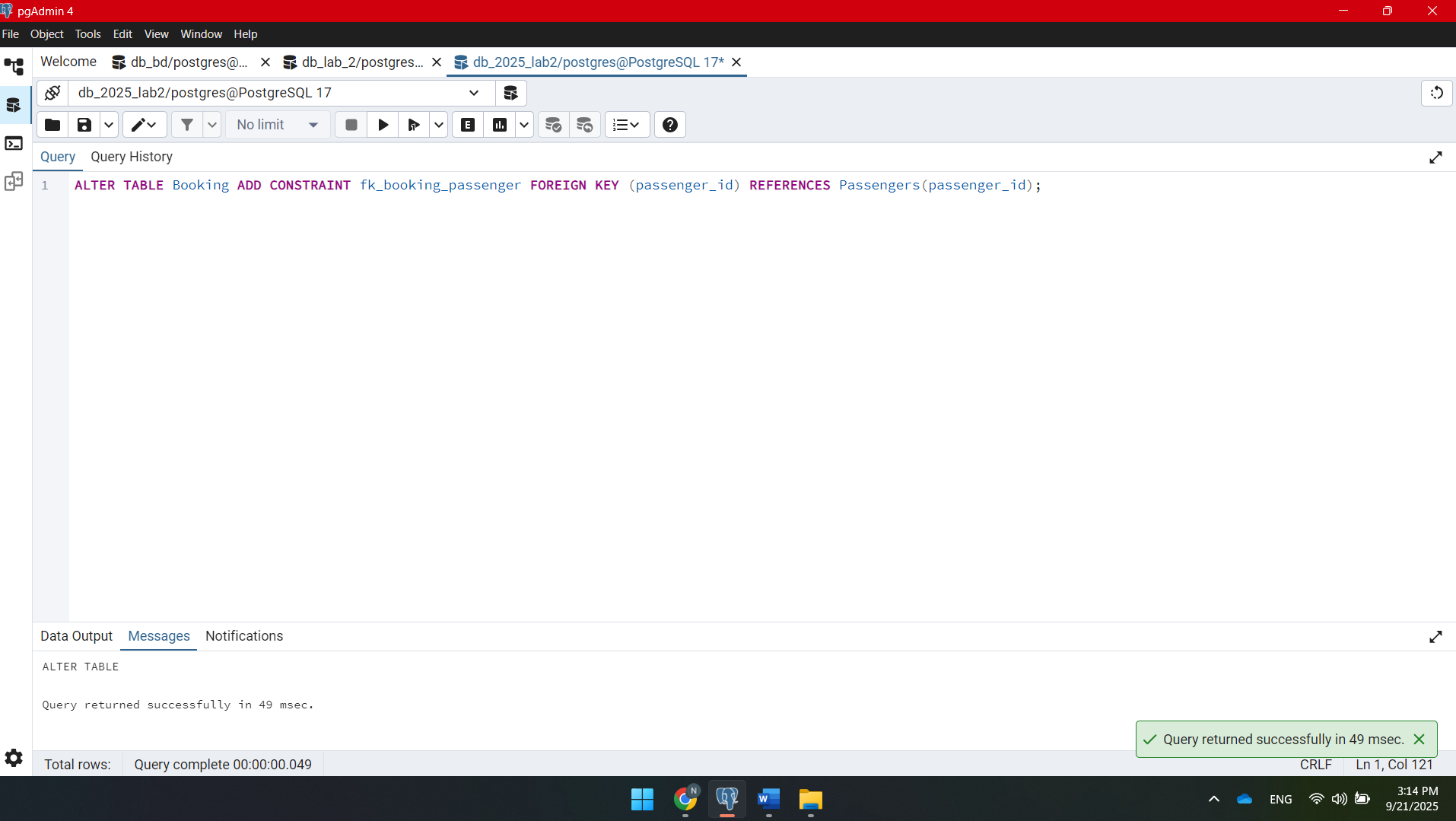
**6** ALTER TABLE Booking RENAME COLUMN price TO ticket\_price;

**7** ALTER TABLE Flights ALTER COLUMN departing\_gate TYPE TEXT;

**8** ALTER TABLE Airline DROP COLUMN info;



**ALTER TABLE Security\_check ADD CONSTRAINT fk\_passenger FOREIGN KEY (passenger\_id) REFERENCES Passengers(passenger\_id);**



ALTER TABLE Booking ADD CONSTRAINT fk\_booking\_passenger FOREIGN KEY (passenger\_id) REFERENCES Passengers(passenger\_id);

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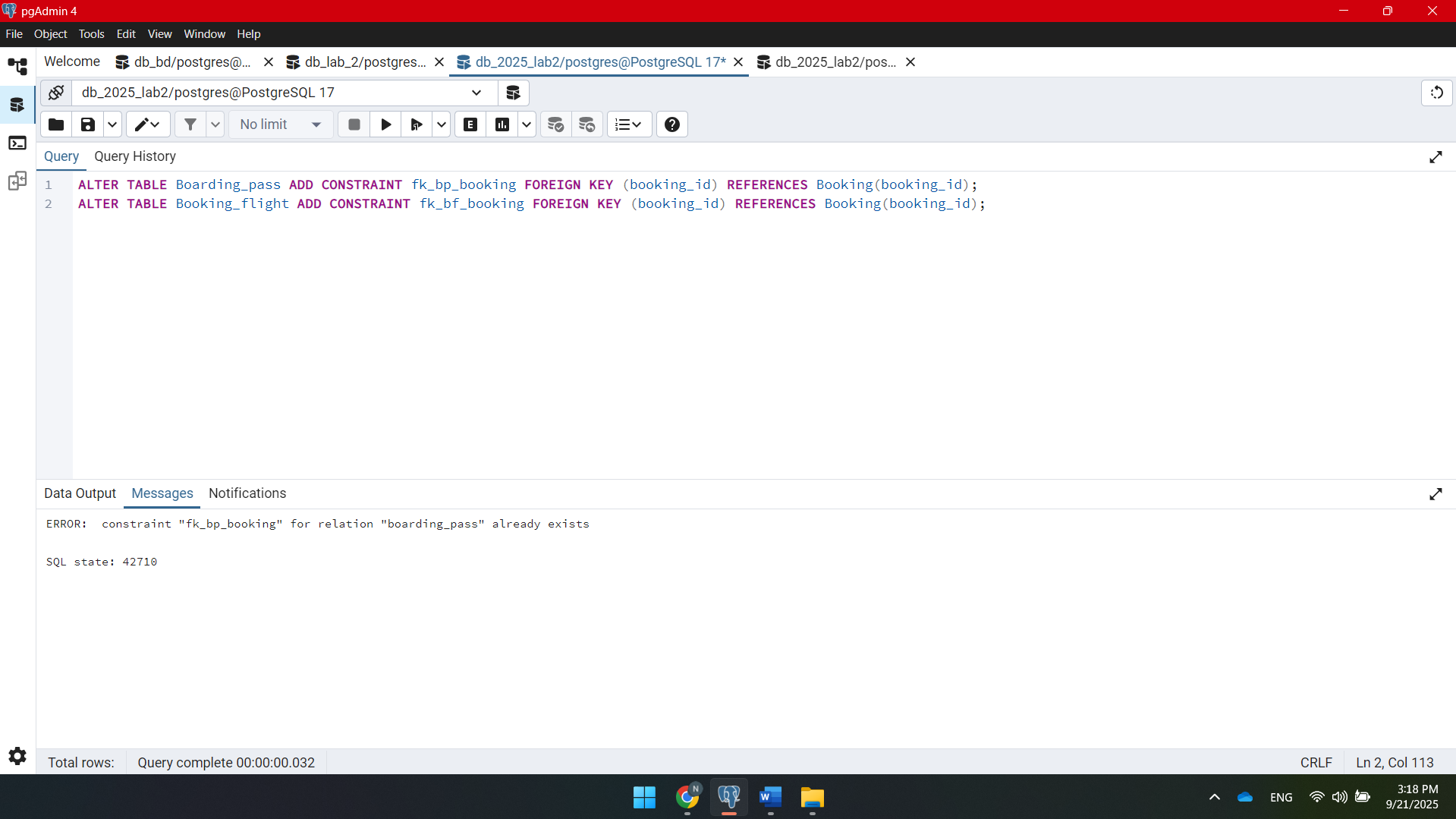
ALTER TABLE Baggage\_check ADD CONSTRAINT fk\_bc\_passenger FOREIGN KEY (passenger\_id) REFERENCES Passengers(passenger\_id);

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AI-generated content may be incorrect.

ALTER TABLE Baggage\_check ADD CONSTRAINT fk\_bc\_booking FOREIGN KEY (booking\_id) REFERENCES Booking(booking\_id);

ALTER TABLE Baggage ADD CONSTRAINT fk\_baggage\_booking FOREIGN KEY (booking\_id) REFERENCES Booking(booking\_id);



ALTER TABLE Boarding\_pass ADD CONSTRAINT fk\_bp\_booking FOREIGN KEY (booking\_id) REFERENCES Booking(booking\_id);

ALTER TABLE Booking\_flight ADD CONSTRAINT fk\_bf\_booking FOREIGN KEY (booking\_id) REFERENCES Booking(booking\_id);

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AI-generated content may be incorrect.

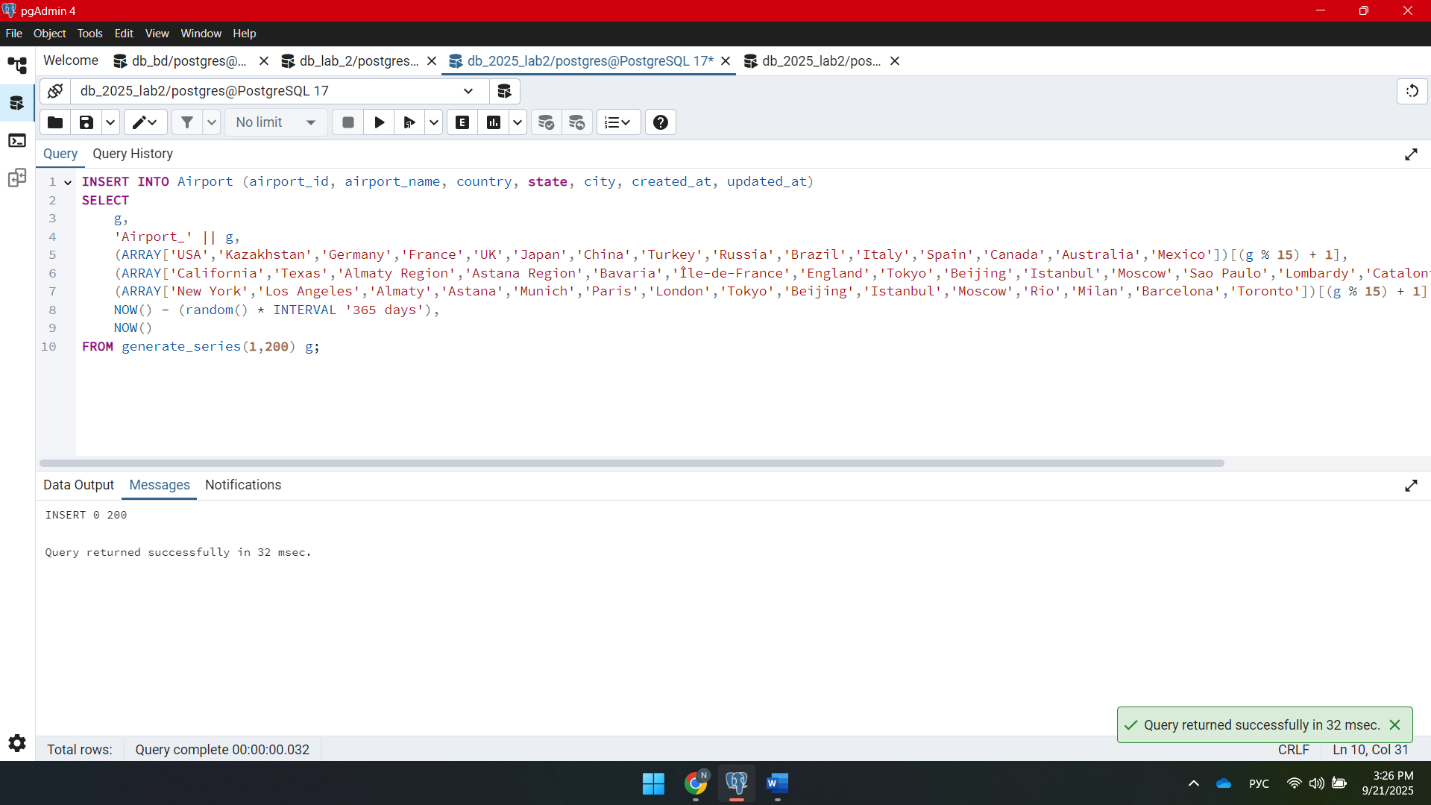
ALTER TABLE Booking\_flight ADD CONSTRAINT fk\_bf\_flight FOREIGN KEY (flight\_id) REFERENCES Flights(flight\_id);

ALTER TABLE Flights ADD CONSTRAINT fk\_flight\_depart\_airport FOREIGN KEY (departing\_airport\_id) REFERENCES Airport(airport\_id);

ALTER TABLE Flights ADD CONSTRAINT fk\_flight\_arrival\_airport FOREIGN KEY (arriving\_airport\_id) REFERENCES Airport(airport\_id);

ALTER TABLE Flights ADD CONSTRAINT fk\_flight\_airline FOREIGN KEY (airline\_id) REFERENCES Airline(airline\_id);

DML



**INSERT INTO Airport (airport\_id, airport\_name, country, state, city, created\_at, updated\_at)**

**SELECT**

**g,**

**'Airport\_' || g,**

**(ARRAY['USA','Kazakhstan','Germany','France','UK','Japan','China','Turkey','Russia','Brazil','Italy','Spain','Canada','Australia','Mexico'])[(g % 15) + 1],**

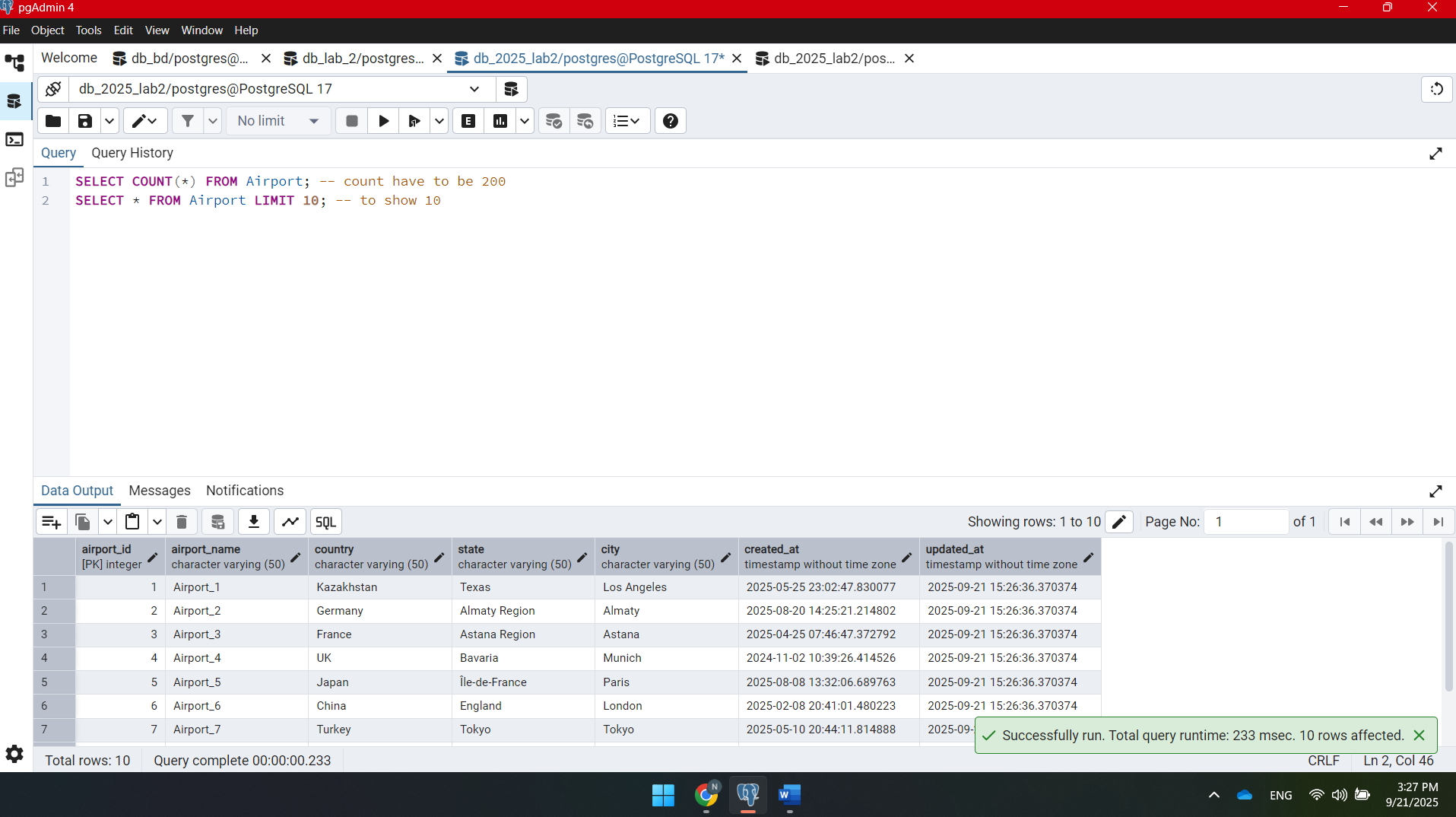
**(ARRAY['California','Texas','Almaty Region','Astana Region','Bavaria','Île-de-France','England','Tokyo','Beijing','Istanbul','Moscow','Sao Paulo','Lombardy','Catalonia','Ontario'])[(g % 15) + 1],**

**(ARRAY['New York','Los Angeles','Almaty','Astana','Munich','Paris','London','Tokyo','Beijing','Istanbul','Moscow','Rio','Milan','Barcelona','Toronto'])[(g % 15) + 1],**

**NOW() - (random() \* INTERVAL '365 days'),**

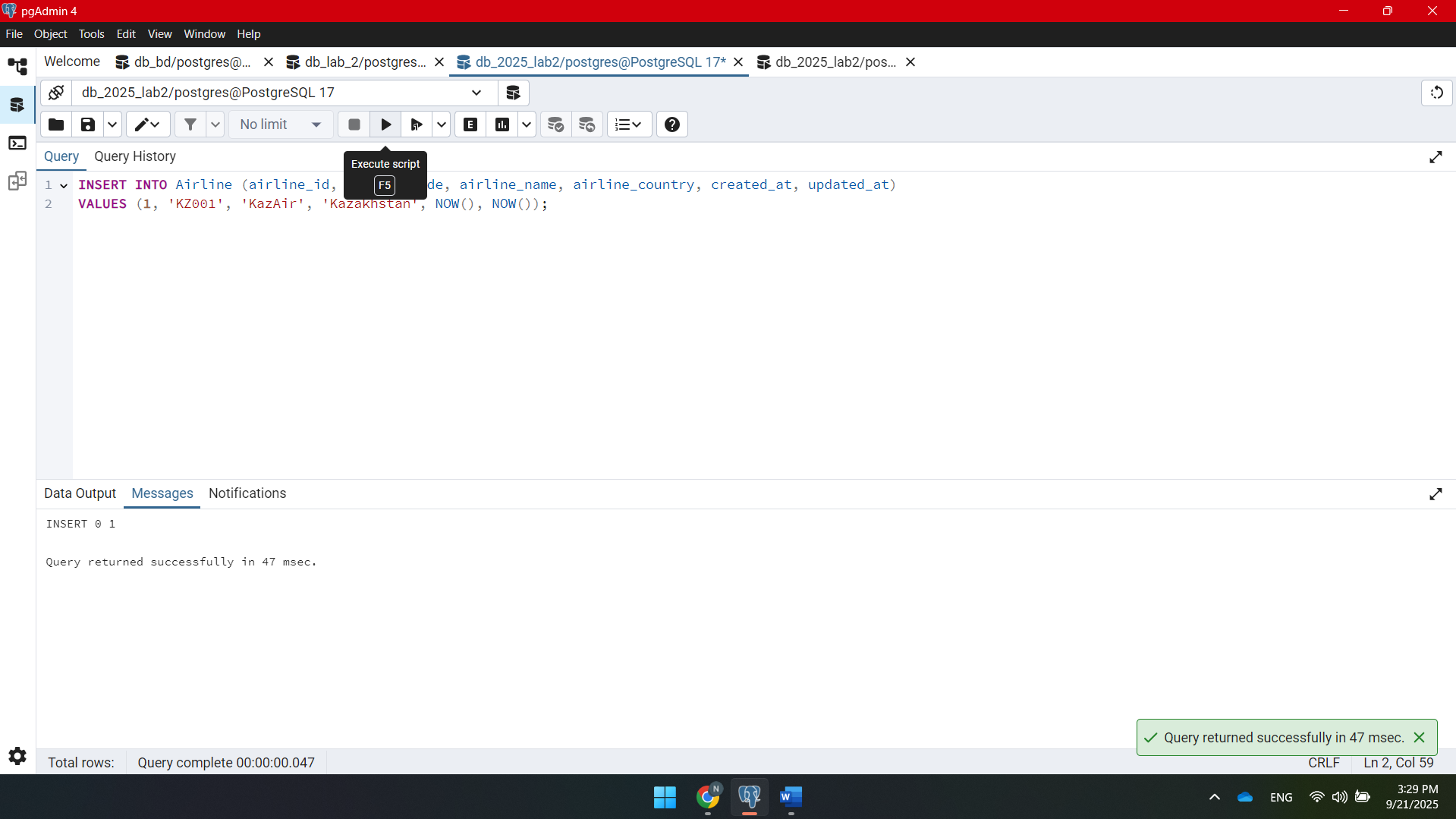
**NOW()**

**FROM generate\_series(1,200) g;**



**SELECT COUNT(\*) FROM Airport; -- Должно быть 200**

**SELECT \* FROM Airport LIMIT 10; -- Посмотреть первые 10 записей**



**INSERT INTO Airline (airline\_id, airline\_code, airline\_name, airline\_country, created\_at, updated\_at)**

**VALUES (1, 'KZ001', 'KazAir', 'Kazakhstan', NOW(), NOW());**

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AI-generated content may be incorrect.

**UPDATE Airline SET airline\_country = 'Turkey' WHERE airline\_name = 'KazAir';**

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AI-generated content may be incorrect.

**INSERT INTO Airline (airline\_id, airline\_code, airline\_name, airline\_country, created\_at, updated\_at)**

**VALUES**

**(2, 'FR001', 'AirEasy', 'France', NOW(), NOW()),**

**(3, 'BR001', 'FlyHigh', 'Brazil', NOW(), NOW()),**

**(4, 'PL001', 'FlyFly', 'Poland', NOW(), NOW());**

A screenshot of a computer

AI-generated content may be incorrect.

**DELETE FROM Flights WHERE EXTRACT(YEAR FROM sch\_arrival\_time) = 2024;**

A screenshot of a computer

AI-generated content may be incorrect.

**UPDATE Booking**

**SET ticket\_price = ticket\_price \* 1.15;**

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AI-generated content may be incorrect.

**DELETE FROM Booking WHERE ticket\_price < 10000;**