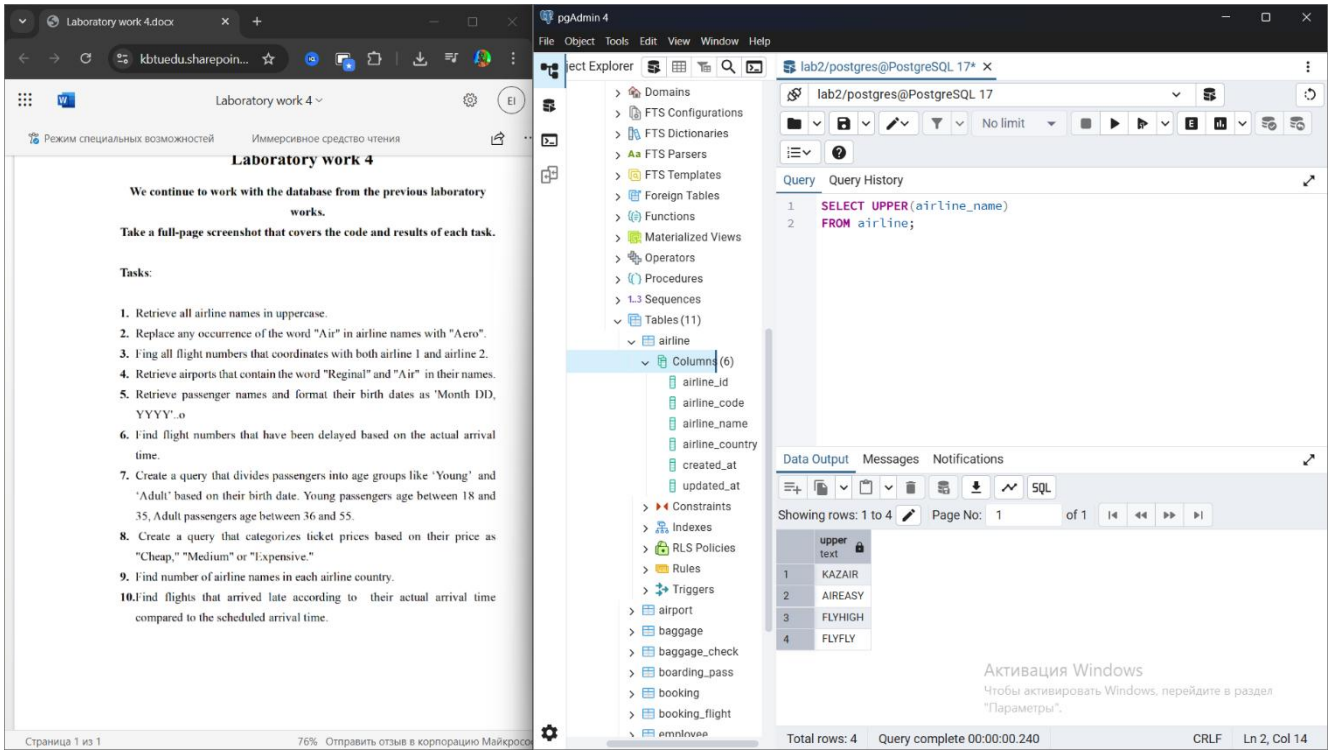
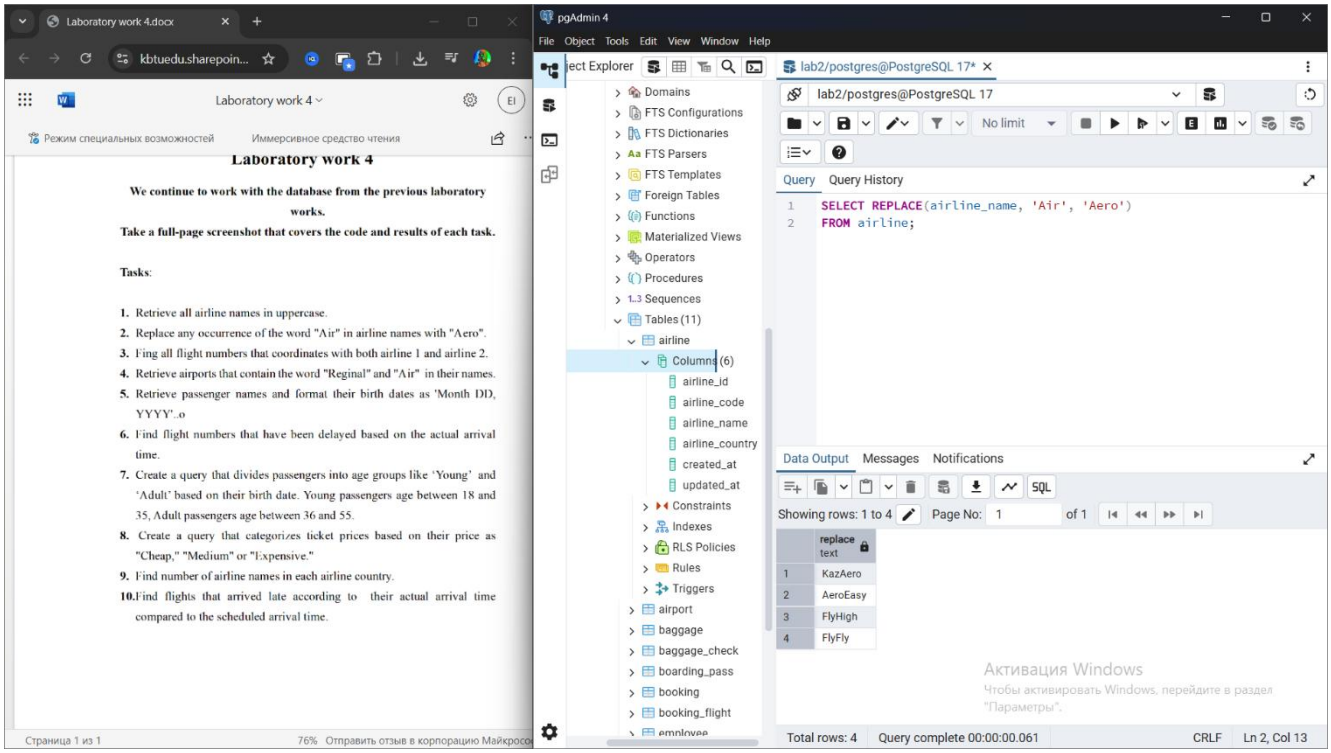
Laboratory work 4

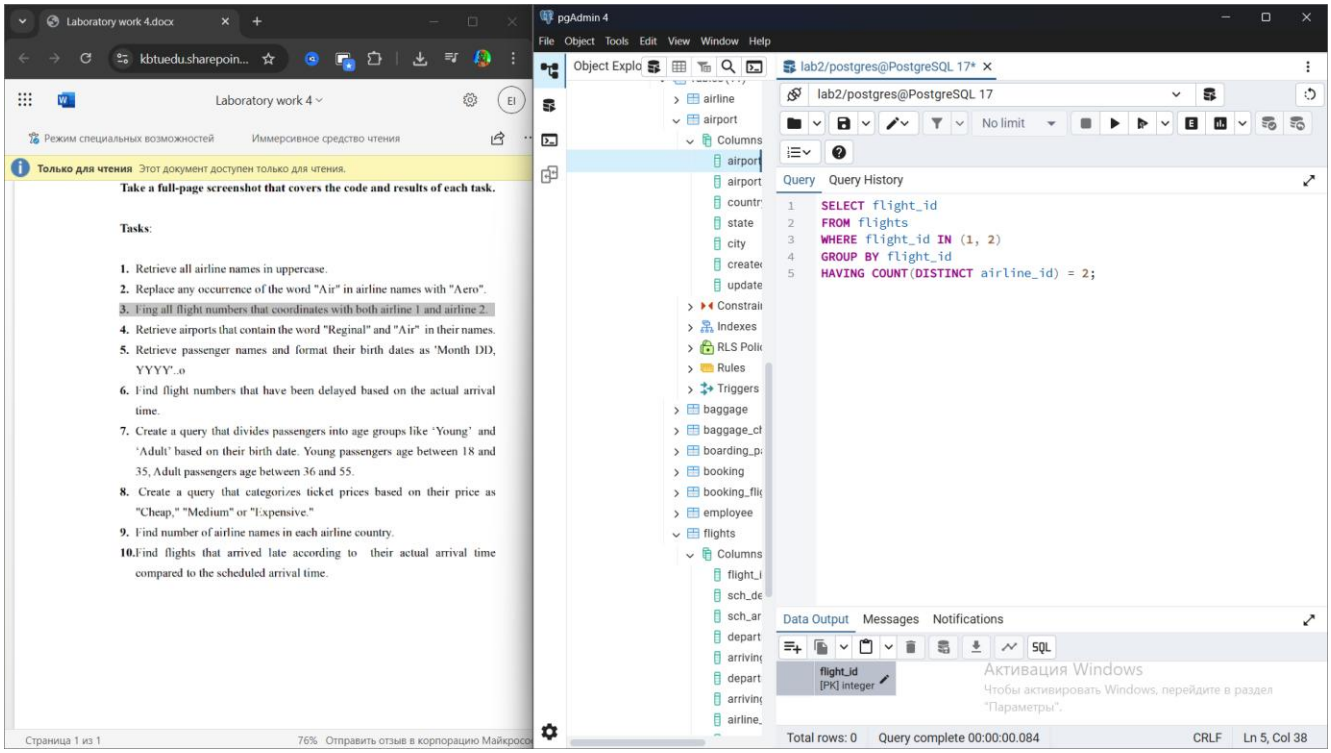
1.



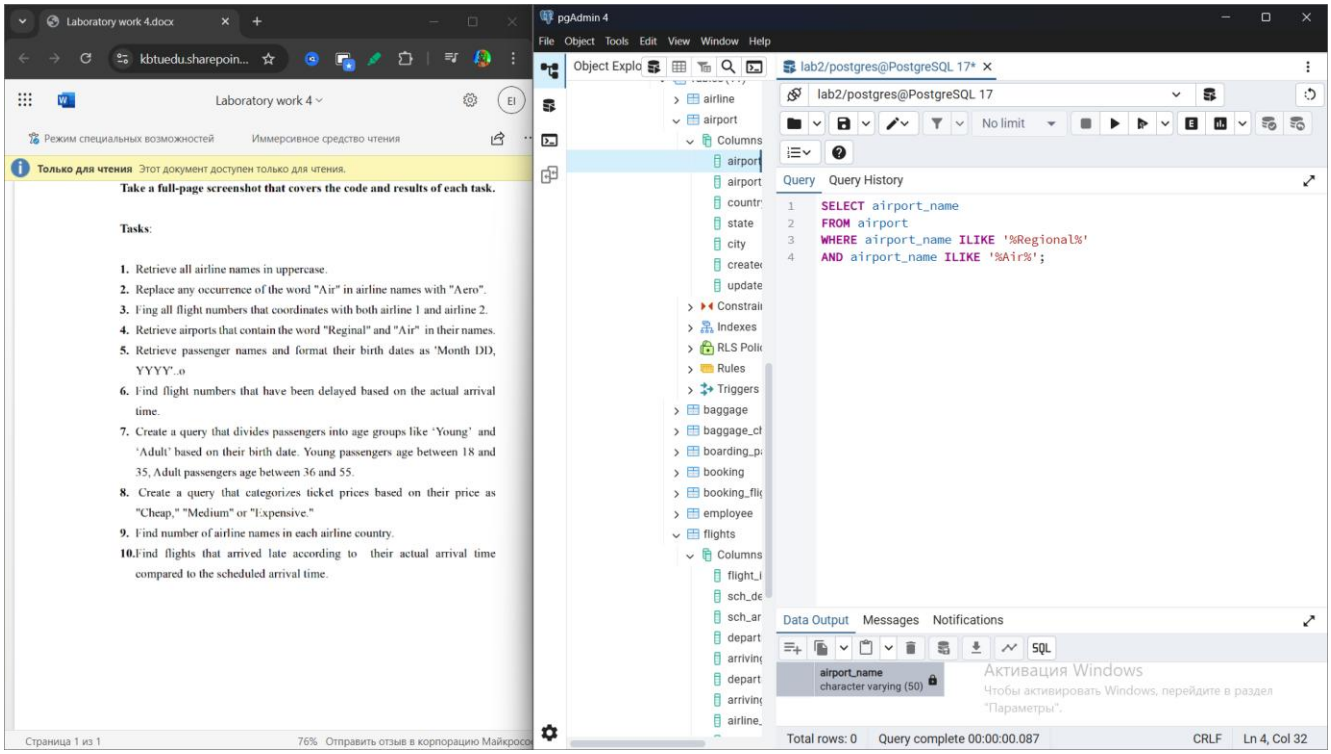
2.



3.


Laboratory work 4.docx
Laboratory work 4
Только для чтения Этот документ доступен только для чтения.
Take a full-page screenshot that covers the code and results of each task.
Tasks:
1. Retrieve all airline names in uppercase.
2. Replace any occurrence of the word "Air" in airline names with "Aero".
3. Fing all flight numbers that coordinates with both airline 1 and airline 2.
4. Retrieve airports that contain the word "Reginal" and "Air" in their names.
5. Retrieve passenger names and format their birth dates as 'Month DD, YYYY'..o
6. Find flight numbers that have been delayed based on the actual arrival time.
7. Create a query that divides passengers into age groups like 'Young' and 'Adult' based on their birth date. Young passengers age between 18 and 35, Adult passengers age between 36 and 55.
8. Create a query that categorizes ticket prices based on their price as "Cheap," "Medium" or "Expensive."
9. Find number of airline names in each airline country.
10. Find flights that arrived late according to their actual arrival time compared to the scheduled arrival time.
pgAdmin 4
lab2/postgres@PostgreSQL 17
SELECT flight_id
FROM flights
WHERE flight_id IN (1, 2)
GROUP BY flight_id
HAVING COUNT(DISTINCT airline_id) = 2;
Data Output
Messages
Notifications
flight_id
[PK] integer
Total rows: 0
Query complete 00:00:00.084
Ln 5, Col 38

4.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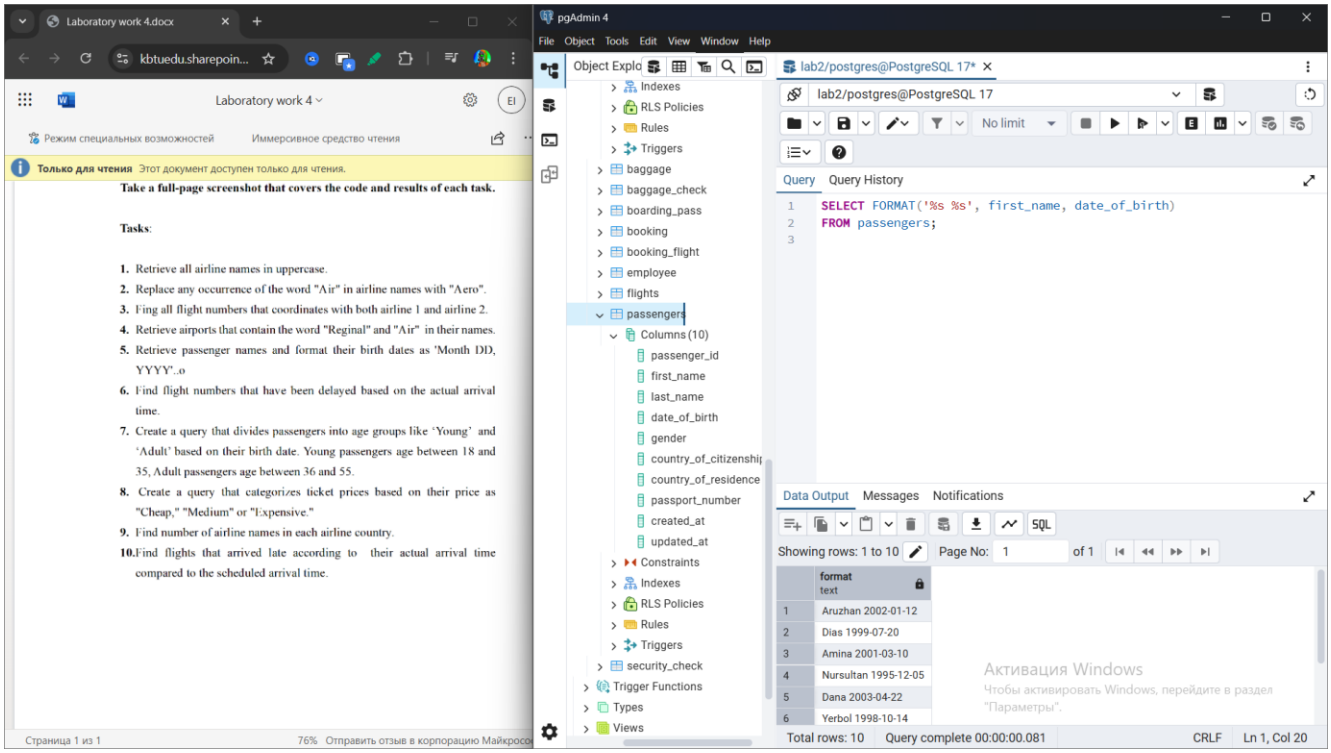
10. Find flights that arrived late according to their actual arrival time compared to the scheduled arrival time.
pgAdmin 4
lab2/postgres@PostgreSQL 17
SELECT airport_name
FROM airport
WHERE airport_name ILIKE '%Regional%'
AND airport_name ILIKE '%Air%';
Data Output
Messages
Notifications
airport_name
character varying (50)
Total rows: 0
Query complete 00:00:00.087
Ln 4, Col 32

5.


Laboratory work 4.docx
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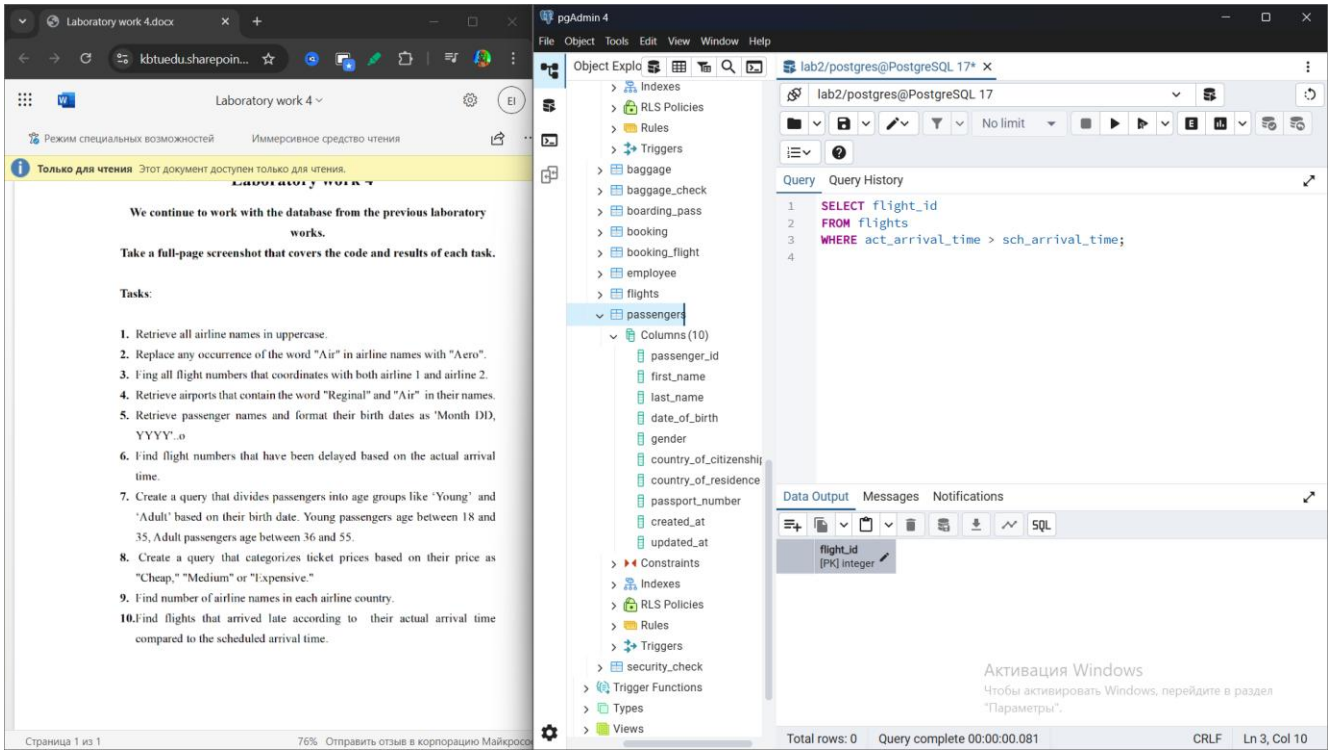
pgAdmin 4
lab2/postgres@PostgreSQL 17
SELECT FORMAT('%s %s', first_name, date_of_birth)
FROM passengers;
Data Output
Messages
Notifications
format
Aruzhan 2002-01-12
Dias 1999-07-20
Amina 2001-03-10
Nursultan 1995-12-05
Dana 2003-04-22
Yerbol 1998-10-14
Total rows: 10
Query complete 00:00:00.081

6.


Laboratory work 4.docx
Laboratory work 4
Только для чтения Этот документ доступен только для чтения.
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9. Find number of airline names in each airline country.
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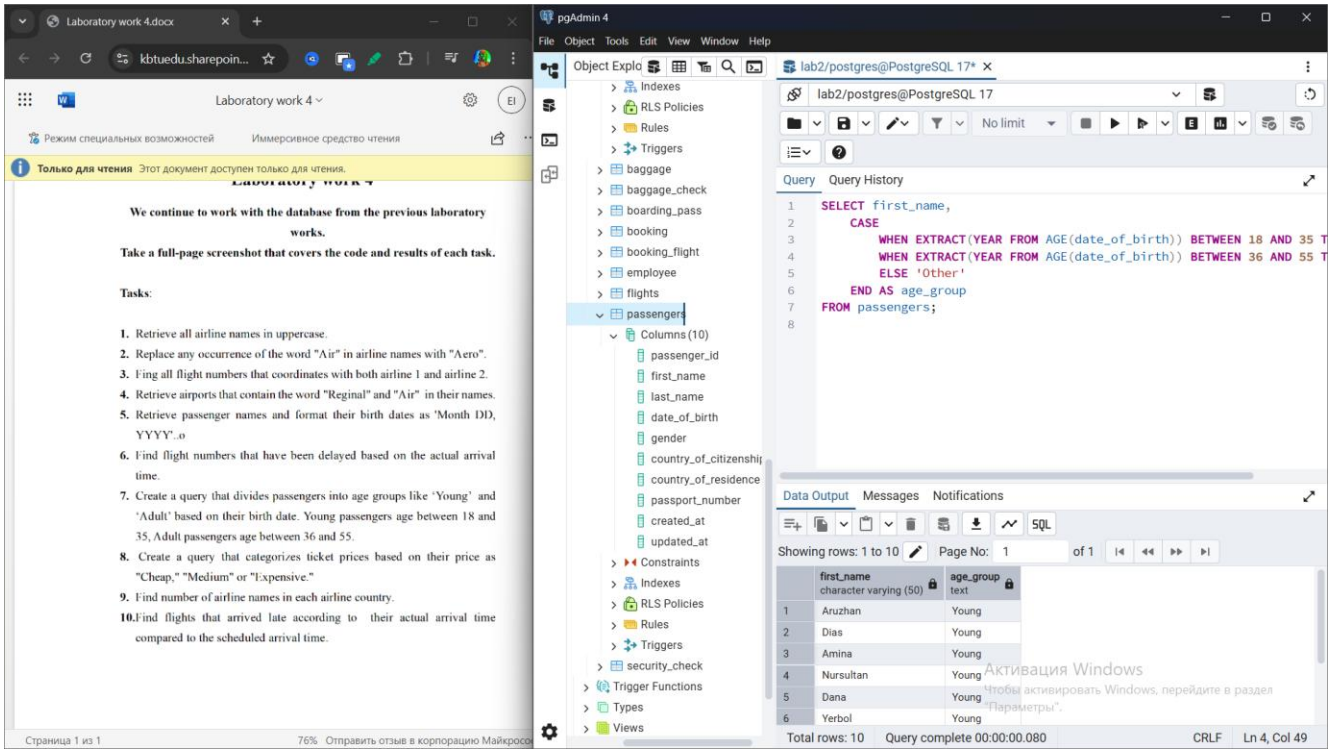
pgAdmin 4
lab2/postgres@PostgreSQL 17
SELECT flight_id
FROM flights
WHERE act_arrival_time > sch_arrival_time;
Data Output
Messages
Notifications
flight_id
[PK] integer
Total rows: 0
Query complete 00:00:00.081

7.


Laboratory work 4.docx
kbtuedu.sharepoin...
Laboratory work 4
Режим специальных возможностей
Иммерсивное средство чтения
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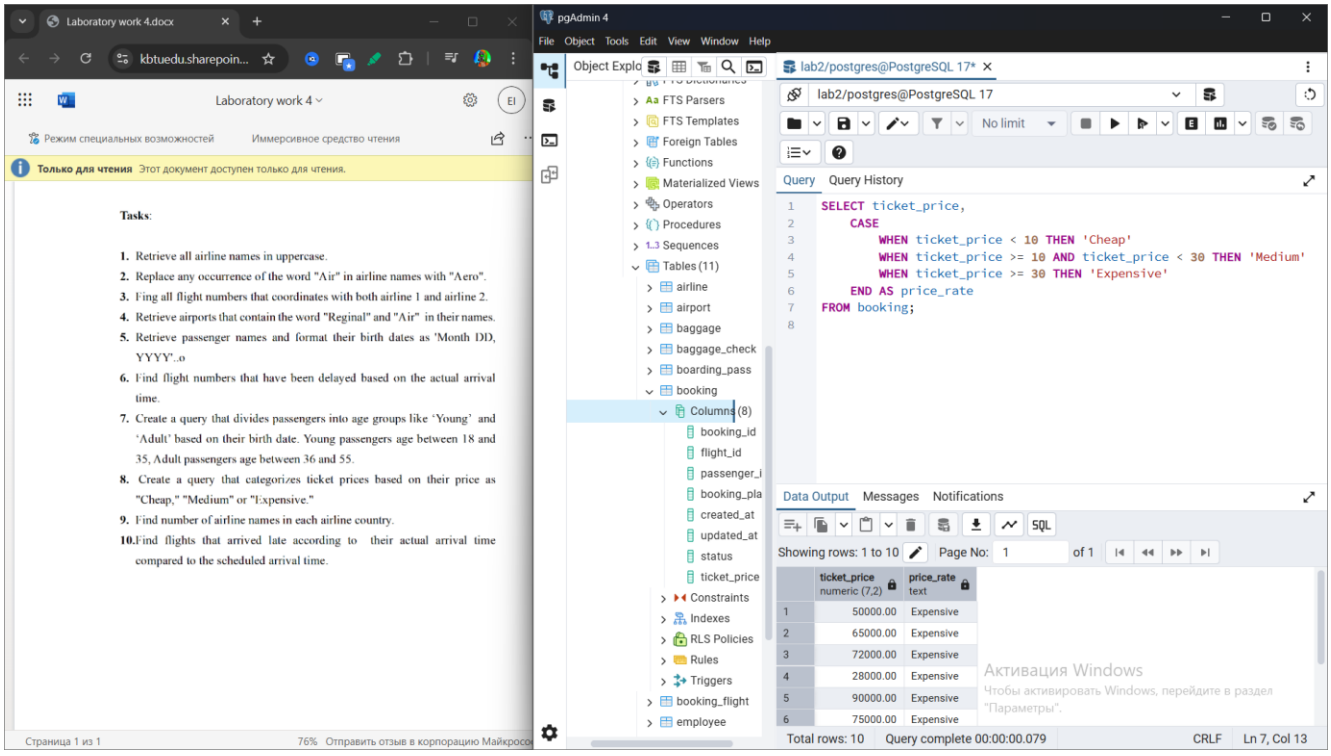
Страница 1 из 1
76% Отправить отзыв в корпорацию Майкрос
pgAdmin 4
File Object Tools Edit View Window Help
Object Explo
lab2/postgres@PostgreSQL 17*
lab2/postgres@PostgreSQL 17
No limit
Query Query History
SELECT first_name,
CASE
WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 18 AND 35 T
WHEN EXTRACT(YEAR FROM AGE(date_of_birth)) BETWEEN 36 AND 55 T
ELSE 'Other'
END AS age_group
FROM passengers;
Indexes
RLS Policies
Rules
Triggers
baggage
baggage_check
boarding_pass
booking
booking_flight
employee
flights
passengers
Columns (10)
passenger_id
first_name
last_name
date_of_birth
gender
country_of_citizenshi
country_of_residence
passport_number
created_at
updated_at
Constraints
Indexes
RLS Policies
Rules
Triggers
security_check
Trigger Functions
Types
Views
Data Output Messages Notifications
Showing rows: 1 to 10 Page No: 1 of 1
first_name character varying (50)
age_group text
1 Aruzhan Young
2 Dias Young
3 Amina Young
4 Nursultan Young
5 Dana Young
6 Yerbol Young
Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".
Total rows: 10 Query complete 00:00:00.080 CRLF Ln 4, Col 49

8.


Laboratory work 4.docx
kbtuedu.sharepoin...
Laboratory work 4
Режим специальных возможностей
Иммерсивное средство чтения
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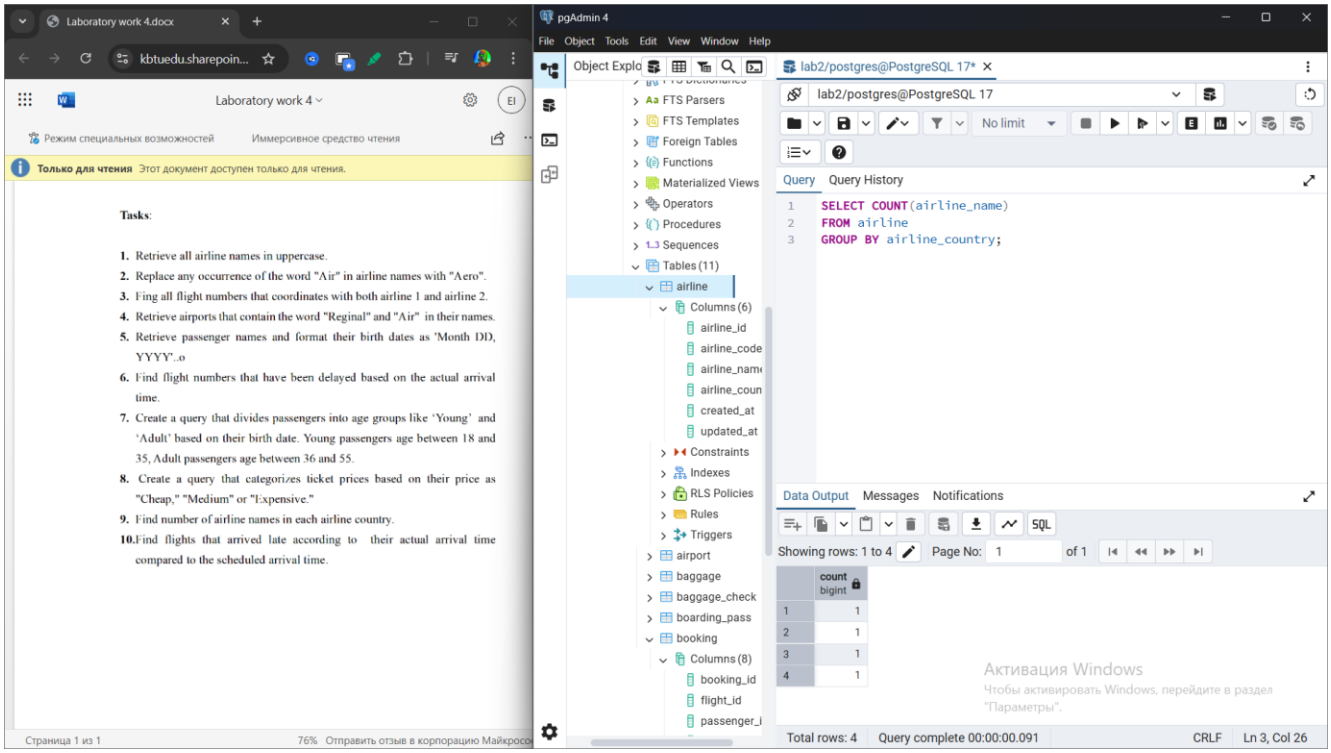
Страница 1 из 1
76% Отправить отзыв в корпорацию Майкрос
pgAdmin 4
File Object Tools Edit View Window Help
Object Explo
lab2/postgres@PostgreSQL 17*
lab2/postgres@PostgreSQL 17
No limit
Query Query History
SELECT ticket_price,
CASE
WHEN ticket_price < 10 THEN 'Cheap'
WHEN ticket_price >= 10 AND ticket_price < 30 THEN 'Medium'
WHEN ticket_price >= 30 THEN 'Expensive'
END AS price_rate
FROM booking;
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Operators
Procedures
Sequences
Tables (11)
airline
airport
baggage
baggage_check
boarding_pass
booking
Columns (8)
booking_id
flight_id
passenger_i
booking_pla
created_at
updated_at
status
ticket_price
Constraints
Indexes
RLS Policies
Rules
Triggers
booking_flight
employee
Data Output Messages Notifications
Showing rows: 1 to 10 Page No: 1 of 1
ticket_price numeric (7,2)
price_rate text
1 50000.00 Expensive
2 65000.00 Expensive
3 72000.00 Expensive
4 28000.00 Expensive
5 90000.00 Expensive
6 75000.00 Expensive
Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".
Total rows: 10 Query complete 00:00:00.079 CRLF Ln 7, Col 13

9.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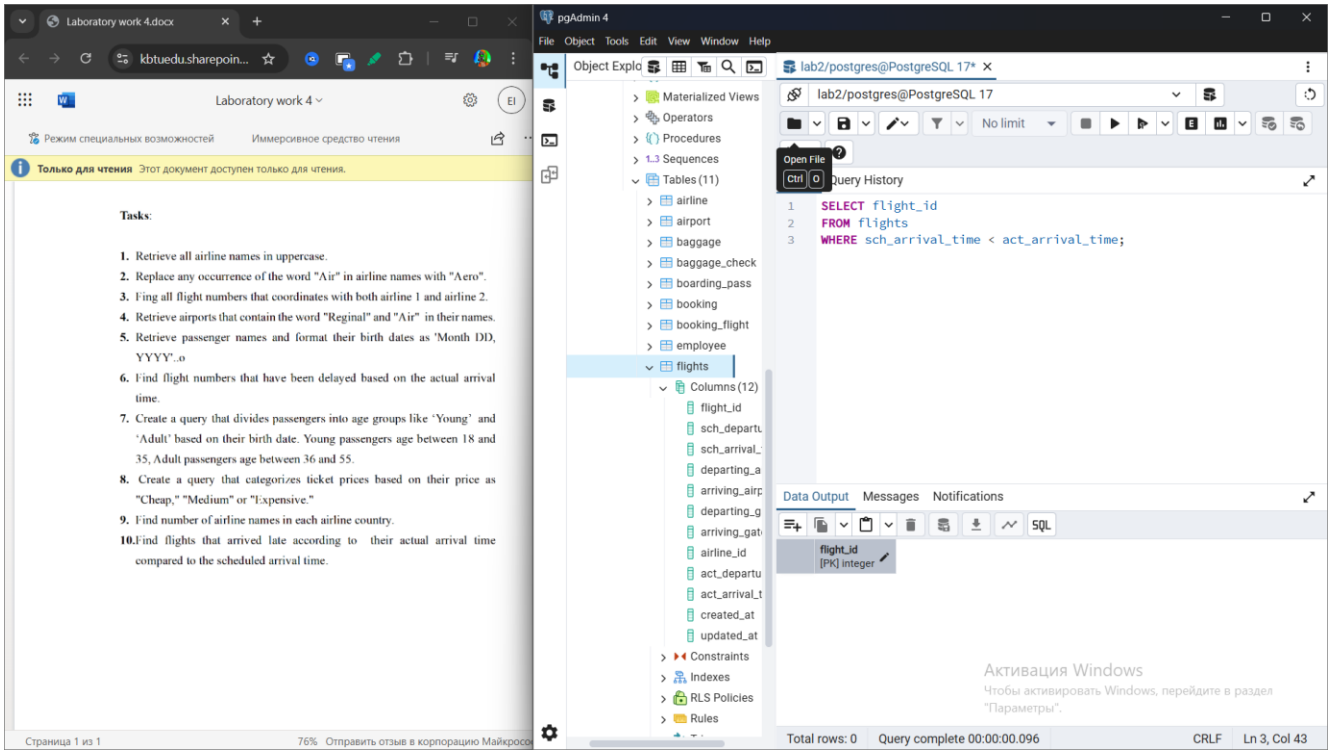
9. Find number of airline names in each airline country.
10. Find flights that arrived late according to their actual arrival time compared to the scheduled arrival time.
pgAdmin 4
lab2/postgres@PostgreSQL 17
SELECT COUNT(airline_name)
FROM airline
GROUP BY airline_country;
Data Output
Messages
Notifications
Total rows: 4
Query complete 00:00:00.091

10.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9. Find number of airline names in each airline country.
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pgAdmin 4
lab2/postgres@PostgreSQL 17
SELECT flight_id
FROM flights
WHERE sch_arrival_time < act_arrival_time;
Data Output
Messages
Notifications
Total rows: 0
Query complete 00:00:00.096