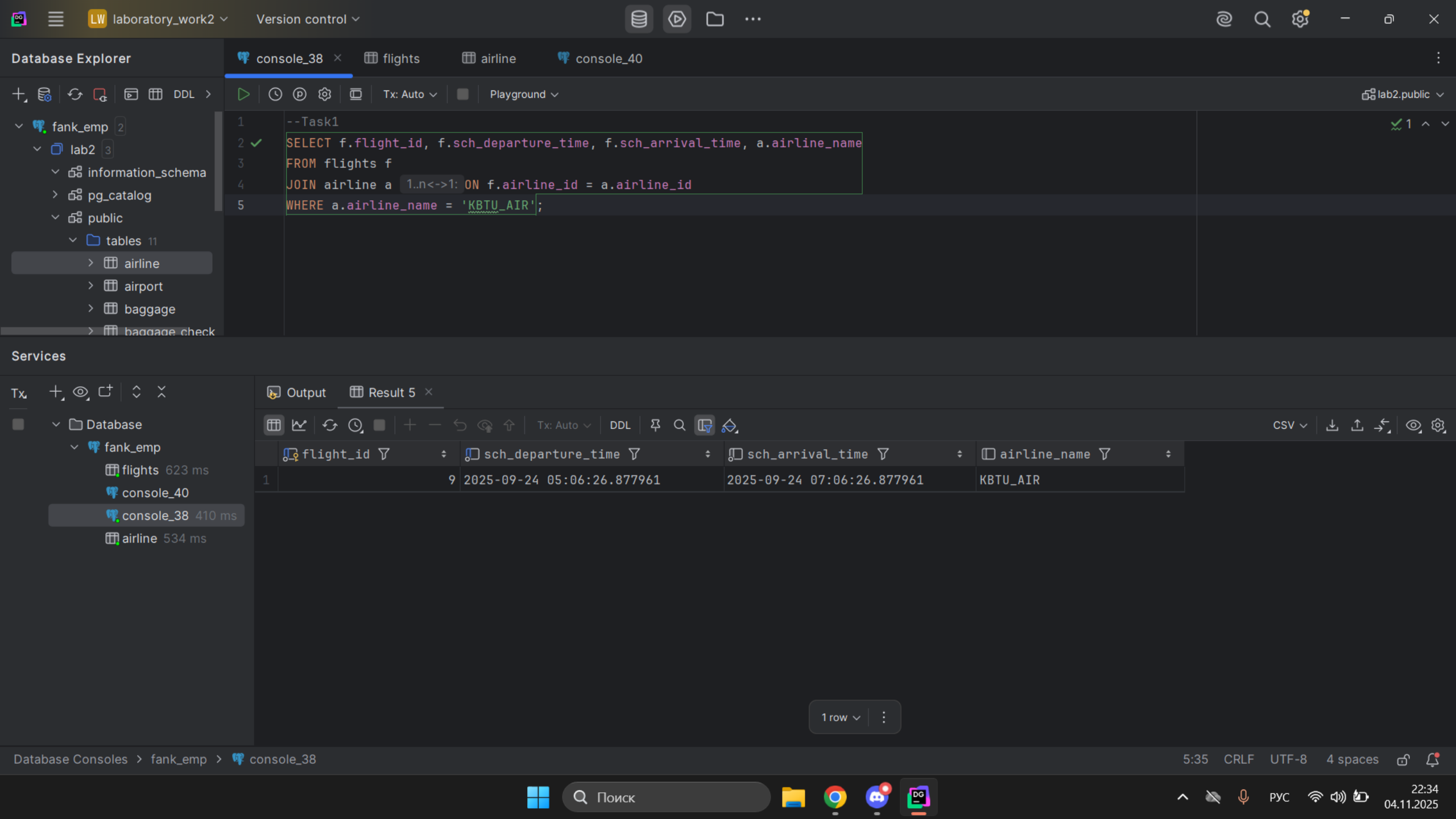
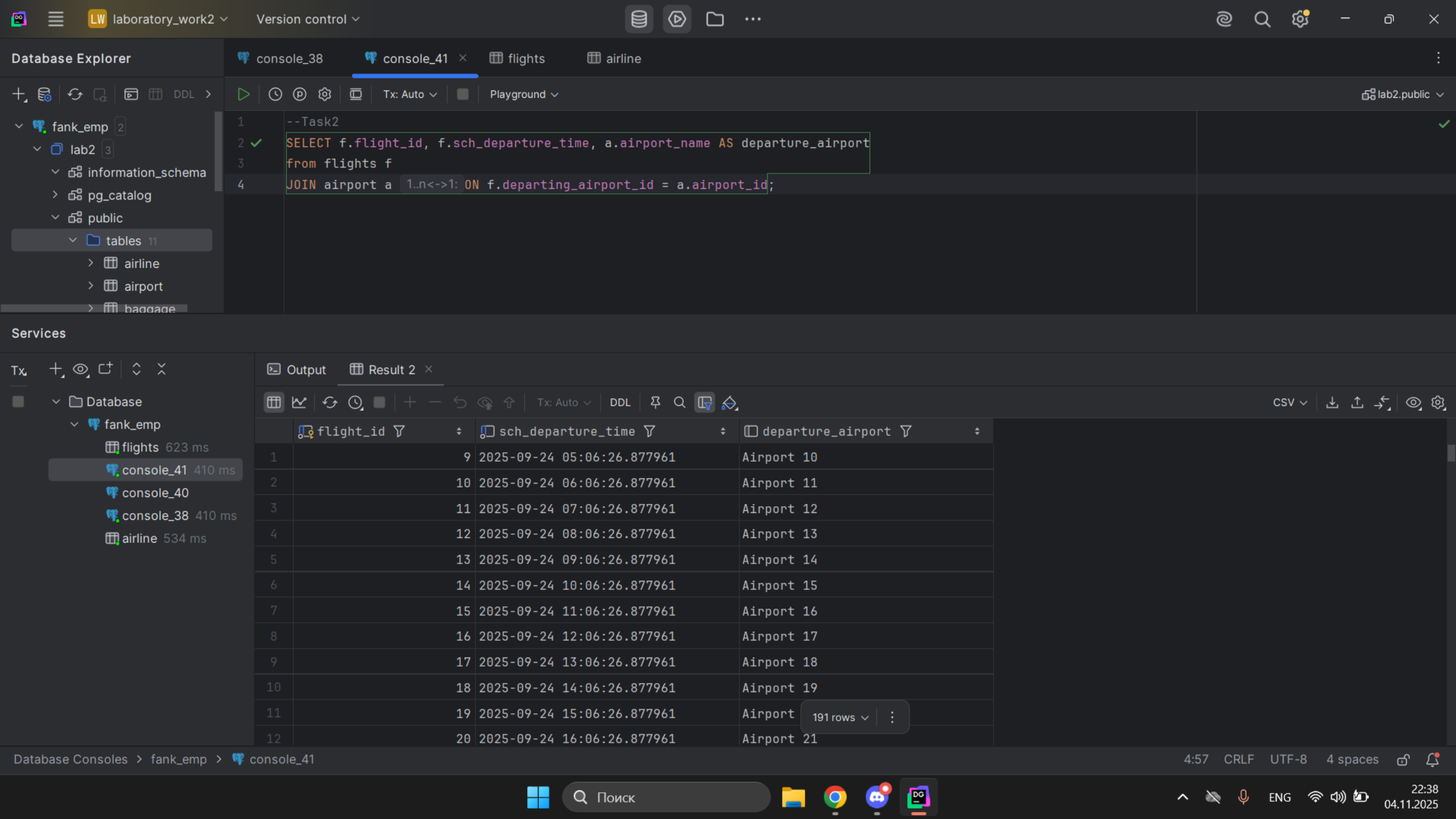
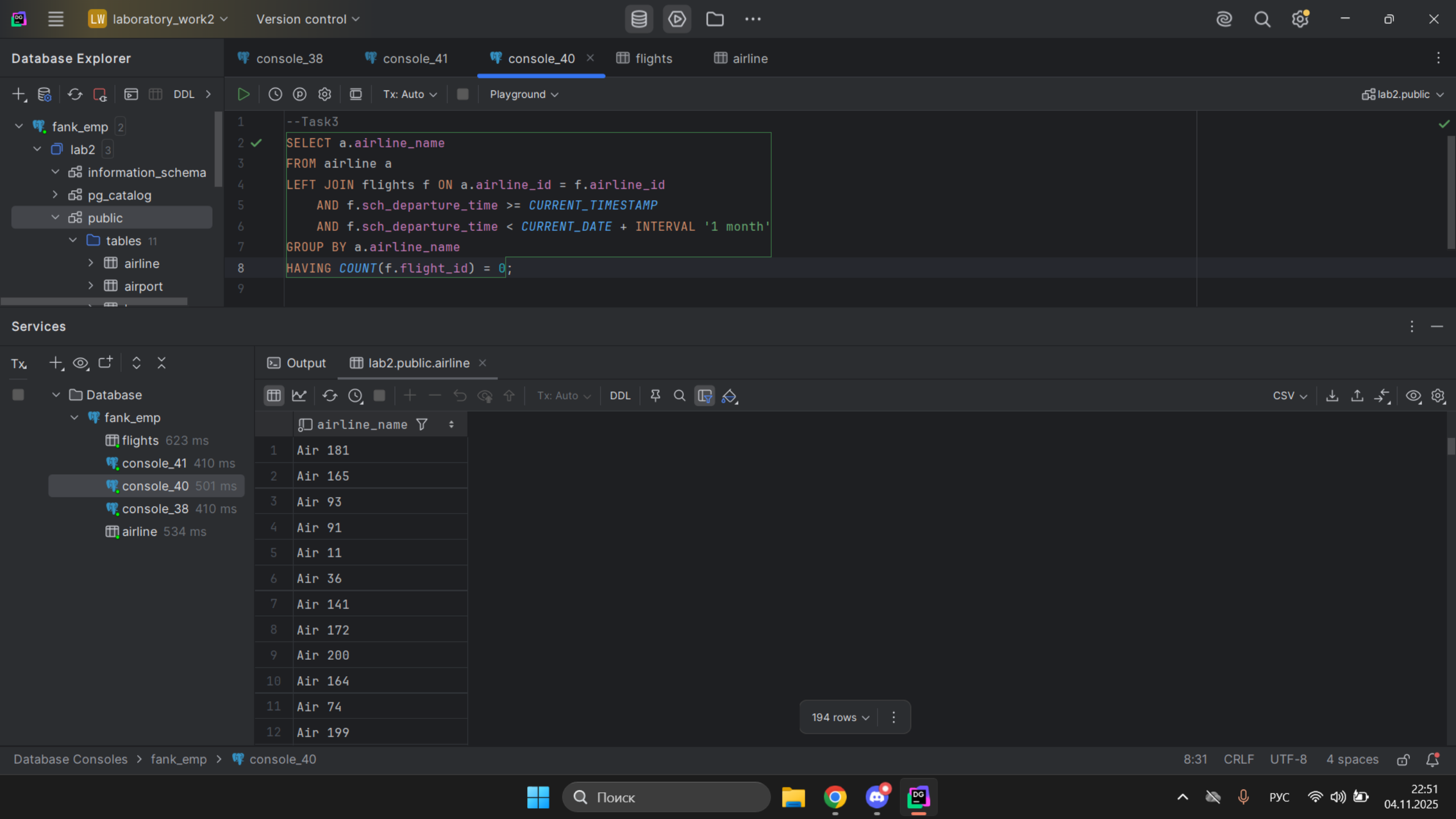
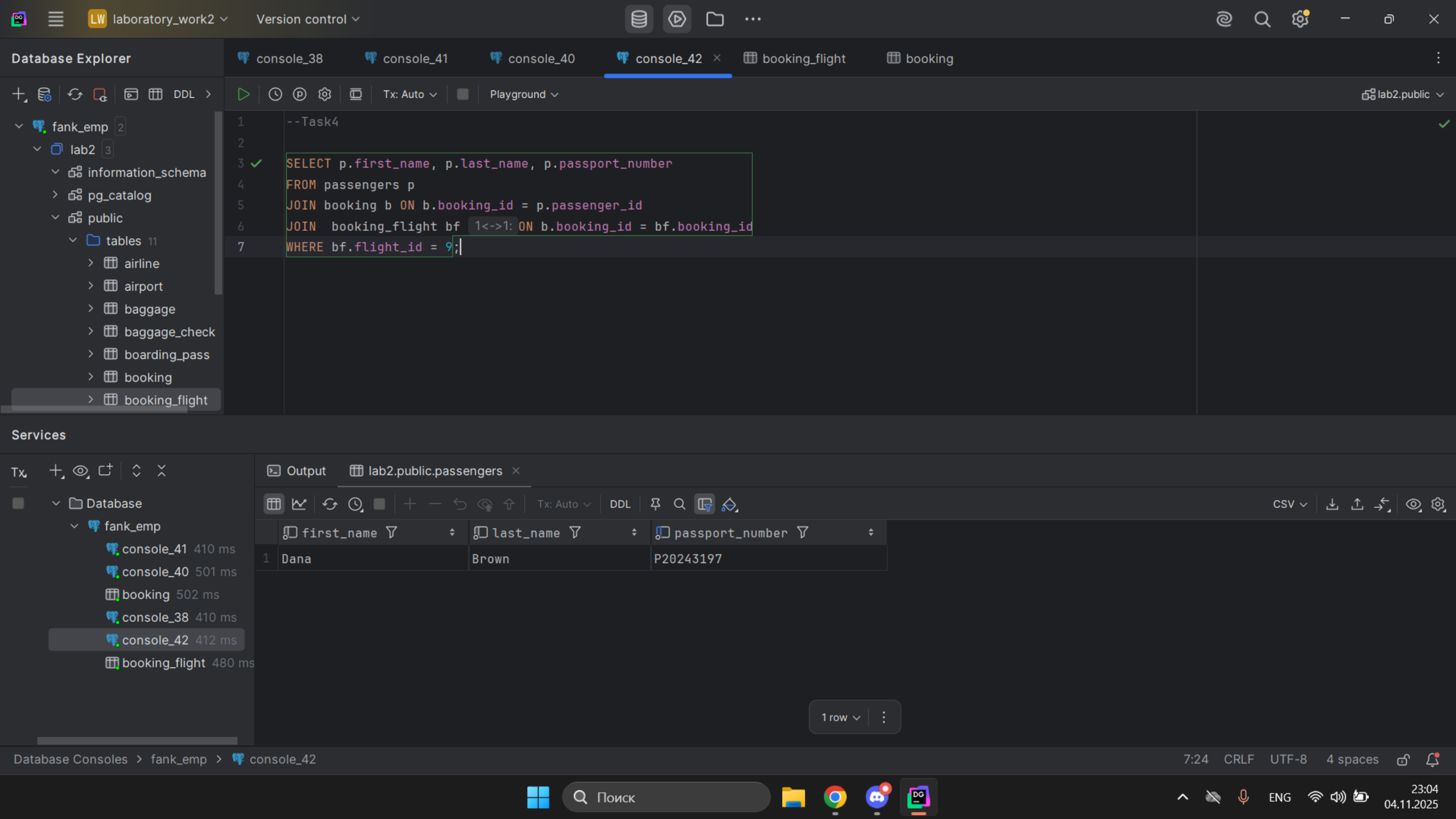
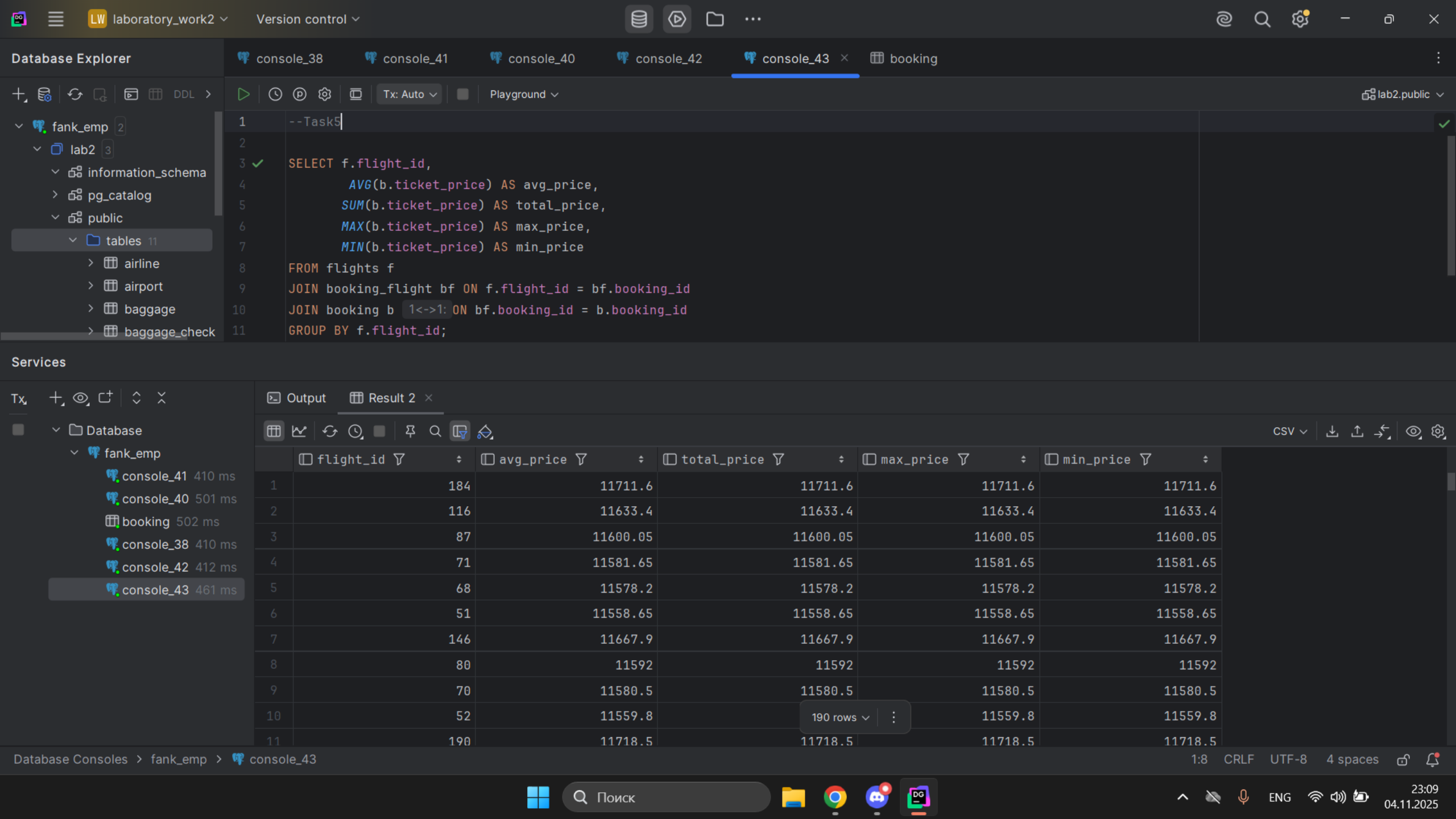
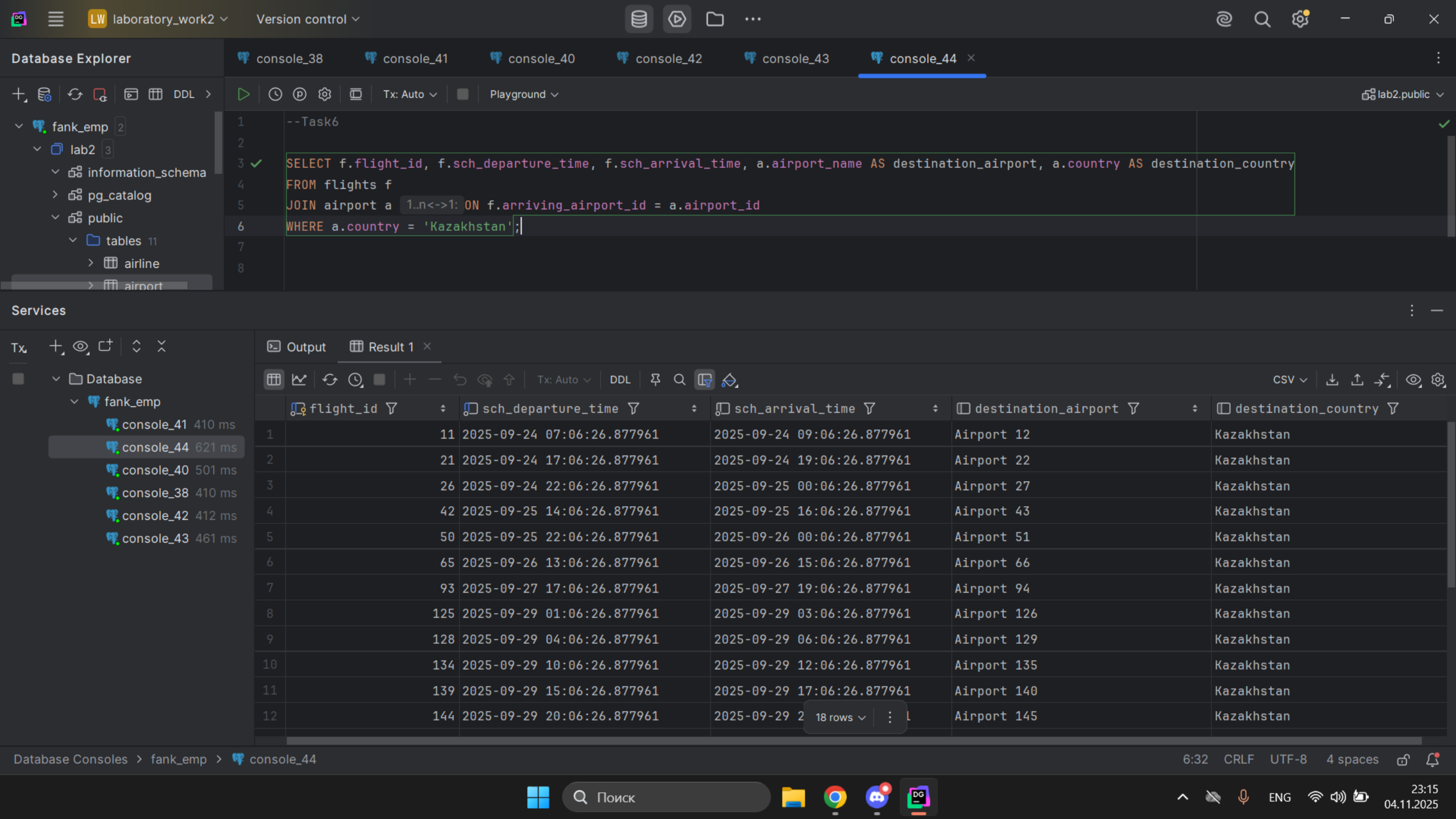

laboratory_work2
Version control
Database Explorer
console_38
flights
airline
console_40
DDL
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
baggage
baggage check
--Task1
SELECT f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airline_name
FROM flights f
JOIN airline a 1..n<->1: ON f.airline_id = a.airline_id
WHERE a.airline_name = 'KBTU_AIR';
Services
Database
fank_emp
flights 623 ms
console_40
console_38 410 ms
airline 534 ms
Output
Result 5
Tx: Auto
DDL
CSV
flight_id
sch_departure_time
sch_arrival_time
airline_name
1
9
2025-09-24 05:06:26.877961
2025-09-24 07:06:26.877961
KBTU_AIR
1 row
Database Consoles
fank_emp
console_38
5:35
CRLF
UTF-8
4 spaces
Поиск
РУС
22:34
04.11.2025

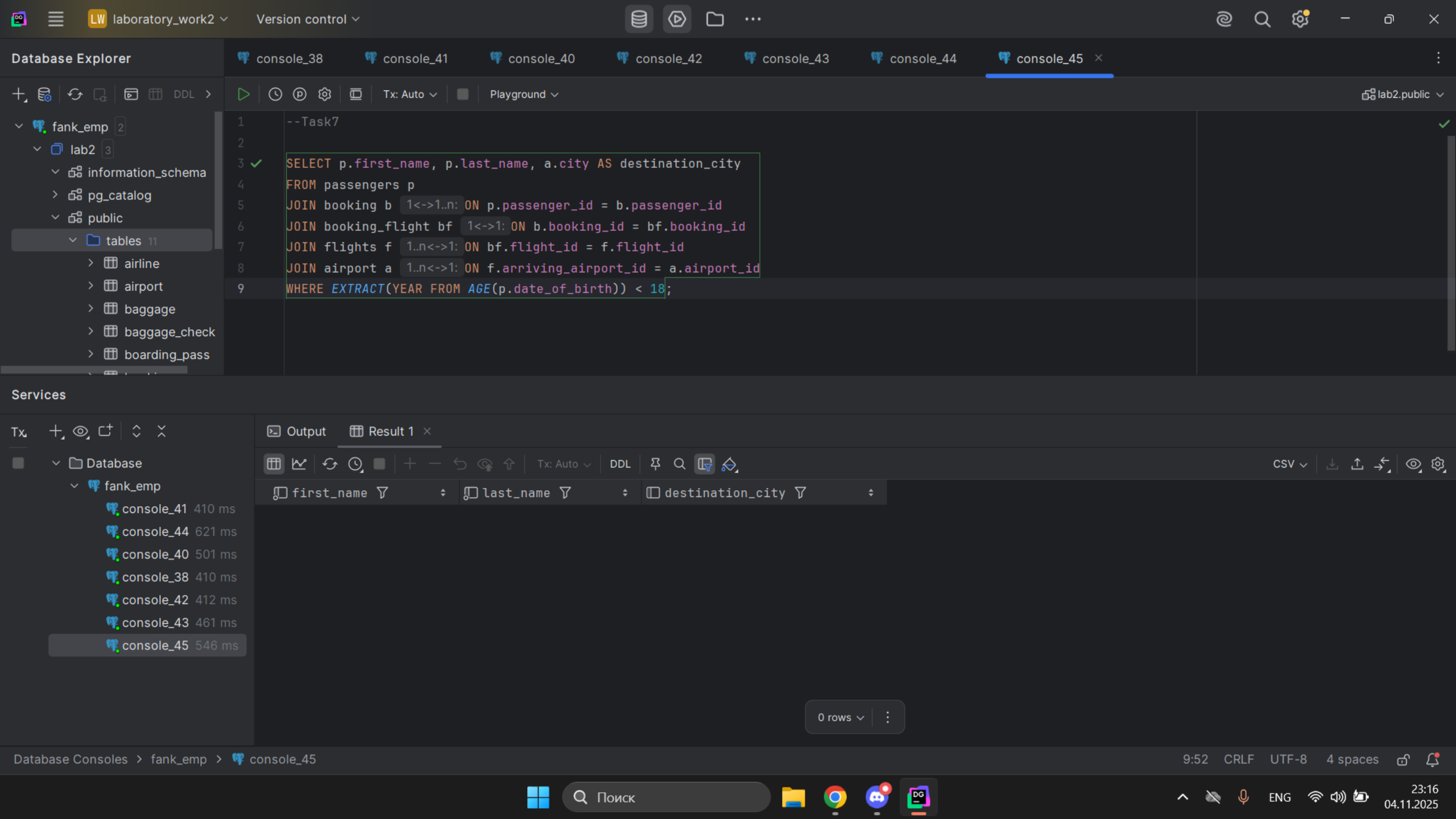

laboratory_work2
Version control
Database Explorer
console_38
console_41
flights
airline
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
baggage
--Task2
SELECT f.flight_id, f.sch_departure_time, a.airport_name AS departure_airport
from flights f
JOIN airport a 1..n<->1: ON f.departing_airport_id = a.airport_id;
Services
Database
fank_emp
flights 623 ms
console_41 410 ms
console_40
console_38 410 ms
airline 534 ms
Output
Result 2
Tx: Auto
DDL
CSV
flight_id
sch_departure_time
departure_airport
1 9 2025-09-24 05:06:26.877961 Airport 10
2 10 2025-09-24 06:06:26.877961 Airport 11
3 11 2025-09-24 07:06:26.877961 Airport 12
4 12 2025-09-24 08:06:26.877961 Airport 13
5 13 2025-09-24 09:06:26.877961 Airport 14
6 14 2025-09-24 10:06:26.877961 Airport 15
7 15 2025-09-24 11:06:26.877961 Airport 16
8 16 2025-09-24 12:06:26.877961 Airport 17
9 17 2025-09-24 13:06:26.877961 Airport 18
10 18 2025-09-24 14:06:26.877961 Airport 19
11 19 2025-09-24 15:06:26.877961 Airport
12 20 2025-09-24 16:06:26.877961 Airport 21
191 rows
Database Consoles
fank_emp
console_41
4:57
CRLF
UTF-8
4 spaces
Поиск
ENG
22:38
04.11.2025

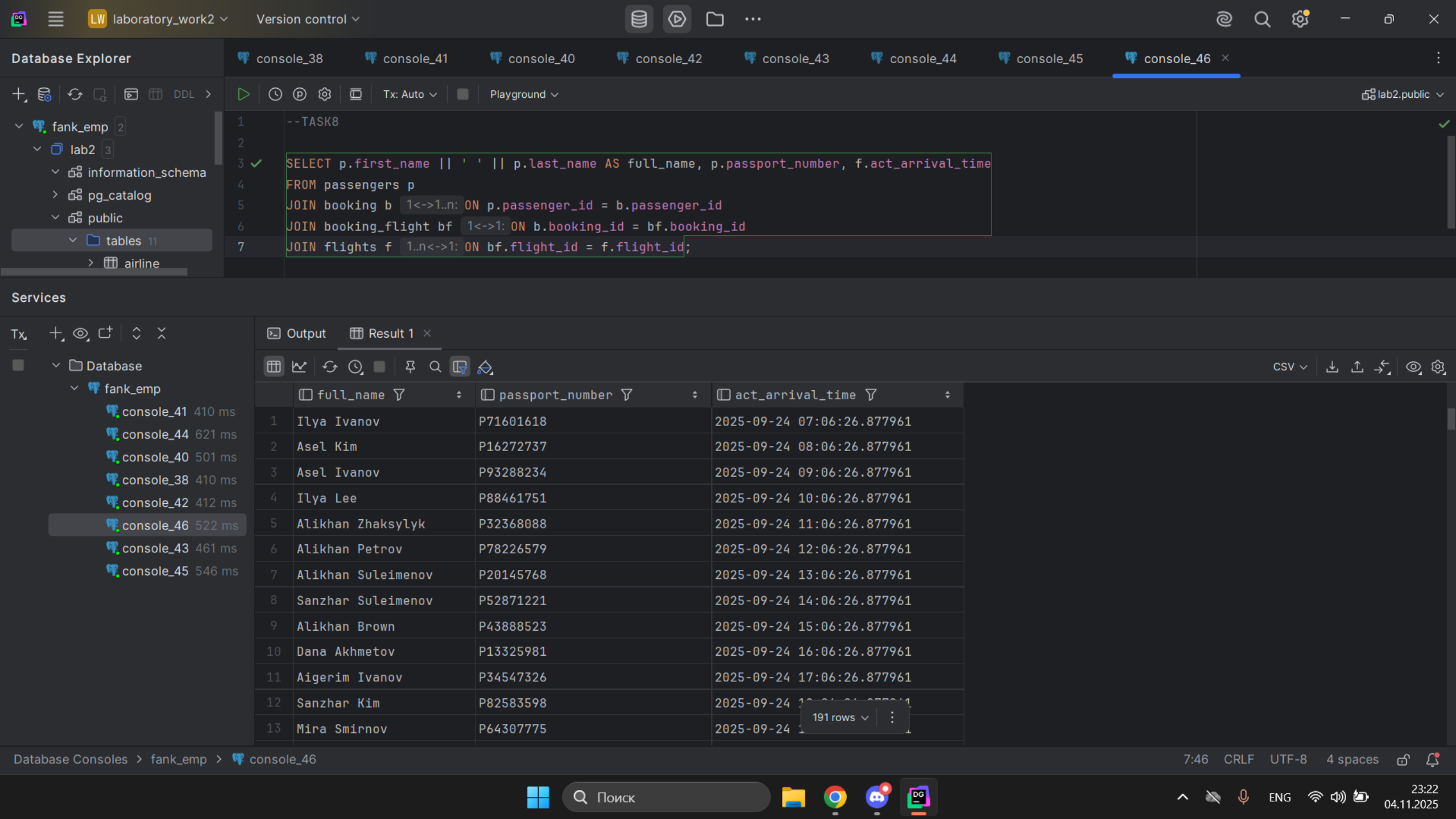

laboratory_work2
Version control
Database Explorer
console_38
console_41
console_40
flights
airline
DDL
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
--Task3
SELECT a.airline_name
FROM airline a
LEFT JOIN flights f ON a.airline_id = f.airline_id
AND f.sch_departure_time >= CURRENT_TIMESTAMP
AND f.sch_departure_time < CURRENT_DATE + INTERVAL '1 month'
GROUP BY a.airline_name
HAVING COUNT(f.flight_id) = 0;
Services
Output
lab2.public.airline
Tx: Auto
DDL
CSV
Database
fank_emp
flights 623 ms
console_41 410 ms
console_40 501 ms
console_38 410 ms
airline 534 ms
airline_name
1 Air 181
2 Air 165
3 Air 93
4 Air 91
5 Air 11
6 Air 36
7 Air 141
8 Air 172
9 Air 200
10 Air 164
11 Air 74
12 Air 199
194 rows
Database Consoles
fank_emp
console_40
8:31
CRLF
UTF-8
4 spaces
Поиск
РУС
22:51
04.11.2025

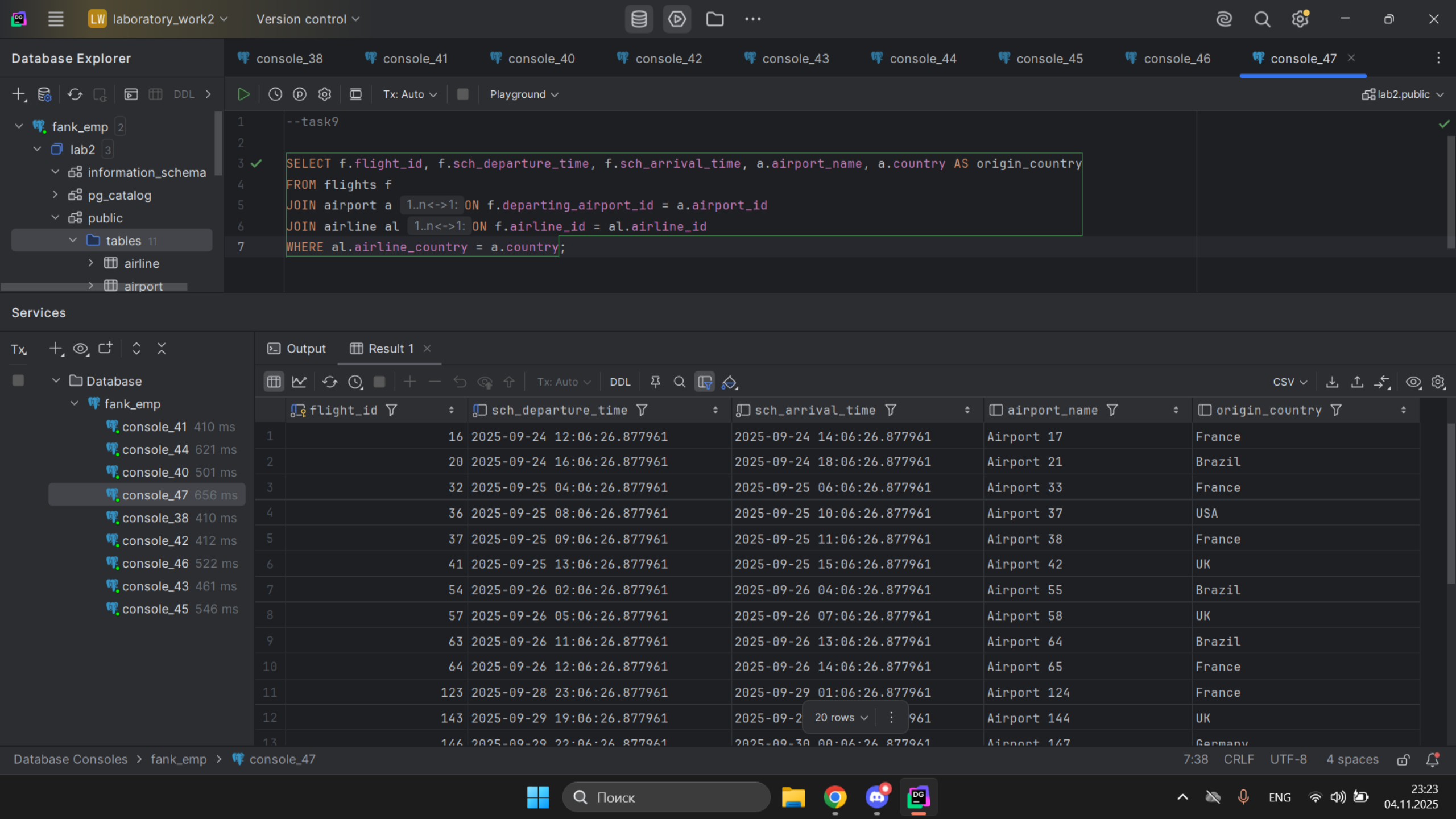

laboratory_work2
Version control
Database Explorer
console_38
console_41
console_40
console_42
booking_flight
booking
DDL
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
baggage
baggage_check
boarding_pass
booking
booking_flight
--Task4
SELECT p.first_name, p.last_name, p.passport_number
FROM passengers p
JOIN booking b ON b.booking_id = p.passenger_id
JOIN booking_flight bf 1<->1: ON b.booking_id = bf.booking_id
WHERE bf.flight_id = 9;
Services
Tx:
Database
fank_emp
console_41 410 ms
console_40 501 ms
booking 502 ms
console_38 410 ms
console_42 412 ms
booking_flight 480 ms
Output
lab2.public.passengers
Tx: Auto
DDL
CSV
first_name
last_name
passport_number
1
Dana
Brown
P20243197
1 row
Database Consoles
fank_emp
console_42
7:24
CRLF
UTF-8
4 spaces
Поиск
ENG
23:04
04.11.2025


laboratory_work2
Version control
Database Explorer
console_38
console_41
console_40
console_42
console_43
booking
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
baggage
baggage_check
--Task5
SELECT f.flight_id,
AVG(b.ticket_price) AS avg_price,
SUM(b.ticket_price) AS total_price,
MAX(b.ticket_price) AS max_price,
MIN(b.ticket_price) AS min_price
FROM flights f
JOIN booking_flight bf ON f.flight_id = bf.booking_id
JOIN booking b 1<->1 ON bf.booking_id = b.booking_id
GROUP BY f.flight_id;
Services
Output
Result 2
CSV
Database
fank_emp
console_41 410 ms
console_40 501 ms
booking 502 ms
console_38 410 ms
console_42 412 ms
console_43 461 ms
flight_id
avg_price
total_price
max_price
min_price
1 184 11711.6 11711.6 11711.6 11711.6
2 116 11633.4 11633.4 11633.4 11633.4
3 87 11600.05 11600.05 11600.05 11600.05
4 71 11581.65 11581.65 11581.65 11581.65
5 68 11578.2 11578.2 11578.2 11578.2
6 51 11558.65 11558.65 11558.65 11558.65
7 146 11667.9 11667.9 11667.9 11667.9
8 80 11592 11592 11592 11592
9 70 11580.5 11580.5 11580.5 11580.5
10 52 11559.8 11559.8 11559.8 11559.8
11 190 11718.5 11718.5 11718.5 11718.5
190 rows
Database Consoles
fank_emp
console_43
1:8
CRLF
UTF-8
4 spaces
Поиск
ENG
23:09
04.11.2025


laboratory_work2
Version control
Database Explorer
console_38
console_41
console_40
console_42
console_43
console_44
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
--Task6
SELECT f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airport_name AS destination_airport, a.country AS destination_country
FROM flights f
JOIN airport a 1..n<->1: ON f.arriving_airport_id = a.airport_id
WHERE a.country = 'Kazakhstan';
Services
Output
Result 1
Tx: Auto
DDL
CSV
Database
fank_emp
console_41 410 ms
console_44 621 ms
console_40 501 ms
console_38 410 ms
console_42 412 ms
console_43 461 ms
flight_id
sch_departure_time
sch_arrival_time
destination_airport
destination_country
1 11 2025-09-24 07:06:26.877961 2025-09-24 09:06:26.877961 Airport 12 Kazakhstan
2 21 2025-09-24 17:06:26.877961 2025-09-24 19:06:26.877961 Airport 22 Kazakhstan
3 26 2025-09-24 22:06:26.877961 2025-09-25 00:06:26.877961 Airport 27 Kazakhstan
4 42 2025-09-25 14:06:26.877961 2025-09-25 16:06:26.877961 Airport 43 Kazakhstan
5 50 2025-09-25 22:06:26.877961 2025-09-26 00:06:26.877961 Airport 51 Kazakhstan
6 65 2025-09-26 13:06:26.877961 2025-09-26 15:06:26.877961 Airport 66 Kazakhstan
7 93 2025-09-27 17:06:26.877961 2025-09-27 19:06:26.877961 Airport 94 Kazakhstan
8 125 2025-09-29 01:06:26.877961 2025-09-29 03:06:26.877961 Airport 126 Kazakhstan
9 128 2025-09-29 04:06:26.877961 2025-09-29 06:06:26.877961 Airport 129 Kazakhstan
10 134 2025-09-29 10:06:26.877961 2025-09-29 12:06:26.877961 Airport 135 Kazakhstan
11 139 2025-09-29 15:06:26.877961 2025-09-29 17:06:26.877961 Airport 140 Kazakhstan
12 144 2025-09-29 20:06:26.877961 2025-09-29 2 Airport 145 Kazakhstan
18 rows
Database Consoles > fank_emp > console_44
6:32 CRLF UTF-8 4 spaces
Поиск
ENG
23:15
04.11.2025


laboratory_work2
Version control
Database Explorer
console_38
console_41
console_40
console_42
console_43
console_44
console_45
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
baggage
baggage_check
boarding_pass
--Task7
SELECT p.first_name, p.last_name, a.city AS destination_city
FROM passengers p
JOIN booking b 1<->1..n: ON p.passenger_id = b.passenger_id
JOIN booking_flight bf 1<->1: ON b.booking_id = bf.booking_id
JOIN flights f 1..n<->1: ON bf.flight_id = f.flight_id
JOIN airport a 1..n<->1: ON f.arriving_airport_id = a.airport_id
WHERE EXTRACT(YEAR FROM AGE(p.date_of_birth)) < 18;
Services
Database
fank_emp
console_41 410 ms
console_44 621 ms
console_40 501 ms
console_38 410 ms
console_42 412 ms
console_43 461 ms
console_45 546 ms
Output
Result 1
Tx: Auto
DDL
CSV
first_name
last_name
destination_city
0 rows
Database Consoles
fank_emp
console_45
9:52
CRLF
UTF-8
4 spaces
Поиск
ENG
23:16
04.11.2025


laboratory_work2
Version control
Database Explorer
console_38
console_41
console_40
console_42
console_43
console_44
console_45
console_46
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
--TASK8
SELECT p.first_name || ' ' || p.last_name AS full_name, p.passport_number, f.act_arrival_time
FROM passengers p
JOIN booking b 1<->1..n: ON p.passenger_id = b.passenger_id
JOIN booking_flight bf 1<->1: ON b.booking_id = bf.booking_id
JOIN flights f 1..n<->1: ON bf.flight_id = f.flight_id;
Services
Output
Result 1
CSV
Database
fank_emp
console_41 410 ms
console_44 621 ms
console_40 501 ms
console_38 410 ms
console_42 412 ms
console_46 522 ms
console_43 461 ms
console_45 546 ms
full_name
passport_number
act_arrival_time
1 Ilya Ivanov P71601618 2025-09-24 07:06:26.877961
2 Asel Kim P16272737 2025-09-24 08:06:26.877961
3 Asel Ivanov P93288234 2025-09-24 09:06:26.877961
4 Ilya Lee P88461751 2025-09-24 10:06:26.877961
5 Alikhan Zhaksylyk P32368088 2025-09-24 11:06:26.877961
6 Alikhan Petrov P78226579 2025-09-24 12:06:26.877961
7 Alikhan Suleimenov P20145768 2025-09-24 13:06:26.877961
8 Sanzhar Suleimenov P52871221 2025-09-24 14:06:26.877961
9 Alikhan Brown P43888523 2025-09-24 15:06:26.877961
10 Dana Akhmetov P13325981 2025-09-24 16:06:26.877961
11 Aigerim Ivanov P34547326 2025-09-24 17:06:26.877961
12 Sanzhar Kim P82583598
13 Mira Smirnov P64307775
191 rows
Database Consoles
fank_emp
console_46
7:46
CRLF
UTF-8
4 spaces
Поиск
ENG
23:22
04.11.2025


laboratory_work2
Version control
Database Explorer
console_38
console_41
console_40
console_42
console_43
console_44
console_45
console_46
console_47
Tx: Auto
Playground
lab2.public
fank_emp 2
lab2 3
information_schema
pg_catalog
public
tables 11
airline
airport
--task9
SELECT f.flight_id, f.sch_departure_time, f.sch_arrival_time, a.airport_name, a.country AS origin_country
FROM flights f
JOIN airport a 1..n<->1: ON f.departing_airport_id = a.airport_id
JOIN airline al 1..n<->1: ON f.airline_id = al.airline_id
WHERE al.airline_country = a.country;
Services
Database
fank_emp
console_41 410 ms
console_44 621 ms
console_40 501 ms
console_47 656 ms
console_38 410 ms
console_42 412 ms
console_46 522 ms
console_43 461 ms
console_45 546 ms
Output
Result 1
Tx: Auto
DDL
CSV
flight_id
sch_departure_time
sch_arrival_time
airport_name
origin_country
1 16 2025-09-24 12:06:26.877961 2025-09-24 14:06:26.877961 Airport 17 France
2 20 2025-09-24 16:06:26.877961 2025-09-24 18:06:26.877961 Airport 21 Brazil
3 32 2025-09-25 04:06:26.877961 2025-09-25 06:06:26.877961 Airport 33 France
4 36 2025-09-25 08:06:26.877961 2025-09-25 10:06:26.877961 Airport 37 USA
5 37 2025-09-25 09:06:26.877961 2025-09-25 11:06:26.877961 Airport 38 France
6 41 2025-09-25 13:06:26.877961 2025-09-25 15:06:26.877961 Airport 42 UK
7 54 2025-09-26 02:06:26.877961 2025-09-26 04:06:26.877961 Airport 55 Brazil
8 57 2025-09-26 05:06:26.877961 2025-09-26 07:06:26.877961 Airport 58 UK
9 63 2025-09-26 11:06:26.877961 2025-09-26 13:06:26.877961 Airport 64 Brazil
10 64 2025-09-26 12:06:26.877961 2025-09-26 14:06:26.877961 Airport 65 France
11 123 2025-09-28 23:06:26.877961 2025-09-29 01:06:26.877961 Airport 124 France
12 143 2025-09-29 19:06:26.877961 2025-09-2 961 Airport 144 UK
20 rows
Database Consoles
fank_emp
console_47
7:38
CRLF
UTF-8
4 spaces
Поиск
ENG
23:23
04.11.2025