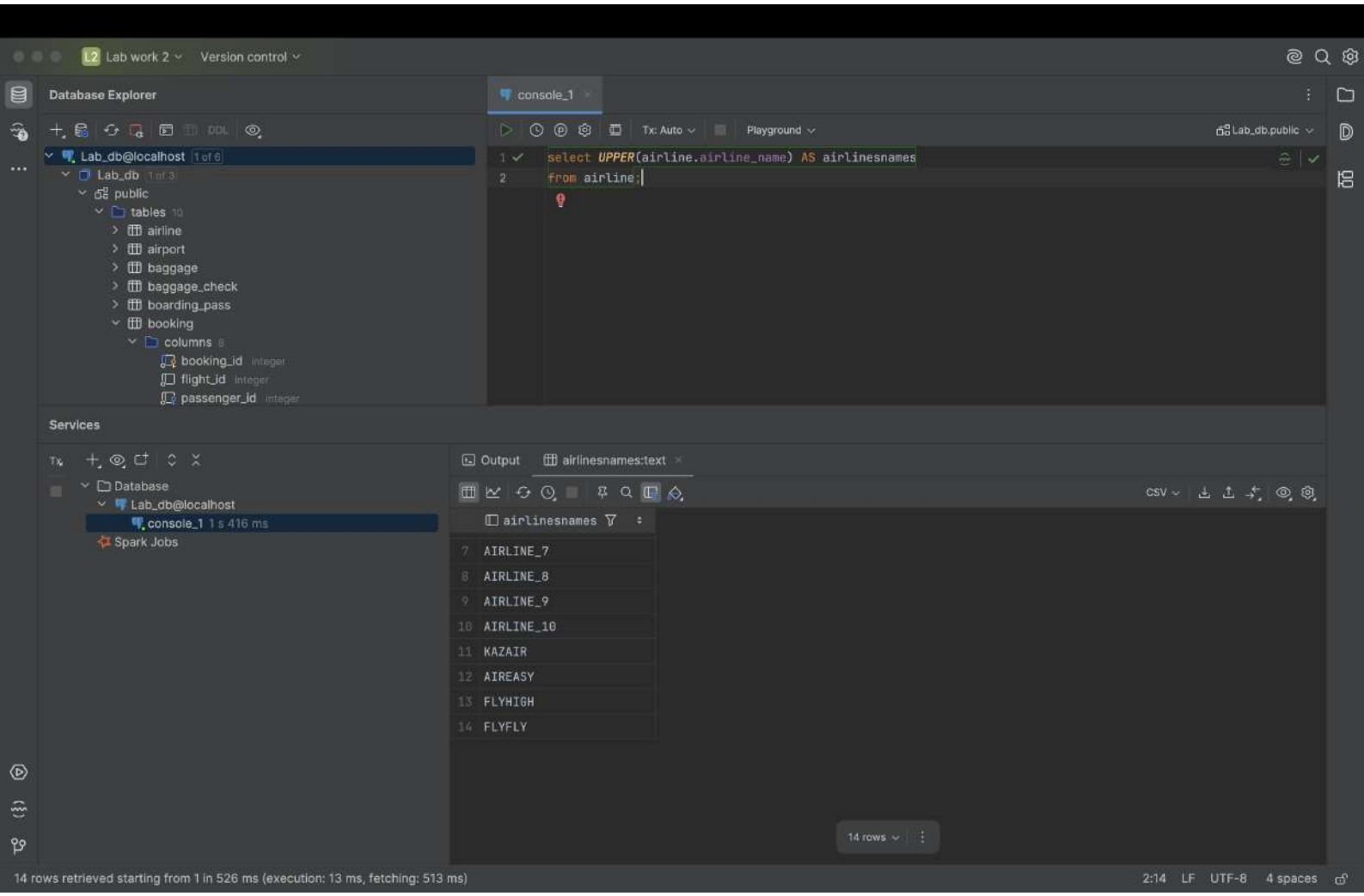
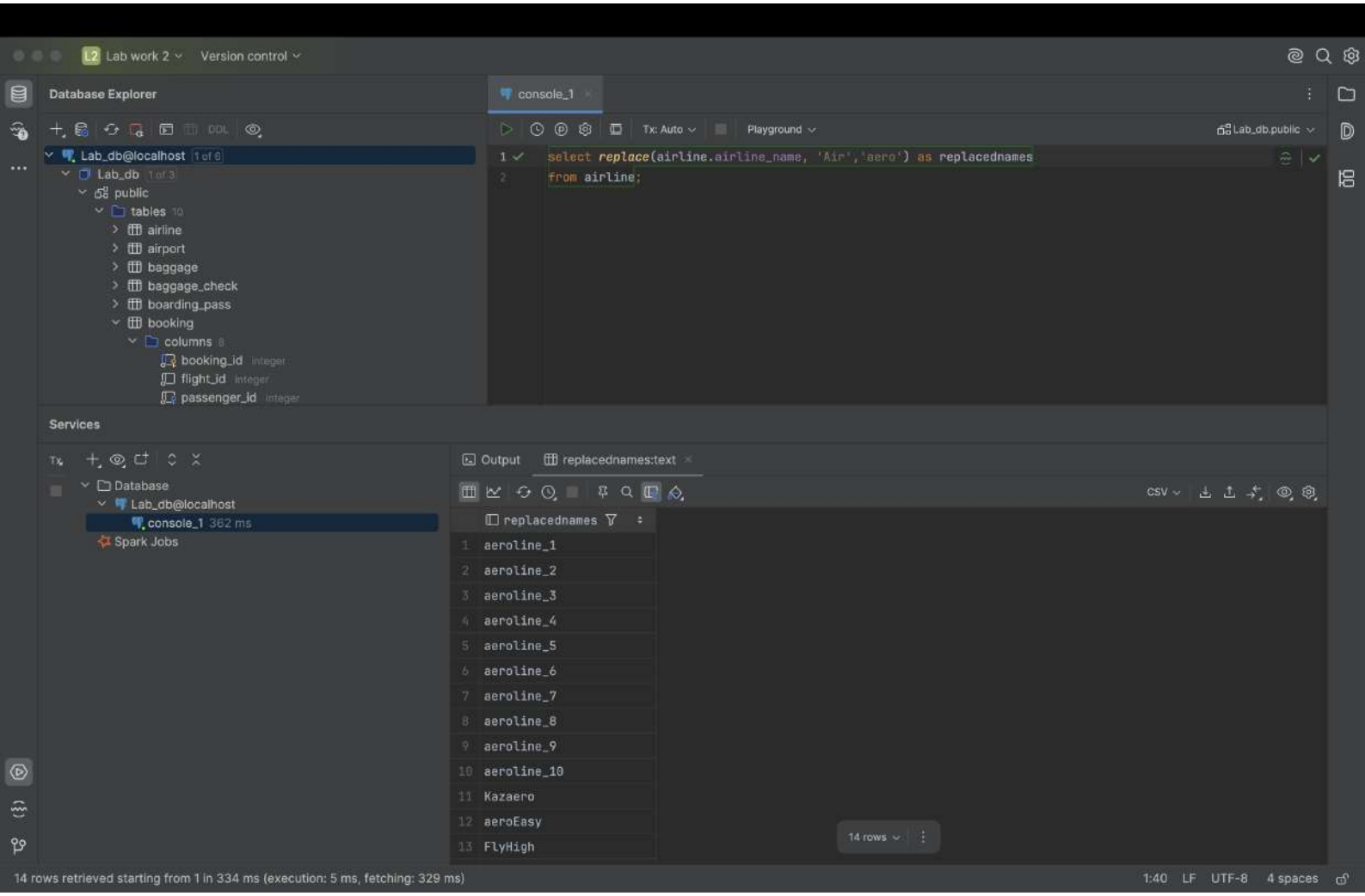
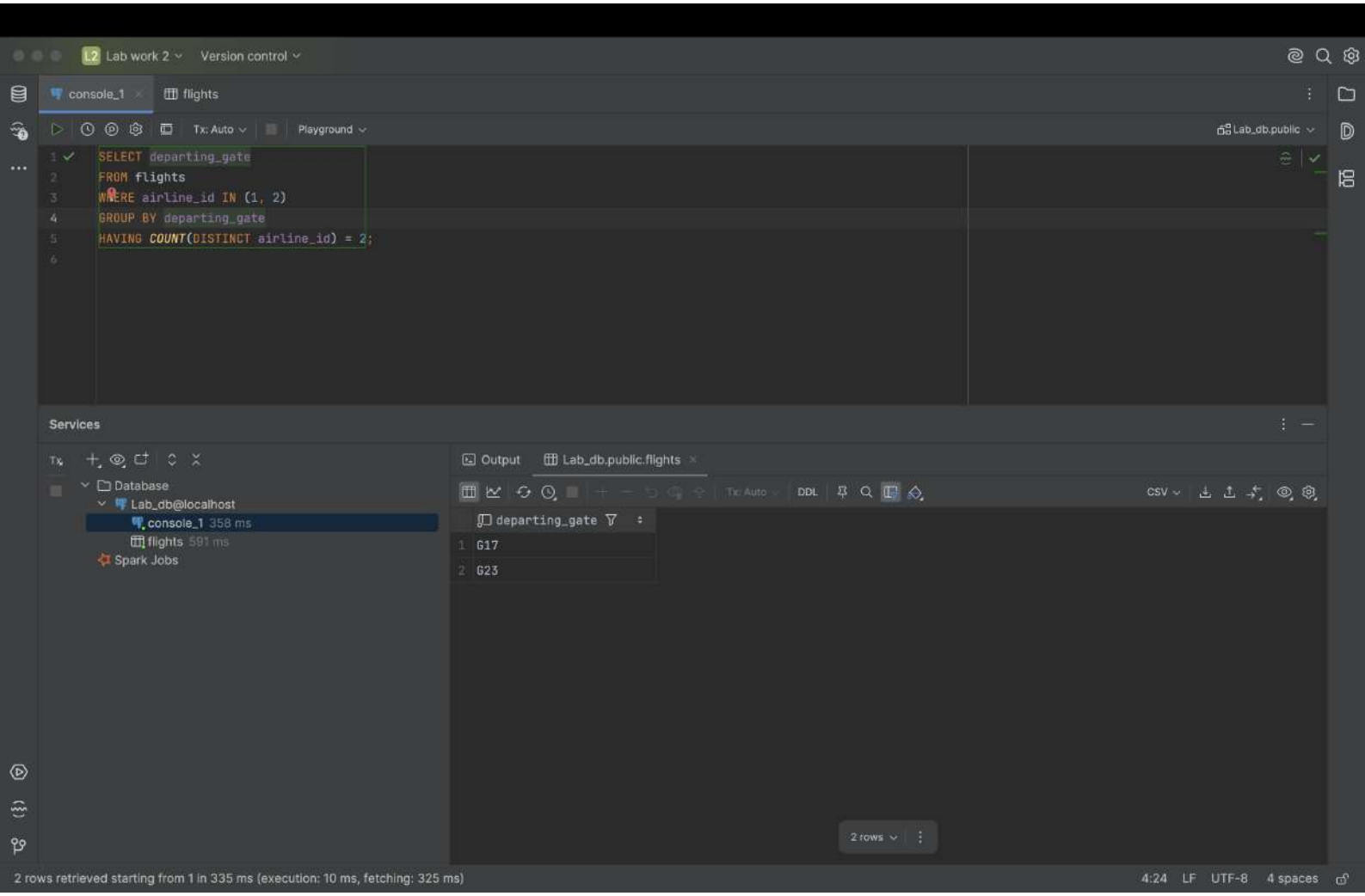
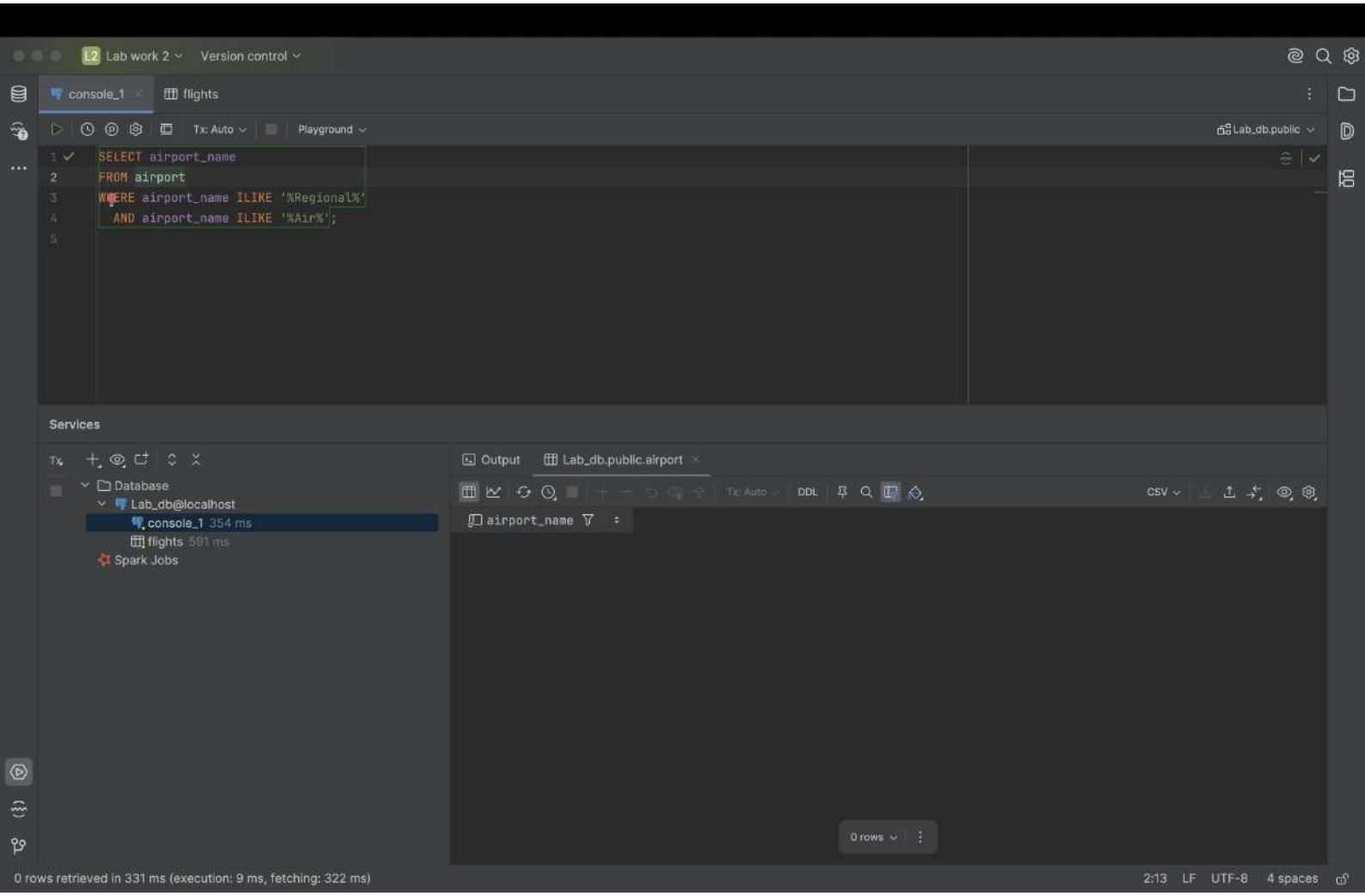
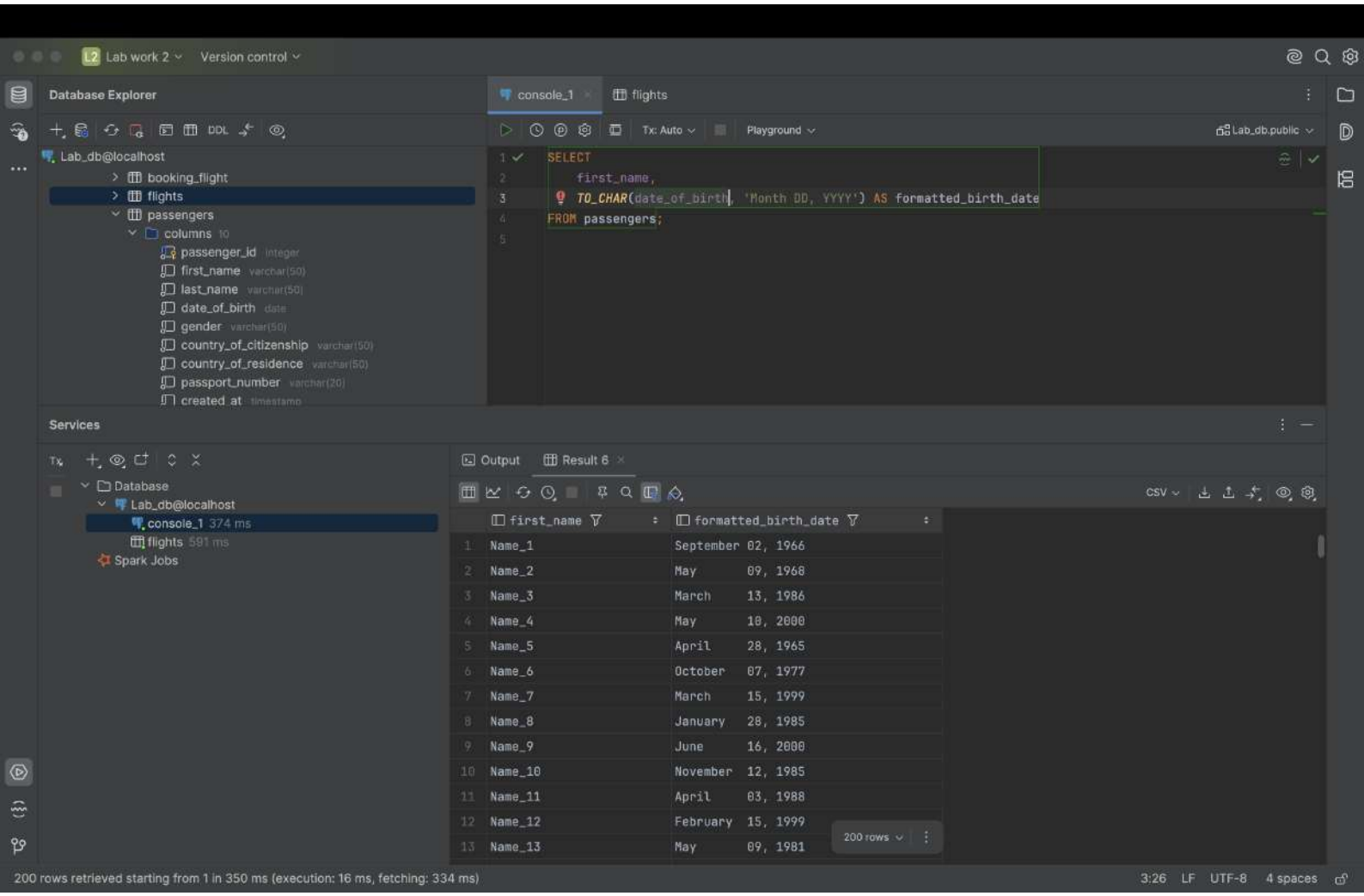
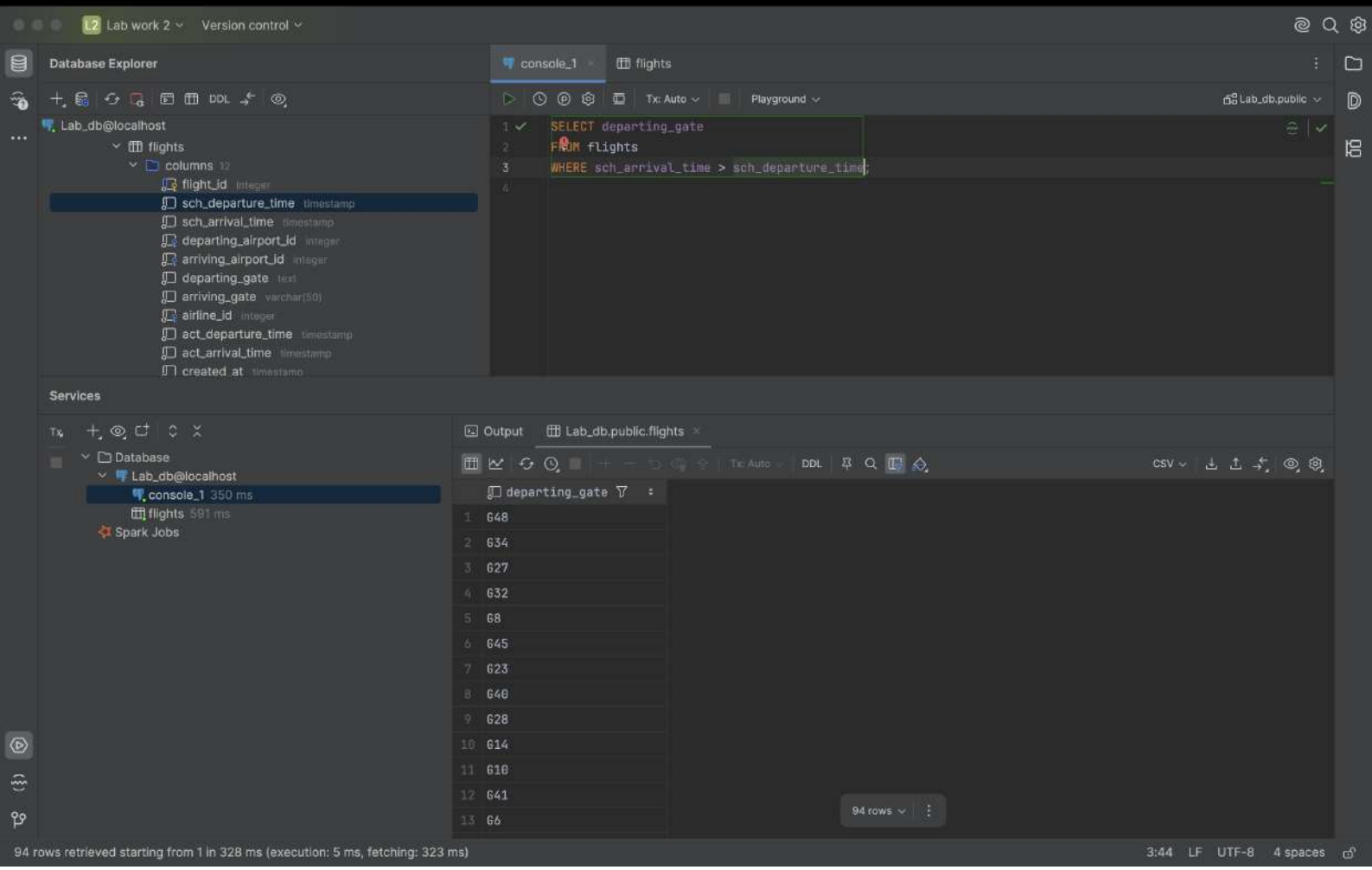

Lab work 2
Version control
Database Explorer
console_1
Tx: Auto
Playground
Lab_db.public
Lab_db@localhost 1 of 6
Lab_db 1 of 3
public
tables 10
airline
airport
baggage
baggage_check
boarding_pass
booking
columns 8
booking_id integer
flight_id integer
passenger_id integer
1 select UPPER(airline.airline_name) AS airlinesnames
2 from airline;
Services
Database
Lab_db@localhost
console_1 1 s 416 ms
Spark Jobs
Output
airlinesnames:text
CSV
airlinesnames
7 AIRLINE_7
8 AIRLINE_8
9 AIRLINE_9
10 AIRLINE_10
11 KAZAIR
12 AIREASY
13 FLYHIGH
14 FLYFLY
14 rows
14 rows retrieved starting from 1 in 526 ms (execution: 13 ms, fetching: 513 ms)
2:14
LF
UTF-8
4 spaces

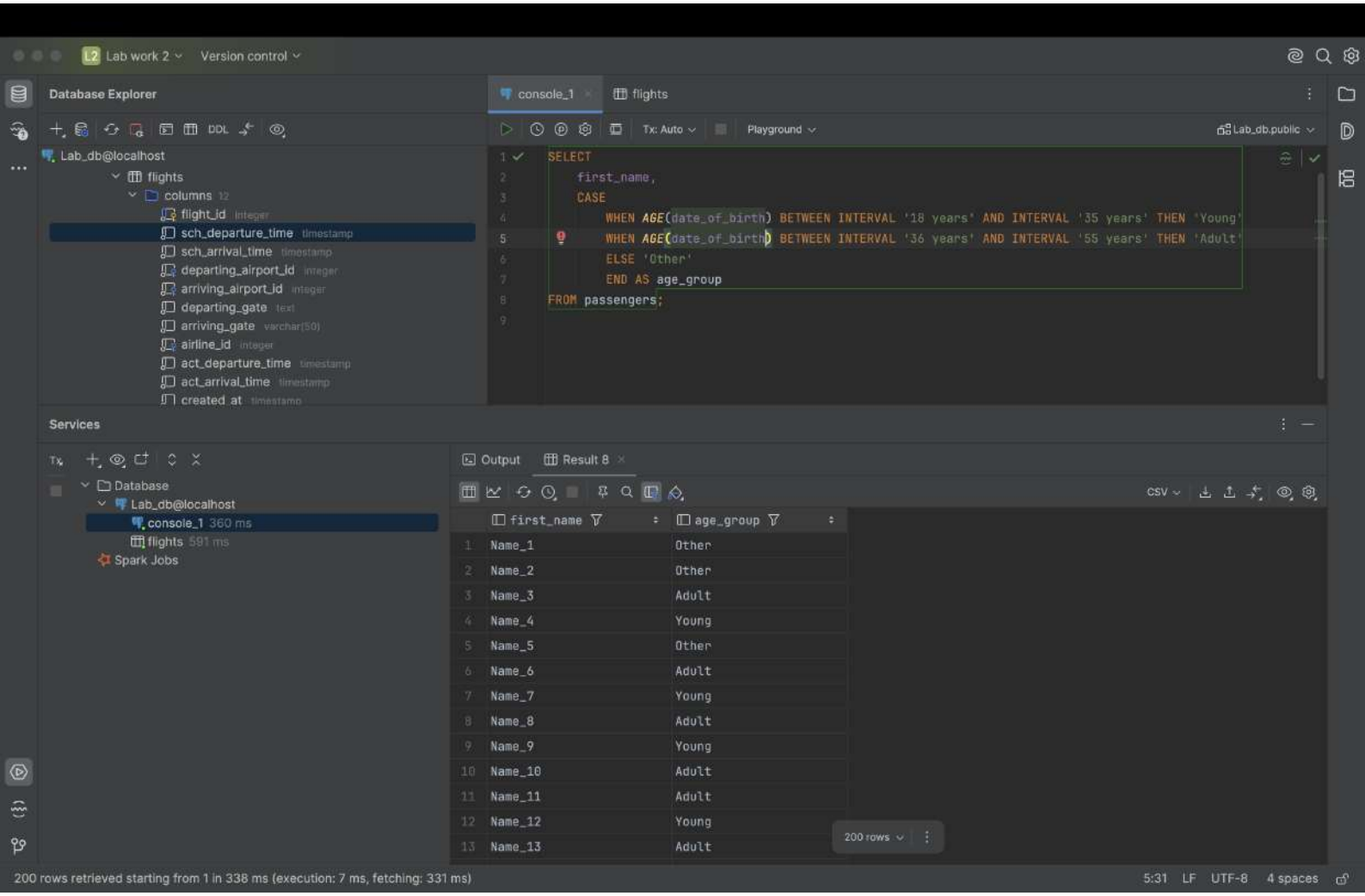

Lab work 2
Version control
Database Explorer
console_1
Tx: Auto
Playground
Lab_db.public
Lab_db@localhost 1 of 6
Lab_db 1 of 3
public
tables 10
airline
airport
baggage
baggage_check
boarding_pass
booking
columns 8
booking_id integer
flight_id integer
passenger_id integer
1 select replace(airline.airline_name, 'Air','aero') as replacednames
2 from airline;
Services
Database
Lab_db@localhost
console_1 362 ms
Spark Jobs
Output
replacednames:text
CSV
replacednames
1 aeroline_1
2 aeroline_2
3 aeroline_3
4 aeroline_4
5 aeroline_5
6 aeroline_6
7 aeroline_7
8 aeroline_8
9 aeroline_9
10 aeroline_10
11 Kazaero
12 aeroEasy
13 FlyHigh
14 rows
14 rows retrieved starting from 1 in 334 ms (execution: 5 ms, fetching: 329 ms)
1:40
LF
UTF-8
4 spaces

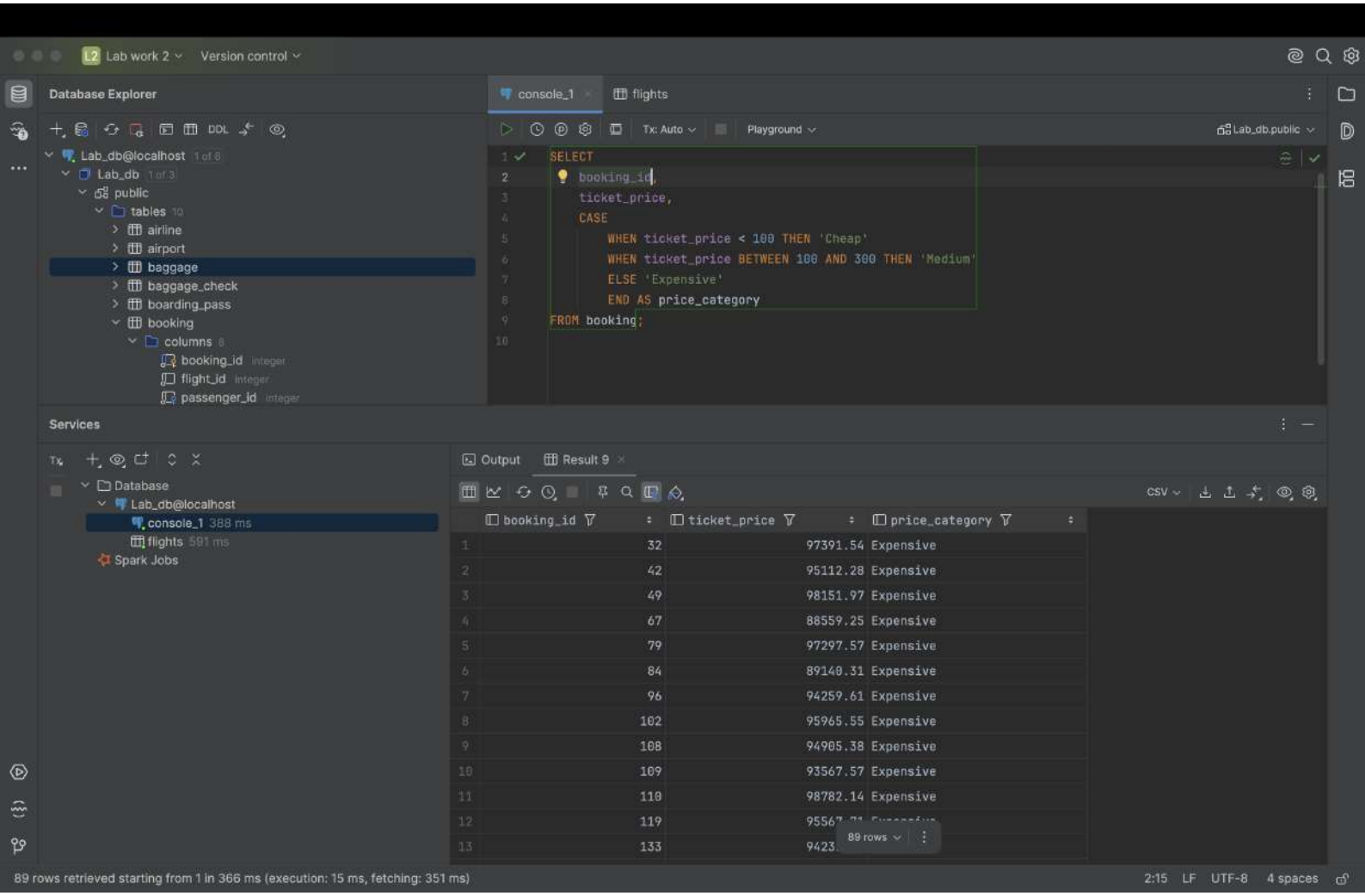

Lab work 2
Version control
console_1
flights
Tx: Auto
Playground
Lab_db.public
SELECT departing_gate
FROM flights
WHERE airline_id IN (1, 2)
GROUP BY departing_gate
HAVING COUNT(DISTINCT airline_id) = 2;
Services
Database
Lab_db@localhost
console_1 358 ms
flights 591 ms
Spark Jobs
Output
Lab_db.public.flights
DDL
CSV
departing_gate
1 G17
2 G23
2 rows
2 rows retrieved starting from 1 in 335 ms (execution: 10 ms, fetching: 325 ms)
4:24 LF UTF-8 4 spaces

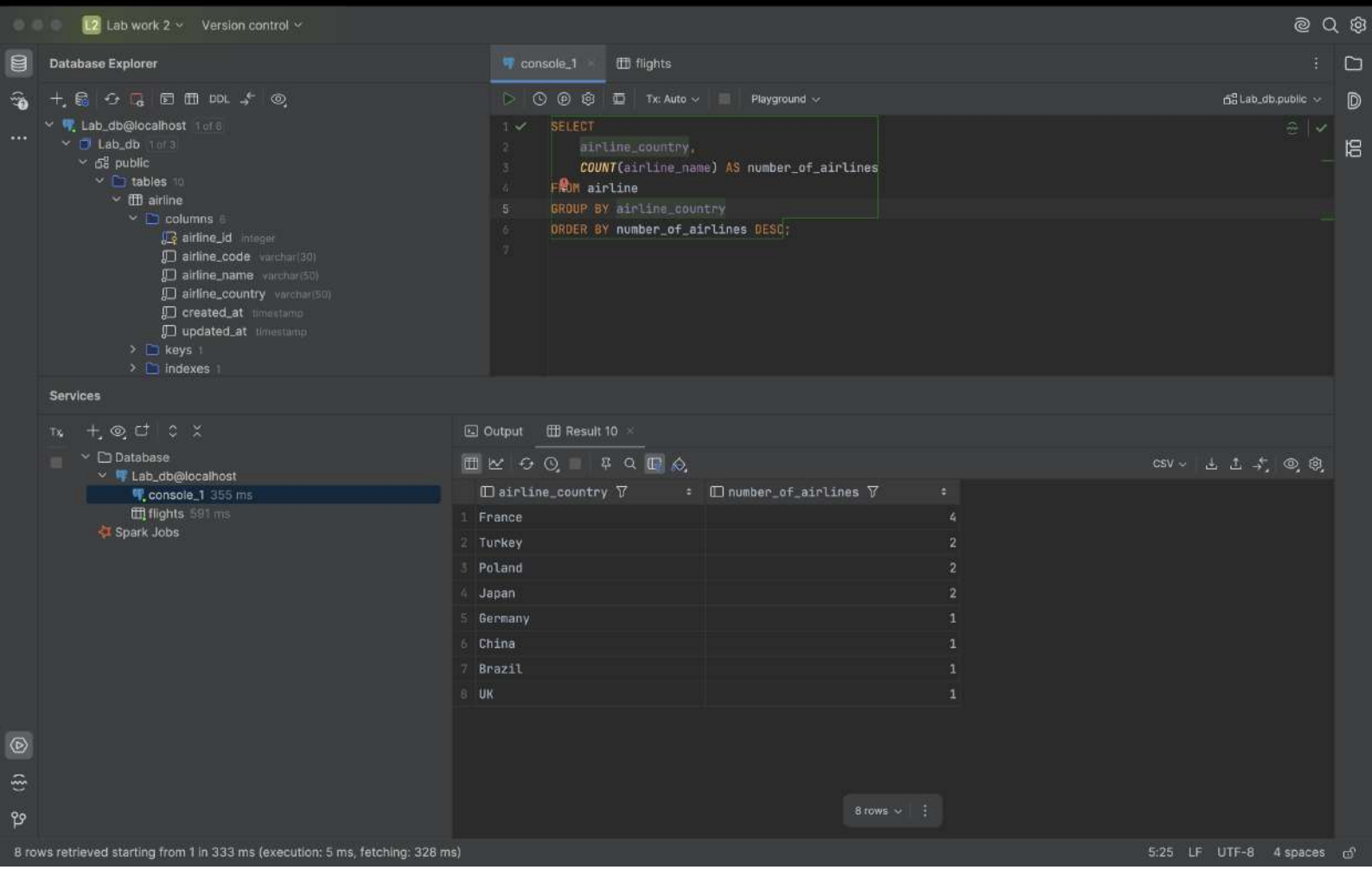

Lab work 2
Version control
console_1
flights
Tx: Auto
Playground
Lab_db.public
SELECT airport_name
FROM airport
WHERE airport_name ILIKE '%Regional%'
AND airport_name ILIKE '%Air%';
Services
Database
Lab_db@localhost
console_1 354 ms
flights 591 ms
Spark Jobs
Output
Lab_db.public.airport
DDL
CSV
airport_name
0 rows
0 rows retrieved in 331 ms (execution: 9 ms, fetching: 322 ms)
2:13
LF
UTF-8
4 spaces


Lab work 2
Version control
Database Explorer
console_1
flights
Tx: Auto
Playground
Lab_db.public
Lab_db@localhost
booking_flight
flights
passengers
columns 10
passenger_id integer
first_name varchar(50)
last_name varchar(50)
date_of_birth date
gender varchar(50)
country_of_citizenship varchar(50)
country_of_residence varchar(50)
passport_number varchar(20)
created_at timestamp
SELECT
first_name,
TO_CHAR(date_of_birth, 'Month DD, YYYY') AS formatted_birth_date
FROM passengers;
Services
Database
Lab_db@localhost
console_1 374 ms
flights 591 ms
Spark Jobs
Output
Result 6
CSV
first_name
formatted_birth_date
1 Name_1 September 02, 1966
2 Name_2 May 09, 1968
3 Name_3 March 13, 1986
4 Name_4 May 10, 2000
5 Name_5 April 28, 1965
6 Name_6 October 07, 1977
7 Name_7 March 15, 1999
8 Name_8 January 28, 1985
9 Name_9 June 16, 2000
10 Name_10 November 12, 1985
11 Name_11 April 03, 1988
12 Name_12 February 15, 1999
13 Name_13 May 09, 1981
200 rows
200 rows retrieved starting from 1 in 350 ms (execution: 16 ms, fetching: 334 ms)
3:26
LF
UTF-8
4 spaces


Lab work 2
Version control
Database Explorer
console_1
flights
Lab_db@localhost
flights
columns 12
flight_id integer
sch_departure_time timestamp
sch_arrival_time timestamp
departing_airport_id integer
arriving_airport_id integer
departing_gate text
arriving_gate varchar(50)
airline_id integer
act_departure_time timestamp
act_arrival_time timestamp
created_at timestamp
Tx: Auto
Playground
Lab_db.public
SELECT departing_gate
FROM flights
WHERE sch_arrival_time > sch_departure_time;
Services
Database
Lab_db@localhost
console_1 350 ms
flights 591 ms
Spark Jobs
Output
Lab_db.public.flights
DDL
CSV
departing_gate
G48
G34
G27
G32
G8
G45
G23
G40
G28
G14
G10
G41
G6
94 rows
94 rows retrieved starting from 1 in 328 ms (execution: 5 ms, fetching: 323 ms)
3:44
LF
UTF-8
4 spaces


Lab work 2
Version control
Database Explorer
Lab_db@localhost
flights
columns 12
flight_id integer
sch_departure_time timestamp
sch_arrival_time timestamp
departing_airport_id integer
arriving_airport_id integer
departing_gate text
arriving_gate varchar(50)
airline_id integer
act_departure_time timestamp
act_arrival_time timestamp
created_at timestamp
console_1
flights
Tx: Auto
Playground
Lab_db.public
SELECT
first_name,
CASE
WHEN AGE(date_of_birth) BETWEEN INTERVAL '18 years' AND INTERVAL '35 years' THEN 'Young'
WHEN AGE(date_of_birth) BETWEEN INTERVAL '36 years' AND INTERVAL '55 years' THEN 'Adult'
ELSE 'Other'
END AS age_group
FROM passengers;
Services
Database
Lab_db@localhost
console_1 360 ms
flights 591 ms
Spark Jobs
Output
Result 8
CSV
first_name
age_group
1 Name_1 Other
2 Name_2 Other
3 Name_3 Adult
4 Name_4 Young
5 Name_5 Other
6 Name_6 Adult
7 Name_7 Young
8 Name_8 Adult
9 Name_9 Young
10 Name_10 Adult
11 Name_11 Adult
12 Name_12 Young
13 Name_13 Adult
200 rows
200 rows retrieved starting from 1 in 338 ms (execution: 7 ms, fetching: 331 ms)
5:31
LF
UTF-8
4 spaces


Lab work 2
Version control
Database Explorer
console_1
flights
Tx: Auto
Playground
Lab_db.public
Lab_db@localhost 1 of 8
Lab_db 1 of 3
public
tables 10
airline
airport
baggage
baggage_check
boarding_pass
booking
columns 8
booking_id integer
flight_id integer
passenger_id integer
SELECT
booking_id,
ticket_price,
CASE
WHEN ticket_price < 100 THEN 'Cheap'
WHEN ticket_price BETWEEN 100 AND 300 THEN 'Medium'
ELSE 'Expensive'
END AS price_category
FROM booking;
Services
Output
Result 9
CSV
Database
Lab_db@localhost
console_1 388 ms
flights 591 ms
Spark Jobs
booking_id
ticket_price
price_category
1 32 97391.54 Expensive
2 42 95112.28 Expensive
3 49 98151.97 Expensive
4 67 88559.25 Expensive
5 79 97297.57 Expensive
6 84 89140.31 Expensive
7 96 94259.61 Expensive
8 102 95965.55 Expensive
9 108 94905.38 Expensive
10 109 93567.57 Expensive
11 110 98782.14 Expensive
12 119
13 133
89 rows
89 rows retrieved starting from 1 in 366 ms (execution: 15 ms, fetching: 351 ms)
2:15
LF
UTF-8
4 spaces


Lab work 2
Version control
Database Explorer
console_1
flights
Tx: Auto
Playground
Lab_db.public
Lab_db@localhost 1 of 8
Lab_db 1 of 3
public
tables 10
airline
columns 6
airline_id integer
airline_code varchar(30)
airline_name varchar(50)
airline_country varchar(50)
created_at timestamp
updated_at timestamp
keys 1
indexes 1
SELECT
airline_country,
COUNT(airline_name) AS number_of_airlines
FROM airline
GROUP BY airline_country
ORDER BY number_of_airlines DESC;
Services
Database
Lab_db@localhost
console_1 355 ms
flights 591 ms
Spark Jobs
Output
Result 10
CSV
airline_country
number_of_airlines
1 France 4
2 Turkey 2
3 Poland 2
4 Japan 2
5 Germany 1
6 China 1
7 Brazil 1
8 UK 1
8 rows
8 rows retrieved starting from 1 in 333 ms (execution: 5 ms, fetching: 328 ms)
5:25
LF
UTF-8
4 spaces