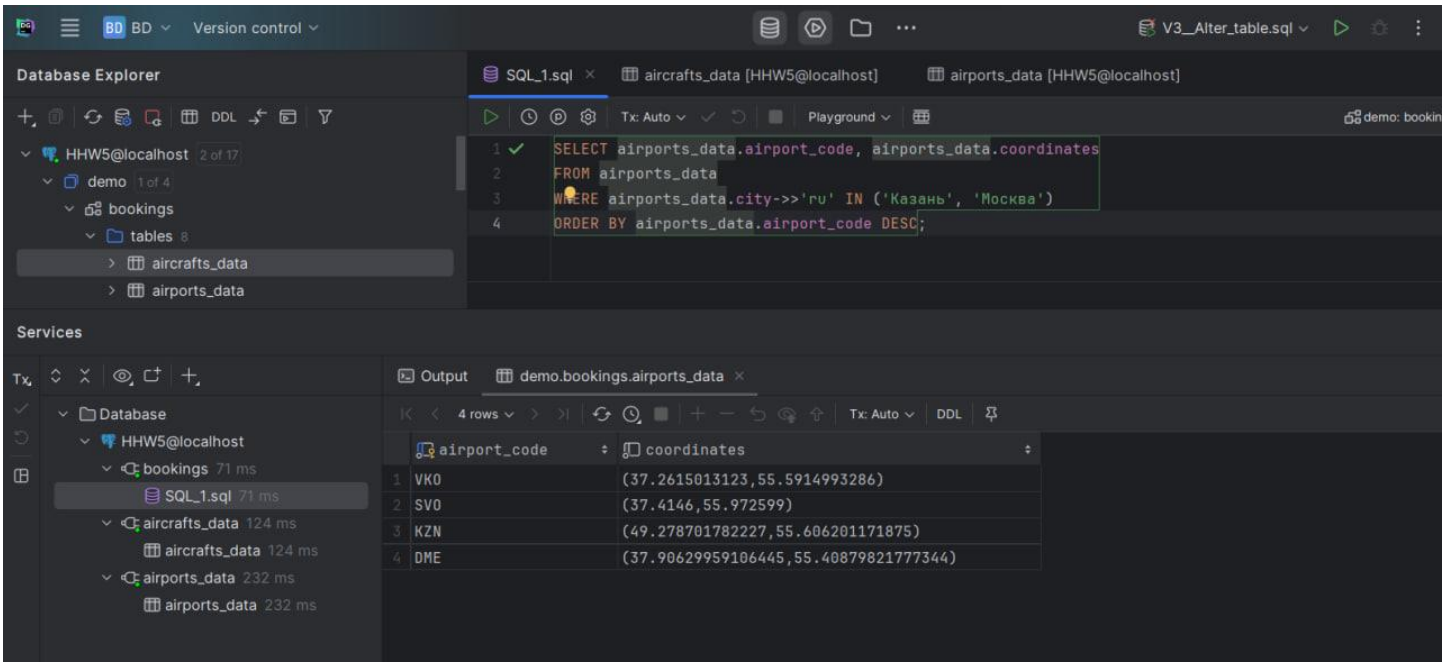
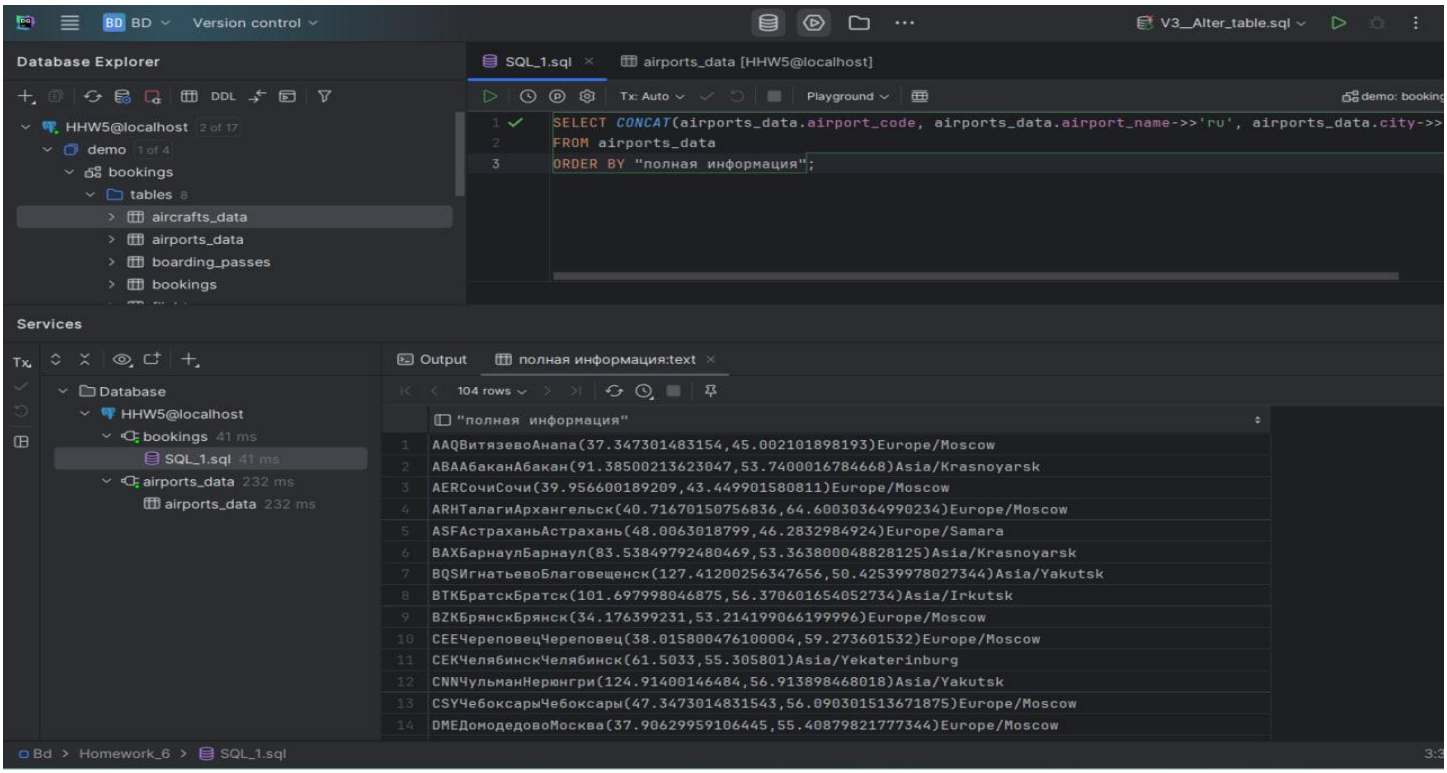
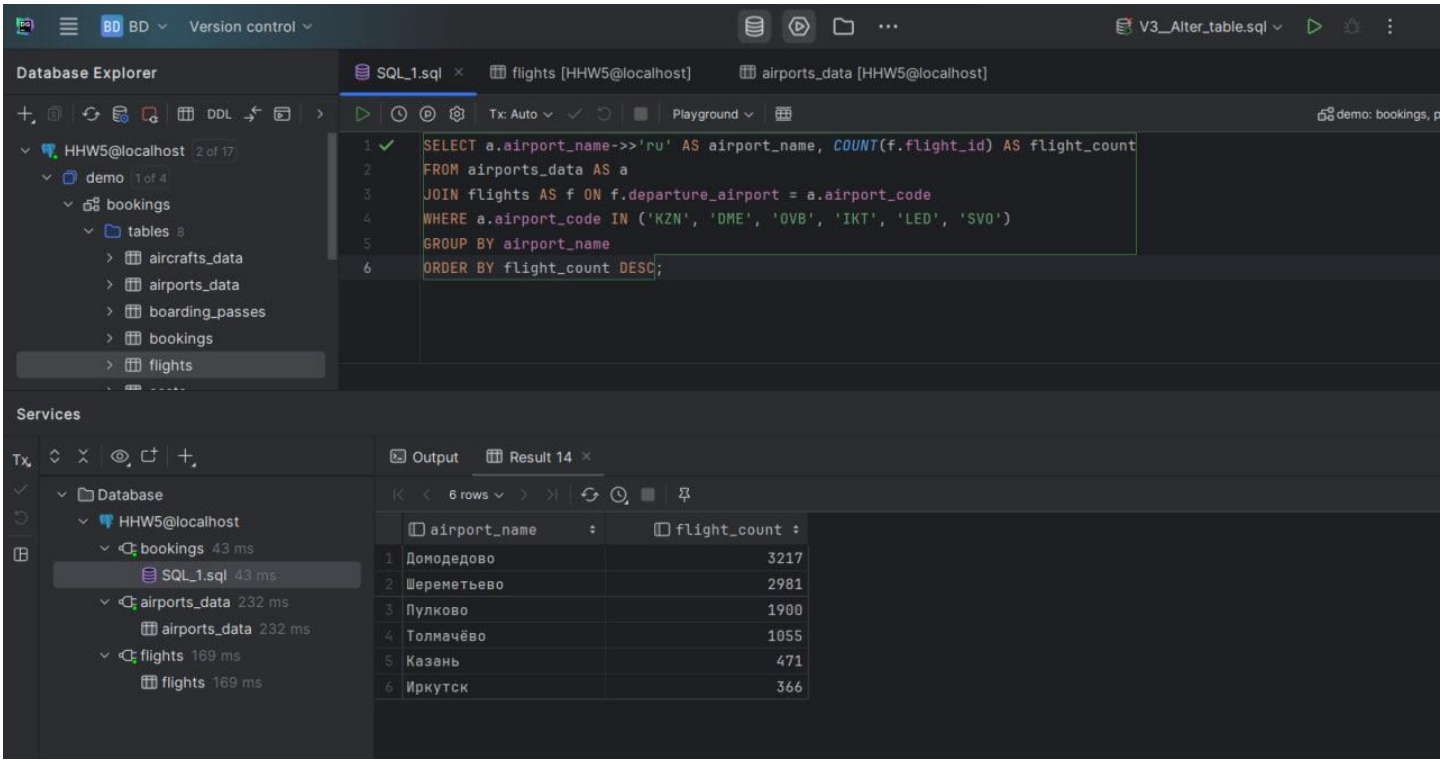
A.


BD
Version control
V3__Alter_table.sql
Database Explorer
SQL_1.sql
aircrafts_data [HHW5@localhost]
airports_data [HHW5@localhost]
Tx: Auto
Playground
HHW5@localhost 2 of 17
demo 1 of 4
bookings
tables 8
aircrafts_data
airports_data
SELECT airports_data.airport_code, airports_data.coordinates
FROM airports_data
WHERE airports_data.city->>'ru' IN ('Казань', 'Москва')
ORDER BY airports_data.airport_code DESC;
Services
Output
demo.bookings.airports_data
4 rows
DDL
Database
bookings 71 ms
SQL_1.sql 71 ms
aircrafts_data 124 ms
airports_data 232 ms
airport_code
coordinates
VKO (37.2615013123,55.5914993286)
SVO (37.4146,55.972599)
KZN (49.278701782227,55.606201171875)
DME (37.90629959106445,55.40879821777344)

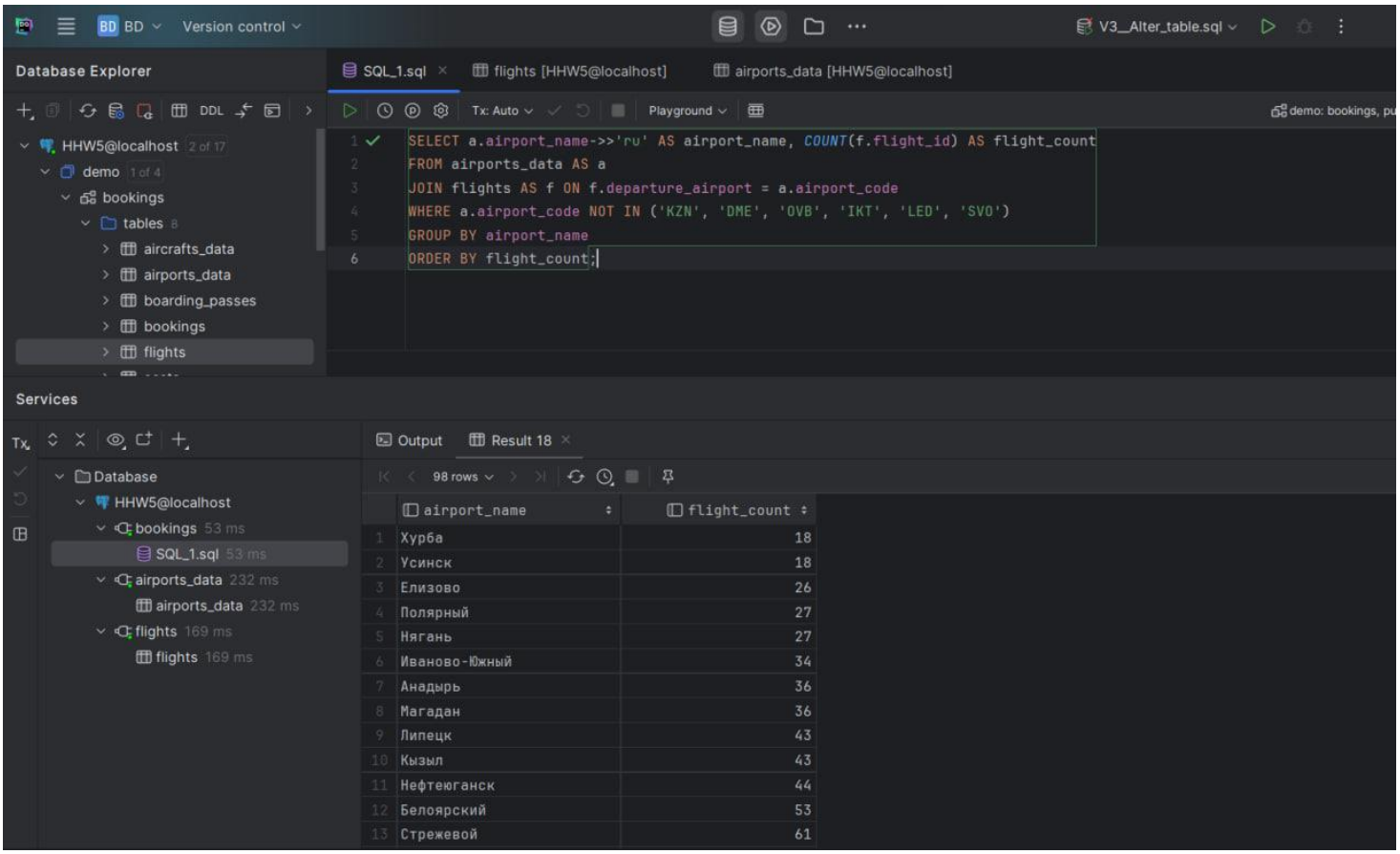
B.


BD
Version control
V3__Alter_table.sql
Database Explorer
SQL_1.sql
airports_data [HHW5@localhost]
Tx: Auto
Playground
HHW5@localhost 2 of 17
demo 1 of 4
bookings
tables 8
aircrafts_data
airports_data
boarding_passes
bookings
SELECT CONCAT(airports_data.airport_code, airports_data.airport_name->>'ru', airports_data.city->>
FROM airports_data
ORDER BY "полная информация";
Services
Output
полная информация:text
104 rows
Database
bookings 41 ms
SQL_1.sql 41 ms
airports_data 232 ms
"полная информация"
AAQВитязевоАнапа(37.347301483154,45.002101898193)Europe/Moscow
ABAАбаканАбакан(91.38500213623047,53.7400016784668)Asia/Krasnoyarsk
AERСочиСочи(39.956600189209,43.449901580811)Europe/Moscow
ARHТалагиАрхангельск(40.71670150756836,64.60030364990234)Europe/Moscow
ASFАстраханьАстрахань(48.0063018799,46.2832984924)Europe/Samara
BAXБарнаулБарнаул(83.53849792480469,53.363800048828125)Asia/Krasnoyarsk
BQSИгнатьевоБлаговещенск(127.41200256347656,50.42539978027344)Asia/Yakutsk
BTKБратскБратск(101.697998046875,56.370601654052734)Asia/Irkutsk
BZKБрянскБрянск(34.176399231,53.214199066199996)Europe/Moscow
CEEЧереповецЧереповец(38.015800476100004,59.273601532)Europe/Moscow
CEKЧелябинскЧелябинск(61.5033,55.305801)Asia/Yekaterinburg
CNNЧульманНерюнгри(124.91400146484,56.913898468018)Asia/Yakutsk
CSYЧебоксарыЧебоксары(47.3473014831543,56.090301513671875)Europe/Moscow
DMEДомодедовоМосква(37.90629959106445,55.40879821777344)Europe/Moscow
Bd > Homework_6 > SQL_1.sql

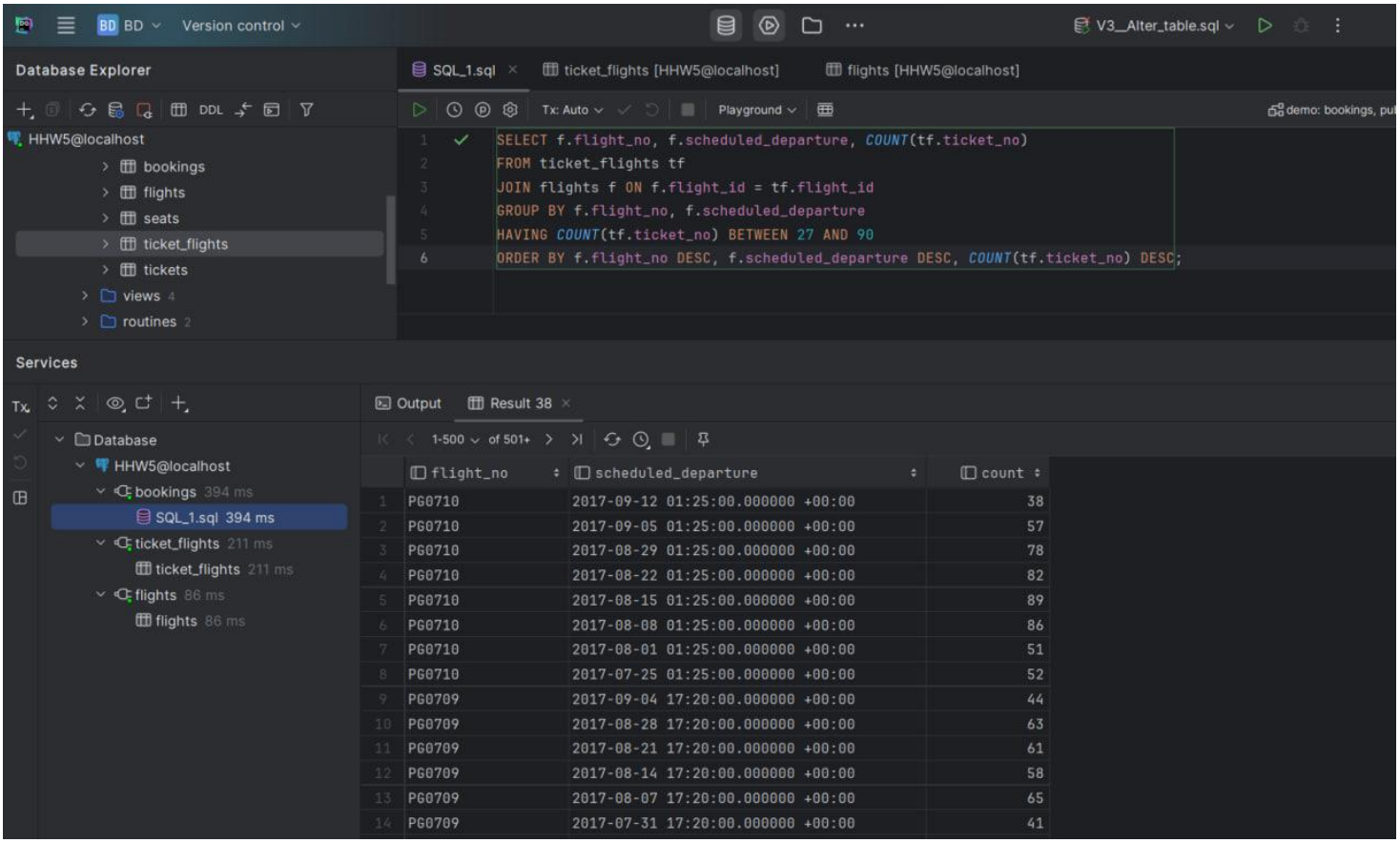
C.


BD
Version control
V3__Alter_table.sql
Database Explorer
SQL_1.sql
flights [HHW5@localhost]
airports_data [HHW5@localhost]
DDL
Tx: Auto
Playground
demo: bookings, p
HHW5@localhost 2 of 17
demo 1 of 4
bookings
tables 8
aircrafts_data
airports_data
boarding_passes
bookings
flights
SELECT a.airport_name->>'ru' AS airport_name, COUNT(f.flight_id) AS flight_count
FROM airports_data AS a
JOIN flights AS f ON f.departure_airport = a.airport_code
WHERE a.airport_code IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY airport_name
ORDER BY flight_count DESC;
Services
Output
Result 14
6 rows
Database
HHW5@localhost
bookings 43 ms
SQL_1.sql 43 ms
airports_data 232 ms
airports_data 232 ms
flights 169 ms
flights 169 ms
airport_name
flight_count
1 Домодедово 3217
2 Шереметьево 2981
3 Пулково 1900
4 Толмачёво 1055
5 Казань 471
6 Иркутск 366

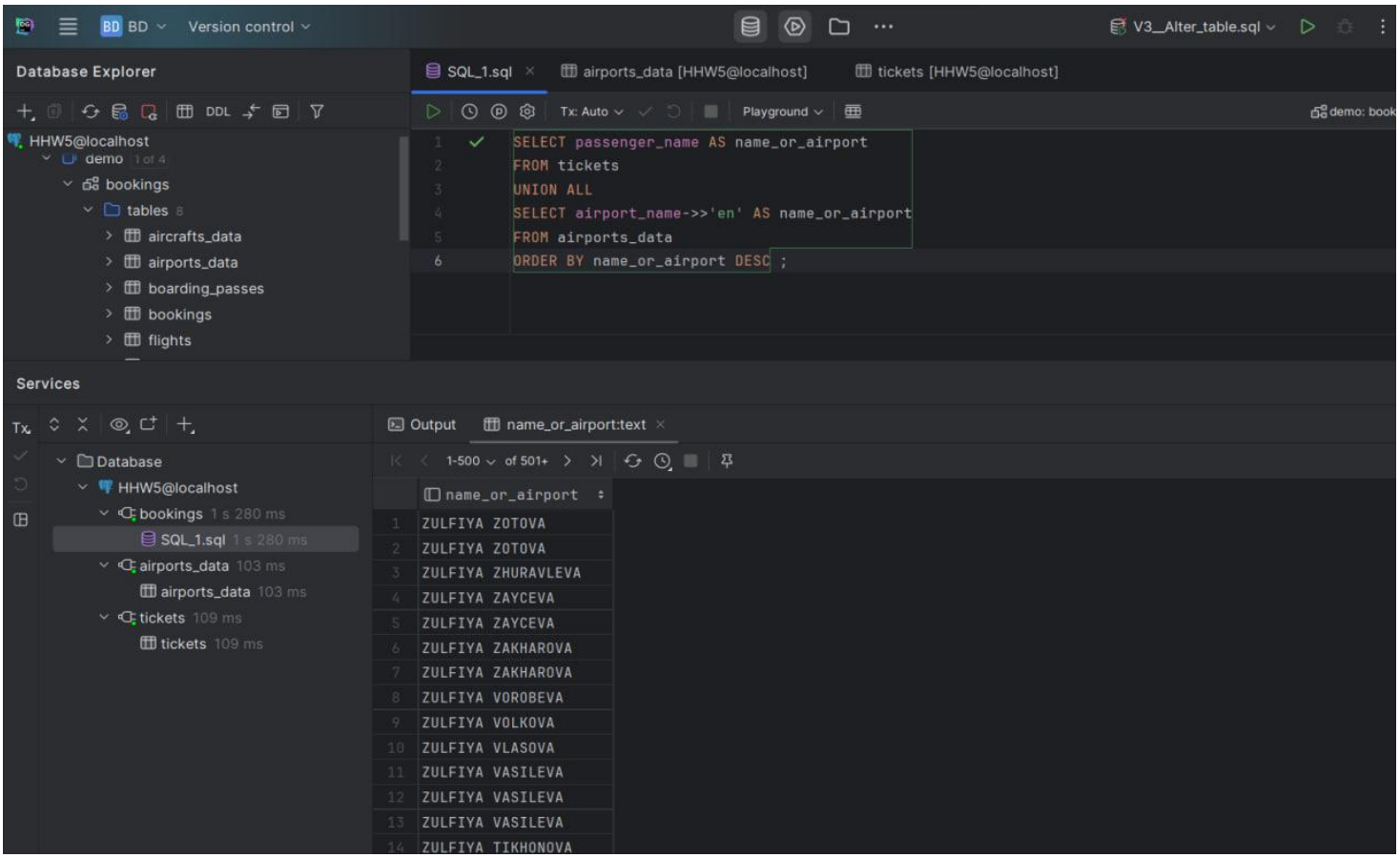
D.


BD
Version control
V3__Alter_table.sql
Database Explorer
SQL_1.sql
flights [HHW5@localhost]
airports_data [HHW5@localhost]
DDL
Tx: Auto
Playground
HHW5@localhost 2 of 17
demo 1 of 4
bookings
tables 8
aircrafts_data
airports_data
boarding_passes
bookings
flights
SELECT a.airport_name->>'ru' AS airport_name, COUNT(f.flight_id) AS flight_count
FROM airports_data AS a
JOIN flights AS f ON f.departure_airport = a.airport_code
WHERE a.airport_code NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY airport_name
ORDER BY flight_count;
Services
Output
Result 18
98 rows
Database
HHW5@localhost
bookings 53 ms
SQL_1.sql 53 ms
airports_data 232 ms
airports_data 232 ms
flights 169 ms
flights 169 ms
airport_name
flight_count
1 Хурба 18
2 Усинск 18
3 Елизово 26
4 Полярный 27
5 Нягань 27
6 Иваново-Южный 34
7 Анадырь 36
8 Магадан 36
9 Липецк 43
10 Кызыл 43
11 Нефтеюганск 44
12 Белоярский 53
13 Стрежевой 61

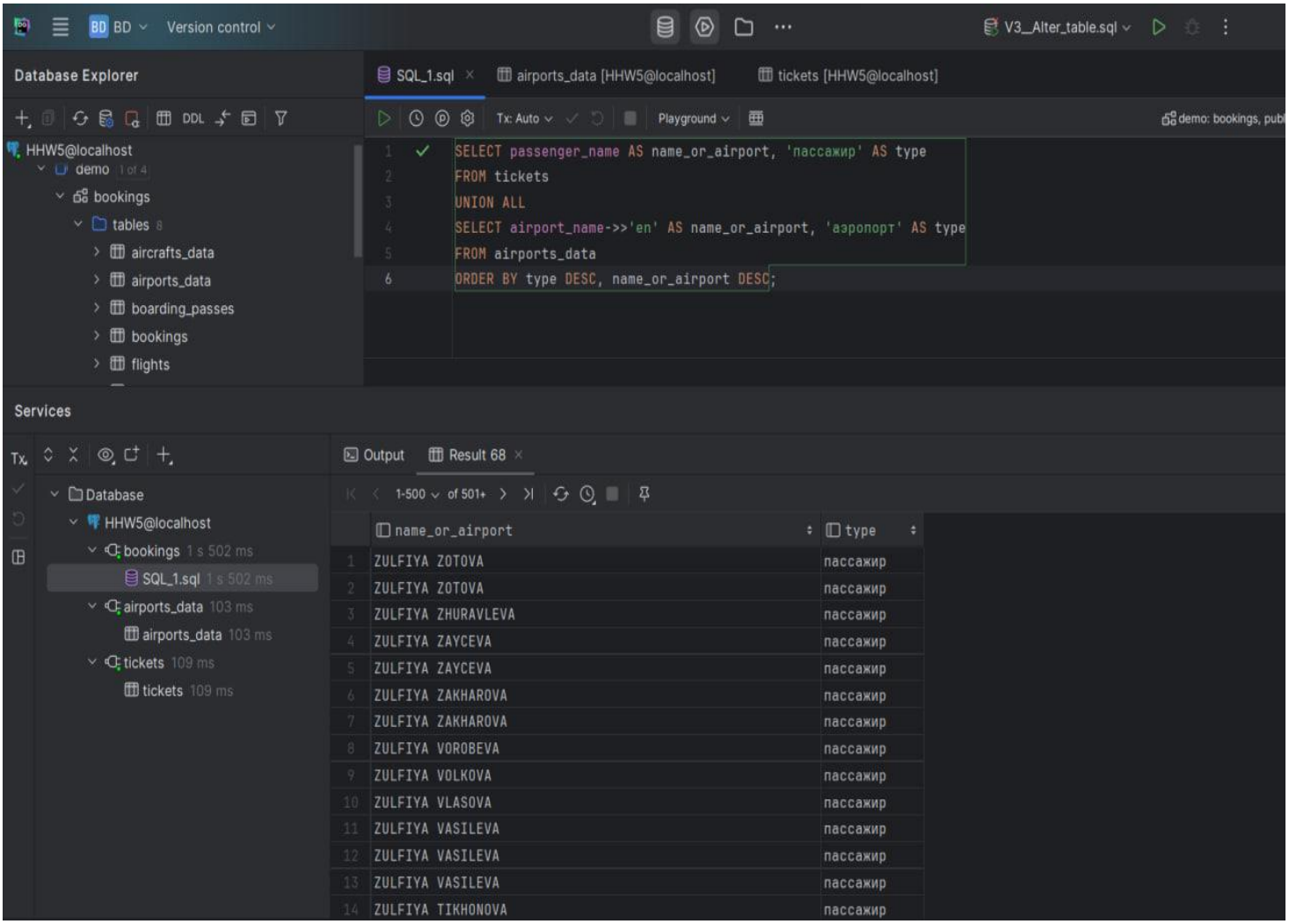
E.


BD
Version control
V3__Alter_table.sql
Database Explorer
SQL_1.sql
ticket_flights [HHW5@localhost]
flights [HHW5@localhost]
DDL
Tx: Auto
Playground
HHW5@localhost
bookings
flights
seats
ticket_flights
tickets
views 4
routines 2
SELECT f.flight_no, f.scheduled_departure, COUNT(tf.ticket_no)
FROM ticket_flights tf
JOIN flights f ON f.flight_id = tf.flight_id
GROUP BY f.flight_no, f.scheduled_departure
HAVING COUNT(tf.ticket_no) BETWEEN 27 AND 90
ORDER BY f.flight_no DESC, f.scheduled_departure DESC, COUNT(tf.ticket_no) DESC;
Services
Output
Result 38
1-500 of 501+
Database
HHW5@localhost
bookings 394 ms
SQL_1.sql 394 ms
ticket_flights 211 ms
ticket_flights 211 ms
flights 86 ms
flights 86 ms
flight_no
scheduled_departure
count
1 PG0710 2017-09-12 01:25:00.000000 +00:00 38
2 PG0710 2017-09-05 01:25:00.000000 +00:00 57
3 PG0710 2017-08-29 01:25:00.000000 +00:00 78
4 PG0710 2017-08-22 01:25:00.000000 +00:00 82
5 PG0710 2017-08-15 01:25:00.000000 +00:00 89
6 PG0710 2017-08-08 01:25:00.000000 +00:00 86
7 PG0710 2017-08-01 01:25:00.000000 +00:00 51
8 PG0710 2017-07-25 01:25:00.000000 +00:00 52
9 PG0709 2017-09-04 17:20:00.000000 +00:00 44
10 PG0709 2017-08-28 17:20:00.000000 +00:00 63
11 PG0709 2017-08-21 17:20:00.000000 +00:00 61
12 PG0709 2017-08-14 17:20:00.000000 +00:00 58
13 PG0709 2017-08-07 17:20:00.000000 +00:00 65
14 PG0709 2017-07-31 17:20:00.000000 +00:00 41

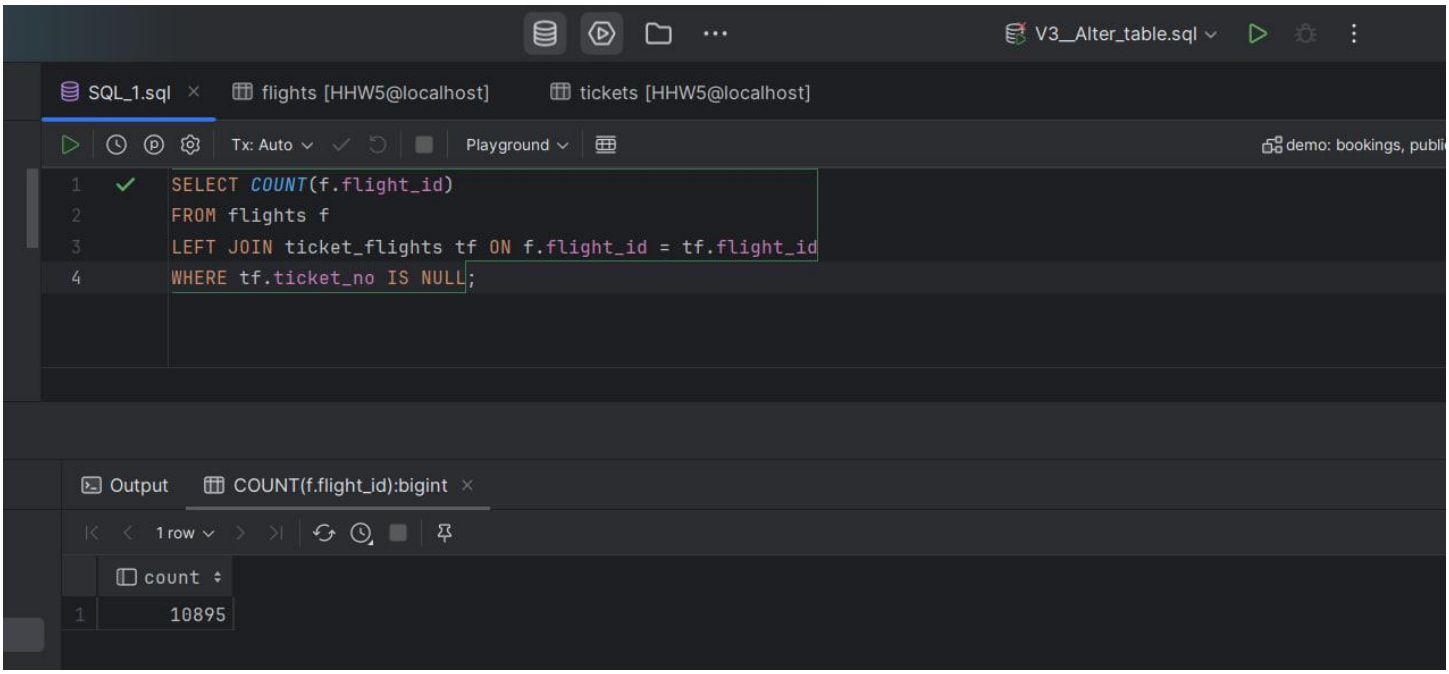
F.


BD
Version control
V3__Alter_table.sql
Database Explorer
SQL_1.sql
airports_data [HHW5@localhost]
tickets [HHW5@localhost]
DDL
Tx: Auto
Playground
HHW5@localhost
demo 1 of 4
bookings
tables 8
aircrafts_data
airports_data
boarding_passes
bookings
flights
SELECT passenger_name AS name_or_airport
FROM tickets
UNION ALL
SELECT airport_name->>'en' AS name_or_airport
FROM airports_data
ORDER BY name_or_airport DESC ;
Services
Output
name_or_airport:text
1-500 of 501+
Database
HHW5@localhost
bookings 1 s 280 ms
SQL_1.sql 1 s 280 ms
airports_data 103 ms
airports_data 103 ms
tickets 109 ms
tickets 109 ms
name_or_airport
1 ZULFIYA ZOTOVA
2 ZULFIYA ZOTOVA
3 ZULFIYA ZHURAVLEVA
4 ZULFIYA ZAYCEVA
5 ZULFIYA ZAYCEVA
6 ZULFIYA ZAKHAROVA
7 ZULFIYA ZAKHAROVA
8 ZULFIYA VOROBEVA
9 ZULFIYA VOLKOVA
10 ZULFIYA VLASOVA
11 ZULFIYA VASILEVA
12 ZULFIYA VASILEVA
13 ZULFIYA VASILEVA
14 ZULFIYA TIKHONOVA

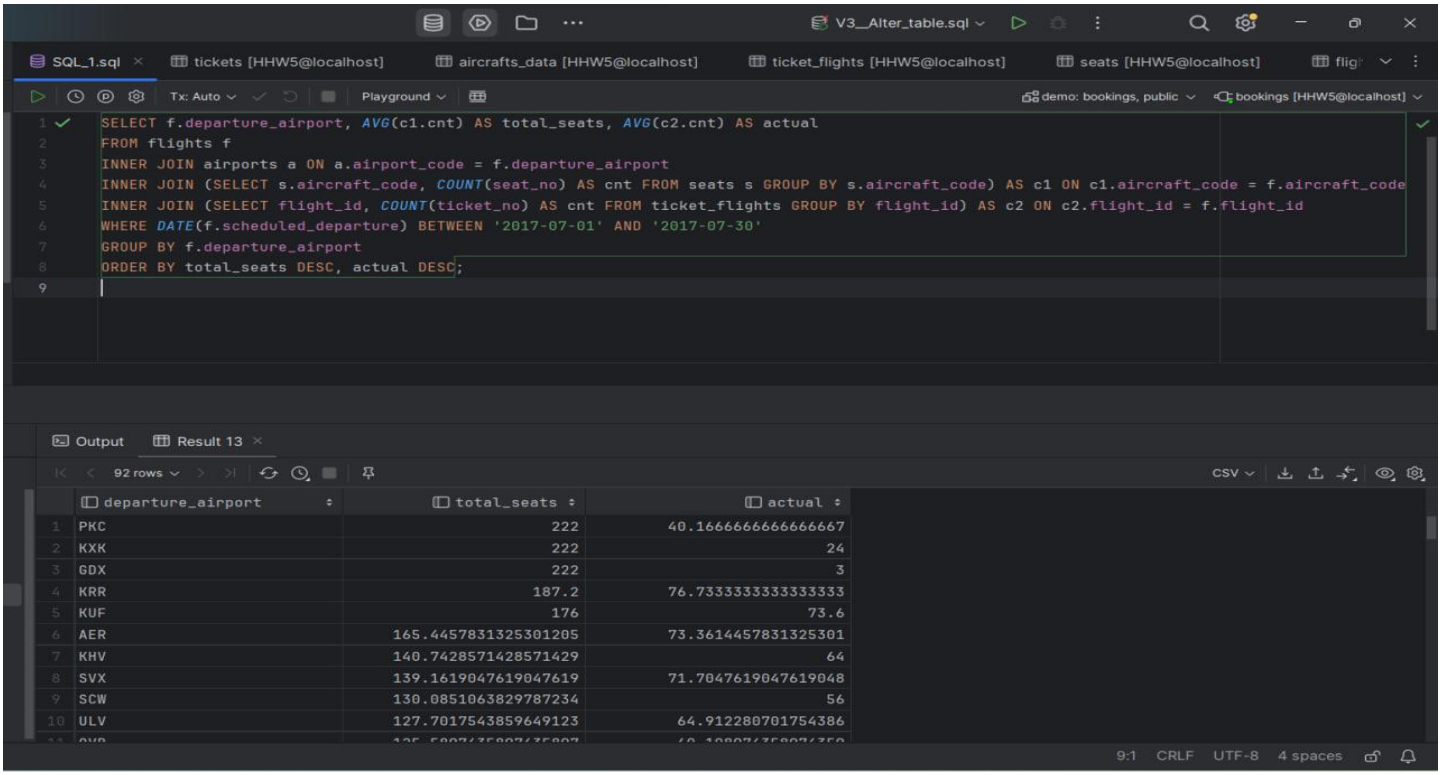
G.


Database Explorer
SQL_1.sql
airports_data [HHW5@localhost]
tickets [HHW5@localhost]
V3__Alter_table.sql
Tx: Auto
Playground
HHW5@localhost
demo 1 of 4
bookings
tables 8
aircrafts_data
airports_data
boarding_passes
bookings
flights
SELECT passenger_name AS name_or_airport, 'пассажир' AS type
FROM tickets
UNION ALL
SELECT airport_name->>'en' AS name_or_airport, 'аэропорт' AS type
FROM airports_data
ORDER BY type DESC, name_or_airport DESC;
Services
Output
Result 68
1-500 of 501+
Database
HHW5@localhost
bookings 1 s 502 ms
SQL_1.sql 1 s 502 ms
airports_data 103 ms
airports_data 103 ms
tickets 109 ms
tickets 109 ms
name_or_airport
type
ZULFIYA ZOTOVA пассажир
ZULFIYA ZOTOVA пассажир
ZULFIYA ZHURAVLEVA пассажир
ZULFIYA ZAYCEVA пассажир
ZULFIYA ZAYCEVA пассажир
ZULFIYA ZAKHAROVA пассажир
ZULFIYA ZAKHAROVA пассажир
ZULFIYA VOROBEVA пассажир
ZULFIYA VOLKOVA пассажир
ZULFIYA VLASOVA пассажир
ZULFIYA VASILEVA пассажир
ZULFIYA VASILEVA пассажир
ZULFIYA VASILEVA пассажир
ZULFIYA TIKHONOVA пассажир

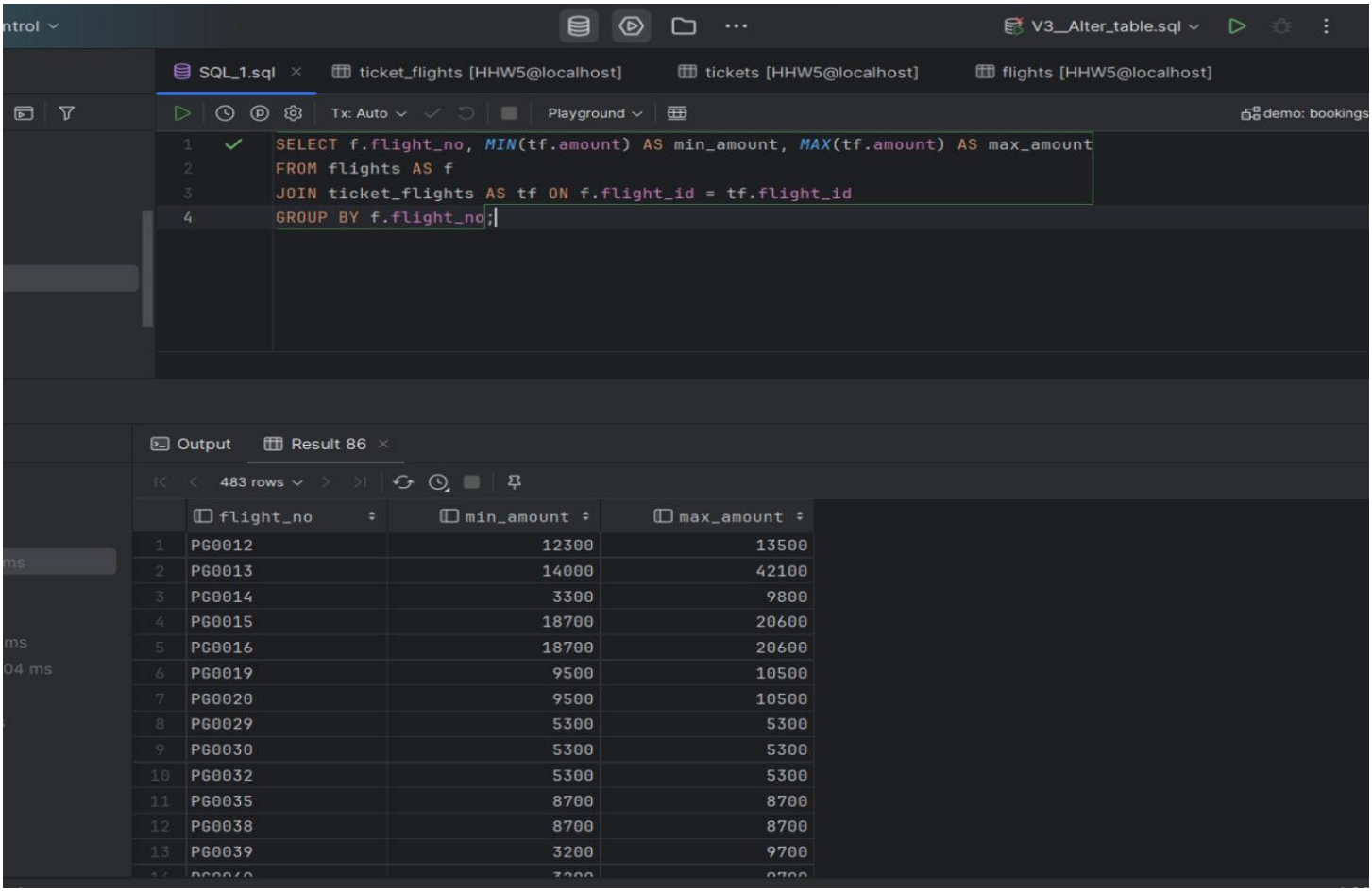
H.


V3__Alter_table.sql
SQL_1.sql
flights [HHW5@localhost]
tickets [HHW5@localhost]
Tx: Auto
Playground
SELECT COUNT(f.flight_id)
FROM flights f
LEFT JOIN ticket_flights tf ON f.flight_id = tf.flight_id
WHERE tf.ticket_no IS NULL;
Output
COUNT(f.flight_id):bigint
1 row
count
10895

I.


V3__Alter_table.sql
SQL_1.sql
tickets [HHW5@localhost]
aircrafts_data [HHW5@localhost]
ticket_flights [HHW5@localhost]
seats [HHW5@localhost]
Tx: Auto
Playground
demo: bookings, public
bookings [HHW5@localhost]
SELECT f.departure_airport, AVG(c1.cnt) AS total_seats, AVG(c2.cnt) AS actual
FROM flights f
INNER JOIN airports a ON a.airport_code = f.departure_airport
INNER JOIN (SELECT s.aircraft_code, COUNT(seat_no) AS cnt FROM seats s GROUP BY s.aircraft_code) AS c1 ON c1.aircraft_code = f.aircraft_code
INNER JOIN (SELECT flight_id, COUNT(ticket_no) AS cnt FROM ticket_flights GROUP BY flight_id) AS c2 ON c2.flight_id = f.flight_id
WHERE DATE(f.scheduled_departure) BETWEEN '2017-07-01' AND '2017-07-30'
GROUP BY f.departure_airport
ORDER BY total_seats DESC, actual DESC;
Output
Result 13
92 rows
CSV
departure_airport | total_seats | actual
PKC | 222 | 40.1666666666666667
KXK | 222 | 24
GDX | 222 | 3
KRR | 187.2 | 76.7333333333333333
KUF | 176 | 73.6
AER | 165.4457831325301205 | 73.3614457831325301
KHV | 140.7428571428571429 | 64
SVX | 139.1619047619047619 | 71.7047619047619048
SCW | 130.0851063829787234 | 56
ULV | 127.7017543859649123 | 64.912280701754386
9:1 CRLF UTF-8 4 spaces

J.


V3__Alter_table.sql
SQL_1.sql
ticket_flights [HHW5@localhost]
tickets [HHW5@localhost]
flights [HHW5@localhost]
Tx: Auto
Playground
demo: bookings
SELECT f.flight_no, MIN(tf.amount) AS min_amount, MAX(tf.amount) AS max_amount
FROM flights AS f
JOIN ticket_flights AS tf ON f.flight_id = tf.flight_id
GROUP BY f.flight_no;
Output
Result 86
483 rows
flight_no | min_amount | max_amount
PG0012 | 12300 | 13500
PG0013 | 14000 | 42100
PG0014 | 3300 | 9800
PG0015 | 18700 | 20600
PG0016 | 18700 | 20600
PG0019 | 9500 | 10500
PG0020 | 9500 | 10500
PG0029 | 5300 | 5300
PG0030 | 5300 | 5300
PG0032 | 5300 | 5300
PG0035 | 8700 | 8700
PG0038 | 8700 | 8700
PG0039 | 3200 | 9700