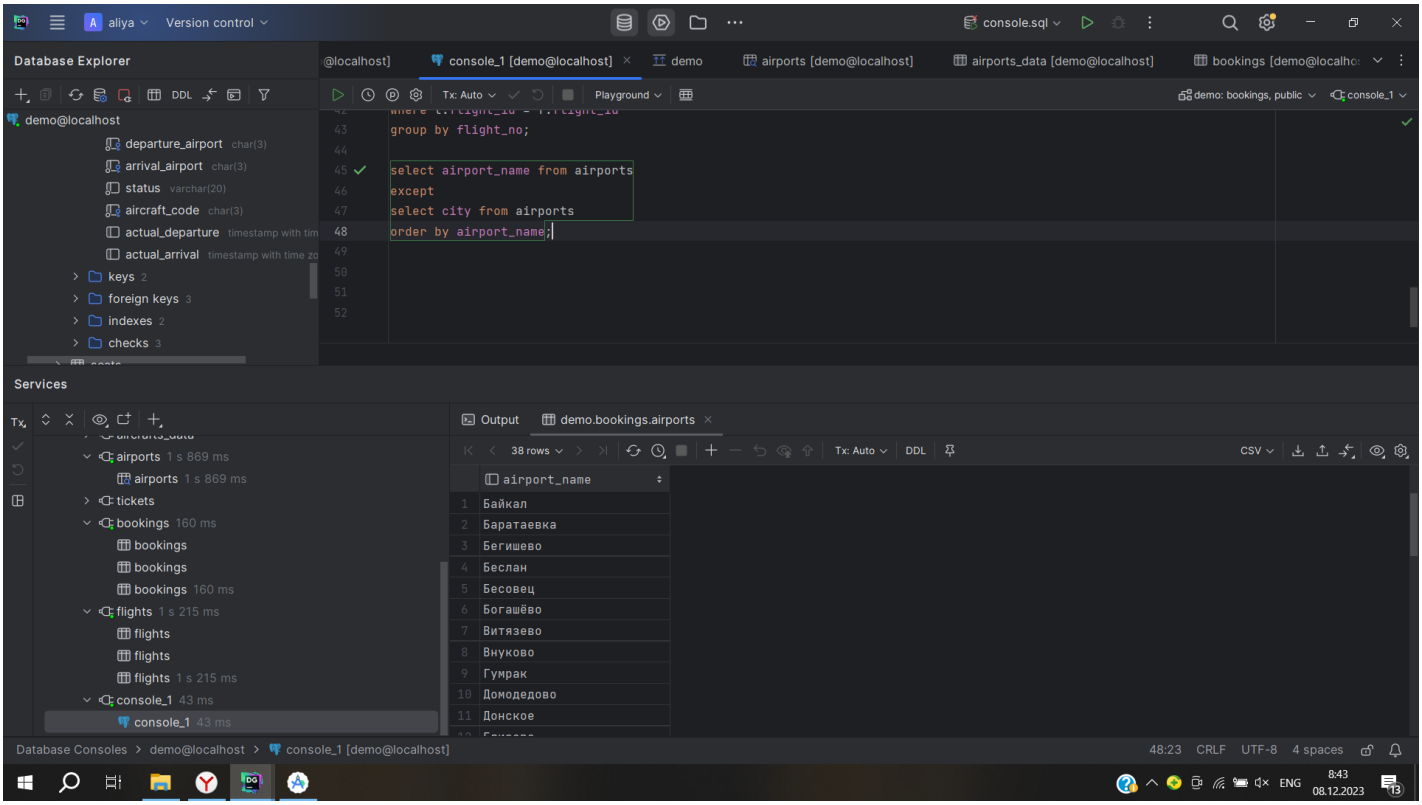
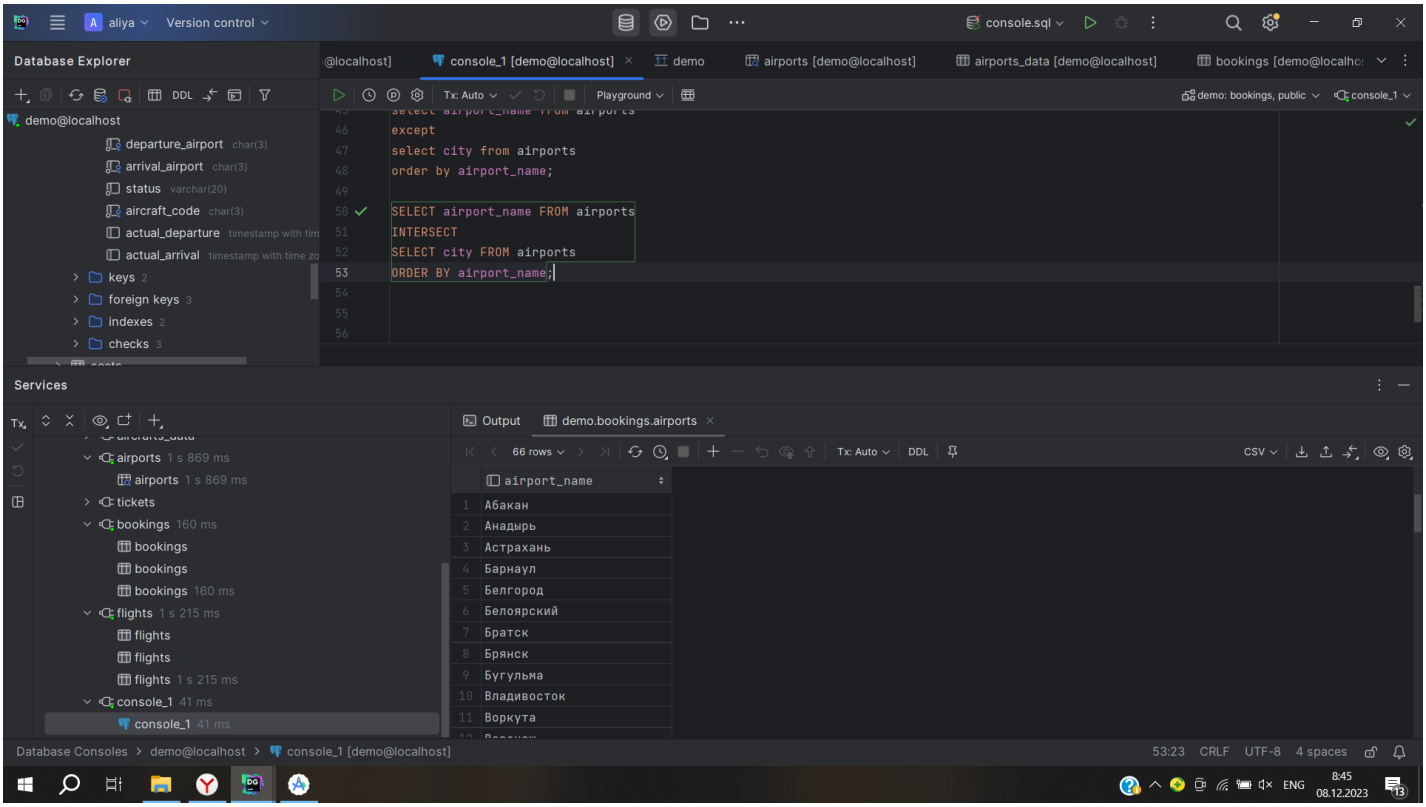
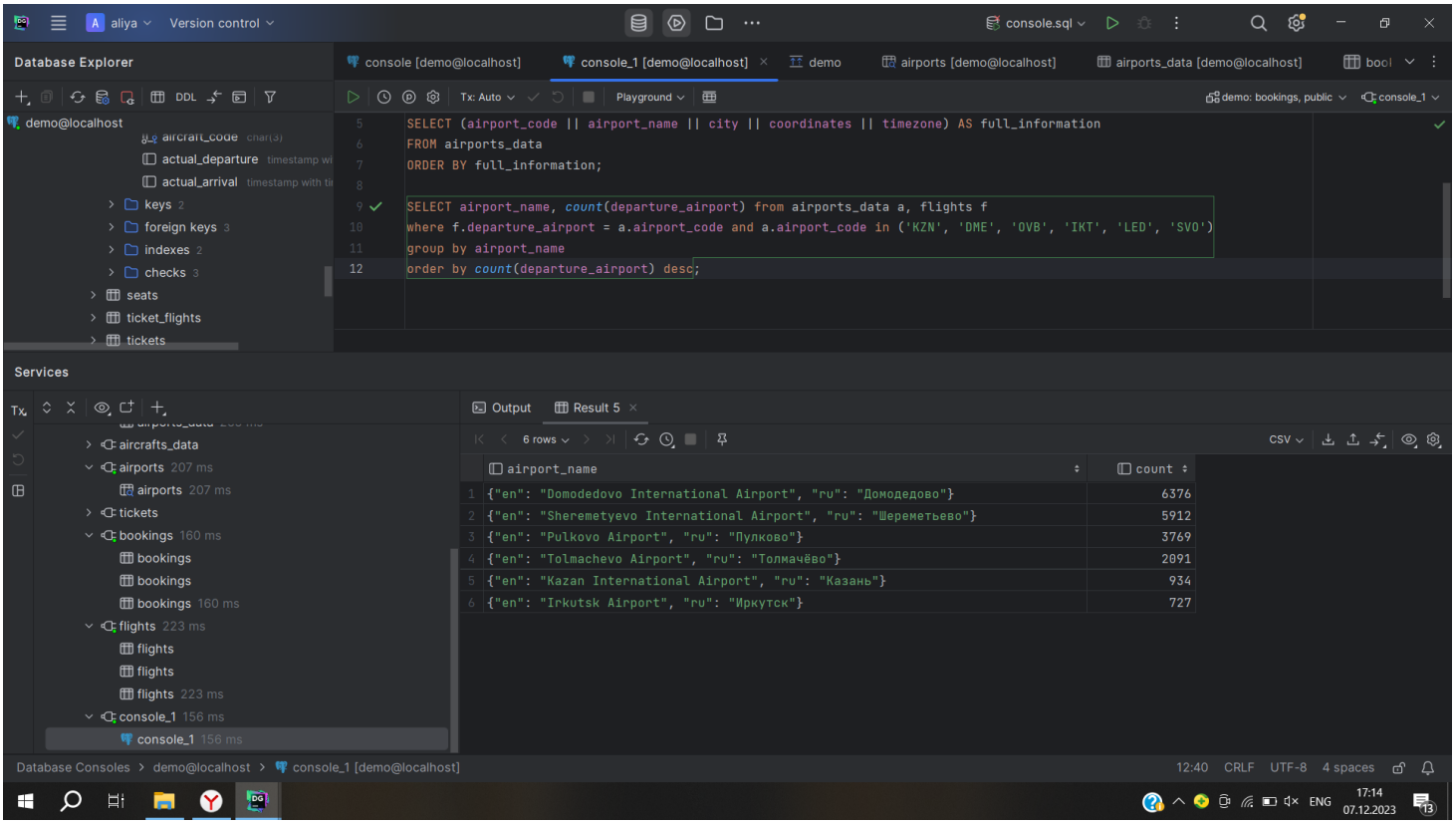
1)


group by flight_no;
select airport_name from airports
except
select city from airports
order by airport_name;
airport_name
Байкал
Баратаевка
Бегишево
Беслан
Бесовец
Богашёво
Витязево
Внуково
Гумрак
Домодедово
Донское

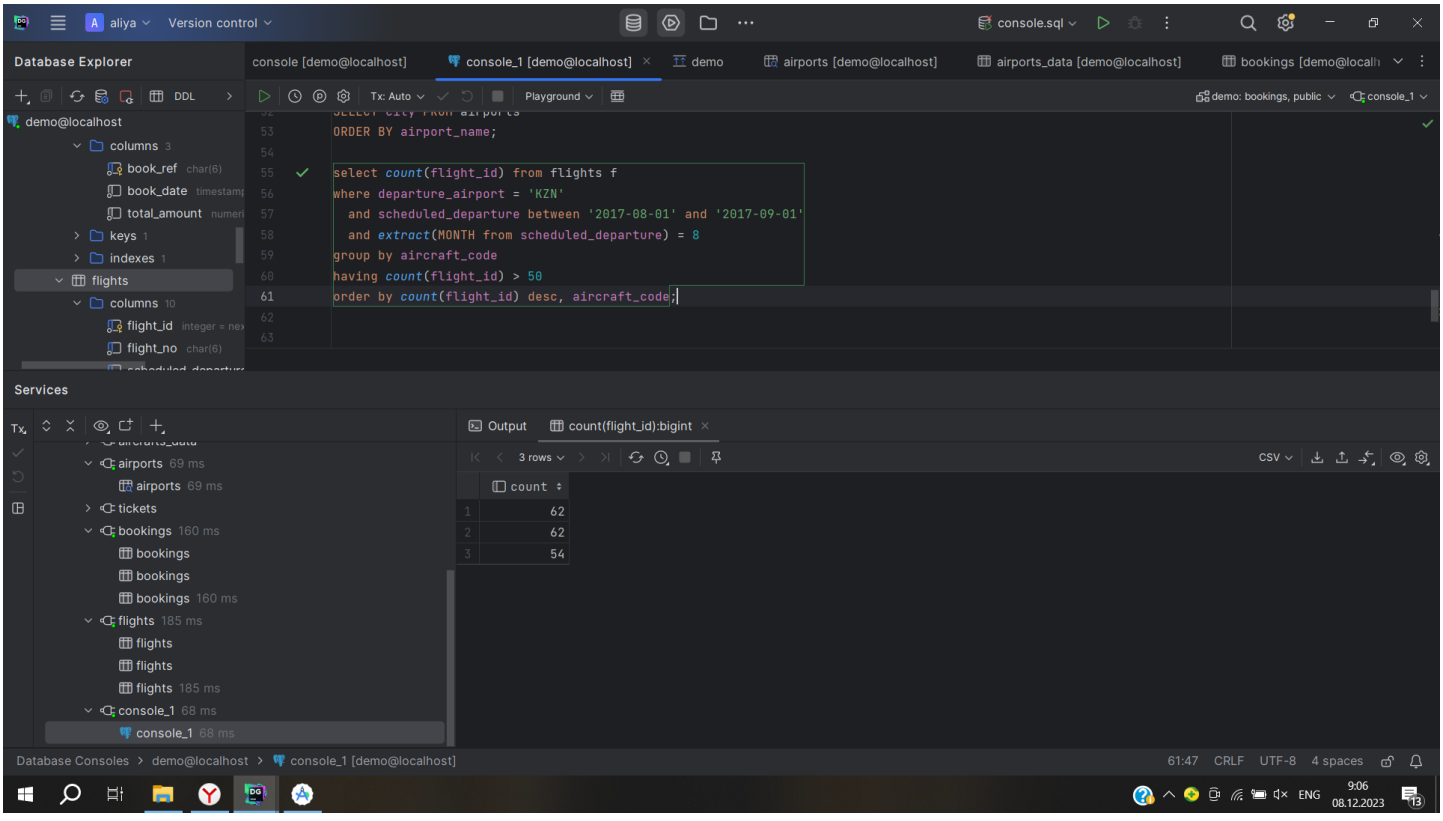
2)


except
select city from airports
order by airport_name;
SELECT airport_name FROM airports
INTERSECT
SELECT city FROM airports
ORDER BY airport_name;
airport_name
Абакан
Анадырь
Астрахань
Барнаул
Белгород
Белоярский
Братск
Брянск
Бугульма
Владивосток
Воркута

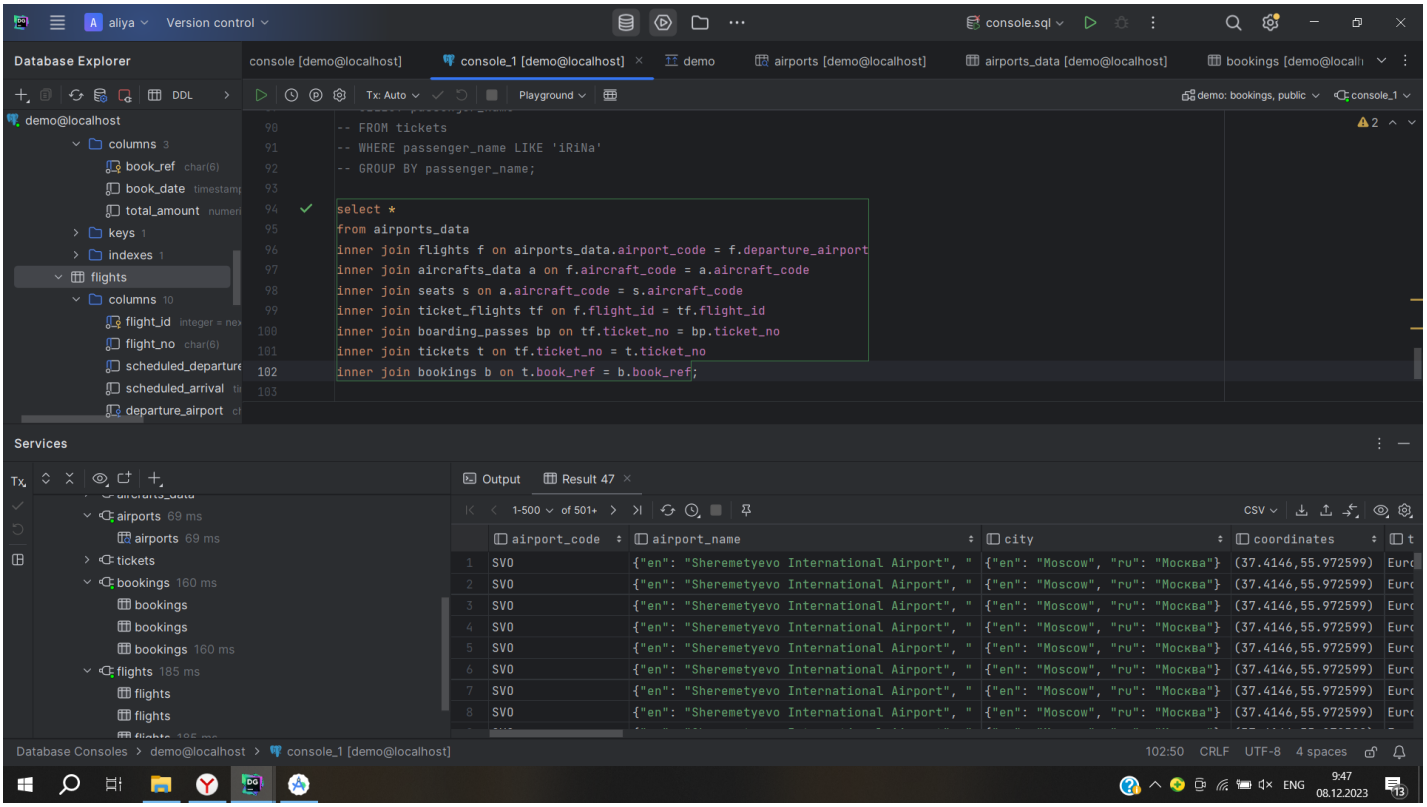
3)


SELECT (airport_code || airport_name || city || coordinates || timezone) AS full_information
FROM airports_data
ORDER BY full_information;
SELECT airport_name, count(departure_airport) from airports_data a, flights f
where f.departure_airport = a.airport_code and a.airport_code in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
group by airport_name
order by count(departure_airport) desc;
airport_name
count
{"en": "Domodedovo International Airport", "ru": "Домодедово"} 6376
{"en": "Sheremetyevo International Airport", "ru": "Шереметьево"} 5912
{"en": "Pulkovo Airport", "ru": "Пулково"} 3769
{"en": "Tolmachevo Airport", "ru": "Толмачёво"} 2091
{"en": "Kazan International Airport", "ru": "Казань"} 934
{"en": "Irkutsk Airport", "ru": "Иркутск"} 727

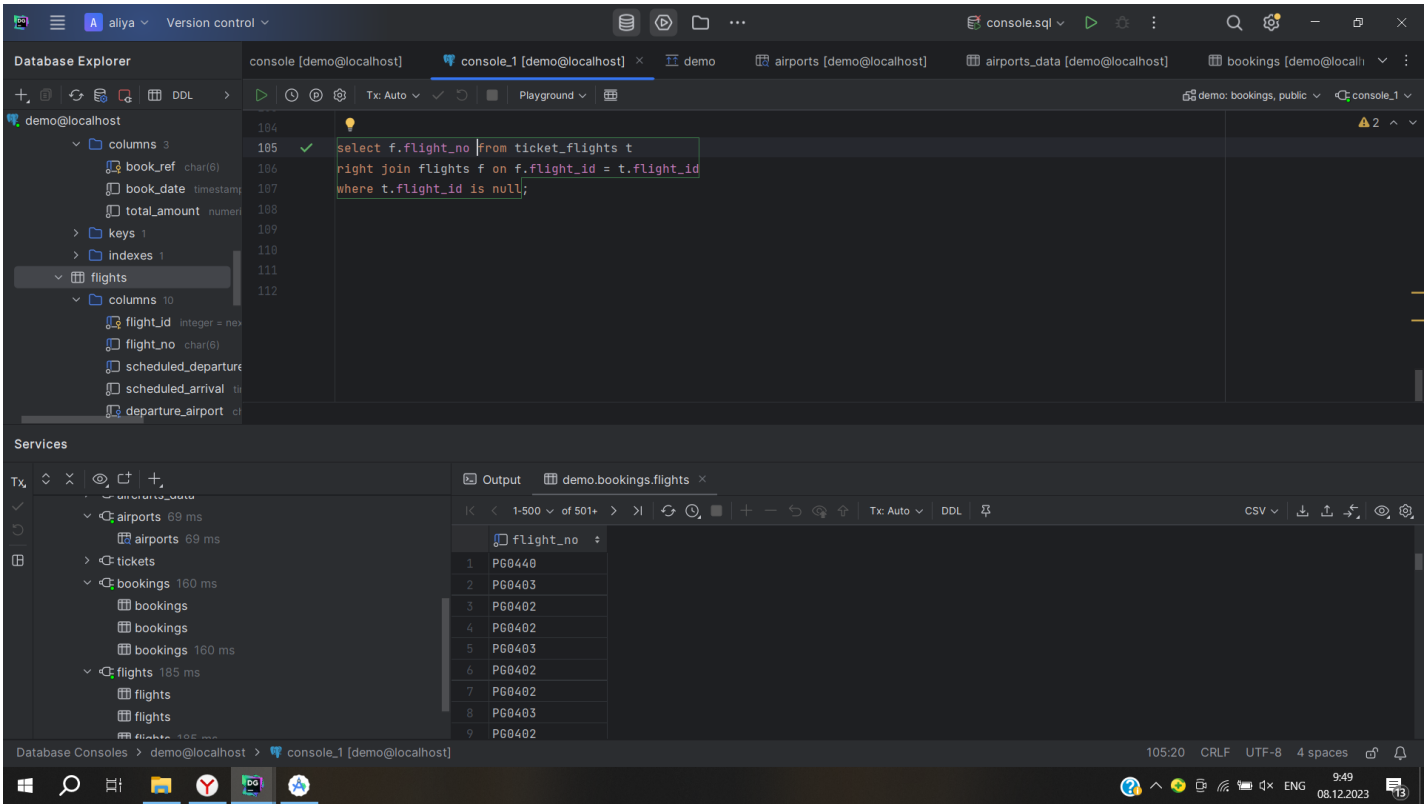
4)


ORDER BY airport_name;
select count(flight_id) from flights f
where departure_airport = 'KZN'
and scheduled_departure between '2017-08-01' and '2017-09-01'
and extract(MONTH from scheduled_departure) = 8
group by aircraft_code
having count(flight_id) > 50
order by count(flight_id) desc, aircraft_code;
count
62
62
54

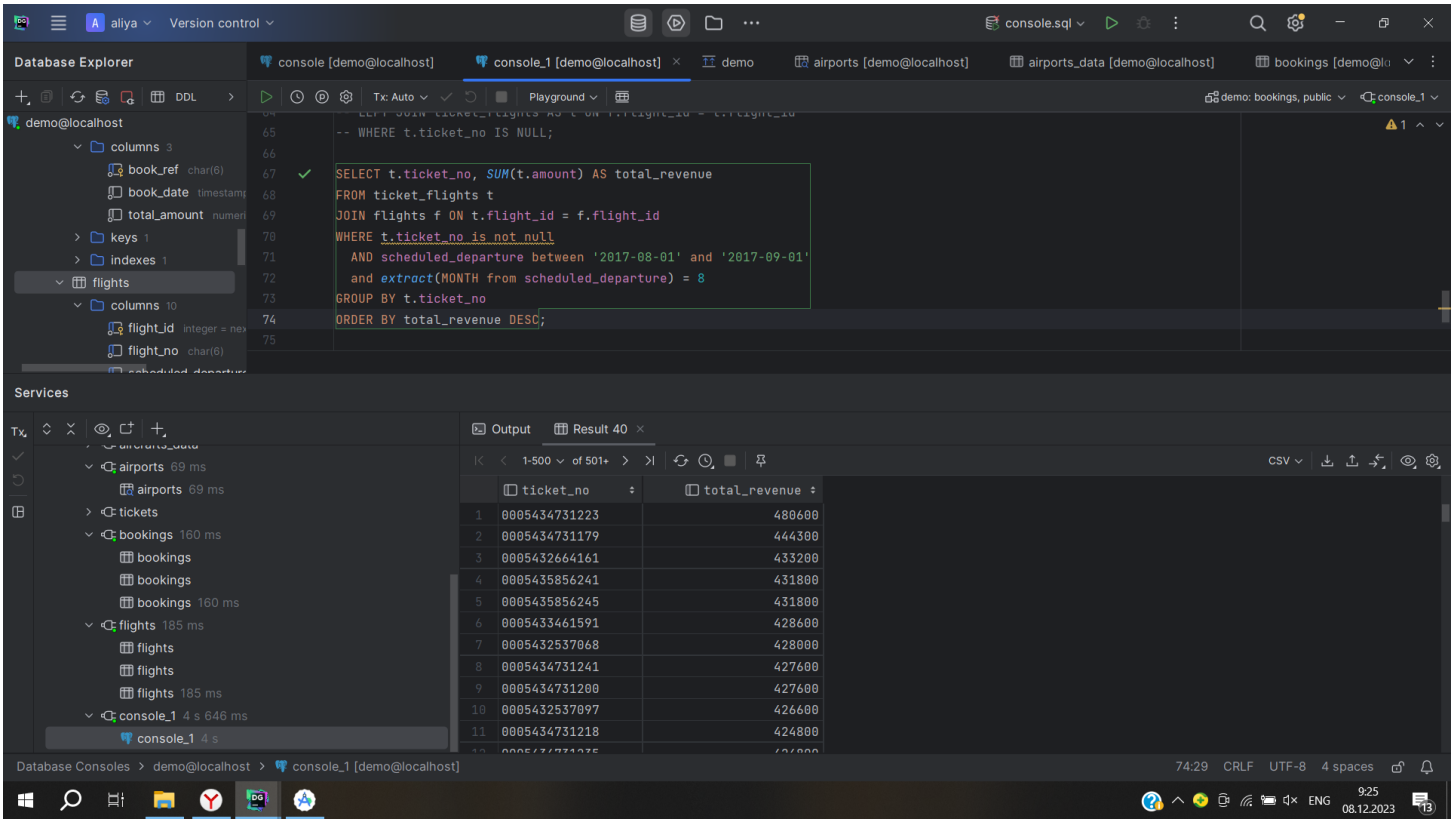
5)


Database Explorer
console [demo@localhost]
console_1 [demo@localhost]
demo
airports [demo@localhost]
airports_data [demo@localhost]
bookings [demo@localhost]
-- FROM tickets
-- WHERE passenger_name LIKE 'iRiNa'
-- GROUP BY passenger_name;
select *
from airports_data
inner join flights f on airports_data.airport_code = f.departure_airport
inner join aircrafts_data a on f.aircraft_code = a.aircraft_code
inner join seats s on a.aircraft_code = s.aircraft_code
inner join ticket_flights tf on f.flight_id = tf.flight_id
inner join boarding_passes bp on tf.ticket_no = bp.ticket_no
inner join tickets t on tf.ticket_no = t.ticket_no
inner join bookings b on t.book_ref = b.book_ref;
Services
Output
Result 47
airport_code
airport_name
city
coordinates
SVO
{"en": "Sheremetyevo International Airport", "
{"en": "Moscow", "ru": "Москва"}
(37.4146,55.972599)

6)


Database Explorer
console [demo@localhost]
console_1 [demo@localhost]
demo
airports [demo@localhost]
airports_data [demo@localhost]
bookings [demo@localhost]
select f.flight_no from ticket_flights t
right join flights f on f.flight_id = t.flight_id
where t.flight_id is null;
Services
Output
demo.bookings.flights
flight_no
PG0440
PG0403
PG0402
PG0402
PG0403
PG0402
PG0402
PG0403
PG0402

7)

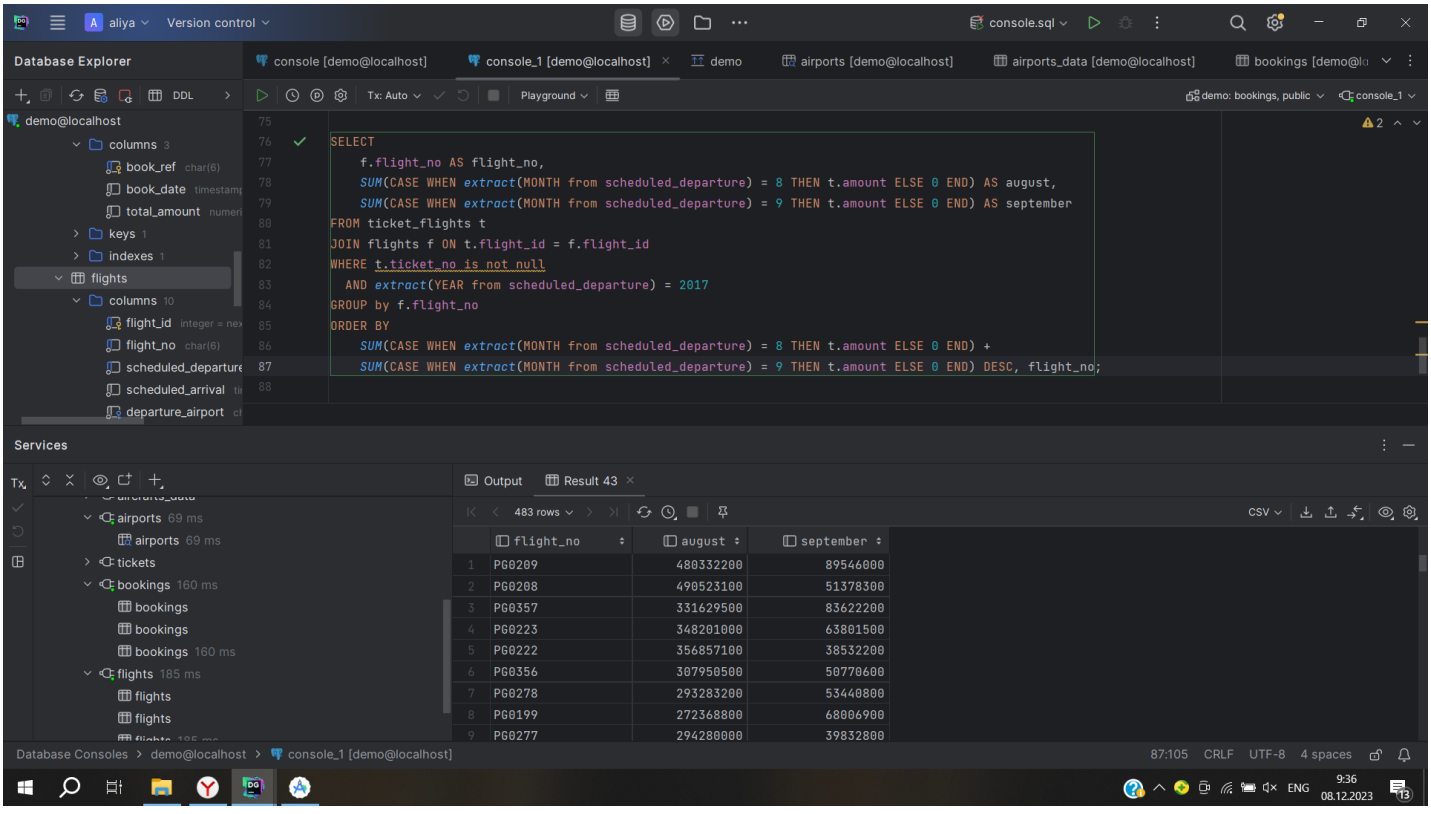


```
-- WHERE t.ticket_no IS NULL;

SELECT t.ticket_no, SUM(t.amount) AS total_revenue
FROM ticket_flights t
JOIN flights f ON t.flight_id = f.flight_id
WHERE t.ticket_no is not null
  AND scheduled_departure between '2017-08-01' and '2017-09-01'
  and extract(MONTH from scheduled_departure) = 8
GROUP BY t.ticket_no
ORDER BY total_revenue DESC;
```

	ticket_no	total_revenue
1	0005434731223	480600
2	0005434731179	444300
3	0005432664161	433200
4	0005435856241	431800
5	0005435856245	431800
6	0005433461591	428600
7	0005432537068	428000
8	0005434731241	427600
9	0005434731200	427600
10	0005432537097	426600
11	0005434731218	424800

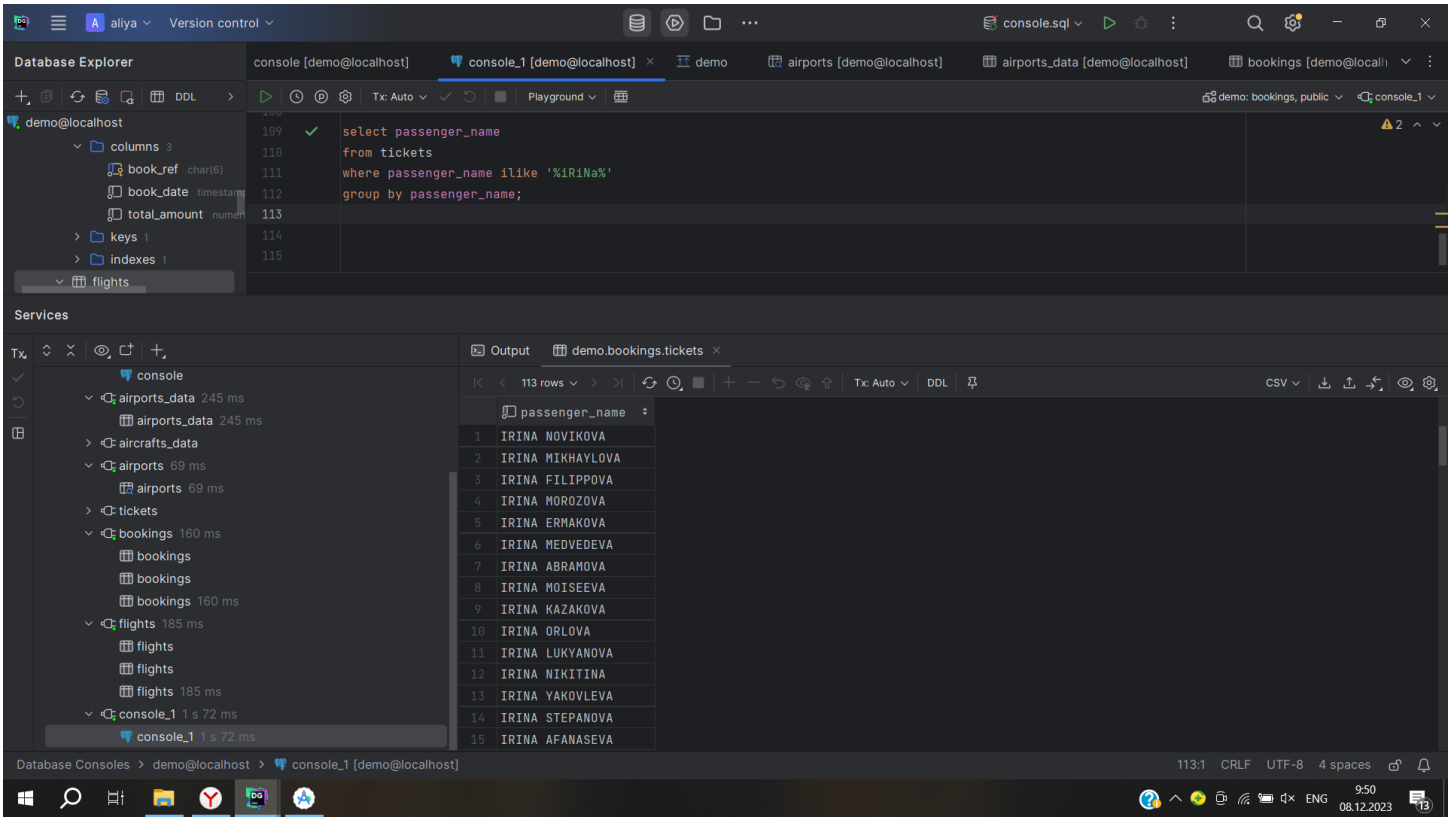
8)



```
SELECT
    f.flight_no AS flight_no,
    SUM(CASE WHEN extract(MONTH from scheduled_departure) = 8 THEN t.amount ELSE 0 END) AS august,
    SUM(CASE WHEN extract(MONTH from scheduled_departure) = 9 THEN t.amount ELSE 0 END) AS september
FROM ticket_flights t
JOIN flights f ON t.flight_id = f.flight_id
WHERE t.ticket_no is not null
  AND extract(YEAR from scheduled_departure) = 2017
GROUP by f.flight_no
ORDER BY
    SUM(CASE WHEN extract(MONTH from scheduled_departure) = 8 THEN t.amount ELSE 0 END) +
    SUM(CASE WHEN extract(MONTH from scheduled_departure) = 9 THEN t.amount ELSE 0 END) DESC, flight_no;
```

	flight_no	august	september
1	PG0209	480332200	89546000
2	PG0208	490523100	51378300
3	PG0357	331629500	83622200
4	PG0223	348201000	63801500
5	PG0222	356857100	38532200
6	PG0356	307950500	50770600
7	PG0278	293283200	53440800
8	PG0199	272368800	68006900
9	PG0277	294280000	39832800

8)


Database Explorer
console [demo@localhost]
console_1 [demo@localhost]
demo
airports [demo@localhost]
airports_data [demo@localhost]
bookings [demo@localh
demo@localhost
columns 3
book_ref char(6)
book_date timestamp
total_amount numeric
keys 1
indexes 1
flights
select passenger_name
from tickets
where passenger_name ilike '%iRiNa%'
group by passenger_name;
Services
console
airports_data 245 ms
airports_data 245 ms
aircrafts_data
airports 69 ms
airports 69 ms
tickets
bookings 160 ms
bookings
bookings
bookings 160 ms
flights 185 ms
flights
flights
flights 185 ms
console_1 1 s 72 ms
console_1 1 s 72 ms
Output
demo.bookings.tickets
113 rows
passenger_name
1 IRINA NOVIKOVA
2 IRINA MIKHAYLOVA
3 IRINA FILIPPOVA
4 IRINA MOROZOVA
5 IRINA ERMAKOVA
6 IRINA MEDVEDEVA
7 IRINA ABRAMOVA
8 IRINA MOISEEVA
9 IRINA KAZAKOVA
10 IRINA ORLOVA
11 IRINA LUKYANOVA
12 IRINA NIKITINA
13 IRINA YAKOVLEVA
14 IRINA STEPANOVA
15 IRINA AFANASEVA
Database Consoles > demo@localhost > console_1 [demo@localhost]
113:1 CRLF UTF-8 4 spaces
ENG
9:50
08.12.2023