Database Explorer

console ✕   ⊞ airports_data   ⊞ boarding_passes   Files ⌄

demo@localhost 1 of 4   ⚠ 2 ✓ 1

demo 1 of 4

bookings

tables 8

aircrafts_data

airports_data

boarding_passes

bookings

flights

seats

ticket_flights

tickets

views 4

routines 2

sequences 1

Database Objects

Server Objects

```sql
93
94
95    SELECT CONCAT(airport_code || ', ' || airport_name || ', ' || city || ', ' || coordinates || ', ' ||
96    FROM airports_data
97    ORDER BY 1 ASC;
98
99    -- контрольная работа
100
101 ✓ SELECT airport_name ->> 'ru' AS airport_name
102    FROM airports_data
103    INTERSECT
104    SELECT city ->> 'ru' AS city
105    FROM airports_data
106    ORDER BY airport_name ASC;
```

demo: bookings, public ⌄   console ⌄

demo-airport_dumpProj ~/DataGr

Scratches and Consoles

Services

	airport_name ⇳
1	Абакан
2	Анадырь
3	Астрахань
4	Барнаул
5	Белгород
6	Белоярский
7	Братск
8	Брянск
9	Бугульма
10	Владивосток
11	Воркута
12	Воронеж
13	Геленджик
14	Горно-Алтайск
15	Грозный
16	Ижевск
17	Иркутск

```sql
SELECT airport_name ->> 'ru' AS airport_name
FROM airports_data
EXCEPT
SELECT city ->> 'ru' AS city
FROM airports_data
ORDER BY airport_name ASC;
```

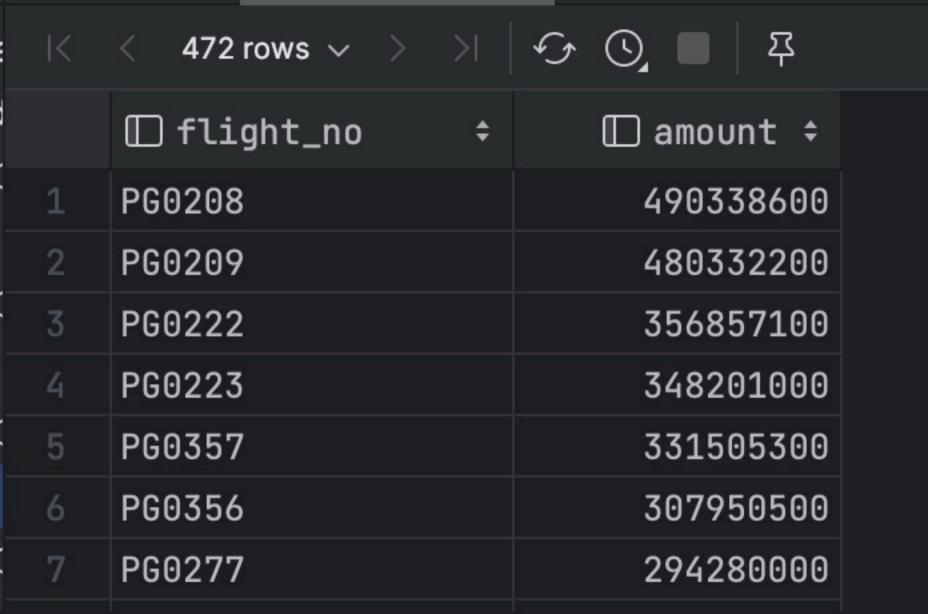|	⬚ airport_name ⇕
1	Байкал
2	Баратаевка
3	Бегишево
4	Беслан
5	Бесовец
6	Богашёво
7	Витязево
8	Внуково
9	Гумрак
10	Домодедово
11	Донское
12	Елизово
13	Емельяново
14	Иваново-Южный
15	Игнатьево
16	Кольцово
17	Курск-Восточный
18	Курумоч
19	Омск-Центральный
20	Оренбург-Центральный
21	Победилово
22	Полярный
23	Пулково
24	Рощино

```sql
SELECT
    aircraft_code,
    COUNT(*) AS flight_count
FROM
    flights
WHERE
    departure_airport = 'KZN'
    AND EXTRACT(MONTH FROM scheduled_departure) = 8
    AND EXTRACT(YEAR FROM scheduled_departure) = 2017
GROUP BY
    aircraft_code, departure_airport
HAVING
    COUNT(*) > 50
ORDER BY
    flight_count DESC,
    aircraft_code ASC;
```

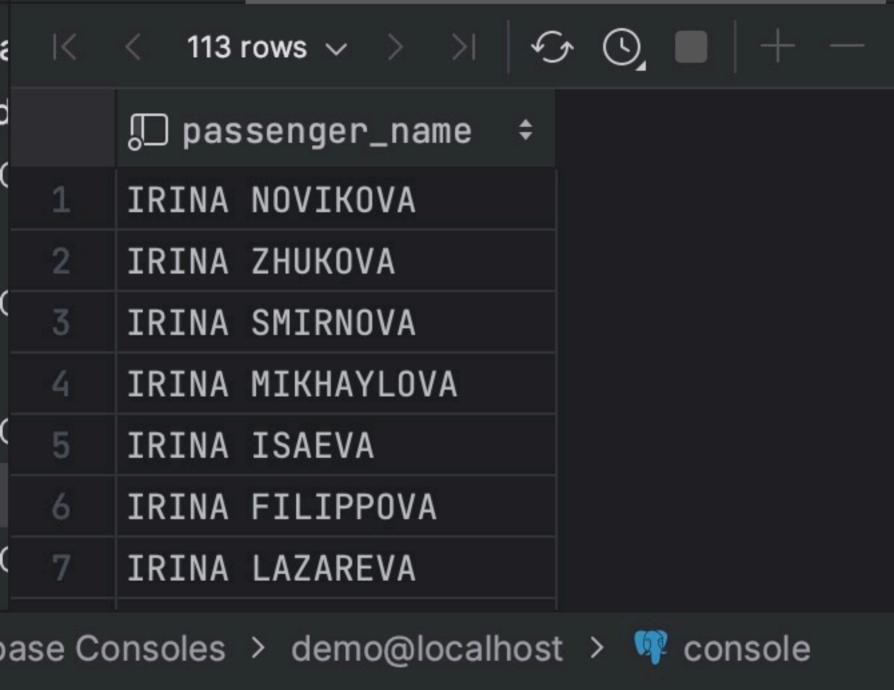|	aircraft_code	flight_count
1	CN1	62
2	SU9	62
3	CR2	54

```sql
select * from airports_data
INNER JOIN flights on airports_data.airport_code = flights.arrival_airport
INNER JOIN ticket_flights on flights.flight_id = ticket_flights.flight_id
INNER JOIN boarding_passes on ticket_flights.flight_id = boarding_passes.flight_id
INNER JOIN tickets on tickets.ticket_no = ticket_flights.ticket_no
INNER JOIN bookings on bookings.book_ref = tickets.book_ref
INNER JOIN aircrafts_data on flights.aircraft_code = aircrafts_data.aircraft_code
INNER JOIN seats on aircrafts_data.aircraft_code = seats.aircraft_code;
```

	airport_code	airport_name	city	coordinates
1	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
2	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
3	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
4	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
5	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
6	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
7	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
8	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
9	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
10	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
11	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
12	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
13	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
14	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
15	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
16	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
17	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
18	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)
19	HMA	{"en": "Khanty Mansiysk Airport", "ru": "Ханты-Мансийск"}	{"en": "Khanty-Mansiysk", "ru": "Ханты-Мансийск"}	(69.08609771728516,61.028499603271484)

```sql
select flights.flight_no, sum(ticket_flights.amount) as amount
from ticket_flights
        join flights on ticket_flights.flight_id = flights.flight_id
where extract(year from scheduled_departure) = 2017
  and extract(month from scheduled_departure) = 8
group by flights.flight_no
order by amount desc;
```

	flight_no	amount
1	PG0208	490338600
2	PG0209	480332200
3	PG0222	356857100
4	PG0223	348201000
5	PG0357	331505300
6	PG0356	307950500
7	PG0277	294280000

```sql
select distinct passenger_name from tickets where passenger_name ilike '%iRiNa%';
```

	passenger_name
1	IRINA NOVIKOVA
2	IRINA ZHUKOVA
3	IRINA SMIRNOVA
4	IRINA MIKHAYLOVA
5	IRINA ISAEVA
6	IRINA FILIPPOVA
7	IRINA LAZAREVA

```sql
select flights.flight_no from ticket_flights
right join flights on flights.flight_id = ticket_flights.flight_id
where ticket_flights.flight_id is null;
```

flight_no
PG0467
PG0403
PG0402
PG0402
PG0402
PG0403
PG0403