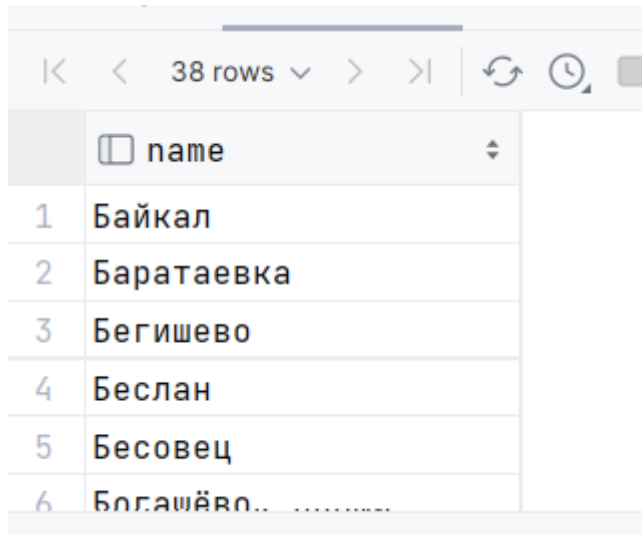


1)

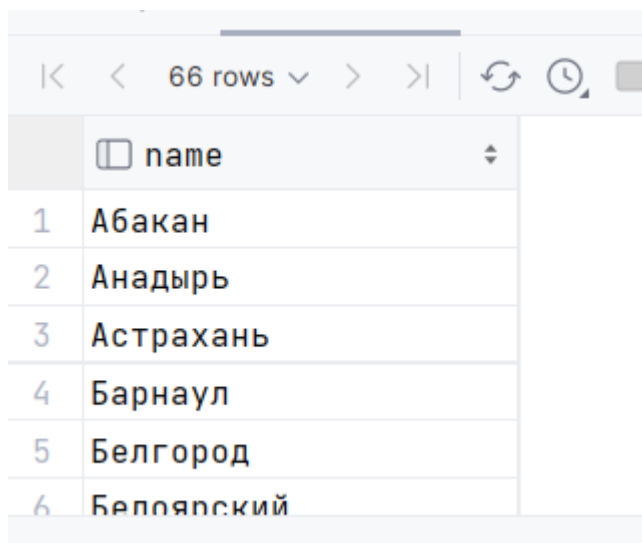
```
select airport_name ->> 'ru' as name
from airports_data
except
select city ->> 'ru' as name
from airports_data
order by name asc;
```



	name
1	Байкал
2	Баратаевка
3	Бегешицево
4	Беслан
5	Бесовец
6	Богашёво

2)

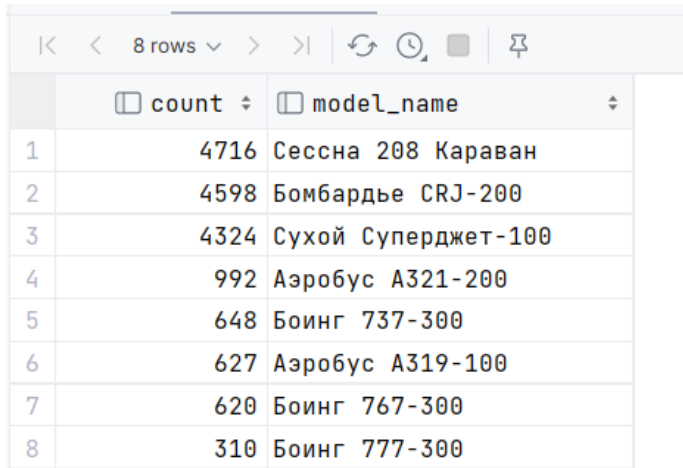
```
select airport_name ->> 'ru' as name
from airports_data
intersect
select city ->> 'ru' as name
from airports_data
order by name asc;
```



	name
1	Абакан
2	Анадырь
3	Астрахань
4	Барнаул
5	Белгород
6	Белоярский

3)

```
select count(flight_id) as count, ad.model ->> 'ru' as model_name
from flights as f
      join aircrafts_data as ad on f.aircraft_code =
ad.aircraft_code
where scheduled_departure >= '2017-08-01'
      and scheduled_departure < '2017-09-01'
      and extract(MONTH FROM scheduled_departure) = 8
group by model_name
order by count(flight_id) desc, model_name asc;
```



	count	model_name
1	4716	Сессна 208 Караван
2	4598	Бомбардье CRJ-200
3	4324	Сухой Суперджет-100
4	992	Аэробус A321-200
5	648	Боинг 737-300
6	627	Аэробус A319-100
7	620	Боинг 767-300
8	310	Боинг 777-300

4)

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

	airport_code	airport_name	city	coordinates
1	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002
2	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002
3	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002
4	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002
5	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002
6	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002
7	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002
8	ABA	{ "en": "Abakan Airport", "ru": "Абакан" }	{ "en": "Abakan", "ru": "Абакан" }	(91.385002

5)

```
select count(f.flight_id)
from ticket_flights as tf
right join flights as f on tf.flight_id = f.flight_id
where tf.ticket_no is null;
```

	count
1	20490

6)

```
select f.flight_no,
       coalesce(sum(t.amount), 0) as total
from flights f
left join
      ticket_flights t on f.flight_id = t.flight_id
WHERE EXTRACT(month from f.scheduled_departure) = 8
      and extract(year from f.scheduled_departure) = 2017
group by f.flight_no
order by total desc;
```

flight_no	total
PG0208	490523100
PG0209	480332200
PG0222	356857100
PG0223	348201000
PG0357	331629500
PG0356	307950500
PG0277	294280000
PG0278	293283200
PG0199	272368800

7)

```
select f.flight_no,  
       extract(mon from f.scheduled_departure) as month,  
       coalesce(sum(t.amount), 0) as total  
from flights f  
       join  
       ticket_flights t on f.flight_id = t.flight_id  
where (extract(month from f.scheduled_departure) = 8  
       or extract(month from f.scheduled_departure) = 9)  
       and extract(year from f.scheduled_departure) = 2017  
group by f.flight_no, month  
order by total desc, flight_no asc ;
```

	flight_no	month	total
1	PG0208	8	490523100
2	PG0209	8	480332200
3	PG0222	8	356857100
4	PG0223	8	348201000
5	PG0357	8	331629500
6	PG0356	8	307950500
7	PG0277	8	294280000
8	PG0278	8	293283200
9	PG0199	8	272368800

8)

```
select distinct passenger_name  
FROM tickets  
where passenger_name like upper('iRiNa%');
```

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