

## 1 задание

```
--1
select airport_name ->> 'ru' as название
from airports_data
except
select city ->> 'ru'
from airports_data
order by название;
```

38 rows

	<input type="checkbox"/> название
1	Байкал
2	Баратаевка
3	Бегишево
4	Беслан
5	Бесовец
6	Богашёво
7	Витязево
8	Внуково
9	Гумрак
10	Дарытасово

## 2 задание

```
--2
select airport_name ->> 'ru' as название
from airports_data
intersect
select city ->> 'ru'
from airports_data
order by название;
```

66 rows	
	название
1	Абакан
2	Анадырь
3	Астрахань
4	Барнаул
5	Белгород
6	Белоярский
7	Братск
8	Брянск
9	Бугульма

### 3 задание

```
--3
select aircrafts_data.aircraft_code, count(flights) as кол_во
from flights
join aircrafts_data on flights.aircraft_code = aircrafts_data.aircraft_code
where flights.departure_airport = 'KZN' and extract(YEAR from flights.scheduled_departure) = 2017
and extract(Month from flights.scheduled_departure) = 8
group by aircrafts_data.aircraft_code
having count(flights) > 50
order by кол_во desc, aircrafts_data.aircraft_code;
```

3 rows		
	aircraft_code	кол_во
1	CN1	62
2	SU9	62
3	CR2	54

### 4 задание

```
--4

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

	airport_code	airport_name	city	coordinates	timezone	flights.f
1	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
2	AER	airport_code: char(3) {"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
3	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
4	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
5	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
6	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
7	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
8	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
9	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	
10	AER	{"en": "Sochi International Airport", "ru": "Сочи"}	{"en": "Sochi", "ru": "Сочи"}	(39.956600189209, 43.449901580811)	Europe/Moscow	

5 задание

```
--5

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;
```

1-500 ▾ of 501+ >	
	flight_no ↕
1	PG0467
2	PG0403
3	PG0402
4	PG0402
5	PG0402
6	PG0403
7	PG0403
8	PG0403
9	PG0403
10	PG0403

6 задание

```
--6
select flight_no, sum(ticket_flights.amount) as выручка
from ticket_flights
join flights on ticket_flights.flight_id = flights.flight_id
where extract(YEAR from flights.scheduled_departure) = 2017
and extract(Month from flights.scheduled_departure) = 8
group by flight_no, scheduled_departure
order by выручка desc;
```

	flight_no	выручка
1	PG0208	17146600
2	PG0209	17023600
3	PG0208	16962100
4	PG0208	16900600
5	PG0208	16839100
6	PG0208	16777600
7	PG0208	16777600
8	PG0208	16593100
9	PG0208	16593100
10	PG0209	16593100
11	PG0208	16593100

## 7 задание

Здесь могла бы быть ваша реклама

## 8 задание

```
--8
--Первая реализация
select distinct passenger_name
from tickets
where passenger_name ilike '%iRiNa%';

--Вторая реализация
select passenger_name
from tickets
where passenger_name ilike '%iRiNa%'
group by passenger_name;
```

113 rows	
	passenger
1	IRINA NOVIKOVA
2	IRINA ZHUKOVA
3	IRINA SMIRNOVA
4	IRINA MIKHAYLOVA
5	IRINA ISAEVA
6	IRINA FILIPPOVA
7	IRINA LAZAREVA
8	IRINA KUZMINA
9	IRINA TIKHONOVA
10	IRINA MOROZOVA
11	IRINA TILINA