

Задача 1

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

	airport_name		
1	Байкал	29	Толмачёво
2	Баратаевка	30	Туношна
3	Бегишево	31	Уйташ
4	Беслан	32	Ульяновск-Восточный
5	Бесовец	33	Хабаровск-Новый
6	Богашёво	34	Хомутово
7	Витязево	35	Храброво
8	Внуково	36	Хурба
9	Гумрак	37	Чульман
10	Домодедово	38	Шереметьево
11	Донское		
12	Елизово		

Задача 2

```
SELECT airport_name->>'ru' AS airport_name
FROM airports_data
INTERSECT
SELECT city->>'ru'
FROM airports_data
ORDER BY airport_name;
```

	airport_name		
1	Абакан	55	Усинск
2	Анадырь	56	Усть-Илимск
3	Астрахань	57	Усть-Кут
4	Барнаул	58	Уфа
5	Белгород	59	Ухта
6	Белоярский	60	Ханты-Мансийск
7	Братск	61	Чебоксары
8	Брянск	62	Челябинск
9	Бугульма	63	Череповец
10	Владивосток	64	Чита
11	Воркута	65	Элиста
12	Воронеж	66	Якутск
13	Геленджик		
14	Горно-Алтайск		

Задача 3

```
SELECT a.model->>'ru' as name, COUNT(f.flight_no) AS cnt
FROM flights f INNER JOIN aircrafts_data a ON f.aircraft_code =
a.aircraft_code
WHERE f.departure_airport = 'KZN' AND f.scheduled_departure::text LIKE '2017-
08-%'
GROUP BY a.model
HAVING COUNT(f.flight_no) > 50
ORDER BY cnt DESC, name;
```

	name	cnt
1	Сессна 208 Караван	62
2	Сухой Суперджет-100	62
3	Бомбардье CRJ-200	54

Задача 4

```
SELECT * FROM aircrafts_data
INNER JOIN airports_data ON airports_data.airport_code !=
aircrafts_data.aircraft_code
INNER JOIN boarding_passes ON boarding_passes.ticket_no !=
aircrafts_data.aircraft_code
INNER JOIN bookings ON bookings.book_ref != aircrafts_data.aircraft_code
INNER JOIN flights ON flights.flight_no != aircrafts_data.aircraft_code
INNER JOIN seats ON seats.aircraft_code = aircrafts_data.aircraft_code
INNER JOIN ticket_flights ON ticket_flights.ticket_no !=
aircrafts_data.aircraft_code
INNER JOIN tickets ON tickets.ticket_no != aircrafts_data.aircraft_code;
```

[2023-12-08 10:45:30] [53100] ОШИБКА: не удалось записать в файл "base/pgsql_tmp/pgsql_tmp24820.31": No space left on device

Задача 5

```
SELECT f.flight_no FROM ticket_flights t RIGHT JOIN flights f ON t.flight_id
= f.flight_id WHERE t.ticket_no IS NULL
GROUP BY f.flight_no
```

	flight_no		
		610	PG0696
1	PG0001	611	PG0697
2	PG0002	612	PG0698
3	PG0003	613	PG0700
4	PG0004	614	PG0701
5	PG0005	615	PG0702
6	PG0006	616	PG0703
7	PG0007	617	PG0705
8	PG0008	618	PG0706
9	PG0009	619	PG0707
10	PG0010		

Задача 6

```
SELECT f.flight_no, SUM(amount) as revenue FROM ticket_flights t INNER JOIN
flights f ON t.flight_id = f.flight_id
WHERE f.scheduled_departure::text LIKE '2017-08-%'
GROUP BY f.flight_no
ORDER BY revenue DESC;
```

	flight_no	revenue			
1	PG0208	490338600			
2	PG0209	480332200			
3	PG0222	356857100			
4	PG0223	348201000	461	PG0077	418000
5	PG0357	331505300	462	PG0038	408900
6	PG0356	307950500	463	PG0030	349800
7	PG0277	294280000	464	PG0352	334400
8	PG0278	293283200	465	PG0535	264000
9	PG0199	272320100	466	PG0354	206800
10	PG0198	264368400	467	PG0079	198000
11	PG0225	183613400	468	PG0097	168000
12	PG0226	178342500	469	PG0098	123200
13	PG0013	167781900	470	PG0343	118800
14	PG0224	167485600	471	PG0685	72400
			472	PG0590	6400

Задание 8

```
SELECT passenger_name FROM tickets WHERE passenger_name ILIKE 'iRiNa%'
GROUP BY passenger_name;
```

	 passenger_name		
1	IRINA NOVIKOVA	103	IRINA POLYAKOVA
2	IRINA ZHUKOVA	104	IRINA KRASNOVA
3	IRINA SMIRNOVA	105	IRINA KISELEVA
4	IRINA MIKHAYLOVA	106	IRINA KARPOVA
5	IRINA ISAEVA	107	IRINA GORBUNOVA
6	IRINA FILIPPOVA	108	IRINA BORISOVA
7	IRINA LAZAREVA	109	IRINA NAUMOVA
8	IRINA KUZMINA	110	IRINA LOGINOVA
9	IRINA TIKHONOVA	111	IRINA GAVRILOVA
10	IRINA MOROZOVA	112	IRINA DAVYDOVA
11	IRINA ILINA	113	IRINA KOROLEVA
12	IRINA MATVEEVA		
13	IRINA ERMAKOVA		