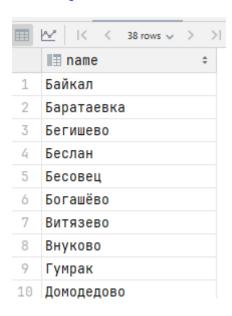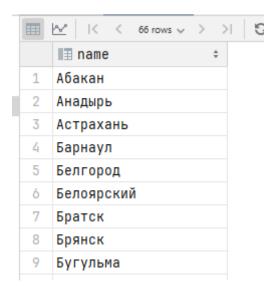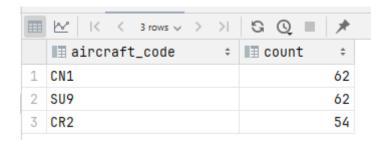```
-- 1
select airports_data.airport_name ->> 'ru' as name from airports_data
EXCEPT
SELECT airports_data.city ->> 'ru' from airports_data
order by name;
```

| | name |
|---|---|
| 1 | Байкал |
| 2 | Баратаевка |
| 3 | Бегишево |
| 4 | Беслан |
| 5 | Бесовец |
| 6 | Богашёво |
| 7 | Витязево |
| 8 | Внуково |
| 9 | Гумрак |
| 10 | Домодедово |

38 rows

```
-- 2
select airports_data.airport_name ->> 'ru' as name from airports_data
INTERSECT
SELECT airports_data.city ->> 'ru' from airports_data
order by name;
```

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

66 rows

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

aircraft_code	count
1 CN1	62
2 SU9	62
3 CR2	54

```sql
-- 4
select * from bookings
join tickets on bookings.book_ref = tickets.book_ref
join ticket_flights on tickets.ticket_no = ticket_flights.ticket_no
join boarding_passes on ticket_flights.ticket_no = boarding_passes.ticket_no
and ticket_flights.flight_id = boarding_passes.flight_id
join flights on ticket_flights.flight_id = flights.flight_id
join airports_data on flights.departure_airport = airports_data.airport_code
join aircrafts_data on flights.aircraft_code = aircrafts_data.aircraft_code
join seats on aircrafts_data.aircraft_code = seats.aircraft_code
```
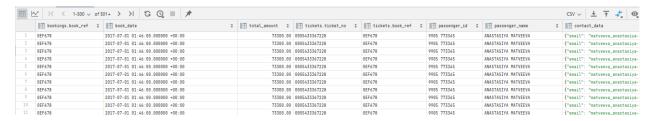
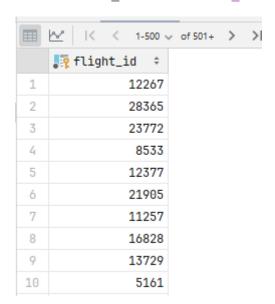|	bookings.book_ref	book_date	total_amount	tickets.ticket_no	tickets.book_ref	passenger_id	passenger_name	contact_data
1	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
2	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
3	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
4	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
5	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
6	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
7	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
8	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
9	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
10	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-
11	0EF678	2017-07-01 01:46:00.000000 +00:00	73300.00	0005433367228	0EF678	9905 773345	ANASTASIYA MATVEEVA	{"email": "matveeva_anastasiya-

```sql
-- 5
select flights.flight_id
from ticket_flights
        RIGHT JOIN flights on flights.flight_id = ticket_flights.flight_id
where ticket_flights.flight_id is null;
```

	flight_id
1	12267
2	28365
3	23772
4	8533
5	12377
6	21905
7	11257
8	16828
9	13729
10	5161

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

	flight_no	sum
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	PG0209	16593100
10	PG0208	16593100

```sql
-- 7
select flight_no,
       (select sum(amount) from ticket_flights where ((select extract(YEAR
from scheduled_departure)) = 2017 and (select extract(Month from
scheduled_departure)) = 8 and flights.flight_id = ticket_flights.flight_id))
as august,
       (select sum(amount) from ticket_flights where ((select extract(YEAR
from scheduled_departure)) = 2017 and (select extract(Month from
scheduled_departure)) = 9  and flights.flight_id = ticket_flights.flight_id))
as september  from ticket_flights
join flights on ticket_flights.flight_id = flights.flight_id
group by flight_no, scheduled_departure
order by flight_no, september desc , august desc;
```

	flight_no	august	september
1	PG0012	<null>	<null>
2	PG0012	<null>	<null>
3	PG0012	<null>	<null>
4	PG0012	<null>	<null>
5	PG0012	<null>	<null>
6	PG0012	<null>	<null>
7	PG0012	20766980900	<null>
8	PG0012	20766980900	<null>
9	PG0012	20766980900	<null>
10	PG0012	20766980900	<null>

```sql
-- 8
select tickets.passenger_name from tickets
where passenger_name ilike '%iRiNa%'
group by tickets.passenger_name
```

	passenger_name
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

113 rows