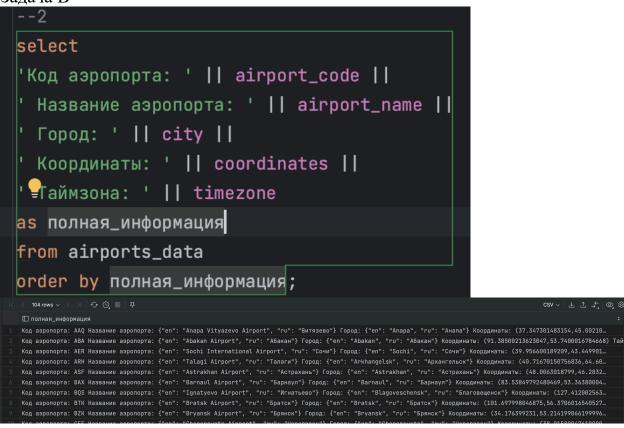
#### Задача А

```
select airport_code, city
from airports_data
where city ->> 'ru' = 'Москва' or city ->> 'ru' = 'Казань'
group by airport_code
order by airport_code desc;
	imes 	imes 4 rows 	imes 	imes 	imes 	imes 	imes 	imes 	imes 	imes 	imes 	imes DDL
  🚂 airport_code

‡ □ city
1 VK0
                         {"en": "Moscow", "ru": "Москва"}
2 | SV0
                         {"en": "Moscow", "ru": "Москва"}
                         {"en": "Kazan", "ru": "Казань"}
3 KZN
                         {"en": "Moscow", "ru": "Москва"}
  DME
```

# Задача В



## Задача С

```
select departure_airport, count(*) as кол_во_полетов
from flights
where departure_airport in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
group by departure_airport
order by кол_во_полетов desc;
 |< < 6 rows ∨ > >| ← ○ □ □ □ □ □

  □ departure_airport

                                         Ш кол_во_полетов ≎
 1 DME
                                                          3217
 2 SV0
                                                          2981
 3 LED
                                                          1900
4 OVB
                                                          1055
5 KZN
                                                           471
 6 IKT
                                                           366
```

#### Задача D

```
select departure_airport, count(*) as кол_во_полетов
from flights
where departure_airport not in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
group by departure_airport
order by кол_во_полетов;
|< < 98 rows ∨ > >| ← ⑤ ⑤ □ □ □
   Ш кол_во_полетов ≎
1 USK
  PKC
                                         26
  PYJ
                                          27
5 NYA
                                          27
  IWA
                                          34
   DYR
  GDX
9 KYZ
10 LPK
```

#### Задача Е

```
select flights.flight_no, count(ticket_flights) as кол_во_пассажиров, flights.scheduled_departure
from flights
join ticket_flights
on ticket_flights.flight_id = flights.flight_id
group by flights.flight_no, flights.scheduled_departure
having count(ticket_flights) between 27 and 90
order by flights.flight_no, flights.scheduled_departure, кол_во_пассажиров desc;

☐ flight_no

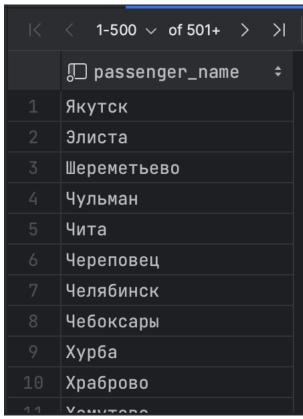
                          1 PG0013
                                             68 2017-09-10 15:15:00.000000 +00:00
   PG0013
                                             50 2017-09-11 15:15:00.000000 +00:00
   PG0013
                                             53 2017-09-12 15:15:00.000000 +00:00
                                             43 2017-09-13 15:15:00.000000 +00:00
   PG0013
   PG0014
                                             41 2017-07-16 04:30:00.000000 +00:00
                                             36 2017-07-17 04:30:00.000000 +00:00
   PG0014
   PG0014
                                             38 2017-07-18 04:30:00.000000 +00:00
   PG0014
                                             39 2017-07-19 04:30:00.000000 +00:00
   PG0014
                                             38 2017-07-20 04:30:00.000000 +00:00
10 PG0014
                                             43 2017-07-21 04:30:00.000000 +00:00
```

#### Задача F

```
select tickets.passenger_name, flights.departure_airport
from tickets
join ticket_flights on tickets.ticket_no = ticket_flights.ticket_no
join flights on ticket flights.flight_id = flights.flight_id
order by tickets.passenger_name desc, flights.departure_airport desc;

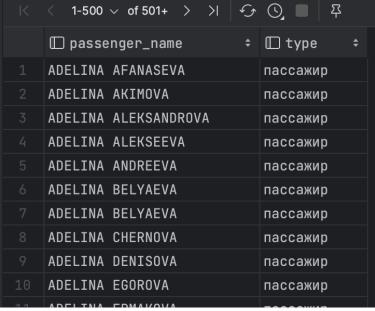
-- или вот так еще можно (это вроде то, что по условию нужно)

select passenger_name
from tickets
union all
select airport_name
from airports
order by passenger_name desc;
```



### Задача G

--7
select passenger\_name, 'пассажир' as type
from tickets
union all
select airport\_name, 'аэропорт' as type
from airports
order by type desc, passenger\_name;



# Задача Н

## Задача І

```
with seats_count as (
   select aircrafts_data.aircraft_code, count(seats) as seats_count
   from aircrafts_data
   join seats on aircrafts_data.aircraft_code = seats.aircraft_code
   group by aircrafts_data.aircraft_code
tickets_count as (
   select flights.flight_id, count(ticket_flights) as tickets_count
   from flights
   join ticket_flights on flights.flight_id = ticket_flights.flight_id
   group by flights.flight_id
select departure_airport, avg(seats_count.seats_count) as средняя_вместимость, avg(tickets_count.tickets_count) as среднее_кол_в
from flights
join seats_count on flights.aircraft_code = seats_count.aircraft_code
join tickets_count on flights.flight_id = tickets_count.flight_id
where extract(month from scheduled_departure) = 8 and extract(year from scheduled_departure) = 2017
group by departure_airport
order by средняя_вместимость desc, среднее_кол_во_билетов desc;
         94 rows > > > | 🗸 🕓 🖺 📮
     ■ departure_airport
                                              □ средняя_вместимость ≎
                                                                                    □ среднее_кол_во_билетов ≎
    РКС
                                                                                             68.2307692307692308
     GDX
                                                                       222
                                                                                                               29.5
                                                                                             28.7777777777777
    KXK
                                                                       222
     KRR
                                                   196.4533333333333333
                                                                                            117.8133333333333333
     KUF
                                                                       176
                                                                                            129.2258064516129032
                                                   159.3915343915343915
                                                                                            110.8941798941798942
     AER
                                                   138.1991525423728814
                                                                                              99.211864406779661
     SVX
     RGK
                                                                       130
                                                                                                              13.75
     SCW
                                                   125.4845360824742268
                                                                                             89.0206185567010309
     KHV
                                                   123.8488372093023256
                                                                                             86.8197674418604651
     VVO
                                                   123.7934782608695652
                                                                                             41.5217391304347826
```

# Задача Ј

Задача з			
76 77 <b>✓</b> 78	10 select flight_no, min(ticket_flights.amount) as минимальная_цена, max(ticket_flights.amount) as максимальная_цена from flights		
79 <b>80</b>	<pre>join ticket_flights on flights.flight_id = ticket_flights.flight_id group by flight_na;</pre>		
I<			
	<pre>□ flight_no</pre>		
1	PG0012	12300	13500
2	PG0013	14000	42100
3	PG0014	3300	9800
4	PG0015	18700	20600
5	PG0016	18700	20600
6	PG0019	9500	10500
7	PG0020	9500	10500
8	PG0029	5300	5300
9	PG0030	5300	5300
10	PG0032	5300	5300