```
A)
select airport code, city
from airports data
where city ->> 'ru' in ('Казань', 'Москва')
order by airport code DESC;

‡ □ city

                              {"en": "Moscow", "ru": "Москва"}
 1 VK0
                              {"en": "Moscow", "ru": "Москва"}
 2 SV0
                              {"en": "Каzan", "ru": "Казань"}
 3 KZN
                             {"en": "Moscow", "ru": "Москва"}
 4 DME
B)
select CONCAT(airport code,' ', airport name, ' ', city, ' ',
coordinates, ' ', timezone) as "полная информация"
from airports
order by "полная информация" ASC;
□ "полная информация"
 1 AAQ Витязево Анапа (37.347301483154,45.002101898193) Europe/Moscow
 2 ABA A6akah A6akah (91.38500213623047,53.7400016784668) Asia/Krasnoyarsk
 3 AER Сочи Сочи (39.956600189209,43.449901580811) Europe/Moscow
 4 ARH Талаги Архангельск (40.71670150756836,64.60030364990234) Europe/Moscow
   ASF Астрахань Астрахань (48.0063018799,46.2832984924) Europe/Samara
 6 ВАХ Барнаул Барнаул (83.53849792480469,53.363800048828125) Asia/Krasnoyarsk
 7 BQS Игнатьево Благовещенск (127.41200256347656,50.42539978027344) Asia/Yakutsk
 8 BTK Братск Братск (101.697998046875,56.370601654052734) Asia/Irkutsk
C)
select departure airport, count(flight id)
from flights
where departure airport in ('KZN', 'DME', 'OVB', 'IKT', 'LED',
'SVO')
group by departure airport
order by count(flight_id) DESC;
|< < 6 rows > >| 🖅 🕓 🔲 📮
  □ count ‡
1 DME
                                        6376
2 SV0
                                        5912
3 LED
                                        3769
4 OVB
                                        2091
5 KZN
                                         934
6 IKT
                                         727
```

```
D)
select departure_airport, count(flight_id)
from flights
where departure_airport not in ('KZN', 'DME', 'OVB', 'IKT', 'LED',
'SVO')
group by departure_airport
order by count(flight id) ASC;
```

<	< 98 rows > > 🗗 🔾 🔳	昪
	☐ departure_airport \$	□ count ‡
1	usk	34
2	KXK	35
3	PYJ	51
4	NYA	51
5	PKC	52
6	IWA	68
7	GDX	70
8	DYR	70

E)

```
select f.flight_id, f.scheduled_departure, count(tf.ticket_no)
from ticket_flights as tf
join flights as f on tf.flight_id = f.flight_id
group by f.flight_id, f.scheduled_departure having
count(tf.ticket_no) between 27 and 90
order by f.flight_id DESC, f.scheduled_departure DESC,
count(tf.ticket_no) DESC;
```

☐ flight_id ‡	□ scheduled_departure	\$ □ count ‡
65420	2017-06-25 06:05:00.000000 +00:00	39
65419	2017-06-10 06:05:00.000000 +00:00	46
65418	2017-06-11 06:05:00.000000 +00:00	29
65417	2017-08-07 06:05:00.000000 +00:00	38
65414	2017-07-02 06:05:00.000000 +00:00	44
65413	2017-07-26 06:05:00.000000 +00:00	38
65407	2017-06-09 06:05:00.000000 +00:00	31
65405	2017-07-27 06:05:00.000000 +00:00	30

```
F)
select t.passenger_name as info
from tickets as t
union
select f.departure_airport as info
from flights as f
group by info
order by info DESC;
```

	□ info		\$
1	ZULFIYA	ZOTOVA	
2	ZULFIYA	ZHURAVLEVA	
3	ZULFIYA	ZHUKOVA	
4	ZULFIYA	ZAYCEVA	
5	ZULFIYA	ZAKHAROVA	
6	ZULFIYA	YUDINA	
7	ZULFIYA	YAKOVLEVA	
8	ZULFIYA	VOROBEVA	

G)

```
select t.passenger_name as info, 'Παccaжup' as type from tickets as t union select f.departure_airport as info, 'Αэροπορτ' as type from flights as f group by info, type order by type DESC , info DESC;
```

	□ info	□ type
1	ZULFIYA ZOTOVA	Пассажир
2	ZULFIYA ZHURAVLEVA	Пассажир
3	ZULFIYA ZHUKOVA	Пассажир
4	ZULFIYA ZAYCEVA	Пассажир
5	ZULFIYA ZAKHAROVA	Пассажир
6	ZULFIYA YUDINA	Пассажир
7	ZULFIYA YAKOVLEVA	Пассажир
8	ZULFIYA VOROBEVA	Пассажир

```
H)
select count(f.flight id)
from flights as f
left join ticket flights tf on f.flight id = tf.flight id
where tf.ticket_no is null;
□ count ‡
         20490
I)
select distinct on (departure airport) departure airport,
                                       avg(ad.range) over
(partition by departure airport)
                                            as avg range,
                                       avg(count(f.flight id)) over
(partition by departure airport) as avg count
from flights as f
        join ticket flights tf on f.flight id = tf.flight id
        join aircrafts data as ad on f.aircraft code =
ad.aircraft code
where scheduled departure >= '2017-09-01'
and scheduled departure < '2017-10-01'
and extract (MONTH FROM scheduled departure) = 9
group by departure airport, ad.range
order by departure_airport desc, avg_range desc, avg_count desc;
   □ departure_airport
                                  □ avg_range ‡
                                                       □ avg_count ‡
 1 YKS
                                          4700
                                                               170
 2 VV0
                                                   227.33333333333333333
                             4533.3333333333333333
 3 VOZ
                                          2700
                                                               142
```

3000

6166.6666666666666667

1729

500

774

4 V0G

5 VKT

6 VKN

☐ flight_no	\$ □ max ‡	□ min ‡
PG0012	13500	12300
PG0013	42100	14000
PG0014	9800	3300
PG0015	20600	18700
PG0016	20600	18700
PG0019	10500	9500
PG0020	10500	9500
PG0029	5300	5300