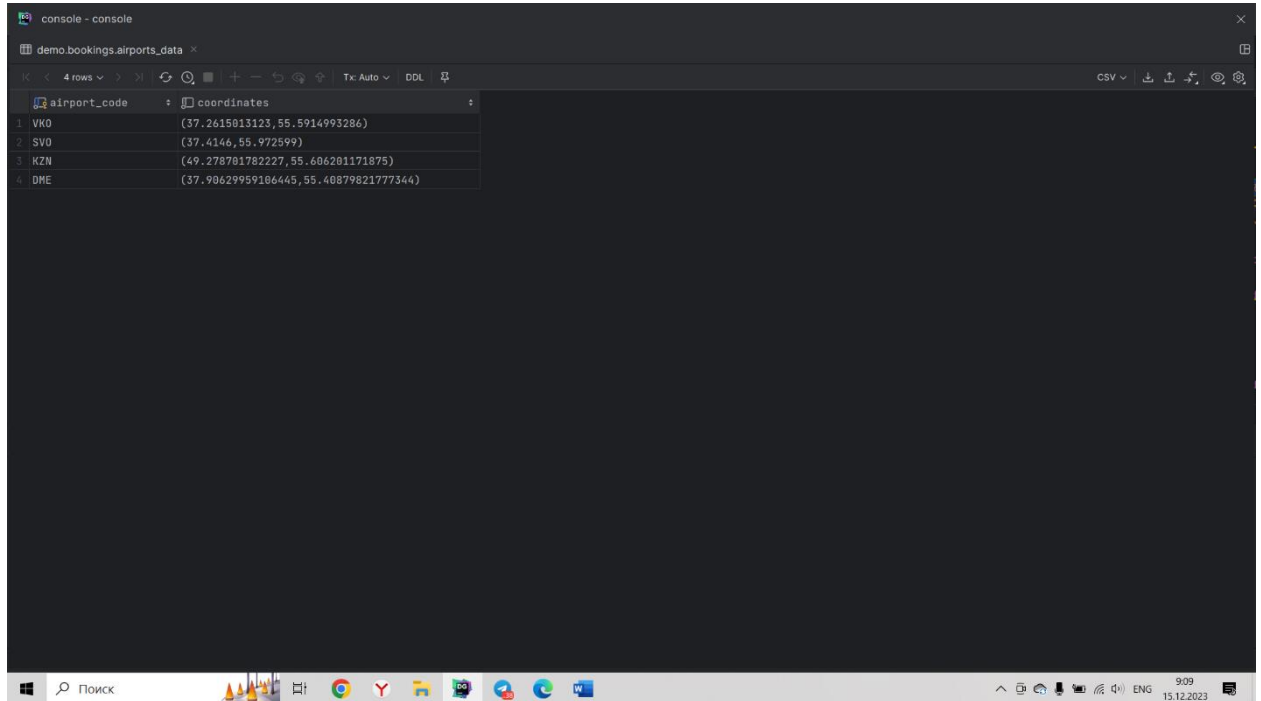


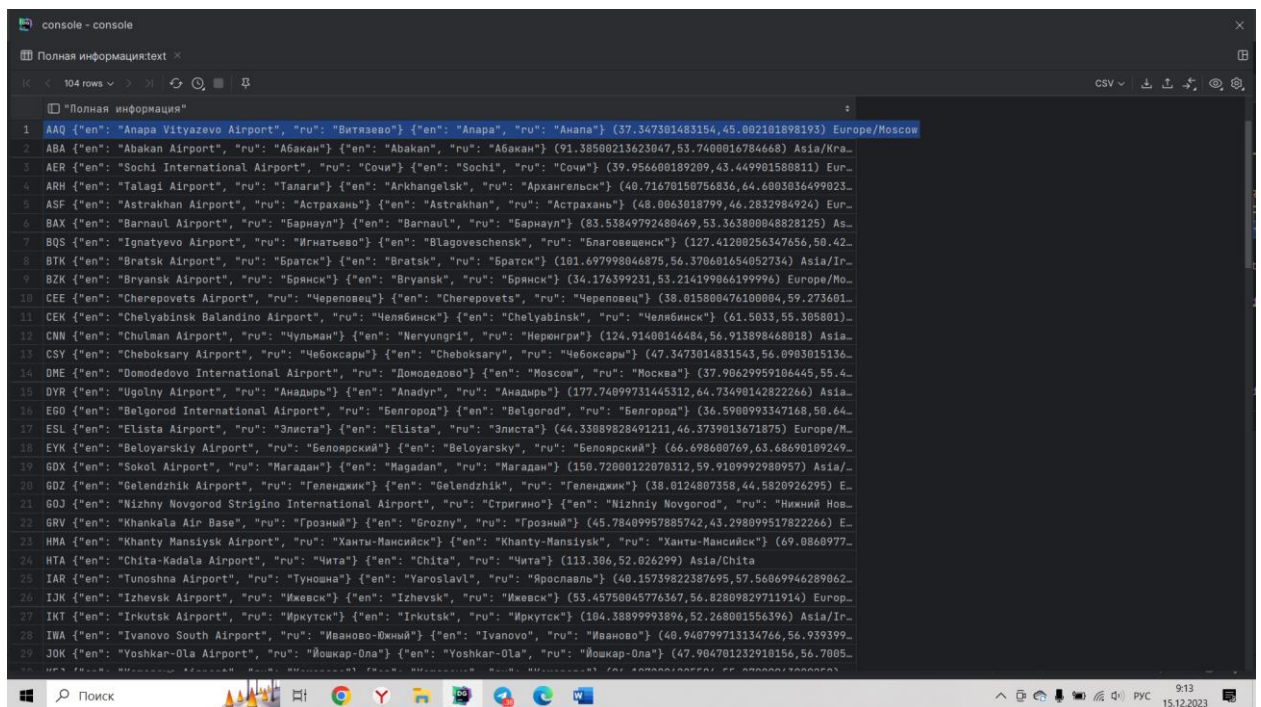
SQL Запросы

```
A. select airport_code,coordinates from airports_data where city = '{"en": "Kazan", "ru": "Казань"}' or city = '{"en": "Moscow", "ru": "Москва"}' ORDER BY airport_code DESC;
```



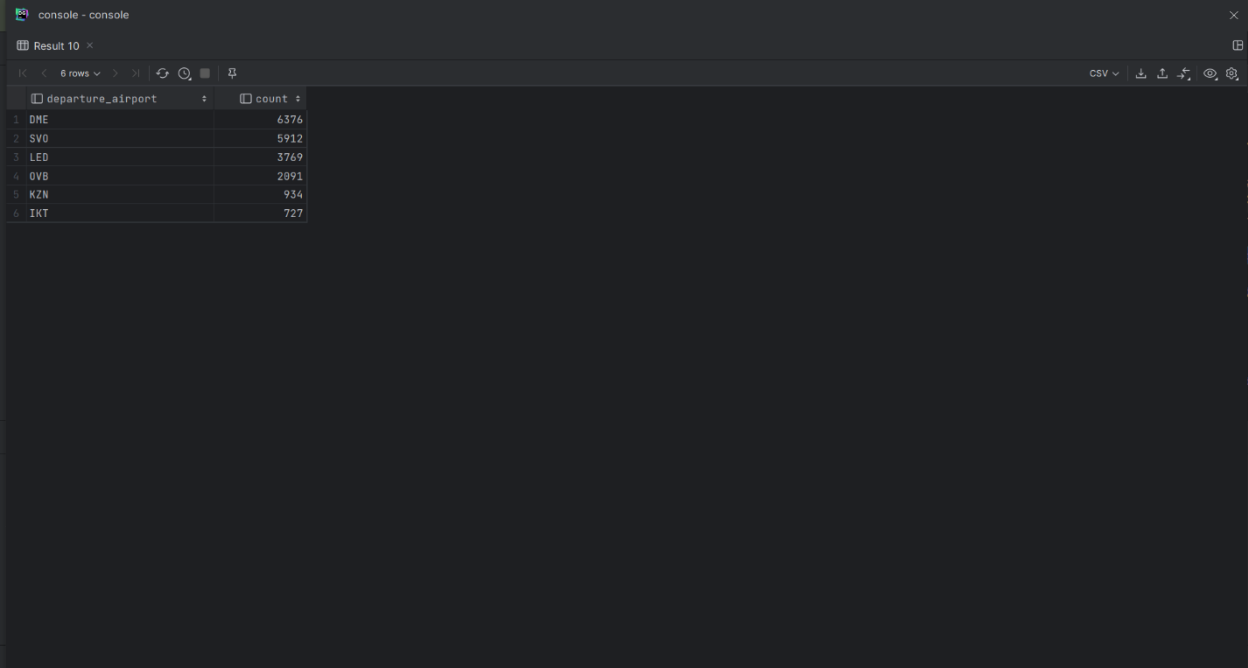
airport_code	coordinates
VKO	(37.2615013123,55.5914993286)
SVO	(37.4146,55.972599)
KZN	(49.278701782227,55.606201171875)
DME	(37.90629959106445,55.40879821777344)

```
B. select (airport_code || ' ' || airport_name || ' ' || city || ' ' || coordinates || ' ' || timezone) as "Полная информация" from airports_data order by "Полная информация" ASC;
```



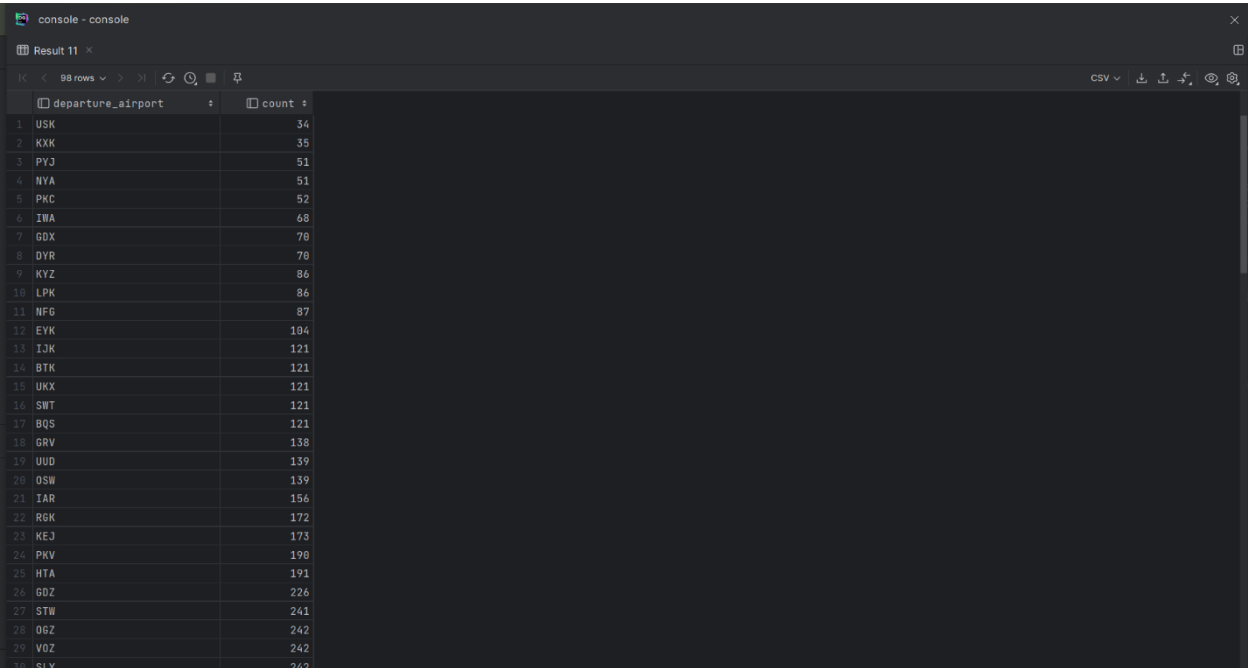
Полная информация
AAQ {'en': 'Anapa Vityazevo Airport', 'ru': 'Витязево'} {'en': 'Анапа', 'ru': 'Анапа'} (37.347301483154,45.002101898193) Europe/Moscow
ABA {'en': 'Abakan Airport', 'ru': 'Абакан'} {'en': 'Абакан', 'ru': 'Абакан'} (91.38500213623047,53.7400016784668) Asia/Kras
AER {'en': 'Sochi International Airport', 'ru': 'Сочи'} {'en': 'Sochi', 'ru': 'Сочи'} (39.956600189209,43.449901580811) Eur
ARH {'en': 'Talagi Airport', 'ru': 'Талги'} {'en': 'Arkhangelsk', 'ru': 'Архангельск'} (40.71670150756836,64.6003036499023)
ASF {'en': 'Astrakhan Airport', 'ru': 'Астрахань'} {'en': 'Astrakhan', 'ru': 'Астрахань'} (48.0063018799,46.2832984924) Eur
BAX {'en': 'Barnaul Airport', 'ru': 'Барнаул'} {'en': 'Barnaul', 'ru': 'Барнаул'} (83.53849792480469,53.36380004882125) As
BQS {'en': 'Ignatyev Airport', 'ru': 'Игнатьево'} {'en': 'Blagoveschensk', 'ru': 'Благовещенск'} (127.41200256347656,50.42
BTk {'en': 'Bratsk Airport', 'ru': 'Братск'} {'en': 'Bratsk', 'ru': 'Братск'} (101.697998046875,56.370601654052734) Asia/Ir
BZK {'en': 'Bryansk Airport', 'ru': 'Брянск'} {'en': 'Bryansk', 'ru': 'Брянск'} (34.176399231,53.214199066199996) Europe/Mo
CEE {'en': 'Cherepovets Airport', 'ru': 'Череповец'} {'en': 'Cherepovets', 'ru': 'Череповец'} (38.0158000476100004,59.273601
CEK {'en': 'Chelyabinsk Balandino Airport', 'ru': 'Челябинск'} {'en': 'Chelyabinsk', 'ru': 'Челябинск'} (61.5033,55.305801)
CNN {'en': 'Chulman Airport', 'ru': 'Чулым'} {'en': 'Neryungri', 'ru': 'Нерюнгри'} (124.91400146484,56.913898468018) Asia
CSY {'en': 'Cheboksary Airport', 'ru': 'Чебоксары'} {'en': 'Cheboksary', 'ru': 'Чебоксары'} (47.3473014831543,56.0983015136
DME {'en': 'Domodedovo International Airport', 'ru': 'Домодедово'} {'en': 'Moscow', 'ru': 'Москва'} (37.90629959106445,55.4
DYR {'en': 'Ugolino Airport', 'ru': 'Анадырь'} {'en': 'Anadyr', 'ru': 'Анадырь'} (177.74099973145312,64.73490142822266) Asia
EGD {'en': 'Belgorod International Airport', 'ru': 'Белгород'} {'en': 'Belgorod', 'ru': 'Белгород'} (36.5900993347168,50.64
ESL {'en': 'Elista Airport', 'ru': 'Элиста'} {'en': 'Elista', 'ru': 'Элиста'} (44.33089828491211,46.3739013671875) Europe/M
EYK {'en': 'Beloyarskiy Airport', 'ru': 'Белоярский'} {'en': 'Beloyarsky', 'ru': 'Белоярский'} (66.698600769,63.68690109249
GDX {'en': 'Sokol Airport', 'ru': 'Магадан'} {'en': 'Magadan', 'ru': 'Магадан'} (150.72000122070312,59.9109992980957) Asia
GOZ {'en': 'Gelendzhik Airport', 'ru': 'Геленджик'} {'en': 'Gelendzhik', 'ru': 'Геленджик'} (38.0124007358,44.5820926295) E
GOJ {'en': 'Nizhny Novgorod Strigino International Airport', 'ru': 'Стригино'} {'en': 'Nizhniy Novgorod', 'ru': 'Нижний Нов
GRV {'en': 'Khankala Air Base', 'ru': 'Грозный'} {'en': 'Grozny', 'ru': 'Грозный'} (45.78409957885742,43.298099517822266) E
HMA {'en': 'Khanty Mansiysk Airport', 'ru': 'Ханты-Мансийск'} {'en': 'Khanty-Mansiysk', 'ru': 'Ханты-Мансийск'} (69.0860977
HTA {'en': 'Chita-Kadala Airport', 'ru': 'Чита'} {'en': 'Chita', 'ru': 'Чита'} (113.306,52.026299) Asia/Chita
IAR {'en': 'Tunoshna Airport', 'ru': 'Туношна'} {'en': 'Yaroslavl', 'ru': 'Ярославль'} (40.15739822387695,57.56869946289062
IJK {'en': 'Izhevsk Airport', 'ru': 'Ижевск'} {'en': 'Izhevsk', 'ru': 'Ижевск'} (53.45750045776367,56.82809829711914) Europ
IKT {'en': 'Irkutsk Airport', 'ru': 'Иркутск'} {'en': 'Irkutsk', 'ru': 'Иркутск'} (104.38899993896,52.680001556396) Asia/Ir
IWA {'en': 'Ivanovo South Airport', 'ru': 'Иваново-Южный'} {'en': 'Ivanovo', 'ru': 'Иваново'} (40.940799713134766,56.939399
JOK {'en': 'Yoshkar-Ola Airport', 'ru': 'Йошкар-Ола'} {'en': 'Yoshkar-Ola', 'ru': 'Йошкар-Ола'} (47.904701232910156,56.7805

```
C. select departure_airport, count(departure_airport) from flights where
    departure_airport in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO') group
    by departure_airport order by count(departure_airport) DESC;
```



	departure_airport	count
1	DME	6376
2	SVO	5912
3	LED	3769
4	OVB	2891
5	KZN	934
6	IKT	727

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



	departure_airport	count
1	USK	34
2	KKK	35
3	PYJ	51
4	NYA	51
5	PKC	52
6	IWA	68
7	GDX	78
8	DYR	78
9	KYZ	86
10	LPK	86
11	NFG	87
12	EYK	104
13	IJK	121
14	BTX	121
15	UKX	121
16	SWT	121
17	BQS	121
18	GRV	138
19	UUD	139
20	OSW	139
21	IAR	156
22	RKX	172
23	KEJ	173
24	PKV	198
25	HTA	191
26	GDZ	226
27	STW	241
28	OGZ	242
29	VOZ	242
30	SLV	267

```

E. select t.flight_id,t.scheduled_departure, count(f.book_ref) as pass
from flights t
inner join bookings.ticket_flights k on t.flight_id = k.flight_id
inner join tickets f on k.ticket_no = f.ticket_no group by t.flight_id,
t.scheduled_departure
having
count(f.book_ref) < 90 and count(f.book_ref) > 27 order by t.flight_id
DESC ,t.scheduled_departure DESC;

```

console - console

Result 12

1-500 of 501

	flight_id	scheduled_departure	pass
1	65420	2017-06-25 06:05:00.000000 +00:00	39
2	65419	2017-06-10 06:05:00.000000 +00:00	46
3	65418	2017-06-11 06:05:00.000000 +00:00	29
4	65417	2017-08-07 06:05:00.000000 +00:00	38
5	65414	2017-07-02 06:05:00.000000 +00:00	44
6	65413	2017-07-26 06:05:00.000000 +00:00	38
7	65407	2017-06-09 06:05:00.000000 +00:00	31
8	65405	2017-07-27 06:05:00.000000 +00:00	30
9	65402	2017-06-13 06:05:00.000000 +00:00	37
10	65396	2017-07-15 06:05:00.000000 +00:00	37
11	65395	2017-08-30 06:05:00.000000 +00:00	33
12	65394	2017-06-14 06:05:00.000000 +00:00	37
13	65393	2017-08-21 06:05:00.000000 +00:00	38
14	65392	2017-05-29 06:05:00.000000 +00:00	31
15	65391	2017-07-19 06:05:00.000000 +00:00	30
16	65390	2017-08-02 06:05:00.000000 +00:00	32
17	65389	2017-07-04 06:05:00.000000 +00:00	32
18	65388	2017-06-15 06:05:00.000000 +00:00	36
19	65385	2017-07-14 06:05:00.000000 +00:00	34
20	65384	2017-07-28 06:05:00.000000 +00:00	30
21	65383	2017-06-07 06:05:00.000000 +00:00	39
22	65382	2017-08-09 06:05:00.000000 +00:00	35
23	65381	2017-06-30 06:05:00.000000 +00:00	35
24	65380	2017-08-19 06:05:00.000000 +00:00	35
25	65377	2017-08-14 06:05:00.000000 +00:00	34
26	65373	2017-07-25 06:05:00.000000 +00:00	33
27	65372	2017-07-13 06:05:00.000000 +00:00	39
28	65371	2017-08-06 06:05:00.000000 +00:00	37
29	65366	2017-06-18 06:05:00.000000 +00:00	35
30	65365	2017-07-12 06:05:00.000000 +00:00	32

```

F. select p.airport_name,f.passenger_name from tickets f
inner join ticket_flights k on f.ticket_no = k.ticket_no
inner join flights q on k.flight_id = q.flight_id
left join airports_data p on q.departure_airport = p.airport_code;

```

console - console

Result 13

1-500 of 501

	airport_name	passenger_name
1	{"en": "Kazan International Airport", "ru": "Казань"}	RAISA SOROKINA
2	{"en": "Yuzhno-Sakhalinsk Airport", "ru": "Хомутово"}	KSENIYA KUZNECOVA
3	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	ANDREY MATVEEV
4	{"en": "Kazan International Airport", "ru": "Казань"}	ALLA KUZNECOVA
5	{"en": "Vnukovo International Airport", "ru": "Внуково"}	KARINA LAZAREVA
6	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	VALERIY KONOVALOV
7	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	NIKOLAY MIKHAYLOV
8	{"en": "Tolmachevo Airport", "ru": "Толмачёво"}	ILDRAR BORISOV
9	{"en": "Tolmachevo Airport", "ru": "Толмачёво"}	RAISA DAVYDOVA
10	{"en": "Tolmachevo Airport", "ru": "Толмачёво"}	GALINA KUZNECOVA
11	{"en": "Tolmachevo Airport", "ru": "Толмачёво"}	EVGENIY MIKHAYLOV
12	{"en": "Yemelyanovo Airport", "ru": "Емельяново"}	YULIYA PETROVA
13	{"en": "Yemelyanovo Airport", "ru": "Емельяново"}	NIKOLAY BONDARENKO
14	{"en": "Kazan International Airport", "ru": "Казань"}	IRINA LAZAREVA
15	{"en": "Domodedovo International Airport", "ru": "Домодедово"}	ANATOLIY KOZLOV
16	{"en": "Bratsk Airport", "ru": "Братск"}	KONSTANTIN ZAKHAROV
17	{"en": "Sheremetyevo International Airport", "ru": "Шереметьево"}	INNA SOKOLOVA
18	{"en": "Yemelyanovo Airport", "ru": "Емельяново"}	NIKOLAY SOLOVEV
19	{"en": "Bratsk Airport", "ru": "Братск"}	VLADIMIR ZAYCEV
20	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	DIANA GERASIMOVA
21	{"en": "Domodedovo International Airport", "ru": "Домодедово"}	MIKHAIL FEDOTOV
22	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	ELENA DANILOVA
23	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	NATALYA KOROLEVA
24	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	ANATOLIY ROMANOV
25	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	DMITRIY MELNIKOV
26	{"en": "Kemerovo Airport", "ru": "Кемерово"}	KIRILL KUDRYASHOV
27	{"en": "Bolshoye Savino Airport", "ru": "Пермь"}	NATALYA SEMENOVA
28	{"en": "Ufa International Airport", "ru": "Уфа"}	VIKTOR SAVELEV
29	{"en": "Tolmachevo Airport", "ru": "Толмачёво"}	SVELANA MIRONOVA
30	{"en": "Yemelyanovo Airport", "ru": "Емельяново"}	NATALYA KRASNOVA

```
G. select passenger_name as name, 'passenger' as type from tickets
UNION ALL
select airport_name::jsonb ->> 'ru' as name, 'airport' as type from
airports_data
ORDER BY type DESC, name DESC;
```

console - console

Result 15

1-500 of 501

	name	type
1	ZULFIYA ZOTOVA	passenger
2	ZULFIYA ZOTOVA	passenger
3	ZULFIYA ZOTOVA	passenger
4	ZULFIYA ZHURAVLEVA	passenger
5	ZULFIYA ZHUKOVA	passenger
6	ZULFIYA ZAYCEVA	passenger
7	ZULFIYA ZAYCEVA	passenger
8	ZULFIYA ZAYCEVA	passenger
9	ZULFIYA ZAYCEVA	passenger
10	ZULFIYA ZAKHAROVA	passenger
11	ZULFIYA ZAKHAROVA	passenger
12	ZULFIYA ZAKHAROVA	passenger
13	ZULFIYA ZAKHAROVA	passenger
14	ZULFIYA YUDINA	passenger
15	ZULFIYA YAKOVLEVA	passenger
16	ZULFIYA YAKOVLEVA	passenger
17	ZULFIYA YAKOVLEVA	passenger
18	ZULFIYA VOROBEVA	passenger
19	ZULFIYA VOROBEVA	passenger
20	ZULFIYA VOLKOVA	passenger
21	ZULFIYA VOLKOVA	passenger
22	ZULFIYA VOLKOVA	passenger
23	ZULFIYA VLASOVA	passenger
24	ZULFIYA VLASOVA	passenger
25	ZULFIYA VASILEVA	passenger
26	ZULFIYA VASILEVA	passenger
27	ZULFIYA VASILEVA	passenger
28	ZULFIYA VASILEVA	passenger
29	ZULFIYA VASILEVA	passenger
30	ZULFIYA TROFINOVA	passenger

console - console

Result 15

828 676-829 175 of 829 175

	name	type
829061	AULINA BELYAYVA	passenger
829062	ADELINA BELYAEVA	passenger
829063	ADELINA BELOVA	passenger
829064	ADELINA ANISIMOVA	passenger
829065	ADELINA ANDREEVA	passenger
829066	ADELINA ANDREEVA	passenger
829067	ADELINA ANDREEVA	passenger
829068	ADELINA ALEKSEVA	passenger
829069	ADELINA ALEKSANDROVA	passenger
829070	ADELINA AKIMOVA	passenger
829071	ADELINA AFANASEVA	passenger
829072	Якутск	airport
829073	Элиста	airport
829074	Шереметьево	airport
829075	Чулым	airport
829076	Чита	airport
829077	Череповец	airport
829078	Челябинск	airport
829079	Чебоксары	airport
829080	Хурба	airport
829081	Храброво	airport
829082	Хомутово	airport
829083	Ханты-Мансийск	airport
829084	Хабаровск-Новый	airport
829085	Ухта	airport
829086	Уфа	airport
829087	Усть-Кут	airport
829088	Усть-Илимск	airport
829089	Усинск	airport
829090	Ульяновск-Восточный	airport

```
H. select count(f.flight_id) from flights f
left join ticket_flights as o on f.flight_id = o.flight_id
where o.ticket_no is null;
```

console - console

count(f.flight_id);bigint x

1 row

count :
1 20490

CSV

9:27 15.12.2023

```
J. select f.flight_id, min(t.amount), max(t.amount) from flights f
inner join ticket_flights t on f.flight_id = t.flight_id
group by f.flight_id;
```

console - console

Result 19 x

1-500 of 501+

	flight_id :	min :	max :
1	1	6700	20000
2	2	6700	20000
3	5	6700	20000
4	6	6700	20000
5	9	6700	20000
6	10	6700	20000
7	15	6700	20000
8	16	6700	20000
9	19	6700	20000
10	20	6700	20000
11	21	6700	20000
12	27	6700	20000
13	28	6700	6700
14	29	6700	20000
15	30	6700	20000
16	35	6700	20000
17	36	6700	20000
18	39	6700	20000
19	40	6700	20000
20	41	6700	20000
21	42	6700	20000
22	45	6700	20000
23	46	6700	20000
24	49	6700	20000
25	52	6700	20000
26	53	6700	20000
27	54	6700	20000
28	55	6700	20000
29	56	6700	20000
30	59	6700	20000

CSV

9:30 15.12.2023