Задача А

SELECT airport_code, coordinates FROM airports_data WHERE city->>'ru' IN ('Казань', 'Москва')

ORDER BY airport_code DESC;

	📭 airport_code 💠	□ coordinates	‡
1	VKO	(37.2615013123,55.5914993286)	
2	SV0	(37.4146,55.972599)	
3	KZN	(49.278701782227,55.606201171875)	
4	DME	(37.90629959106445,55.40879821777344)	

Задача В

```
SELECT CONCAT(airport_code, ' ', airport_name, ' ', city, ' ', coordinates, ' ', timezone)

as "полная информация" FROM airports data ORDER BY "полная информация"
```

as "полная информация" FROM airports_data ORDER BY "полная информация" ASC;

```
□ "полная информация"
     AAQ{"en": "Anapa Vityazevo Airport", "ru": "Витязево"}{"en": "Anapa", "ru": "Анапа"}(37.347301483154,45.002101898193)Еurope...
     ABA{"en": "Abakan Airport", "ru": "Aбакан"}{"en": "Abakan", "ru": "Абакан"}(91.38500213623047,53.7400016784668)Asia/Krasnoy…
     AER{"en": "Sochi International Airport", "ru": "Cοчи"}{"en": "Sochi", "ru": "Cοчи"}(39.956600189209,43.449901580811)Europe/Moscow
   4 ARH{"en": "Talagi Airport", "ru": "Талаги"}{"en": "Arkhangelsk", "ru": "Архангельск"}(40.71670150756836,64.60030364990234)Е…
1 5 ASF{"en": "Astrakhan Airport", "ru": "Астрахань"}{"en": "Astrakhan", "ru": "Астрахань"}(48.0063018799,46.2832984924)Еurope/...
     BAX{"en": "Barnaul Airport", "ru": "Барнаул"}{"en": "Barnaul", "ru": "Барнаул"}(83.53849792480469,53.363800048828125)Asia/K...
     BQS{"en": "Ignatyevo Airport", "ru": "Игнатьево"}{"en": "Blagoveschensk", "ru": "Благовещенск"}(127.41200256347656,50.42539...
     BTK{"en": "Bratsk Airport", "ru": "Братск"}{"en": "Bratsk", "ru": "Братск"}(101.697998046875,56.370601654052734)Asia/Irkutsk
9 BZK{"en": "Bryansk Airport", "ru": "Брянск"}{"en": "Bryansk", "ru": "Брянск"}{(34.176399231,53.214199066199996)Europe/Moscow
 96 UUA{"en": "Buqulma Airport", "ru": "Бугульма"}{"en": "Buqulma", "ru": "Бугульма"}(52.801700592041016,54.63999938964844)Еuro…
 97 UUD{"en": "Ulan-Ude Airport (Mukhino)", "ru": "Байкал"}{"en": "Ulan-ude", "ru": "Улан-Удэ"}(107.43800354003906,51.807800292...
 98 UUS{"en": "Yuzhno-Sakhalinsk Airport", "ru": "Хомутово"}{"en": "Yuzhno-Sakhalinsk", "ru": "Южно-Сахалинск"}{(142.71800231933...
 99 VKO{"en": "Vnukovo International Airport", "ru": "Внуково"}{"en": "Moscow", "ru": "Москва"}(37.2615013123,55.5914993286)Еиг…
 180 VKT{"en": "Vorkuta Airport", "ru": "Воркута"}{"en": "Vorkuta", "ru": "Воркута"}(63.993099212646484,67.48860168457031)Еurope…
 181 VOG{"en": "Volgograd International Airport", "ru": "Гумрак"}{"en": "Volgograd", "ru": "Волгоград"}{(44.34550094604492,48.782...
 182 VOZ{"en": "Voronezh International Airport", "ru": "Воронеж"}{"en": "Voronezh", "ru": "Воронеж"}{39.22959899902344,51.814201...
 183 VVO{"en": "Vladivostok International Airport", "ru": "Владивосток"}{"en": "Vladivostok", "ru": "Владивосток"}(132.147994995...
 104 YKS{"en": "Yakutsk Airport", "ru": "Якутск"}{"en": "Yakutsk", "ru": "Якутск"}(129.77099609375,62.093299865722656)Asia/Yakut...
```

Задача С

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	3217
2	SV0	2981
3	LED	1900
4	OVB	1055
5	KZN	471
6	IKT	366

Задача D

SELECT departure_airport, COUNT(departure_airport) FROM flights WHERE departure_airport NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO') GROUP BY departure_airport

		1 7
	☐ departure_airport	□ count ÷
1	usk	18
2	кхк	18
3	PKC	26
4	PYJ	27
5	NYA	27
6	IWA	34
7	DYR	36
8	GDX	36
9	KYZ	43
10	LPK	43
90	SGC	531
91	ovs	549
92	AER	584
93	BZK	610
94	ROV	617
95	PEE	619
96	SVX	689
97	KJA	707
98	VK0	1719

Задача Е

	☐ flight_no ‡	□ date	\$ □ number_of_passangers ‡
1	PG0710	2017-09-12	38
2	PG0710	2017-09-05	57
3	PG0710	2017-08-29	78
4	PG0710	2017-08-22	82
5	PG0710	2017-08-15	89
6	PG0710	2017-08-08	86
7	PG0710	2017-08-01	51
8	PG0710	2017-07-25	52
9	PG0709	2017-09-04	44
10	PG0709	2017-08-28	63
11	PG0709	2017-08-21	61
12	PG0709	2017-08-14	58
13	PG0709	2017-08-07	65

9106	PG0014	2017-07-22	34
9107	PG0014	2017-07-21	43
9108	PG0014	2017-07-20	38
9109	PG0014	2017-07-19	39
9110	PG0014	2017-07-18	38
9111	PG0014	2017-07-17	36
9112	PG0014	2017-07-16	41
9113	PG0013	2017-09-13	43
9114	PG0013	2017-09-12	53
9115	PG0013	2017-09-11	50
9116	PG0013	2017-09-10	68

Задача F

SELECT passenger_name AS name FROM tickets

SELECT airport_name->>'ru' AS name FROM airports_data
ORDER BY name DESC;

	□ name ‡	100	Баратаевка		
1	Якутск	101	Байкал		1.551.711. 551.70011
2	Элиста	102	Астрахань	22317	ADELINA DENISOVA
3	Шереметьево	103		22318	ADELINA CHERNOVA
4	Чульман		Анадырь	22319	ADELINA BELYAEVA
5	Чита	104	Абакан	22320	ADELINA ANDREEVA
6	Череповец	105	ZULFIYA ZOTOVA	22321	ADELINA ALEKSEEVA
7	Челябинск	106	ZULFIYA ZHURAVLEVA	22322	ADELINA ALEKSANDROVA
8	Чебоксары	107	ZULFIYA ZAYCEVA	22323	ADELINA AKIMOVA
9	Хурба	108	ZULFIYA ZAKHAROVA	22324	ADELINA AFANASEVA

Задача G

SELECT passenger_name AS name, 'пассажир' AS type FROM tickets $\ensuremath{\mathsf{UNION}}$

SELECT airport_name->>'ru' AS name, 'aэροπορτ' AS type FROM airports_data ORDER BY type DESC, name DESC;

	_					
	name	tyl	pe \$	22214	ADELINA CHERNOVA	пассажир
1	ZULFIYA ZOTOVA	пасса	жир	22215	ADELINA BELYAEVA	пассажир
2	ZULFIYA ZHURAVLEVA	пасса	жир	22216	ADELINA ANDREEVA	пассажир
3	ZULFIYA ZAYCEVA	пасса	жир	22217	ADELINA ALEKSEEVA	пассажир
4	ZULFIYA ZAKHAROVA	пасса	жир	22218	ADELINA ALEKSANDROVA	пассажир
5	ZULFIYA VOROBEVA	пасса	жир	22219		пассажир
6	ZULFIYA VOLKOVA	пасса	жир	22217		·
7	ZULFIYA VLASOVA	пасса	жир			пассажир
8	ZULFIYA VASILEVA	пасса	жир	22221	,	аэропорт
9	ZULFIYA TIKHONOVA	пасса	жир	22222	Элиста	аэропорт
10	ZULFIYA TARASOVA	пасса	жир	22223	Шереметьево	аэропорт
11	ZULFIYA SOROKINA	пасса	жир	22224	Чульман	аэропорт
12	ZULFIYA SOKOLOVA	пасса	жир	22225	Чита	аэропорт
17	7111 ETVA CMTDNOVA	пасса	wiin	00007		
2231	.9 Барнаул	а	эропорт			
2232	0 Баратаевка	а	эропорт			
2232	1 Байкал	а	эропорт			
2232	22 Астрахань		эропорт			
2232	3 Анадырь	а	эропорт			
2232	2324 Абакан		эропорт			

Задача Н

```
SELECT COUNT(*) as flights_with_no_passengers_amount
FROM flights
LEFT JOIN ticket_flights
ON flights.flight_id = ticket_flights.flight_id
WHERE ticket_no IS NULL;
```

```
flights_with_no_passengers_amount $

1
```

Задача I

```
SELECT flights.departure_airport AS airport, COUNT(ticket_flights.ticket_no)
/ COUNT(DISTINCT flights.flight_id) AS avg_tickets_amount
FROM flights
LEFT JOIN ticket_flights
ON flights.flight_id = ticket_flights.flight_id
WHERE flights.scheduled_departure BETWEEN '2017-08-01 00:00:00.000000 +00:00'
AND '2017-08-31 23:59:59.999999 +00:00'
GROUP BY flights.departure_airport;
```

	□ airport ‡	☐ avg_tickets_amount ‡	
1	AAQ	93	100
2	ABA	10	101
3	AER	70	102
4	ARH	20	103
5	ASF	23	104

Задача Ј

```
SELECT flights.flight_no, MIN(ticket_flights.amount) AS cheapest,
MAX(ticket_flights.amount) AS most_expensive
FROM flights
INNER JOIN ticket_flights
ON flights.flight_id = ticket_flights.flight_id
GROUP BY flights.flight_no;
```

	☐ flight_no ‡	□ cheapest ‡	
1	PG0012	12300	13500
2	PG0013	14000	42100
3	PG0014	3300	9800
4	PG0015	18700	20600
5	PG0016	18700	20600
479	PG0706	48800	146400
480	PG0707	5200	15700
481	PG0708	5200	15700
482	PG0709	50100	150400
483	PG0710	50100	150400