Задача А

```
select airport_code, coordinates from airports_data
where city = '{"en": "Moscow", "ru": "Mocква"}' or city = '{"en": "Kazan", "ru":
"Казань"}'
order by airport_code desc;
```

:	📭 airport_code 💠	≑ ∏ coordinates	‡
1	VK0	(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_ws(', ', airport_code, airport_name->'ru', city->'ru', coordinates,
timezone) AS full_information
FROM airports_data
order by full_information asc;

	□ full_information	
1	ААQ, "Витязево", "Анапа", (37.347301483154,45.002101898193), Europe/Moscow	
2	АВА, "Абакан", "Абакан", (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	
5	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	
9	BZK, "Брянск", "Брянск", (34.176399231,53.214199066199996), Europe/Moscow	
10	СЕЕ, "Череповец", "Череповец", (38.015800476100004,59.273601532), Europe/Moscow	
11	СЕК, "Челябинск", "Челябинск", (61.5033,55.305801), Asia/Yekaterinburg	
12	CNN, "Чульман", "Нерюнгри", (124.91400146484,56.913898468018), Asia/Yakutsk	
13	CSY, "Чебоксары", "Чебоксары", (47.3473014831543,56.090301513671875), Europe/Moscow	
14	DME, "Домодедово", "Москва", (37.90629959106445,55.40879821777344), Europe/Moscow	
15	DYR, "Анадырь", "Анадырь", (177.74099731445312,64.73490142822266), Asia/Anadyr	
16	EGO, "Белгород", "Белгород", (36.5900993347168,50.643798828125), Europe/Moscow	
17	ESL, "Элиста", "Элиста", (44.33089828491211,46.3739013671875), Europe/Moscow	
18	EYK, "Белоярский", "Белоярский", (66.698600769,63.686901092499994), Asia/Yekaterinburg	
19	GDX, "Магадан", "Магадан", (150.72000122070312,59.9109992980957), Asia/Magadan	
20	GDZ, "Геленджик", "Геленджик", (38.0124807358,44.5820926295), Europe/Moscow	
21	GOJ, "Стригино", "Нижний Новгород", (43.784000396729,56.230098724365), Europe/Moscow	
22	GRV, "Грозный", "Грозный", (45.78409957885742,43.298099517822266), Europe/Moscow	
23	НМА, "Ханты-Мансийск", "Ханты-Мансийск", (69.08609771728516,61.028499603271484), Asia/Yekaterinbu	rg

Задача С

```
select departure_airport, count(*) as count
from flights
where departure_airport in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
group by departure_airport
order by count desc
;
```

	☐ departure_airport	‡	$\; \sqsubseteq count \;$	‡
1	DME			6376
2	SV0			5912
3	LED			3769
4	OVB			2091
5	KZN			934
6	IKT			727

Задача **D**

```
select departure_airport, count(*) as count
from flights
where departure_airport not in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
group by departure_airport
order by count asc
;
```

	☐ departure_airport ÷	□ count	‡
1	USK		34
2	кхк		35
3	PYJ		51
4	NYA		51
5	PKC	:	52
6	IWA		68
7	GDX		70
8	DYR		70
9	KYZ		86
10	LPK		86
11	NFG		87
12	EYK	10	04
13	IJK	1:	21
14	втк	1:	21
15	UKX	1:	21
16	SWT	1:	21
17	BQS	1:	21
18	GRV	13	38
19	UUD	13	39
20	OSW	13	39
21	IAR	1	56
22	RGK	1'	72
23	KEJ	1'	73
24	PKV	19	90
25	HTA		91
26	GDZ		26
27	STW		41
28	OGZ	2	42

Задача Е

```
select flight_id, scheduled_departure, count
from flights
join (select flight_id as fid, count(*) as count
from boarding_passes
group by flight_id
) on flights.flight_id = fid
where count between 27 and 90
order by flight_id desc
;
```

	ৣ flight_id	‡	□ schedule	d_departure	‡	□ count	‡
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		65401	2017-08-13	06:05:00.000000	+00:00		27
11		65396	2017-07-15	06:05:00.000000	+00:00		37
12		65394	2017-06-14	06:05:00.000000	+00:00		37
13		65392	2017-05-29	06:05:00.000000	+00:00		31
14		65391	2017-07-19	06:05:00.000000	+00:00		30
15		65390	2017-08-02	06:05:00.000000	+00:00		32
16		65389	2017-07-04	06:05:00.000000	+00:00		32
17		65388	2017-06-15	06:05:00.000000	+00:00		36
18		65385	2017-07-14	06:05:00.000000	+00:00		34
19		65384	2017-07-28	06:05:00.000000	+00:00		30
20		65383	2017-06-07	06:05:00.000000	+00:00		39
21		65382	2017-08-09	06:05:00.000000	+00:00		35
22		65381	2017-06-30	06:05:00.000000	+00:00		35
23		65377	2017-08-14	06:05:00.000000	+00:00		34
24		65373	2017-07-25	06:05:00.000000	+00:00		33
25		65372	2017-07-13	06:05:00.000000	+00:00		39
26		65371	2017-08-06	06:05:00.000000	+00:00		37
27		65370	2017-06-17	06:05:00.000000	+00:00		27
28		65368	2017-06-29	06:05:00.000000	+00:00		27

Задача F

```
select distinct passenger_name, departure_airport, arrival_airport
from boarding_passes
```

```
join flights on boarding_passes.flight_id = flights.flight_id
join tickets on tickets.ticket_no = boarding_passes.ticket_no
```

;			
	□ passenger_name	☐ departure_airport ‡	<pre>□ arrival_airport</pre>
1	EKATERINA EGOROVA	DME	LED
2	ANDREY ANDREEV	SV0	KJA
3	ELENA DENISOVA	SV0	AER
4	TAMARA YAKOVLEVA	CEK	DME
5	REGINA IVANOVA	PEE	60J
6	DANIIL PETROV	CEK	VOG
7	EVGENIYA KUZNECOVA	DME	LED
8	ZINAIDA LUKYANOVA	SV0	KJA
9	DANILA SERGEEV	DME	NUX
10	MARIYA BORISOVA	VK0	PEE
11	ALEKSEY SHEVCHENKO	GOJ	LED
12	ALMIRA KUZNECOVA	ROV	DME
13	BORIS OSIPOV	KVX	KZN
14	NIKOLAY POPOV	LED	REN
15	SERGEY MAKAROV	DME	URJ
16	EKATERINA TIKHONOVA	NUX	SV0
17	VALERIY BARANOV	SV0	MJZ
18	DANIIL NAZAROV	MRV	DME
19	ANDREY NIKITIN	SVX	SV0
20	EVGENIY BORISOV	LED	KHV
21	YURIY SOROKIN	VK0	AER
22	MARIYA ISAEVA	KJA	KR0
23	NIKITA KISELEV	KHV	UUS
24	YURIY MEDVEDEV	DME	ROV
25	ANATOLIY SMIRNOV	PKC	DME
26	VIKTORIYA KOLESNIKOVA	AER	SV0
27	DIANA ILINA	AER	SV0
28	VADIM BORISOV	SVO	ROV

Задача G

select distinct passenger_name as data, ' Π accamup' as data_type from boarding_passes

join flights on boarding_passes.flight_id = flights.flight_id
join tickets on tickets.ticket_no = boarding_passes.ticket_no

UNION

select airport_name->>'ru' as data, 'Αэροπορτ' as data_type
from airports_data

order by data_type desc, data asc
.

E01E0	□ data	‡	☐ data_type	‡
26724	ZULFIYA TROFIMOVA		Пассажир	
26725	ZULFIYA VASILEVA		Пассажир	
26726	ZULFIYA VLASOVA		Пассажир	
26727	ZULFIYA VOLKOVA		Пассажир	
26728	ZULFIYA VOROBEVA		Пассажир	
26729	ZULFIYA YAKOVLEVA		Пассажир	
26730	ZULFIYA YUDINA		Пассажир	
26731	ZULFIYA ZAKHAROVA		Пассажир	
26732	ZULFIYA ZAYCEVA		Пассажир	
26733	ZULFIYA ZHUKOVA		Пассажир	
26734	ZULFIYA ZHURAVLEVA		Пассажир	
26735	ZULFIYA ZOTOVA		Пассажир	
26736	Абакан		Аэропорт	
26737	Анадырь		Аэропорт	
26738	Астрахань		Аэропорт	
26739	Байкал		Аэропорт	
26740	Баратаевка		Аэропорт	
26741	Барнаул		Аэропорт	
26742	Бегишево		Аэропорт	
26743	Белгород		Аэропорт	
26744	Белоярский		Аэропорт	
26745	Беслан		Аэропорт	
26746	Бесовец		Аэропорт	
267/7	Foramano		Азполопт	

Задача Н

```
select count(*)
from flights
left outer join boarding_passes
   on flights.flight_id = boarding_passes.flight_id
where boarding_passes.ticket_no is null
group by ticket_no
;
```

Задача Ј

```
select flights.flight_no as flight_no, min(bookings.total_amount) as min_price,
max(bookings.total_amount) as max_price
from flights
join boarding_passes on flights.flight_id = boarding_passes.flight_id
join tickets on tickets.ticket_no = boarding_passes.ticket_no
join bookings on tickets.book_ref = bookings.book_ref
group by flights.flight_no
order by flights.flight_no asc.
```

	☐ flight_no	‡	☐ min_price ÷	□ max_price ÷
1	PG0012		24600	99600
2	PG0013		14000	1204500
3	PG0014		40000	236300
4	PG0015		37400	116000
5	PG0016		37400	116000
6	PG0019		19000	106200
7	PG0020		19000	106200
8	PG0029		10600	42400
9	PG0030		10600	31800
10	PG0032		10600	42400
11	PG0035		106400	558500
12	PG0038		117600	558500
13	PG0039		21800	156400
14	PG0040		21800	156400
15	PG0041		41800	169300
16	PG0042		47200	278400
17	PG0043		19800	131400
18	PG0044		19800	131400
19	PG0045		29200	116800
20	PG0046		29200	116800
21	PG0049		24600	99600
22	PG0050		14400	204900
23	PG0051		14400	204900
24	PG0052		38600	219300