Tx: Auto | Playground

```sql
-- Задание A
SELECT airport_code,
       coordinates
FROM airports_data
WHERE city ->> 'ru' LIKE '%Казань%'
   OR city ->> 'ru' LIKE '%Москва%'
ORDER BY airport_code DESC;
-- Задание B
```

ices

Output | Задание A

4 rows | Tx: Auto | DDL

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

```sql
-- Задание B
SELECT airport_code || ' - ' || airport_name || ' - ' || city || ' - ' || coordinates || ' - ' ||
    timezone AS full_information
FROM airports_data
ORDER BY full_information;
-- Задание C
SELECT departure_airport, COUNT(*) AS flight_count
FROM flights
```

Output | Задание B

104 rows | CSV

	full_information
1	AAQ - {"en": "Anapa Vityazevo Airport", "ru": "Витязево"} - {"en": "Anapa", "ru": "Анапа"} - (37.347301483154,45.002101898193) - Europe/Moscow
2	ABA - {"en": "Abakan Airport", "ru": "Абакан"} - {"en": "Abakan", "ru": "Абакан"} - (91.38500213623047,53.7400016784668) - Asia/Krasnoyarsk
3	AER - {"en": "Sochi International Airport", "ru": "Сочи"} - {"en": "Sochi", "ru": "Сочи"} - (39.956600189209,43.449901580811) - Europe/Moscow
4	ARH - {"en": "Talagi Airport", "ru": "Талаги"} - {"en": "Arkhangelsk", "ru": "Архангельск"} - (40.71670150756836,64.60030364990234) - Europe/Moscow
5	ASF - {"en": "Astrakhan Airport", "ru": "Астрахань"} - {"en": "Astrakhan", "ru": "Астрахань"} - (48.0063018799,46.2832984924) - Europe/Samara
6	BAX - {"en": "Barnaul Airport", "ru": "Барнаул"} - {"en": "Barnaul", "ru": "Барнаул"} - (83.53849792480469,53.363800048828125) - Asia/Krasnoyarsk
7	BQS - {"en": "Ignatyevo Airport", "ru": "Игнатьево"} - {"en": "Blagoveschensk", "ru": "Благовещенск"} - (127.41200256347656,50.42539978027344) - Asia/Yakutsk
8	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
10	CEE - {"en": "Cherepovets Airport", "ru": "Череповец"} - {"en": "Cherepovets", "ru": "Череповец"} - (38.015800476100004,59.273601532) - Europe/Moscow
11	CEK - {"en": "Chelyabinsk Balandino Airport", "ru": "Челябинск"} - {"en": "Chelyabinsk", "ru": "Челябинск"} - (61.5033,55.305801) - Asia/Yekaterinburg
12	CNN - {"en": "Chulman Airport", "ru": "Чульман"} - {"en": "Neryungri", "ru": "Нерюнгри"} - (124.91400146484,56.913898468018) - Asia/Yakutsk
13	CSY - {"en": "Cheboksary Airport", "ru": "Чебоксары"} - {"en": "Cheboksary", "ru": "Чебоксары"} - (47.3473014831543,56.090301513671875) - Europe/Moscow
14	DME - {"en": "Domodedovo International Airport", "ru": "Домодедово"} - {"en": "Moscow", "ru": "Москва"} - (37.90629959106445,55.40879821777344) - Europe/Moscow
15	DYR - {"en": "Ugolny Airport", "ru": "Анадырь"} - {"en": "Anadyr", "ru": "Анадырь"} - (177.74099731445312,64.73490142822266) - Asia/Anadyr

e Consoles > demo@localhost > console [demo@localhost] 9:3 CRLF UTF-

```sql
-- Задание C
SELECT departure_airport, COUNT(*) AS flight_count
FROM flights
WHERE flights.departure_airport IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY departure_airport
ORDER BY flight_count DESC;
-- Задание D
```

ices

Output | Задание C

6 rows

	departure_airport	flight_count
1	DME	3217
2	SVO	2981
3	LED	1900
4	OVB	1055
5	KZN	471
6	IKT	366

```sql
-- Задание D
SELECT departure_airport, COUNT(*) AS flight_count
FROM flights
WHERE flights.departure_airport not IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY departure_airport
ORDER BY flight_count ASC;
-- Задание E
```

ices

Output | Задание D

98 rows

	departure_airport	flight_count
1	USK	18
2	KXK	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
11	NFG	44
12	EYK	53
13	UKX	61
14	BTK	61
15	IJK	61

base Consoles > demo@localhost > console [demo@localhost]

```sql
SELECT f.flight_id,
       f.scheduled_departure,
       COUNT(t.ticket_no) AS passenger_count
FROM flights f
         JOIN
     ticket_flights t ON f.flight_id = t.flight_id
GROUP BY f.flight_id, f.scheduled_departure
HAVING COUNT(t.ticket_no) BETWEEN 27 AND 90
ORDER BY f.flight_id ASC,
         f.scheduled_departure ASC,
         passenger_count DESC;
--Задание F
```

Output | Задание E

1-500 of 501+

	flight_id	scheduled_departure	passenger_count
1	1	2017-07-16 06:35:00.000000 +00:00	79
2	12	2017-08-23 16:05:00.000000 +00:00	90
3	21	2017-07-19 06:35:00.000000 +00:00	85
4	26	2017-08-12 06:35:00.000000 +00:00	90
5	28	2017-09-03 06:35:00.000000 +00:00	81
6	38	2017-07-28 06:35:00.000000 +00:00	83
7	53	2017-08-08 06:35:00.000000 +00:00	90
8	54	2017-07-18 06:35:00.000000 +00:00	83
9	67	2017-07-26 16:05:00.000000 +00:00	89
10	87	2017-07-17 06:35:00.000000 +00:00	85

se Consoles › demo@localhost › console [demo@localhost]

```sql
--Задание F
SELECT t.passenger_name,
       a.airport_name
FROM tickets t
         JOIN
     ticket_flights tf ON t.ticket_no = tf.ticket_no
         JOIN
     flights f ON tf.flight_id = f.flight_id
         JOIN
     airports_data a ON f.departure_airport = a.airport_code
ORDER BY t.passenger_name DESC, a.airport_name DESC;
--Задание G
select passenger_name as info, 'passenger' as type
```

rvices

Output | Задание F

1-500 of 501+

	passenger_name	airport_name
1	ZULFIYA ZOTOVA	{"en": "Sheremetyevo International Airport", "ru": "Шереметьево"}
2	ZULFIYA ZOTOVA	{"en": "Sheremetyevo International Airport", "ru": "Шереметьево"}
3	ZULFIYA ZOTOVA	{"en": "Saransk Airport", "ru": "Саранск"}
4	ZULFIYA ZOTOVA	{"en": "Magnitogorsk International Airport", "ru": "Магнитогорск"}
5	ZULFIYA ZOTOVA	{"en": "Koltsovo Airport", "ru": "Кольцово"}
6	ZULFIYA ZOTOVA	{"en": "Koltsovo Airport", "ru": "Кольцово"}
7	ZULFIYA ZHURAVLEVA	{"en": "Tolmachevo Airport", "ru": "Толмачёво"}
8	ZULFIYA ZHURAVLEVA	{"en": "Pulkovo Airport", "ru": "Пулково"}
9	ZULFIYA ZHURAVLEVA	{"en": "Pobedilovo Airport", "ru": "Победилово"}
10	ZULFIYA ZHURAVLEVA	{"en": "Pobedilovo Airport", "ru": "Победилово"}

```sql
--Задание G
select passenger_name as info, 'passenger' as type
from tickets
union
select airport_name ->> 'ru', 'airport' as type
from airports_data
order by info, type desc;
--Задание H
SELECT COUNT(f.flight_id)
FROM flights f
        LEFT JOIN
```

rvices

Output | Задание G

1-500 of 501+

	info	type
1	ADELINA AFANASEVA	passenger
2	ADELINA AKIMOVA	passenger
3	ADELINA ALEKSANDROVA	passenger
4	ADELINA ALEKSEEVA	passenger
5	ADELINA ANDREEVA	passenger
6	ADELINA BELYAEVA	passenger
7	ADELINA CHERNOVA	passenger
8	ADELINA DENISOVA	passenger
9	ADELINA EGOROVA	passenger
10	ADELINA ERMAKOVA	passenger

```sql
SELECT COUNT(f.flight_id)
FROM flights f
         LEFT JOIN
     ticket_flights t ON f.flight_id = t.flight_id
WHERE t.ticket_no IS NULL;
--Задание I
SELECT flights.departure_airport,
       AVG(s.seats_count)    AS capacity,
       AVG(tf.tickets_count) AS tickets
```

es

Output | Задание H

1 row

	count
1	10895

```sql
--Задание I
SELECT flights.departure_airport,
       AVG(s.seats_count)    AS capacity,
       AVG(tf.tickets_count) AS tickets
FROM flights
         JOIN (SELECT aircraft_code, count(*) AS seats_count
               FROM seats
               GROUP BY aircraft_code) as s
              ON flights.aircraft_code = s.aircraft_code
         LEFT JOIN (SELECT flight_id, COUNT(*) AS tickets_count
                    FROM ticket_flights
                    GROUP BY flight_id) AS tf ON flights.flight_id = tf.flight_id
WHERE extract(MONTH FROM flights.scheduled_departure) = 8
GROUP BY flights.departure_airport
ORDER BY capacity DESC, tickets DESC;
```

s

Output | Задание I

104 rows

	departure_airport	capacity	tickets
1	PKC	222	68.2307692307692308
2	KXK	222	28.7777777777777778
3	GDX	162.7894736842105263	29.5
4	KRR	135.05	117.8133333333333333
5	VVO	123	41.5217391304347826
6	KUF	121.3333333333333333	129.2258064516129032
7	AER	116.6824324324324324	110.8941798941798942
8	BTK	116	58.7096774193548387

se Consoles > demo@localhost > console [demo@localhost]

```sql
-- Задание J
select flight_no, max(amount), min(amount)
from flights
         join ticket_flights t on flights.flight_id = t.flight_id
group by flight_no;
```

Output | Задание J

483 rows

	flight_no	max	min
1	PG0012	13500	12300
2	PG0013	42100	14000
3	PG0014	9800	3300
4	PG0015	20600	18700
5	PG0016	20600	18700
6	PG0019	10500	9500
7	PG0020	10500	9500
8	PG0029	5300	5300

se Consoles > demo@localhost > console [demo@localhost]