A.

```sql
-- A --

SELECT airport_code, city -> 'ru' FROM airports_data
WHERE city -> 'ru' ? 'Казань' or city -> 'ru' ? 'Москва'
ORDER BY airport_code DESC;


-- B --

SELECT concat(airport_code, airport_name, city, coordinates, timezone
ORDER BY "Полная информация";
```

Output | Result 4

4 rows

	airport_code	?column?
1	VKO	"Москва"
2	SVO	"Москва"
3	KZN	"Казань"
4	DME	"Москва"

B.

```sql
SELECT concat(airport_code, airport_name, city, coordinates, timezone) as "Полная информация" FROM airports_data
ORDER BY "Полная информация";


-- C --

SELECT airport_code, COUNT(airport_code) as r FROM airports_data
INNER JOIN flights f on airports_data.airport_code = f.departure_airport
WHERE airport_code IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY airport_code
ORDER BY r DESC;
```

Output | Полная информация:text

104 rows

	"Полная информация"
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/Yak

C.

```sql
-- C --

SELECT airport_code, COUNT(airport_code) as r FROM airports_data
INNER JOIN flights f on airports_data.airport_code = f.departure_airport
WHERE airport_code IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY airport_code
ORDER BY r DESC;

-- D --

SELECT airport_code, COUNT(airport_code) as r FROM airports_data
INNER JOIN flights f on airports_data.airport_code = f.departure_airport
WHERE airport_code NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY airport_code
ORDER BY r;
```

Output | Result 6

6 rows

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

D.

```sql
-- D --

SELECT airport_code, COUNT(airport_code) as r FROM airports_data
INNER JOIN flights f on airports_data.airport_code = f.departure_airport
WHERE airport_code NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY airport_code
ORDER BY r;

-- E --

SELECT flight_no, scheduled_arrival, COUNT(tf.ticket_no) as count_pas FROM flights
INNER JOIN ticket_flights tf on flights.flight_id = tf.flight_id
GROUP BY flight_no, scheduled_arrival
HAVING COUNT(tf.ticket_no) > 26 and COUNT(tf.ticket_no) < 91
ORDER BY flight_no DESC, scheduled_arrival DESC, count_pas DESC;

--F --
```

Output | Result 7

98 rows

	airport_code	r
1	USK	18
2	KXK	18
3	PKC	26
4	PYJ	27
5	NYA	27
6	IWA	34
7	DYR	36

E.

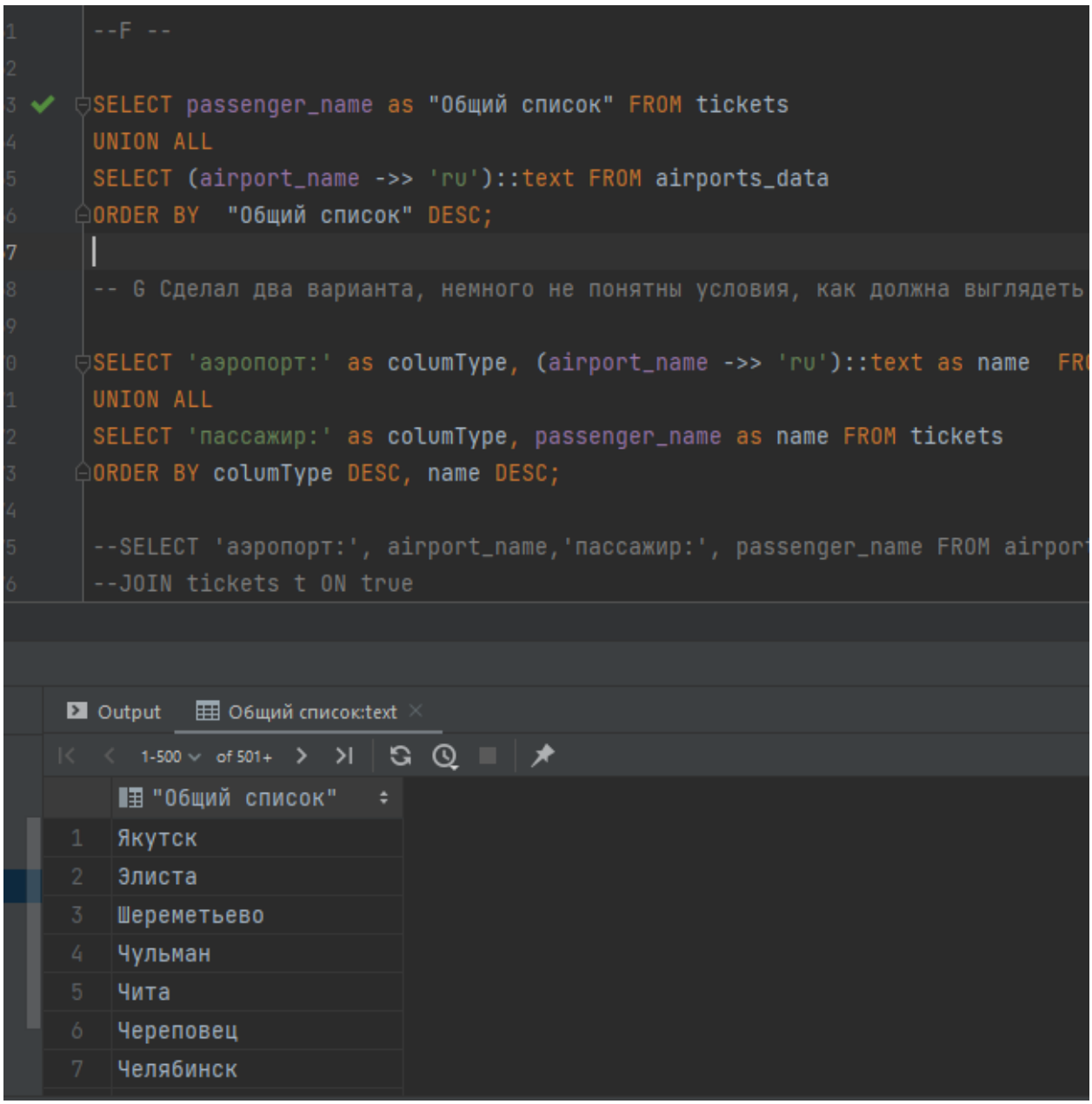
```sql
-- E --

SELECT flight_no, scheduled_arrival, COUNT(tf.ticket_no) as count_pas FROM flights
INNER JOIN ticket_flights tf on flights.flight_id = tf.flight_id
GROUP BY flight_no, scheduled_arrival
HAVING COUNT(tf.ticket_no) > 26 and COUNT(tf.ticket_no) < 91
ORDER BY flight_no DESC, scheduled_arrival DESC, count_pas DESC;

--F --

SELECT passenger_name as "Общий список" FROM tickets
UNION ALL
SELECT (airport_name ->> 'ru')::text FROM airports_data
ORDER BY  "Общий список" DESC;

-- G Сделал два варианта, немного не понятны условия, как должна выглядеть конечная таблица. Считаю

SELECT 'аэропорт:' as columType, (airport_name ->> 'ru')::text as name  FROM airports_data
```

Output | Result 8

1-500 of 501+

	flight_no	scheduled_arrival	count_pas
1	PG0710	2017-09-12 08:05:00.000000 +00:00	38
2	PG0710	2017-09-05 08:05:00.000000 +00:00	57
3	PG0710	2017-08-29 08:05:00.000000 +00:00	78
4	PG0710	2017-08-22 08:05:00.000000 +00:00	82
5	PG0710	2017-08-15 08:05:00.000000 +00:00	89
6	PG0710	2017-08-08 08:05:00.000000 +00:00	86
7	PG0710	2017-08-01 08:05:00.000000 +00:00	51

F.


--F --
SELECT passenger_name as "Общий список" FROM tickets
UNION ALL
SELECT (airport_name ->> 'ru')::text FROM airports_data
ORDER BY "Общий список" DESC;
-- G Сделал два варианта, немного не понятны условия, как должна выглядеть
SELECT 'аэропорт:' as columType, (airport_name ->> 'ru')::text as name FR
UNION ALL
SELECT 'пассажир:' as columType, passenger_name as name FROM tickets
ORDER BY columType DESC, name DESC;
--SELECT 'аэропорт:', airport_name,'пассажир:', passenger_name FROM airpor
--JOIN tickets t ON true
Output
Общий список:text
1-500 of 501+
"Общий список"
1 Якутск
2 Элиста
3 Шереметьево
4 Чульман
5 Чита
6 Череповец
7 Челябинск

G.

```sql
-- G Сделал два варианта, немного не понятны условия, как должна выглядеть конечная таблица. Считаю, что первый запрос более подходящий --

SELECT 'аэропорт:' as columType, (airport_name ->> 'ru')::text as name  FROM airports_data
UNION ALL
SELECT 'пассажир:' as columType, passenger_name as name FROM tickets
ORDER BY columType DESC, name DESC;

--SELECT 'аэропорт:', airport_name,'пассажир:', passenger_name FROM airports_data
--JOIN tickets t ON true
--ORDER BY airport_name DESC, t.passenger_name DESC;

-- H Использовал подзапрос, чтобы посчитать количество рейсов с 0 билетов --

SELECT COUNT(TF) FROM (SELECT COUNT(flights.flight_id) FROM flights
LEFT JOIN ticket_flights tf on flights.flight_id = tf.flight_id
GROUP BY flights.flight_id
HAVING COUNT(ticket_no) = 0) as TF;
```

Output | Result 10

1-500 of 501+

	columtype	name
1	пассажир:	ZULFIYA ZOTOVA
2	пассажир:	ZULFIYA ZOTOVA
3	пассажир:	ZULFIYA ZHURAVLEVA
4	пассажир:	ZULFIYA ZAYCEVA
5	пассажир:	ZULFIYA ZAYCEVA
6	пассажир:	ZULFIYA ZAKHAROVA
7	пассажир:	ZULFIYA ZAKHAROVA

H.

```sql
-- H Использовал подзапрос, чтобы посчитать количество рейсов с 0 билетов --

SELECT COUNT(TF) FROM (SELECT COUNT(flights.flight_id) FROM flights
LEFT JOIN ticket_flights tf on flights.flight_id = tf.flight_id
GROUP BY flights.flight_id
HAVING COUNT(ticket_no) = 0) as TF;


-- I Не получилось --

--SELECT avg(f.) as avgV, avg(tf.ticket_no) FROM airports_data
--INNER JOIN flights f on airports_data.airport_code = f.arrival_airport
--INNER JOIN ticket_flights tf on f.flight_id = tf.flight_id;
--WHERE

--SELECT AVG(
```

Output | COUNT(TF):bigint

1 row

	count
1	10895

I.

```
-- I Не получилось --

--SELECT avg(f.) as avgV, avg(tf.ticket_no) FROM airports_data
--INNER JOIN flights f on airports_data.airport_code = f.arrival_airport
--INNER JOIN ticket_flights tf on f.flight_id = tf.flight_id;
--WHERE

--SELECT AVG(
--    SELECT COUNT(seat_no) FROM seats
--GROUP BY aircraft_code) FROM seats;


--SELECT aircraft_code, COUNT(seat_no) FROM seats
--INNER JOIN flights f on seats.aircraft_code = f.aircraft_code
--INNER JOIN ticket_flights tf on f.flight_id = tf.flight_id
--GROUP BY aircraft_code ;
```

J.

```
-- J --
SELECT fl.flight_no, min(tf.amount) as minimum, max(tf.amount) FROM flights fl
JOIN ticket_flights tf on fl.flight_id = tf.flight_id
GROUP BY fl.flight_no;



-- KP 2 --

-- 1 --
SELECT (airport_name ->> 'ru')::text as Название_аэропорта FROM airports_data
EXCEPT (SELECT (city ->> 'ru')::text FROM airports_data);

-- 2 --
SELECT (airport_name ->> 'ru')::text as Название_аэропорта FROM airports_data
```

Output | Result 12

483 rows

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