```
1    /* 1. */
2 ✔  SELECT airport_code, city
3    FROM airports_data
4    WHERE city -> 'ru' ? 'Казань' or city -> 'ru' ? 'Москва'
5    ORDER BY airport_code DESC
6
7    /* 2. */
8    SELECT concat(airport_code, airport_name, city, coordinates, timezone) AS Polnaya_info
9    FROM airports_data
10   ORDER BY Polnaya_info ASC
11
12   /* 3. */
13   SELECT airport_code, count(airport_code)
14   FROM airports_data
15          JOIN flights f ON airports_data.airport_code = f.departure_airport
16   WHERE airport_code IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
17   GROUP BY airport_code
18   ORDER BY count(airport_code) DESC
```

Output | 1. ×

4 rows · Tx Auto · DDL

	airport_code	city
1	VKO	{"en": "Moscow", "ru": "Москва"}
2	SVO	{"en": "Moscow", "ru": "Москва"}
3	KZN	{"en": "Kazan", "ru": "Казань"}
4	DME	{"en": "Moscow", "ru": "Москва"}

```sql
/* 2. */
SELECT concat(airport_code, airport_name, city, coordinates, timezone) AS Polnaya_info
FROM airports_data
ORDER BY Polnaya_info ASC

/* 3. */
SELECT airport_code, count(airport_code)
FROM airports_data
        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 count(airport_code) DESC

/* 4. */
SELECT airport_code, count(airport_code)
FROM airports_data
        JOIN flights f ON airports_data.airport_code = f.departure_airport
WHERE airport_code NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
```
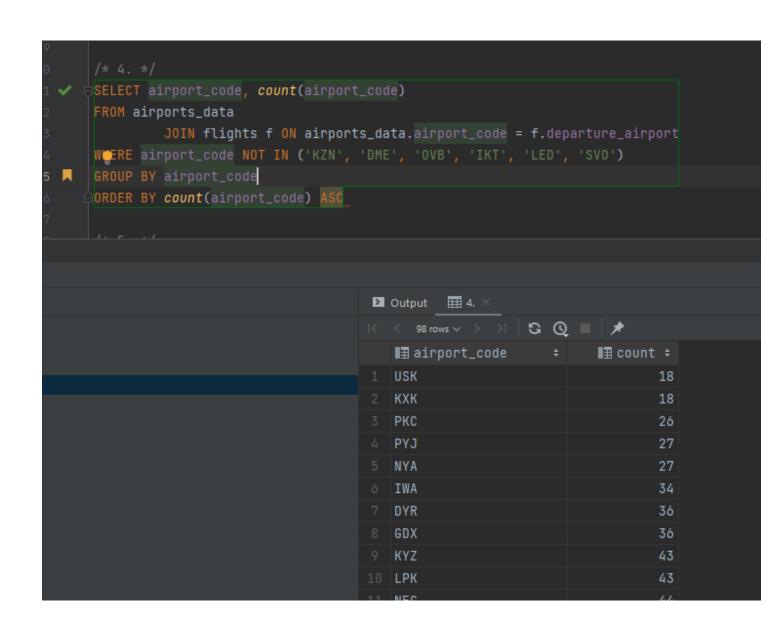
Output   2.

104 rows

polnaya_info

1   AAQ{"en": "Anapa Vityazevo Airport", "ru": "Витязево"}{"en": "Anapa", "ru": "Анапа"}(37.347301483
2   ABA{"en": "Abakan Airport", "ru": "Абакан"}{"en": "Abakan", "ru": "Абакан"}(91.38500213623047,53.
3   AER{"en": "Sochi International Airport", "ru": "Сочи"}{"en": "Sochi", "ru": "Сочи"}(39.9566001892
4   ARH{"en": "Talagi Airport", "ru": "Талаги"}{"en": "Arkhangelsk", "ru": "Архангельск"}(40.71670150
5   ASF{"en": "Astrakhan Airport", "ru": "Астрахань"}{"en": "Astrakhan", "ru": "Астрахань"}(48.006301
6   BAX{"en": "Barnaul Airport", "ru": "Барнаул"}{"en": "Barnaul", "ru": "Барнаул"}(83.53849792480469
7   BQS{"en": "Ignatyevo Airport", "ru": "Игнатьево"}{"en": "Blagoveschensk", "ru": "Благовещенск"}(1
8   BTK{"en": "Bratsk Airport", "ru": "Братск"}{"en": "Bratsk", "ru": "Братск"}(101.697998046875,56.3
9   BZK{"en": "Bryansk Airport", "ru": "Брянск"}{"en": "Bryansk", "ru": "Брянск"}(34.176399231,53.214
10 CEE{"en": "Cherepovets Airport", "ru": "Череповец"}{"en": "Cherepovets", "ru": "Череповец"}(38.01
11 CEK{"en": "Chelyabinsk Balandino Airport", "ru": "Челябинск"}{"en": "Chelyabinsk", "ru": "Челябин
12 CNN{"en": "Chulman Airport", "ru": "Чульман"}{"en": "Neryungri", "ru": "Нерюнгри"}(124.9140014648
13 CSY{"en": "Cheboksary Airport", "ru": "Чебоксары"}{"en": "Cheboksary", "ru": "Чебоксары"}(47.3473
14 DME{"en": "Domodedovo International Airport", "ru": "Домодедово"}{"en": "Moscow", "ru": "Москва"}
15 DYR{"en": "Ugolny Airport", "ru": "Анадырь"}{"en": "Anadyr", "ru": "Анадырь"}(177.74099731445312,

```sql
/* 3. */
SELECT airport_code, count(airport_code)
FROM airports_data
        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 count(airport_code) DESC

/* 4. */
SELECT airport_code, count(airport_code)
FROM airports_data
        JOIN flights f ON airports_data.airport_code = f.departure_airport
WHERE airport_code NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
```

▶ Output   ⊞ 3. ✕

|< < 6 rows ∨ > >|

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

```sql
/* 4. */
SELECT airport_code, count(airport_code)
FROM airports_data
        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 count(airport_code) ASC
```

Output   4. ×

98 rows

	airport_code	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	NFC	44

```sql
/* 5. */
SELECT flight_no, scheduled_arrival, count(tf.ticket_no) from flights
join ticket_flights tf on flights.flight_id = tf.flight_id
group by flight_no, scheduled_arrival
ORDER BY count(tf.ticket_no) DESC

/* 6. */
SELECT passenger_name, ad.airport_name -> 'ru' from tickets
                                                join ticket_flights tf on tickets.ticket_no = tf.ticket_no
                                                join flights f on tf.flight_id = f.flight_id
                                                join airports_data ad on f.departure_airport = ad.airport_code
ORDER BY  passenger_name, ad.airport_name DESC
```

Output   5. ×

|< < 1-500 ∨ of 501+ > >| ⟳ ⊕ ■ 📌

	flight_no	scheduled_arrival	count
1	PG0223	2017-08-12 12:15:00.000000 +00:00	374
2	PG0222	2017-08-17 11:30:00.000000 +00:00	370
3	PG0222	2017-07-31 11:30:00.000000 +00:00	365
4	PG0222	2017-08-13 11:30:00.000000 +00:00	365
5	PG0222	2017-08-02 11:30:00.000000 +00:00	361
6	PG0013	2017-08-22 17:00:00.000000 +00:00	359
7	PG0222	2017-08-20 11:30:00.000000 +00:00	358
8	PG0222	2017-08-09 11:30:00.000000 +00:00	357
9	PG0222	2017-08-23 11:30:00.000000 +00:00	356
10	PG0222	2017-07-30 11:30:00.000000 +00:00	355
11	PG0222	2017-08-08 11:30:00.000000 +00:00	355
12	PG0222	2017-08-05 11:30:00.000000 +00:00	355
13	PG0225	2017-08-24 11:35:00.000000 +00:00	353

```sql
/* 6. */
SELECT passenger_name, ad.airport_name -> 'ru' from tickets
join ticket_flights tf on tickets.ticket_no = tf.ticket_no
join flights f on tf.flight_id = f.flight_id
join airports_data ad on f.departure_airport = ad.airport_code
ORDER BY  passenger_name, ad.airport_name DESC

/* 7. */
SELECT passenger_name as entity, 'пассажир' as entity_type from tickets
UNION
SELECT airport_code, 'аэропорт' as entity_type from airports_data
ORDER BY entity_type, entity asc

/* 8. */
SELECT (sum(flights.flight_id)-(sum(tf.flight_id))) as sum from flights
LEFT JOIN ticket_flights tf on flights.flight_id = tf.flight_id

/* 9. */
```

Output   6.

	passenger_name	?column?
1	ADELINA AFANASEVA	"Пулково"
2	ADELINA AFANASEVA	"Домодедово"
3	ADELINA AKIMOVA	"Внуково"
4	ADELINA AKIMOVA	"Чебоксары"
5	ADELINA ALEKSANDROVA	"Шереметьево"
6	ADELINA ALEKSANDROVA	"Шереметьево"
7	ADELINA ALEKSANDROVA	"Пулково"
8	ADELINA ALEKSANDROVA	"Витязево"
9	ADELINA ALEKSEEVA	"Минеральные Воды"
10	ADELINA ALEKSEEVA	"Курумоч"
11	ADELINA ALEKSEEVA	"Домодедово"
12	ADELINA ALEKSEEVA	"Домодедово"
13	ADELINA ANDREEVA	"Уфа"
14	ADELINA ANDREEVA	"Элиста"
15	ADELINA ANDREEVA	"Элиста"

```sql
/* 7. */
SELECT passenger_name as entity, 'пассажир' as entity_type from tickets
UNION
SELECT airport_code, 'аэропорт' as entity_type from airports_data
ORDER BY entity_type, entity asc


/* 8. */
SELECT (sum(flights.flight_id)-(sum(tf.flight_id))) as sum from flights
LEFT JOIN ticket_flights tf on flights.flight_id = tf.flight_id


/* 9. */
SELECT f.aircraft_code as aircraft, count(tf.ticket_no) as tickets
from tickets
        join ticket_flights tf on tickets.ticket_no = tf.ticket_no
```

Output — 7.

entity	entity_type
AAQ	аэропорт
ABA	аэропорт
AER	аэропорт
ARH	аэропорт
ASF	аэропорт
BAX	аэропорт
BQS	аэропорт
BTK	аэропорт
BZK	аэропорт
CEE	аэропорт
CEK	аэропорт

```sql
/* 8. */
SELECT (sum(flights.flight_id)-(sum(tf.flight_id))) as sum from flights
LEFT JOIN ticket_flights tf on flights.flight_id = tf.flight_id


/* 9. */
SELECT f.aircraft_code as aircraft, count(tf.ticket_no) as tickets
from tickets
        join ticket_flights tf on tickets.ticket_no = tf.ticket_no
```

Output — 8.

sum
199387942

```sql
/* 9. */
SELECT f.aircraft_code as aircraft, count(tf.ticket_no) as tickets
from tickets
        join ticket_flights tf on tickets.ticket_no = tf.ticket_no
        join flights f on tf.flight_id = f.flight_id
WHERE status = 'Arrived' AND
        '2017-08-15' > actual_arrival and
        '2017-07-15' < actual_arrival
group by f.aircraft_code


-- /* 10. */
-- SELECT f.flight_no, max(amount), min(amount)
-- from ticket_flights tf
-- join flights f on tf.flight_id = f.flight_id
-- group by f.flight_no
```

tickets

▶ Output   ⊞ 9. ✕

|< < 8 rows ∨ > >| ⟳ ⊙ ■ 📌

aircraft ⇕	tickets ⇕
1 319	28143
2 321	55549
3 733	45920
4 763	66371
5 773	79091
6 CN1	7823
7 CR2	80604
8 SU9	193791

```sql
/* 10. */
SELECT f.flight_no, max(amount), min(amount)
from ticket_flights tf
join flights f on tf.flight_id = f.flight_id
group by f.flight_no
ORDER BY f.flight_no
```

Output   10. ×

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
9	PG0030	5300	5300
10	PG0032	5300	5300
11	PG0035	8700	8700