

```
-- 1
select airport_name ->> 'ru' name
from airports_data
except
select city ->> 'ru'
from airports_data
order by name;
```

```
-- 2
```

Output name ×

38 rows

	name
1	Байкал
2	Баратаевка
3	Бегишево
4	Беслан
5	Бесовец
6	Богашёво
7	Витязево
8	Внуково
9	Гумрак
10	Домодедово
11	Донское
12	Елизово
13	Емелькин

```
-- 2
select airport_name ->> 'ru' name
from airports_data
intersect
select city ->> 'ru'
from airports_data
order by name;
```

Output name x

66 rows

	name
1	Абакан
2	Анадырь
3	Астрахань
4	Барнаул
5	Белгород
6	Белоярский
7	Братск
8	Брянск
9	Бугульма
10	Владивосток
11	Воркута
12	Воронеж
13	Геленджик
14	Горно-Алтайск
15	Грозный

```

select aircraft_code, model, count(*)
from flights f
      natural join aircrafts_data ad
where departure_airport = 'KZN'
  and date_part('year', scheduled_departure) = 2017
  and date_part('month', scheduled_departure) = 8
group by aircraft_code, model
having count(*) > 50
order by count(*) desc, model ->> 'ru';

```

Output Result 121

3 rows

CSV

	aircraft_code	model	count
1	CN1	{"en": "Cessna 208 Caravan", "ru": "Сессна 208 Караван"}	62
2	SU9	{"en": "Sukhoi Superjet-100", "ru": "Сухой Суперджет-100"}	62
3	CR2	{"en": "Bombardier CRJ-200", "ru": "Бомбардье CRJ-200"}	54

```
-- 4
select *
from bookings b
    inner join tickets t on b.book_ref = t.book_ref
    inner join ticket_flights tf on t.ticket_no = tf.ticket_no
    inner join boarding_passes bp on t.ticket_no = bp.ticket_no
    inner join seats s on bp.seat_no = s.seat_no
    inner join aircrafts a on s.aircraft_code = a.aircraft_code
    inner join flights f on f.flight_id = tf.flight_id
    inner join airports d on d.airport_code = f.arrival_airport
    inner join airports ad2 on ad2.airport_code = f.departure_airport;
```

Output Result 122 x

	b.book_ref	book_date	total_amount	t.ticket_no	t.book_ref	passenger_id
1	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
2	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
3	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
4	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
5	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
6	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
7	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
8	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
9	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973
10	AECAAE	2017-06-26 14:16:00.000000 +00:00	37500.00	0005434458435	AECAAE	9532 360973

```
-- 5
select *
from ticket_flights tf
      right join flights f on f.flight_id = tf.flight_id
where tf.flight_id is null;

-- 6
```

Output Result 123 x

1-500 of 501+

CSV

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Refresh

Close

	ticket_no	tf.flight_id	fare_conditions	amount	f.flight_id	flight_no	scheduled_departure
1	<null>	<null>	<null>	<null>	26057	P60467	2017-08-26 12:45:00
2	<null>	<null>	<null>	<null>	50	P60402	2017-08-08 09:25:00
3	<null>	<null>	<null>	<null>	95	P60403	2017-08-24 08:25:00
4	<null>	<null>	<null>	<null>	107	P60403	2017-08-11 08:25:00
5	<null>	<null>	<null>	<null>	116	P60403	2017-08-31 08:25:00
6	<null>	<null>	<null>	<null>	199	P60403	2017-09-05 08:25:00
7	<null>	<null>	<null>	<null>	220	P60402	2017-07-25 09:25:00
8	<null>	<null>	<null>	<null>	524	P60213	2017-09-11 16:20:00
9	<null>	<null>	<null>	<null>	564	P60213	2017-08-20 16:20:00
10	<null>	<null>	<null>	<null>	683	P60054	2017-08-15 14:05:00
11	<null>	<null>	<null>	<null>	717	P60054	2017-08-28 14:05:00
12	<null>	<null>	<null>	<null>	755	P60054	2017-08-24 14:05:00
13	<null>	<null>	<null>	<null>	761	P60054	2017-09-01 14:05:00
14	<null>	<null>	<null>	<null>	785	P60054	2017-07-20 14:05:00
15	<null>	<null>	<null>	<null>	791	P60054	2017-07-04 14:05:00

```
-- 6
select f.flight_no, coalesce(sum(b.total_amount), 0) as sum
from flights f
    left join ticket_flights tf on f.flight_id = tf.flight_id
    left join tickets t on tf.ticket_no = t.ticket_no
    left join bookings b on t.book_ref = b.book_ref
where date_part('year', f.scheduled_departure) = 2017
    and date_part('month', f.scheduled_departure) = 8
group by f.flight_no
order by sum desc, f.flight_no;
```

```
-- 7
```

Output Result 124 ×

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	flight_no	sum
1	PG0208	1672352400
2	PG0209	1663853600
3	PG0222	1326384200
4	PG0223	1284322100
5	PG0357	1186671700
6	PG0356	1110721500
7	PG0278	1035475400
8	PG0199	1030437800
9	PG0277	1016444400
10	PG0198	1003582200
11	PG0470	941943500

console

```
-- 7
select coalesce(sum(case when date_part('month', f.scheduled_departure) = 8 then b.total_amount end), 0) as august,
       coalesce(sum(case when date_part('month', f.scheduled_departure) = 9 then b.total_amount end), 0) as september,
       f.flight_no
from flights f
     left join ticket_flights tf on f.flight_id = tf.flight_id
     left join tickets t on tf.ticket_no = t.ticket_no
     left join bookings b on t.book_ref = b.book_ref
where date_part('year', f.scheduled_departure) = 2017
group by f.flight_no
order by august desc, september desc, f.flight_no;

-- 8
```

Output -- 7 x

1-500 of 501+ [refresh] [filter] [pin]

CSV

	august	september	flight_no
1	1672352400	185816900	PG0208
2	1663853600	306490500	PG0209
3	1326384200	142741400	PG0222
4	1284322100	242598700	PG0223
5	1186671700	312027900	PG0357
6	1110721500	188163400	PG0356
7	1035475400	188259000	PG0278
8	1030437800	254632800	PG0199


```
-- 8
select t.passenger_id, t.passenger_name, t.contact_data
from tickets t
where substring(t.passenger_name from '^[A-Z]*') ilike 'iRiNa'
group by t.passenger_id, t.passenger_name, t.contact_data;
```

Output -- 8 x			
1-500 of 501+ Tx: Auto DDL			
	passenger_id	passenger_name	contact_data
1	0000 520871	IRINA BARANOVA	{"phone": "+70047718114"}
2	0001 212613	IRINA ZAKHAROVA	{"phone": "+70370929000"}
3	0003 353907	IRINA TIKHONOVA	{"email": "tikhonova_i_01121975@postgrespro.ru", "phone": "+70262881062"}
4	0006 223854	IRINA STEPANOVA	{"email": "stepanova.iriina_091967@postgrespro.ru", "phone": "+703800559"}
5	0006 396417	IRINA EGOROVA	{"email": "egorovairina.14031964@postgrespro.ru", "phone": "+7021859220"}
6	0013 608631	IRINA FADEEVA	{"phone": "+70078059520"}
7	0014 989404	IRINA SEMENOVA	{"phone": "+70618399241"}
8	0018 235286	IRINA ZAYCEVA	{"email": "i_zayceva.081970@postgrespro.ru", "phone": "+70584378688"}
9	0018 332165	IRINA KUZMINA	{"phone": "+70441407724"}
10	0018 677710	IRINA ANDREEVA	{"email": "andreeva_iriina-1978@postgrespro.ru", "phone": "+70181846901"}
11	0018 769407	IRINA SIDOROVA	{"phone": "+70270221501"}
12	0019 681289	IRINA ZAKHAROVA	{"phone": "+70344325271"}
13	0020 441555	IRINA ALEKSEEVA	{"email": "alekseeva-1121971@postgrespro.ru", "phone": "+70472982613"}