

100
101 -- ex.1
102
103 ✓ select airport_name ->> 'ru' as name from airports_data
104 EXCEPT
105 SELECT city ->> 'ru' FROM airports_data
106 ORDER BY name;
107

Services

TX > Output name x

data |< < 38 rows > > | ↺ ⌚ ■ 📌

	name
27	Стригино
28	Талаги
29	Толмачёво
30	Туношна
31	Уйташ
32	Ульяновск-Восточный
33	Хабаровск-Новый
34	Хомутово
35	Храброво
36	Хурба
37	Чульман
38	Шереметьево

109
110 ✓ select airport_name ->> 'ru' as name from airports_data
111 INTERSECT
112 SELECT city ->> 'ru' FROM airports_data
113 ORDER BY name;
114

Services

TX > Output name x

data |< < 66 rows > > | ↺ ⌚ ■ 📌

	name
53	Сургут
54	Сыктывкар
55	Усинск
56	Усть-Илимск
57	Усть-Кут
58	Уфа
59	Ухта
60	Ханты-Мансийск
61	Чебоксары
62	Челябинск
63	Череповец
64	Чита
65	Элиста
66	Якутск

```
113 ORDER BY name,  
114  
115 -- ex.3  
116  
117 ✓ SELECT aircraft_code AS aircraft_type,  
118       COUNT(*) AS flight_count  
119 FROM flights  
120 WHERE departure_airport = 'KZN'  
121       AND EXTRACT(MONTH FROM scheduled_departure) = 8  
122       AND EXTRACT(YEAR FROM scheduled_departure) = 2017  
123 GROUP BY aircraft_code  
124 HAVING COUNT(*) > 50  
125 ORDER BY flight_count DESC, aircraft_type ASC;  
126
```

Services

Output Result 34

	aircraft_type	flight_count
1	CN1	62
2	SU9	62
3	CR2	54

```
126 -- ex.4  
127  
128 ✓ Select * from airports_data  
129 inner join bookings.flights on airports_data.airport_code = flights.arrival_airport  
130 inner join bookings.ticket_flights on flights.flight_id = ticket_flights.flight_id  
131 inner join bookings.boarding_passes on ticket_flights.flight_id = boarding_passes.flight_id  
132 inner join bookings.tickets on tickets.ticket_no = ticket_flights.ticket_no  
133  
134 inner join bookings.tickets on tickets.ticket_no = ticket_flights.ticket_no  
135 inner join bookings.tickets on tickets.ticket_no = ticket_flights.ticket_no  
136 inner join bookings.tickets on tickets.ticket_no = ticket_flights.ticket_no  
137 inner join bookings.tickets on tickets.ticket_no = ticket_flights.ticket_no
```

Data Source: demo@localhost
Database: demo
Schema: bookings

Services

Output Result 35

	airport_code	airport_name	city	coordinates	timezone	flights.flight_id	flight_no	scheduled_de
1	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
2	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
3	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
4	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
5	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
6	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
7	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
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9	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
10	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
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12	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
13	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
14	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
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17	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
18	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
19	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:
20	SVO	{ "en": "Sheremetyevo International Airport", "ru": "Верный" }	{ "en": "Moscow", "ru": "Москва" }	(37.4146, 55.972599)	Europe/Moscow	27480	P60548	2017-07-26 05:

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140 ✓
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ex.5

SELECT count(*) as empty_flights
FROM ticket_flights tf
RIGHT JOIN flights f ON f.flight_id = tf.flight_id
WHERE tf.ticket_no is null;

Services

Tx > Output empty_flights:bigint x

data < < 1 row > > | ↺ ⌚ ■ 📌

empty_flights ↕

1	20490
---	-------

demo@localhost 1 of 4

demo 1 of 4

bookings

tables 8

views 4

routines 2

sequences 1

Database Objects

Server Objects

144

145

146

147 ✓

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

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-- ex.6

select sum(tf.amount) as august, f.flight_no

from ticket_flights tf

join flights f on f.flight_id = tf.flight_id

WHERE EXTRACT(MONTH FROM scheduled_departure) = 8

AND EXTRACT(YEAR FROM scheduled_departure) = 2017

group by f.flight_no

order by sum(tf.amount) desc ;

--

-- SELECT f.flight_id,

-- f.flight_no,

-- f.scheduled_departure,

-- COALESCE(SUM(t.amount), 0) AS total_revenue

-- FROM flights f

-- LEFT JOIN ticket_flights t ON f.flight_id = t.flight_id

-- WHERE EXTRACT(MONTH FROM f.scheduled_departure) = 8

-- AND EXTRACT(YEAR FROM f.scheduled_departure) = 2017

-- GROUP BY f.flight_id, f.flight_no, f.scheduled_departure

-- ORDER BY total_revenue DESC;

Services

Tx

Output

Result 37

data

472 rows

august

flight_no

462

418000

PG0077

463

349800

PG0030

464

334400

PG0352

465

264000

PG0535

466

206800

PG0354

467

198000

PG0079

468

168000

PG0097

469

123200

PG0098

470

118800

PG0343

471

72400

PG0685

472

6400

PG0590

```
-- ex.7

-- SELECT
--     f.flight_id,
--     f.flight_no,
--     f.scheduled_departure,
--     COALESCE(SUM(CASE WHEN EXTRACT(MONTH FROM f.scheduled_departure) = 8 THEN t.amount ELSE 0 END), 0) AS august,
--     COALESCE(SUM(CASE WHEN EXTRACT(MONTH FROM f.scheduled_departure) = 9 THEN t.amount ELSE 0 END), 0) AS september
-- FROM flights f
-- LEFT JOIN ticket_flights t ON f.flight_id = t.flight_id
-- WHERE (EXTRACT(MONTH FROM f.scheduled_departure) = 8 OR EXTRACT(MONTH FROM f.scheduled_departure) = 9)
-- AND EXTRACT(YEAR FROM f.scheduled_departure) = 2017
-- GROUP BY f.flight_id, f.flight_no, f.scheduled_departure
-- ORDER BY flight_no asc;

SELECT
    f.flight_no,
    SUM(CASE WHEN EXTRACT(MONTH FROM f.scheduled_departure) = 8 THEN tf.amount ELSE 0 END) AS august,
    SUM(CASE WHEN EXTRACT(MONTH FROM f.scheduled_departure) = 9 THEN tf.amount ELSE 0 END) AS september
FROM
    flights f
JOIN
    ticket_flights tf ON f.flight_id = tf.flight_id
WHERE
    EXTRACT(YEAR FROM f.scheduled_departure) = 2017
    AND EXTRACT(MONTH FROM f.scheduled_departure) IN (8, 9)
GROUP BY
    f.flight_no
ORDER BY
    august DESC, september desc, flight_no ASC;
```

data 482 rows				
	flight_no	august	september	
472	PG0590	6400	0	
473	PG0686	0	546600	
474	PG0567	0	381100	
475	PG0122	0	374200	
476	PG0344	0	118800	
477	PG0439	0	31200	
478	PG0385	0	20500	
479	PG0400	0	17700	
480	PG0263	0	6600	
481	PG0537	0	3300	
482	PG0295	0	3000	

196
197
198
199 ✓
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201

-- ex.8

SELECT DISTINCT passenger_name
FROM tickets
WHERE passenger_name ILIKE '%iRiNa%';

Services

> Output demo.bookings.tickets x

data 113 rows v > | ↺ ⌚ ■ + − ↶ ↷ ⬆ Tx: Auto v DDL ⚙

	passenger_name
103	IRINA BOGDANOVA
104	IRINA TARASOVA
105	IRINA KOLESNIKOVA
106	IRINA SAVELEVA
107	IRINA TITOVA
108	IRINA KRASNOVA
109	IRINA KARPOVA
110	IRINA LOGINOVA
111	IRINA GAVRILOVA
112	IRINA DAVYDOVA
113	IRINA KOROLEVA