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1 ✓ SELECT airport_code, coordinates FROM airports_data
2 WHERE city IN ('{"en": "Moscow", "ru": "Москва"}', '{"en": "Kazan", "ru": "Казань"}')
3 ORDER BY airport_code DESC;
4

```

Output demo.bookings.airports\_data ×

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

```

5 ✓ SELECT CONCAT_WS(' ',airport_code, airport_name, city, coordinates, timezone) AS "Полная информация" ✓
6 FROM airports_data
7 ORDER BY "Полная информация";
8

```

Output Полная информация: text ×

"Полная информация"
AAQ, {"en": "Anapa Vityazevo Airport", "ru": "Витязево"}, {"en": "Anapa", "ru": "Анапа"}, (37.34730148315...
ABA, {"en": "Abakan Airport", "ru": "Абакан"}, {"en": "Abakan", "ru": "Абакан"}, (91.38500213623047,53.74...
AER, {"en": "Sochi International Airport", "ru": "Сочи"}, {"en": "Sochi", "ru": "Сочи"}, (39.956600189209...
ARH, {"en": "Talagi Airport", "ru": "Талаги"}, {"en": "Arkhangelsk", "ru": "Архангельск"}, (40.7167015075...

```

9 ✓ SELECT a.airport_code, COUNT(flight_id) AS num_flights
10 FROM airports_data a
11 JOIN flights f ON a.airport_code = f.departure_airport OR a.airport_code = f.arrival_airport
12 WHERE airport_code IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
13 GROUP BY airport_code
14 ORDER BY airport_code DESC;
15

```

Output Result 3 ×

airport_code	num_flights
SVO	5963
OVB	2110
LED	3802
KZN	941
IKT	731
DME	6434

```

16 ✓ SELECT a.airport_code, COUNT(flight_id) AS num_flights
17 FROM airports_data a
18 JOIN flights f ON a.airport_code = f.departure_airport OR a.airport_code = f.arrival_airport
19 WHERE airport_code NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
20 GROUP BY airport_code
21 ORDER BY airport_code;
22

```

Output Result 5 ×

airport_code	num_flights
AAQ	262
ABA	470
AER	1168
ARH	645
ASF	296
BAX	312
BGG	100

```

23 ✓ SELECT f.flight_no, f.scheduled_departure, f.scheduled_arrival, COUNT(t.flight_id) AS claimed_passengers
24 FROM flights f
25 JOIN ticket_flights t ON f.flight_id = t.flight_id
26 GROUP BY f.flight_no, f.scheduled_departure, f.scheduled_arrival
27 HAVING COUNT(t.flight_id) BETWEEN 27 AND 90
28 ORDER BY flight_no, scheduled_departure, scheduled_arrival, claimed_passengers DESC;

```

Output Result 1

	flight_no	scheduled_departure	scheduled_arrival	claim
1	PG0013	2017-09-10 15:15:00.000000 +00:00	2017-09-10 17:00:00.000000 +00:00	
2	PG0013	2017-09-11 15:15:00.000000 +00:00	2017-09-11 17:00:00.000000 +00:00	

```

34 ✓ SELECT passenger_name AS name FROM tickets
35 UNION SELECT CAST(airport_name->>'en' AS text)
36 FROM airports_data
37 ORDER BY name DESC;

```

Output name:text

	name
1	ZULFIYA ZOTOVA
2	ZULFIYA ZHURAVLEVA
3	ZULFIYA ZAYCEVA
4	ZULFIYA ZAKHAROVA
5	ZULFIYA VOROBEOVA
6	ZULFIYA VOLKOVA
7	ZULFIYA VLASOVA
8	ZULFIYA VASILEVA

```

39 ✓ SELECT passenger_name AS name, 'пассажир' AS record_type FROM tickets
40 UNION (SELECT airport_name AS name, 'аэропорт' AS record_type FROM airports)
41 ORDER BY record_type DESC, name DESC;

```

Output Result 9

	name	record_type
1	ZULFIYA ZOTOVA	пассажир
2	ZULFIYA ZHURAVLEVA	пассажир
3	ZULFIYA ZAYCEVA	пассажир
4	ZULFIYA ZAKHAROVA	пассажир
5	ZULFIYA VOROBEOVA	пассажир

```

43 ✓ SELECT COUNT(*) AS flight_count FROM flights
44 LEFT JOIN ticket_flights ON flights.flight_id = ticket_flights.flight_id
45 WHERE ticket_flights.ticket_no IS NULL;

```

Output flight\_count:bigint

	flight_count
1	10895

```

47 ✓ SELECT flights.departure_airport, avg(s.seats_count) AS capacity, avg(tf.tickets_count) AS tickets FROM flights
48 JOIN (SELECT aircraft_code, count(*) AS seats_count FROM seats GROUP BY aircraft_code) AS s
49 ON flights.aircraft_code = s.aircraft_code
50 LEFT JOIN (SELECT flight_id, count(*) AS tickets_count FROM ticket_flights GROUP BY flight_id) AS tf
51 ON flights.flight_id = tf.flight_id
52 WHERE extract(MONTH FROM flights.scheduled_departure) = 8
53 GROUP BY flights.departure_airport
54 ORDER BY capacity desc, tickets desc;

```

Output Result 11 ×

	departure_airport	capacity	tickets
1	PKC	222	68.2307692307692308
2	KXK	222	28.7777777777777778
3	BBV	142	7001571810105013

```

56 ✓ SELECT flight_id, MIN(amount) AS cheapest_ticket, MAX(amount) AS most_expensive_ticket
57 FROM ticket_flights
58 GROUP BY flight_id;

```

Output Result 12 ×

	flight_id	cheapest_ticket	most_expensive_ticket
1	11233	19100	57200
2	22344	6600	6600
3	26264	62100	186200
4	4790	17600	19400
5	24416	7500	8200