```sql
-- ex.a

SELECT airport_code, coordinates FROM airports_data
WHERE ((city ->> 'en') = 'Kazan' or (city ->> 'en') = 'Moscow')
ORDER BY airport_code DESC;
```

Services

Output | ex.a

4 rows | Tx: Auto | DDL

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

```sql
-- ex.b

SELECT CONCAT_WS(' ', airport_code, airport_name, city, coordinates, timezone) as full_info from airports
order by full_info;
```

Services

Output | full_info:text

104 rows | CSV

	full_info
1	AAQ Витязево Анапа (37.347301483154,45.002101898193) Europe/Moscow
2	ABA Абакан Абакан (91.38500213623047,53.7400016784668) Asia/Krasnoyarsk
3	AER Сочи Сочи (39.956600189209,43.449901580811) Europe/Moscow
4	ARH Талаги Архангельск (40.71670150756836,64.60030364990234) Europe/Moscow
5	ASF Астрахань Астрахань (48.0063018799,46.2832984924) Europe/Samara
6	BAX Барнаул Барнаул (83.53849792480469,53.363800048828125) Asia/Krasnoyarsk
7	BQS Игнатьево Благовещенск (127.41200256347656,50.42539978027344) Asia/Yakutsk
8	BTK Братск Братск (101.697998046875,56.370601654052734) Asia/Irkutsk
9	BZK Брянск Брянск (34.176399231,53.214199066199996) Europe/Moscow
10	CEE Череповец Череповец (38.015800476100004,59.273601532) Europe/Moscow
11	CEK Челябинск Челябинск (61.5033,55.305801) Asia/Yekaterinburg
12	CNN Чульман Нерюнгри (124.91400146484,56.913898468018) Asia/Yakutsk
13	CSY Чебоксары Чебоксары (47.3473014831543,56.090301513671875) Europe/Moscow
14	DME Домодедово Москва (37.90629959106445,55.40879821777344) Europe/Moscow

```sql
-- ex.c
select airports_data.airport_name ->> 'ru' as airport_name_ru, count(*) from flights
                                                join airports_data on flights.departure_airport = airports_data.airport_code
where departure_airport in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
group by airport_name_ru
order by count(*) desc;
```

Services

Output | Result 4

6 rows | CSV

	airport_name_ru	count
1	Домодедово	6376
2	Шереметьево	5912
3	Пулково	3769
4	Толмачёво	2091
5	Казань	934
6	Иркутск	727

```sql
-- ex.d
select airports_data.airport_name ->> 'ru' as airport_name_ru, count(*) from flights
                                                join airports_data on flights.departure_airport = airports_data.airport_code
where departure_airport not in ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
group by airport_name_ru
order by count(*);
```

Services

Output | Result 5

98 rows | CSV

	airport_name_ru	count
1	Усинск	34
2	Хурба	35
3	Нягань	51
4	Полярный	51
5	Елизово	52
6	Иваново-Южный	68
7	Магадан	70
8	Анадырь	70
9	Липецк	86
10	Кызыл	86
11	Нефтеюганск	87
12	Белоярский	104
13	Стрежевой	121
14	Усть-Кут	121

```sql
-- ex.e

select flight_no, actual_departure, count(ticket_no) as passangers_number
from flights
inner join ticket_flights tf on flights.flight_id = tf.flight_id
GROUP BY flight_no, actual_departure
HAVING count(ticket_no) BETWEEN 27 AND 90
order by flight_no, actual_departure, passangers_number desc;
```

Services

Output | Result 6

1-500 of 501+

	flight_no	actual_departure	passangers_number
1	PG0012	2017-07-11 07:57:00.000000 +00:00	31
2	PG0014	2017-05-17 04:35:00.000000 +00:00	36
3	PG0014	2017-05-18 04:33:00.000000 +00:00	40
4	PG0014	2017-05-19 04:39:00.000000 +00:00	37
5	PG0014	2017-05-20 04:34:00.000000 +00:00	39
6	PG0014	2017-05-21 04:34:00.000000 +00:00	38
7	PG0014	2017-05-22 04:33:00.000000 +00:00	38
8	PG0014	2017-05-23 04:30:00.000000 +00:00	39
9	PG0014	2017-05-24 04:30:00.000000 +00:00	41
10	PG0014	2017-05-25 04:34:00.000000 +00:00	44
11	PG0014	2017-05-26 04:32:00.000000 +00:00	50
12	PG0014	2017-05-27 04:36:00.000000 +00:00	67
13	PG0014	2017-05-28 04:30:00.000000 +00:00	73
14	PG0014	2017-05-29 04:33:00.000000 +00:00	76

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```sql
-- ex.f

-- select t.passenger_name, ad.airport_name ->> 'ru' as airport_name
-- from tickets t
--     join ticket_flights tf on t.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 desc;

select tickets.passenger_name as name from tickets
union all
select airports_data.airport_name ->> 'ru' as name from airports_data
order by name desc;
```

Services

Output | name:text

1-500 of 501+

	name
1	Якутск
2	Элиста
3	Шереметьево
4	Чульман
5	Чита
6	Череповец
7	Челябинск
8	Чебоксары
9	Хурба
10	Храброво
11	Хомутово
12	Ханты-Мансийск
13	Хабаровск-Новый
14	Ухта
15	Уфа

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```sql
-- ex.g

select tickets.passenger_name as name, 'Passenger' as type from tickets
union all
select airports_data.airport_name ->> 'ru' as name, 'Airport' as type from airports_data
order by type desc, name;
```

Services

Output | Result 8

1-500 of 501+

	name	type
1	ADELINA AFANASEVA	Passenger
2	ADELINA AKIMOVA	Passenger
3	ADELINA ALEKSANDROVA	Passenger
4	ADELINA ALEKSEEVA	Passenger
5	ADELINA ANDREEVA	Passenger
6	ADELINA ANDREEVA	Passenger
7	ADELINA ANDREEVA	Passenger
8	ADELINA ANISIMOVA	Passenger
9	ADELINA BELOVA	Passenger
10	ADELINA BELYAEVA	Passenger
11	ADELINA BELYAEVA	Passenger
12	ADELINA CHERNOVA	Passenger
13	ADELINA DANILOVA	Passenger
14	ADELINA DENISOVA	Passenger
15	ADELINA DENISOVA	Passenger

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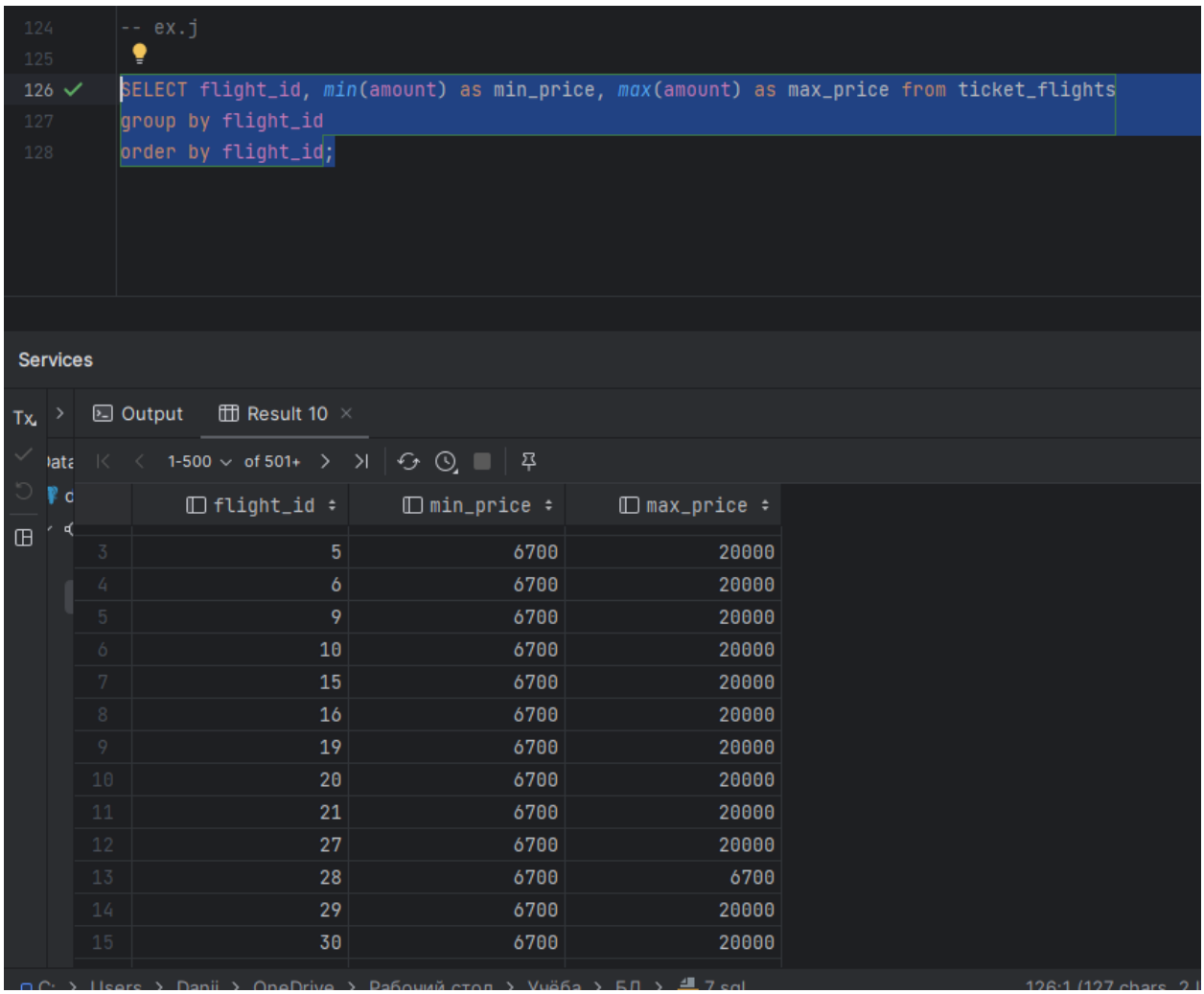
```sql
-- ex.h

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

Services

Output | empty_flights:bigint

1 row

	empty_flights
1	20490


124 -- ex.j
125
126 SELECT flight_id, min(amount) as min_price, max(amount) as max_price from ticket_flights
127 group by flight_id
128 order by flight_id;
Services
Output
Result 10
1-500 of 501+
flight_id min_price max_price
3 5 6700 20000
4 6 6700 20000
5 9 6700 20000
6 10 6700 20000
7 15 6700 20000
8 16 6700 20000
9 19 6700 20000
10 20 6700 20000
11 21 6700 20000
12 27 6700 20000
13 28 6700 6700
14 29 6700 20000
15 30 6700 20000