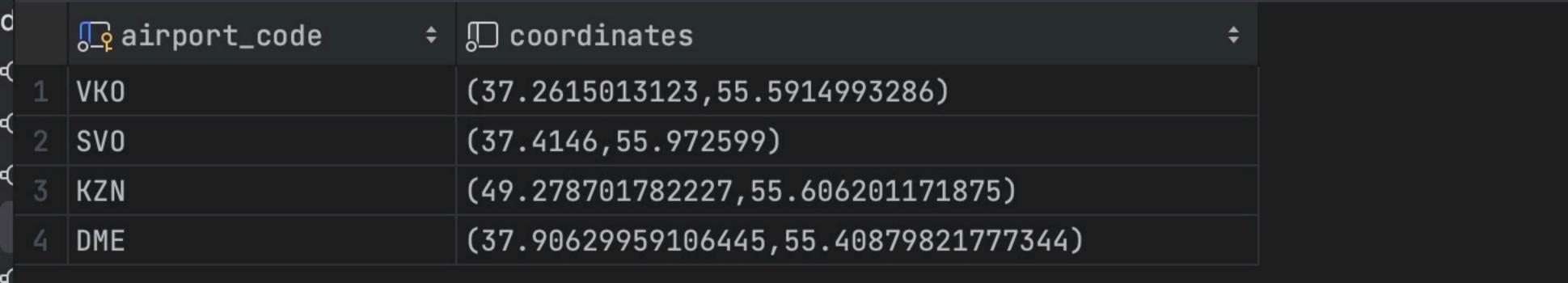
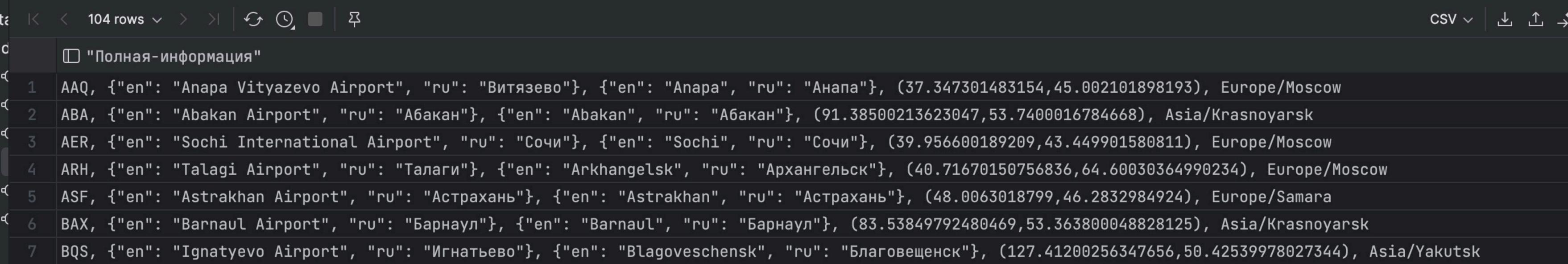
```
SELECT airport_code, coordinates
FROM airports_data
WHERE city = '{"en": "Moscow", "ru": "Москва"}' OR city = '{"en": "Казань"}'
```

-- hw 7

ORDER BY airport_code DESC;

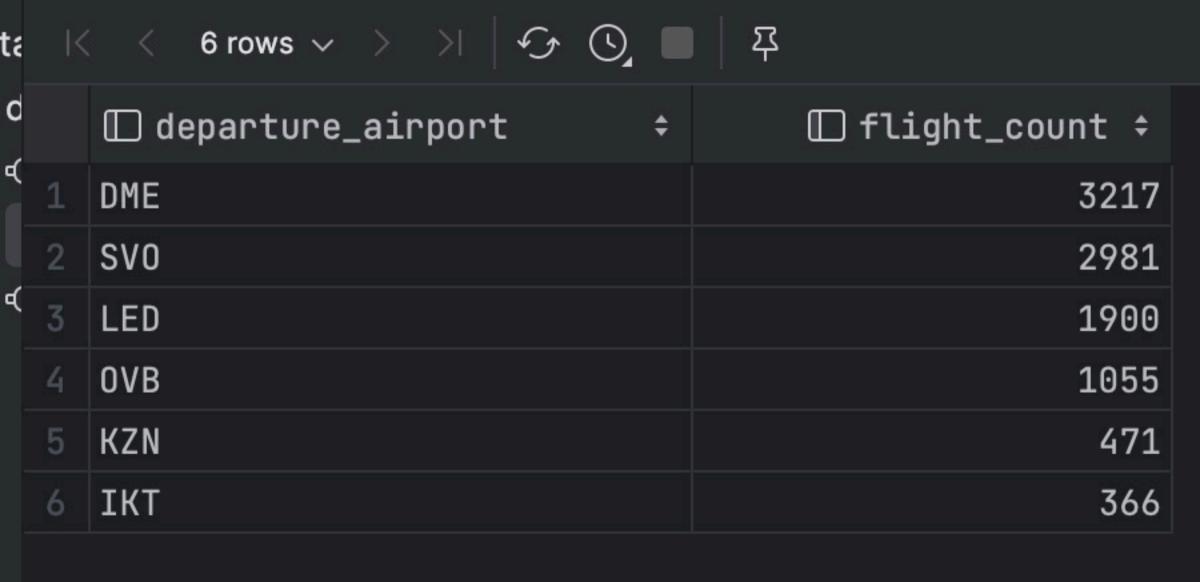


```
FROM airports_data
ORDER BY 1 ASC;
```



```
SELECT departure_airport, COUNT(*) AS flight_count
FROM flights
WHERE flights.departure_airport IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY departure_airport
```

ORDER BY flight_count DESC;



```
SELECT departure_airport, COUNT(*) AS flight_count
FROM flights
WHERE flights.departure_airport NOT IN ('KZN', 'DME', 'OVB', 'IKT', 'LED', 'SVO')
GROUP BY departure_airport
```

ORDER BY flight_count ASC;

	☐ departure_airport \$	☐ flight_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	NFG	44
12	EYK	53
13	UKX	61
14	ВТК	61
15	IJK	61
16	SWT	61
17	BQS	61
18	GRV	70
19	UUD	71
20	OSW	71

```
SELECT
    flights.flight_no AS flight_number,
    flights.scheduled_departure AS flight_date,
    COUNT(boarding_passes.ticket_no) AS passengers_count
FROM
    flights
JOIN
    boarding_passes ON flights.flight_id = boarding_passes.flight_id
GROUP BY
    flights.flight_no,
    flights.scheduled_departure
HAVING
    COUNT(boarding_passes.ticket_no) BETWEEN 27 AND 90
ORDER BY
    flights.flight_no ASC,
    flights.scheduled_departure ASC,
    passengers_count DESC;
```

PG0014

PG0014

PG0014

☐ flight_number	☐ flight_date	‡	□ passengers_count ‡
PG0014	2017-07-16 04:30:00.000000	+00:00	41
PG0014	2017-07-17 04:30:00.000000	+00:00	36
PG0014	2017-07-18 04:30:00.000000	+00:00	38
PG0014	2017-07-19 04:30:00.000000	+00:00	39
PG0014	2017-07-20 04:30:00.000000	+00:00	38
PG0014	2017-07-21 04:30:00.000000	+00:00	43
PG0014	2017-07-22 04:30:00.000000	+00:00	34
PG0014	2017-07-23 04:30:00.000000	+00:00	38
PG0014	2017-07-24 04:30:00.000000	+00:00	56
PG0014	2017-07-25 04:30:00.000000	+00:00	59
PG0014	2017-07-26 04:30:00.000000	+00:00	72
PG0014	2017-07-27 04:30:00.000000	+00:00	73
PG0014	2017-07-28 04:30:00.000000	+00:00	77
PG0014	2017-07-29 04:30:00.000000	+00:00	78
PG0014	2017-07-30 04:30:00.000000	+00:00	83

83

78

87

2017-07-31 04:30:00.000000 +00:00

2017-08-01 04:30:00.000000 +00:00

2017-08-02 04:30:00.000000 +00:00

```
SELECT
    tickets.passenger_name,
   airports_data.airport_name
F OM
    tickets
JOIN
    boarding_passes ON tickets.ticket_no = boarding_passes.ticket_no
JOIN
   flights ON boarding_passes.flight_id = flights.flight_id
JOIN
   airports_data ON flights.departure_airport = airports_data.airport_code
ORDER BY
    tickets.passenger_name DESC, airports_data.airport_name DESC;
```

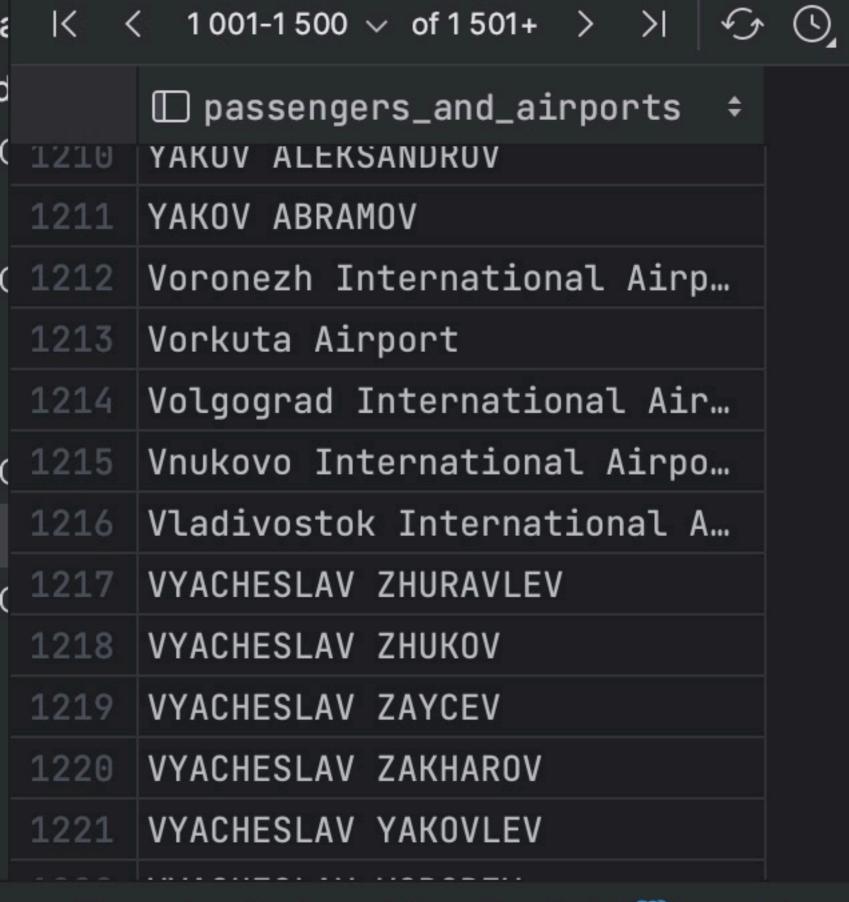
	□ passenger_name	□ airport_name	\$
1	ZULFIYA ZOTOVA	{"en": "Sheremetyevo International Airport", "ru": "Шереметьево"}	
2	ZULFIYA ZOTOVA	{"en": "Saransk Airport", "ru": "Саранск"}	
3	ZULFIYA ZHURAVLEVA	{"en": "Pulkovo Airport", "ru": "Пулково"}	
4	ZULFIYA ZHURAVLEVA	{"en": "Pobedilovo Airport", "ru": "Победилово"}	
5	ZULFIYA ZAYCEVA	{"en": "Domodedovo International Airport", "ru": "Домодедово"}	
6	ZULFIYA ZAKHAROVA	{"en": "Vnukovo International Airport", "ru": "Внуково"}	
7	ZULFIYA ZAKHAROVA	{"en": "Ulyanovsk Baratayevka Airport", "ru": "Баратаевка"}	
8	ZULFIYA ZAKHAROVA	{"en": "Ulyanovsk Baratayevka Airport", "ru": "Баратаевка"}	
9	ZULFIYA ZAKHAROVA	{"en": "Krasnodar Pashkovsky International Airport", "ru": "Краснодар"}	
se Co	nsoles > demo@localhost >	console	

```
SELECT
   tickets.passenger_name || ' - ' || (airports_data.airport_name->>'ru')::text AS passenger_and_airport
FROM
   tickets
JOIN
   boarding_passes ON tickets.ticket_no = boarding_passes.ticket_no
JOIN
   flights ON boarding_passes.flight_id = flights.flight_id
JOIN
   airports_data ON flights.departure_airport = airports_data.airport_code
ORDER BY
   passenger_and_airport DESC;
```

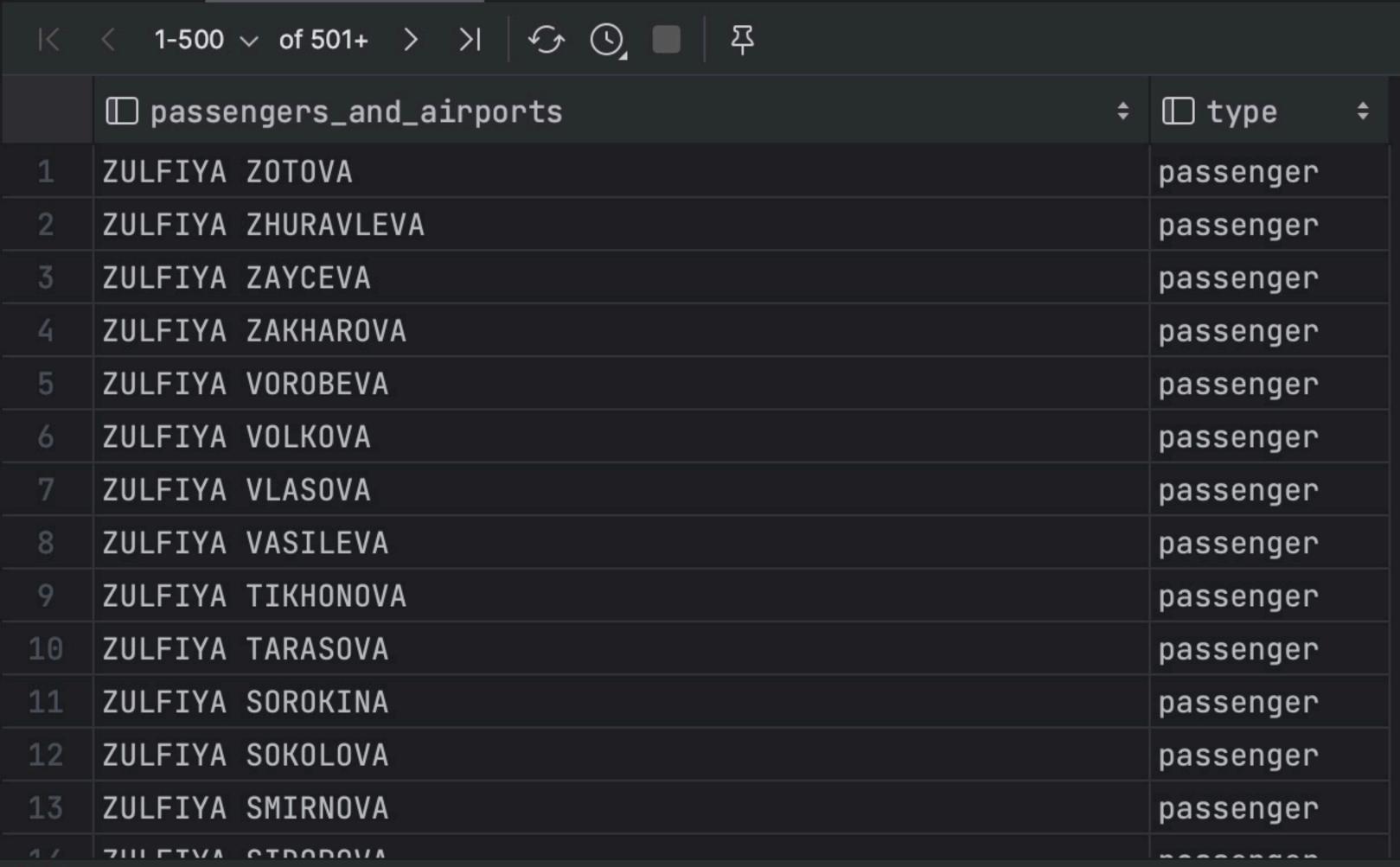
	□ passenger_and_airport	‡
1	ZULFIYA ZOTOVA - Шереметьево	
2	ZULFIYA ZOTOVA - Саранск	
3	ZULFIYA ZHURAVLEVA - Пулково	
4	ZULFIYA ZHURAVLEVA - Победилово	
5	ZULFIYA ZAYCEVA - Домодедово	
6	ZULFIYA ZAKHAROVA - Краснодар	
7	ZULFIYA ZAKHAROVA - Внуково	
8	ZULFIYA ZAKHAROVA - Баратаевка	
9	ZULFIYA ZAKHAROVA - Баратаевка	
10	ZULFIYA VOROBEVA - Рощино	
11	ZULFIYA VOROBEVA - Внуково	
12	ZULFIYA VOROBEVA - Бесовец	
13	ZULFIYA VOROBEVA - Бесовец	
14	ZULFIYA VOLKOVA - Шереметьево	
15	ZULFIYA VOLKOVA - Толмачёво	

ZULFIYA VLASOVA - Домодедово

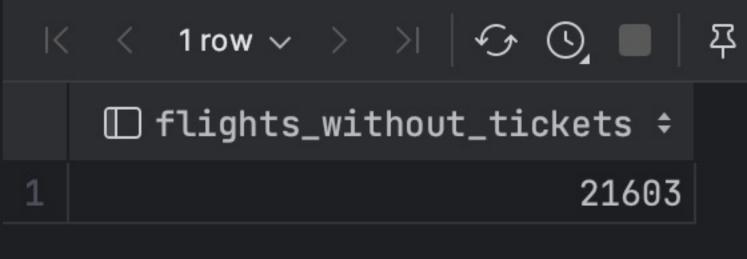
SELECT airports_data.airport_name->>'en' AS passengers_and_airports FROM airports_data UNION SELECT tickets.passenger_name AS passengers_and_airports FROM tickets ORDER BY passengers_and_airports DESC;



```
SELECT
    airports_data.airport_name->>'en' AS passengers_and_airports,
    'airport' AS type
FROM
    airports_data
UNION
SELECT
    tickets.passenger_name AS passengers_and_airports,
    'passenger' AS type
FROM
    tickets
ORDER BY
    type DESC,
    passengers_and_airports DESC;
```



```
SELECT
    COUNT(*) AS flights_without_tickets
FROM
    flights
LEFT JOIN
    boarding_passes ON flights.flight_id = boarding_passes.flight_id
    boarding_passes.ticket_no IS NULL;
```



```
SELECT
   flights.departure_airport,
   AVG(s.seats_count) AS capacity,
   AVG(tf.tickets_count) AS tickets
FROM
    flights
JOIN
    (SELECT aircraft_code, COUNT(*) AS seats_count
     FROM seats
     GROUP BY aircraft_code) AS s ON flights.aircraft_code = s.aircraft_code
LEFT JOIN
    (SELECT flight_id, COUNT(*) AS tickets_count
     FROM ticket_flights
     GROUP BY flight_id) AS tf ON flights.flight_id = tf.flight_id
WHERE EXTRACT(MONTH FROM flights.scheduled_departure) = 8
GROUP BY flights.departure_airport
ORDER BY capacity DESC, tickets DESC;
```

	☐ departure_airport ÷	☐ capacity \$	□ tickets ‡
1	PKC	222	68.2307692307692308
2	KXK	222	28.777777777778
3	GDX	162.7894736842105263	29.5
4	KRR	135.05	117.813333333333333
5	VVO	123	41.5217391304347826
6	KUF	121.333333333333333	129.2258064516129032
7	AER	116.6824324324324324	110.8941798941798942
8	ВТК	116	58.7096774193548387
9	DYR	116	41.2
10	AAQ	114.7313432835820896	101.5161290322580645
11	ULV	110.425	77.6064516129032258
12	SV0	109.9301252471984179	76.6155624036979969
13	SVX	107.9771428571428571	99.211864406779661
14	PEE	107.8317460317460317	83.0481927710843373
15	MRV	107.3773584905660377	71.5377358490566038
16	LED	107.0797927461139896	59.7968069666182874
17	KHV	106.303921568627451	86.8197674418604651
18	DME	101.3971848225214198	67.9448875997099347
19	VK0	99.2233676975945017	54.9134751773049645
20	KGD	99.2125	67.375
21	SCW	98	89.0206185567010309
22	URJ	97	84.3387096774193548
23	BZK	97	67.1935483870967742
24	BQS	97	45.1290322580645161
25	MCX	88.5980392156862745	79.2473118279569892
26	OVB	87.7252336448598131	88.9296187683284457
27	NSK	87.2857142857142857	77.1774193548387097
20	TI/T	0/ 0/77/1075/07071	04 745/0/07/5000070

```
SELECT
    flight_id,
    MIN(amount) AS cheap_ticket,
    MAX(amount) AS expensive_ticket
FROM ticket_flights
GROUP BY flight_id;
```

