**Промежуточная аттестация**

1.

select \* from bookings.flights fl

join bookings.airports ap on ap.airport\_code = fl.departure\_airport;

select \* from bookings.flights fl

left join bookings.airports ap on ap.airport\_code = fl.departure\_airportж

select \* from bookings.flights fl

right join bookings.airports ap on ap.airport\_code = fl.departure\_airport;

select \* from bookings.flights fl

cross join bookings.airports;

select flight\_id, flight\_no, departure\_airport, status, aircraft\_code, null as "airport name", null as "city" from bookings.flights

UNION

select null, null, null,null,null, airport\_name, city from bookings.airports

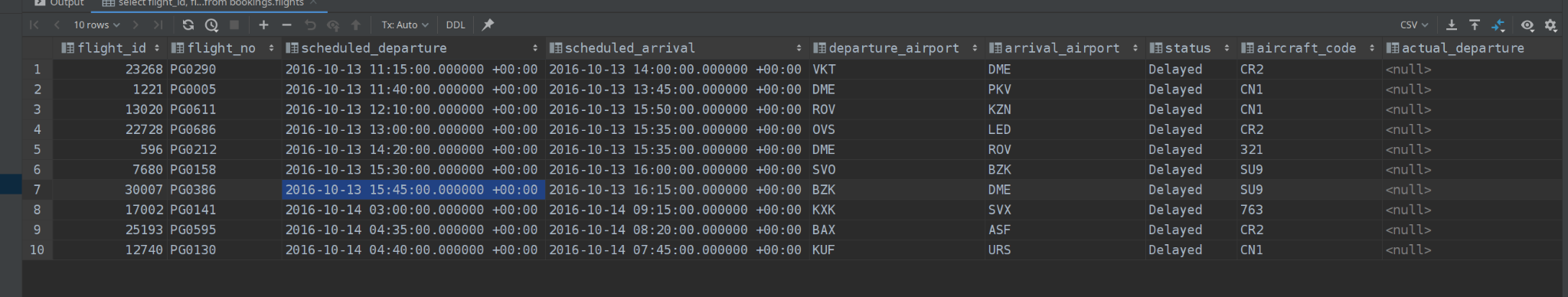
2.

select \* from bookings.flights flight

where status in ('Arrival', 'Delayed')

order by flight.scheduled\_departure

limit 10;



3.

select ports.airport\_name, count(\*) as total\_arrival\_count from bookings.flights f

left join bookings.ticket\_flights tf on tf.flight\_id = f.flight\_id

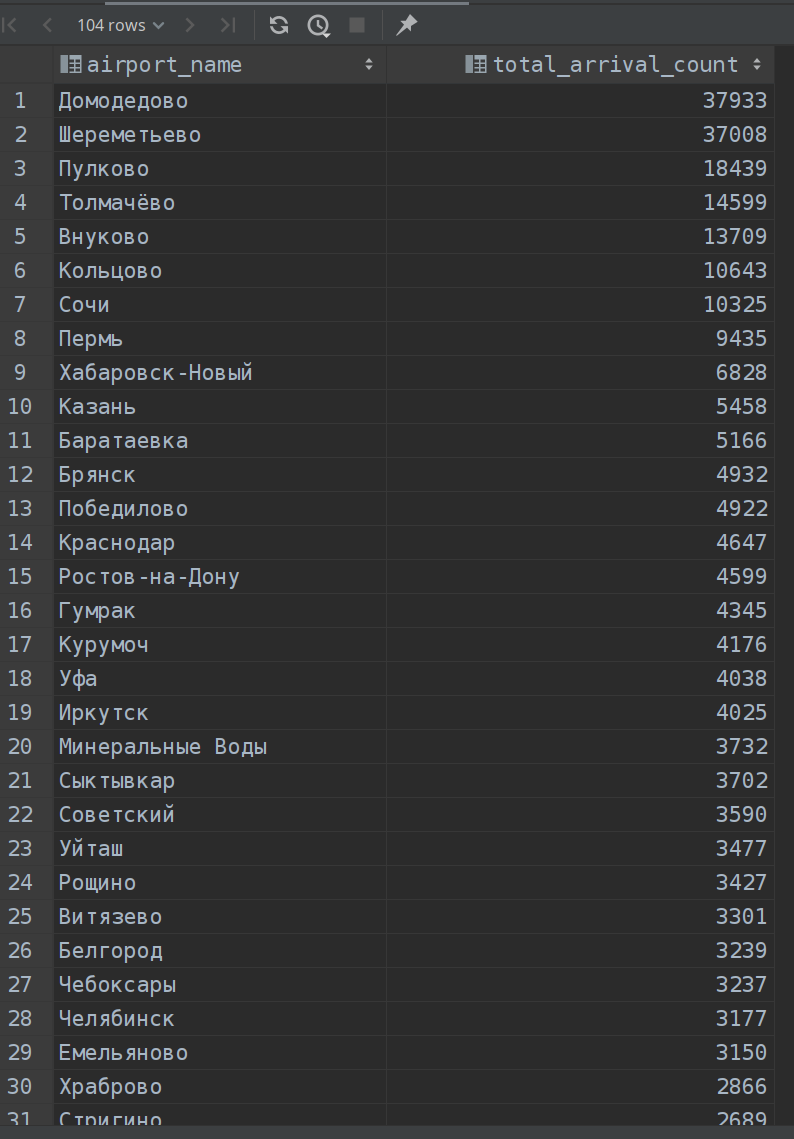
left join bookings.aircrafts air on air.aircraft\_code = f.aircraft\_code

left join bookings.airports ports on ports.airport\_code = f.arrival\_airport

WHERE f.actual\_arrival BETWEEN '2016-09-01 00:00:00' and '2016-09-30 23:59:59'

GROUP BY ports.airport\_name

ORDER BY total\_arrival\_count DESC;



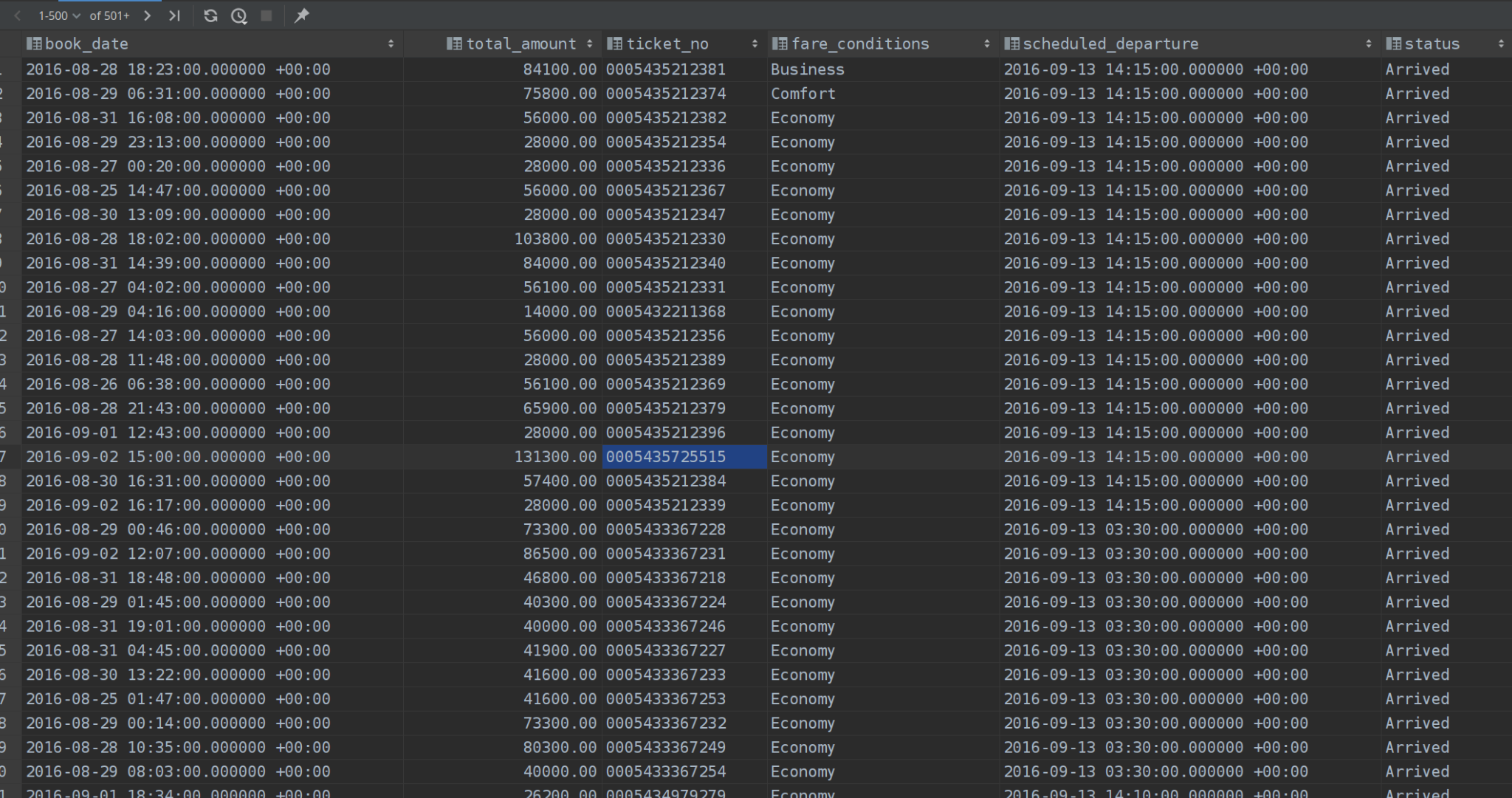
4.

select b.book\_date, b.total\_amount, t.ticket\_no, tf.fare\_conditions, f.scheduled\_departure, f.status from bookings.bookings b

inner join bookings.tickets t on b.book\_ref = t.book\_ref

left join bookings.ticket\_flights tf on tf.ticket\_no = t.ticket\_no

right join bookings.flights f on f.flight\_id = tf.flight\_id



5.

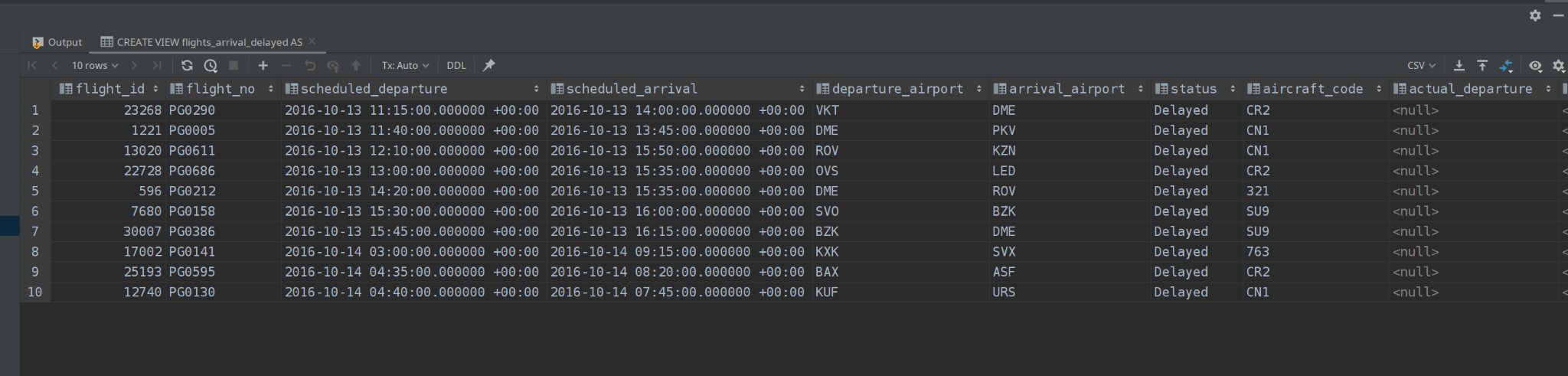
CREATE VIEW flights\_arrival\_delayed AS

select \* from bookings.flights flight

where status in ('Arrival', 'Delayed')

order by flight.scheduled\_departure

limit 10;



6.

import psycopg2

db\_host = 'localhost'

db\_port = '5440'

db\_name = 'demo'

db\_user = 'postgres'

db\_password = 'postgres'

if \_\_name\_\_ == '\_\_main\_\_':

try:

connection = psycopg2.connect(

host=db\_host,

port=db\_port,

database=db\_name,

user=db\_user,

password=db\_password

)

cursor = connection.cursor()

cursor.execute("SELECT \* FROM bookings.flights\_arrival\_delayed")

result = cursor.fetchall()

for row in result:

print(row)

print("\n")

cursor.close()

connection.close()

except psycopg2.Error as e:

print("Error connecting to PostgreSQL:", e)

