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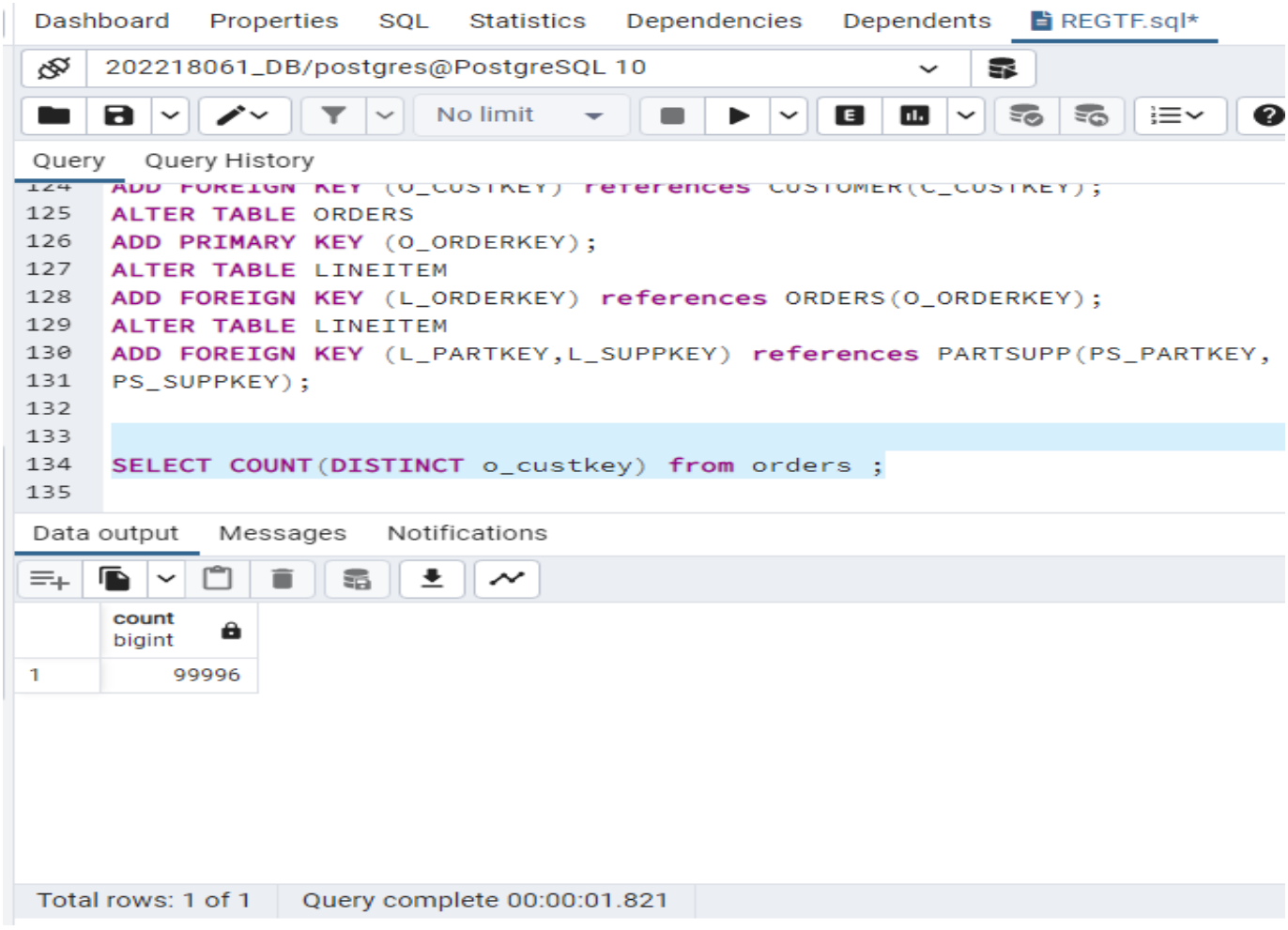
IT667 - Database Management Systems
Lab Assignment 4 - Setting up PostgreSQL and trying basic queries

a. Count the number of customers who have placed at least one order.
QUERY :

SELECT count(DISTINCT o_custkey) from orders ;

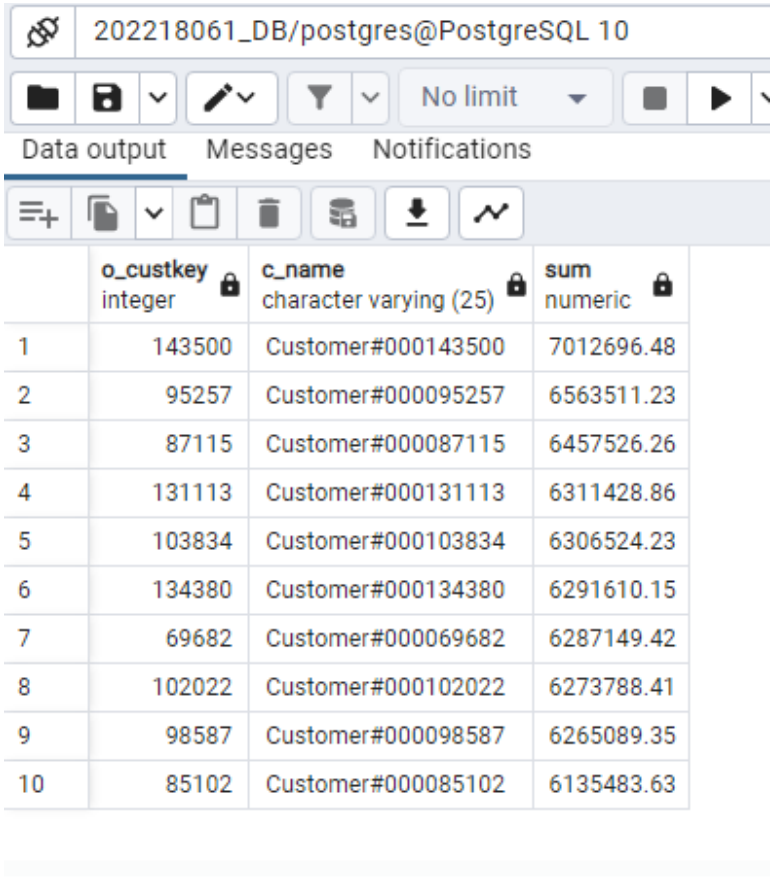
OUTPUT:



b. Find the top 10 highest spending customers based on the total of all orders.
QUERY:

```
SELECT orders.o_custkey,customer.c_name,SUM(orders.o_totalprice)
FROM orders
JOIN customer
ON orders.o_custkey = customer.c_custkey
GROUP BY o_custkey,c_name
ORDER BY SUM(orders.o_totalprice) DESC
LIMIT 10;
```

OUTPUT:



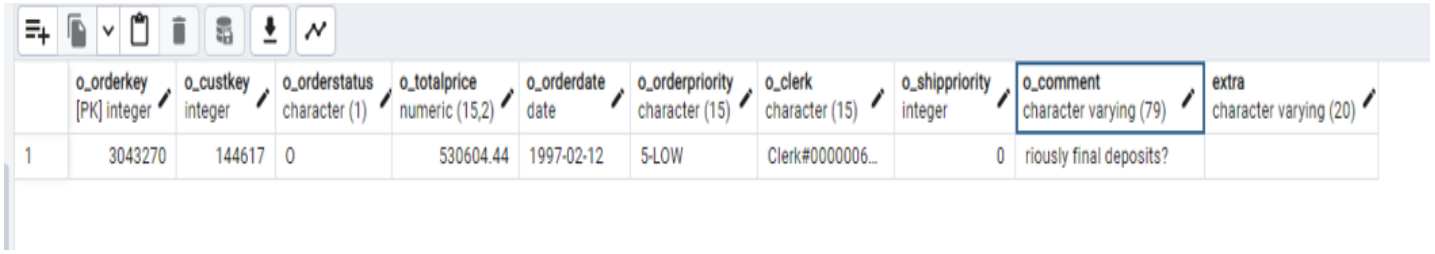
	o_custkey integer	c_name character varying (25)	sum numeric
1	143500	Customer#000143500	7012696.48
2	95257	Customer#000095257	6563511.23
3	87115	Customer#000087115	6457526.26
4	131113	Customer#000131113	6311428.86
5	103834	Customer#000103834	6306524.23
6	134380	Customer#000134380	6291610.15
7	69682	Customer#000069682	6287149.42
8	102022	Customer#000102022	6273788.41
9	98587	Customer#000098587	6265089.35
10	85102	Customer#000085102	6135483.63

c. Find the 3rd highest order in terms of order total.

QUERY:

```
SELECT  *
FROM orders
WHERE o_totalprice DESC
LIMIT 1 OFFSET 2 ;
```

OUTPUT:



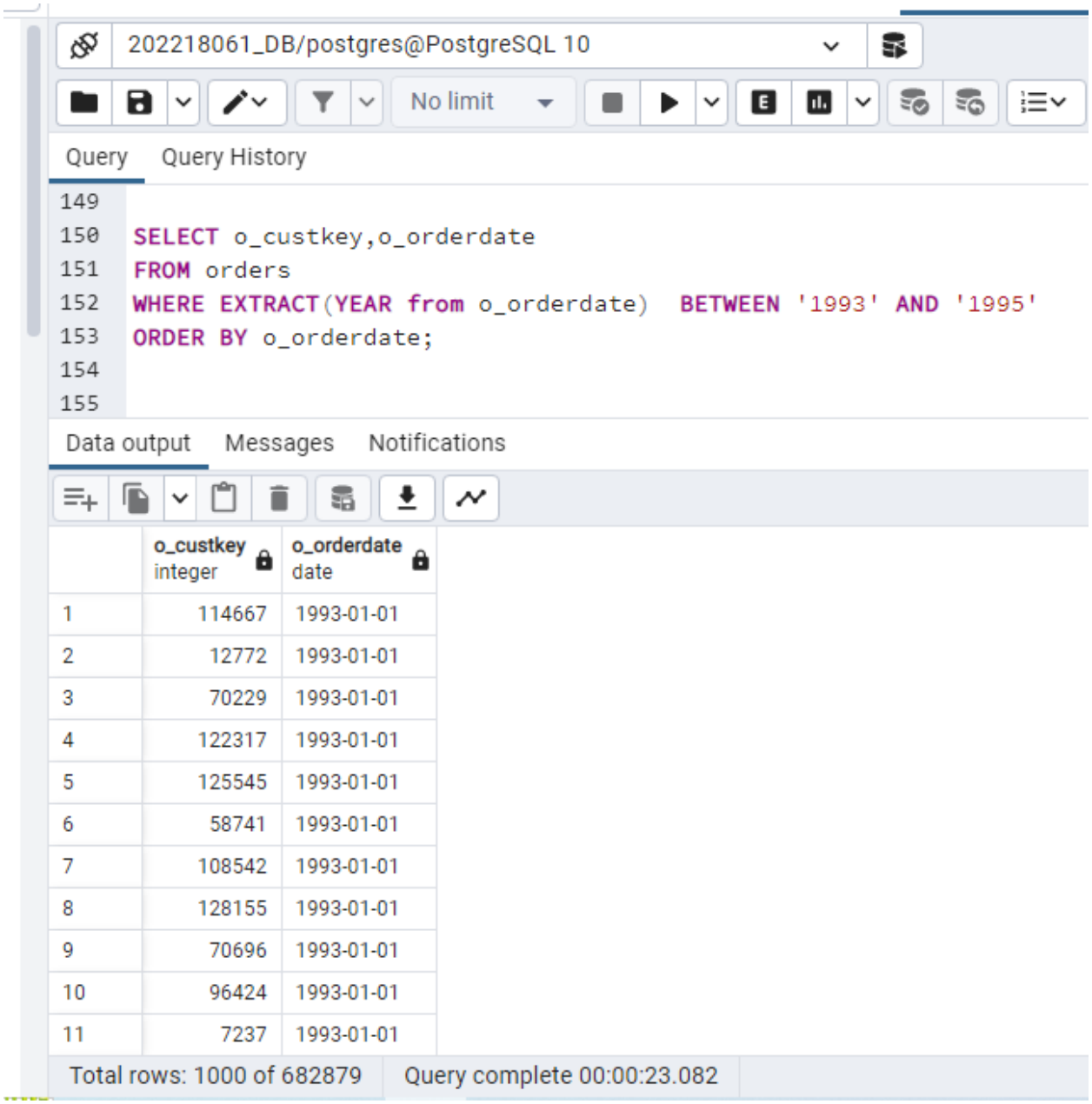
	o_orderkey [PK] integer	o_custkey integer	o_orderstatus character (1)	o_totalprice numeric (15,2)	o_orderdate date	o_orderpriority character (15)	o_clerk character (15)	o_shippriority integer	o_comment character varying (79)	extra character varying (20)
1	3043270	144617	O	530604.44	1997-02-12	5-LOW	Clerk#0000006...	0	riously final deposits?	

d. Find the customers who have placed orders between 1993 and 1995.
I.e.
fetch the Customer Key of the customers. Sort the result by order date.

QUERY:

```
SELECT o_custkey
FROM orders
WHERE EXTRACT( YEAR FROM o_orderdate )
BETWEEN ‘1993’ AND  ‘1995’
ORDER BY  o_orderdate:
```

OUTPUT:


202218061_DB/postgres@PostgreSQL 10
No limit
Query
Query History
149
150 SELECT o_custkey,o_orderdate
151 FROM orders
152 WHERE EXTRACT(YEAR from o_orderdate) BETWEEN '1993' AND '1995'
153 ORDER BY o_orderdate;
154
155
Data output
Messages
Notifications
o_custkey integer
o_orderdate date
1 114667 1993-01-01
2 12772 1993-01-01
3 70229 1993-01-01
4 122317 1993-01-01
5 125545 1993-01-01
6 58741 1993-01-01
7 108542 1993-01-01
8 128155 1993-01-01
9 70696 1993-01-01
10 96424 1993-01-01
11 7237 1993-01-01
Total rows: 1000 of 682879
Query complete 00:00:23.082