**DAY 4**

1.     List all customers and the products they ordered with the order date. (Inner join)

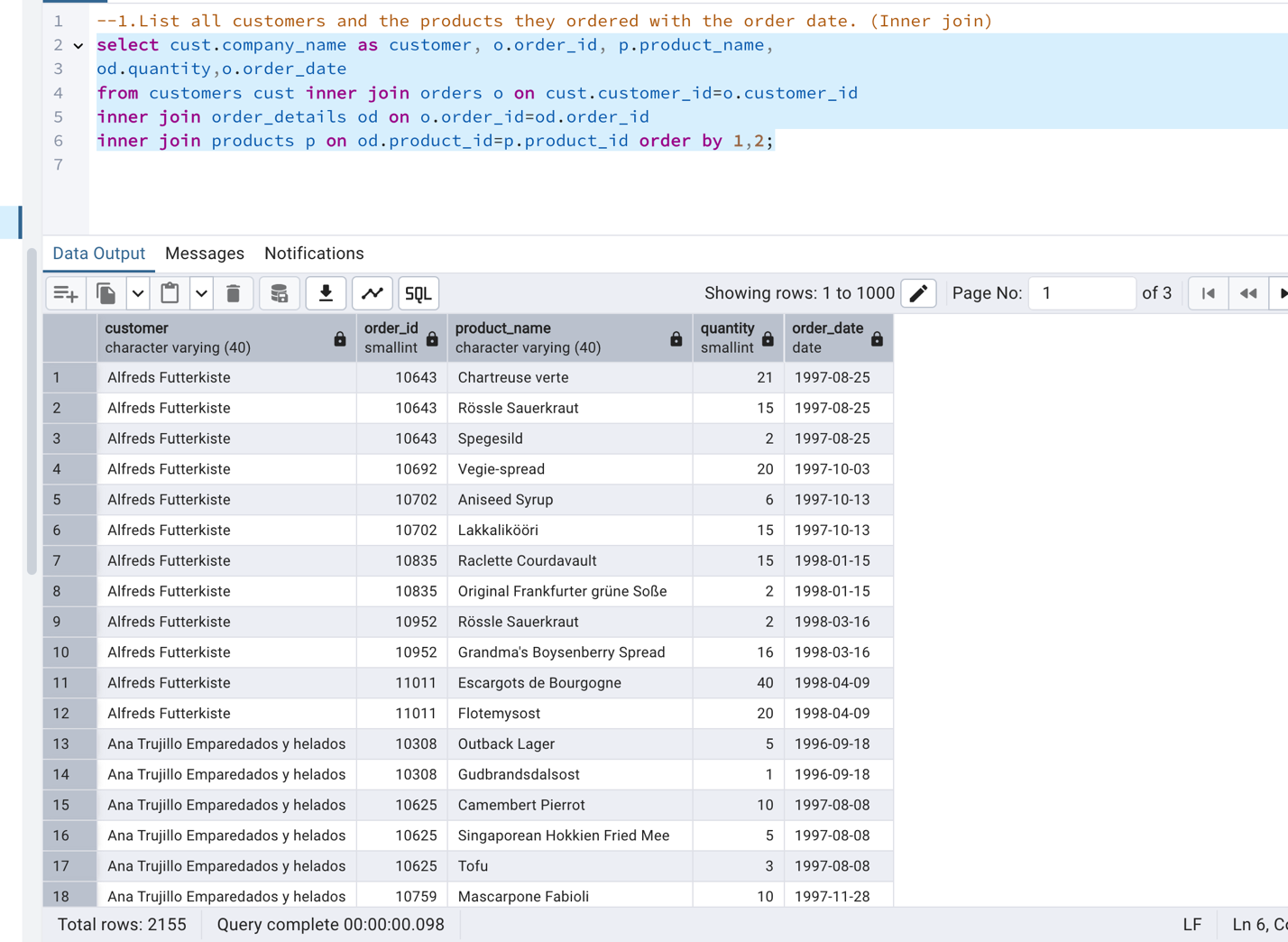
select cust.company\_name as customer, o.order\_id, p.product\_name,

od.quantity,o.order\_date

from customers cust inner join orders o on cust.customer\_id=o.customer\_id

inner join order\_details od on o.order\_id=od.order\_id

inner join products p on od.product\_id=p.product\_id order by 1,2;



2.     Show each order with customer, employee, shipper, and product info — even if some parts are missing. (Left Join)

select o.order\_id,o.customer\_id,o.employee\_id,o.order\_date,o.shipped\_date,

p.product\_id,p.product\_name from orders o

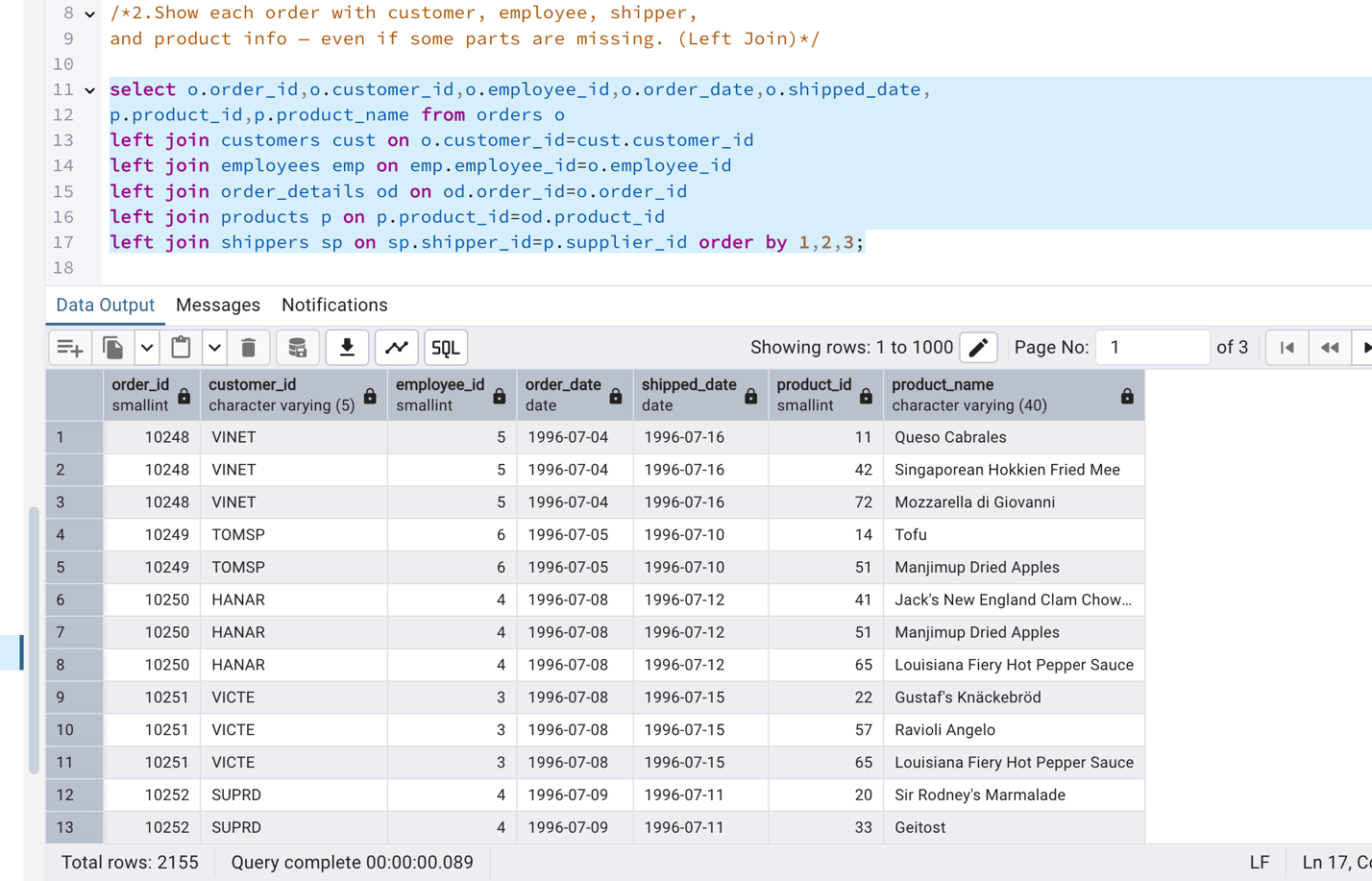
left join customers cust on o.customer\_id=cust.customer\_id

left join employees emp on emp.employee\_id=o.employee\_id

left join order\_details od on od.order\_id=o.order\_id

left join products p on p.product\_id=od.product\_id

left join shippers sp on sp.shipper\_id=p.supplier\_id order by 1,2,3;

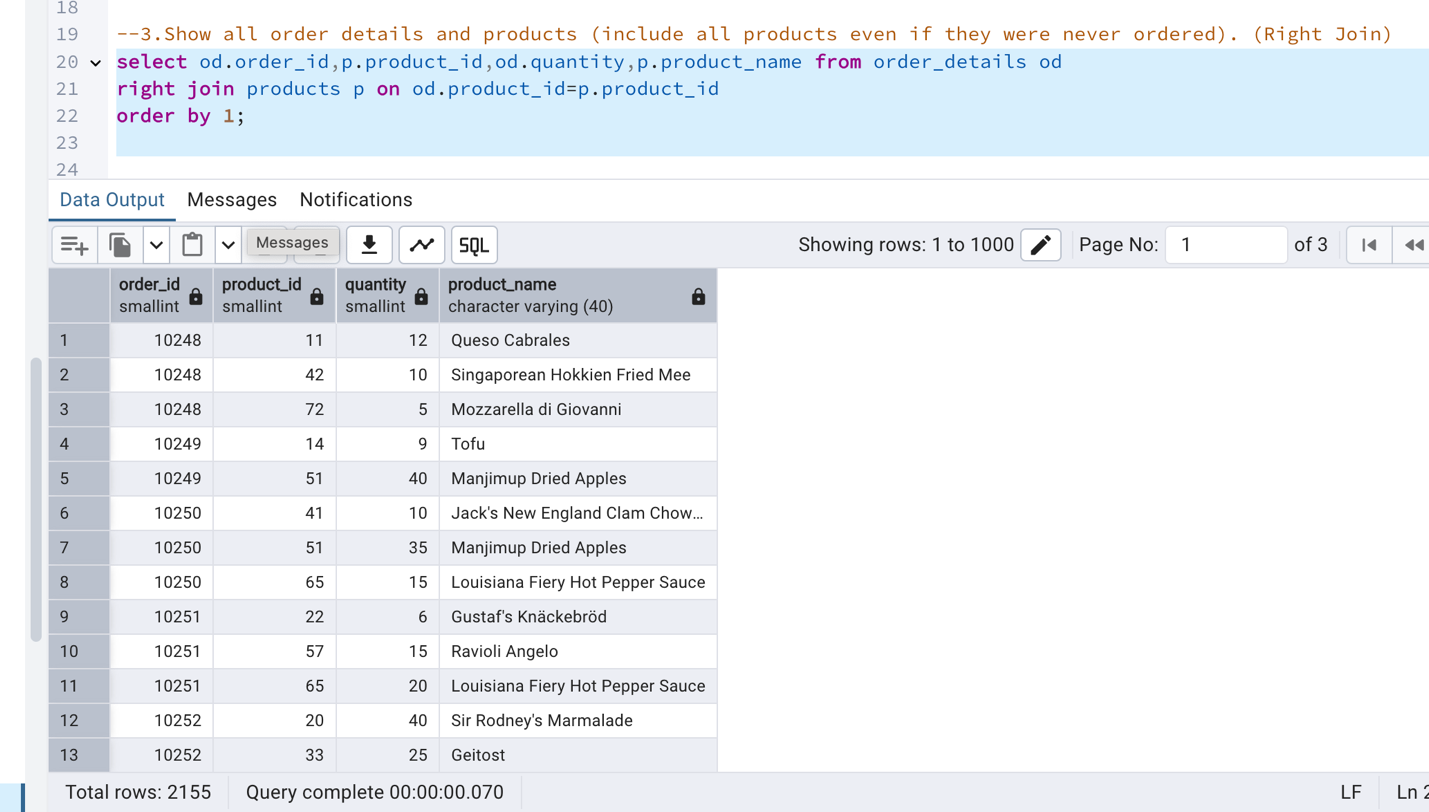


3.     Show all order details and products (include all products even if they were never ordered). (Right Join)

select od.order\_id,p.product\_id,od.quantity,p.product\_name from order\_details od

right join products p on od.product\_id=p.product\_id

order by 1;

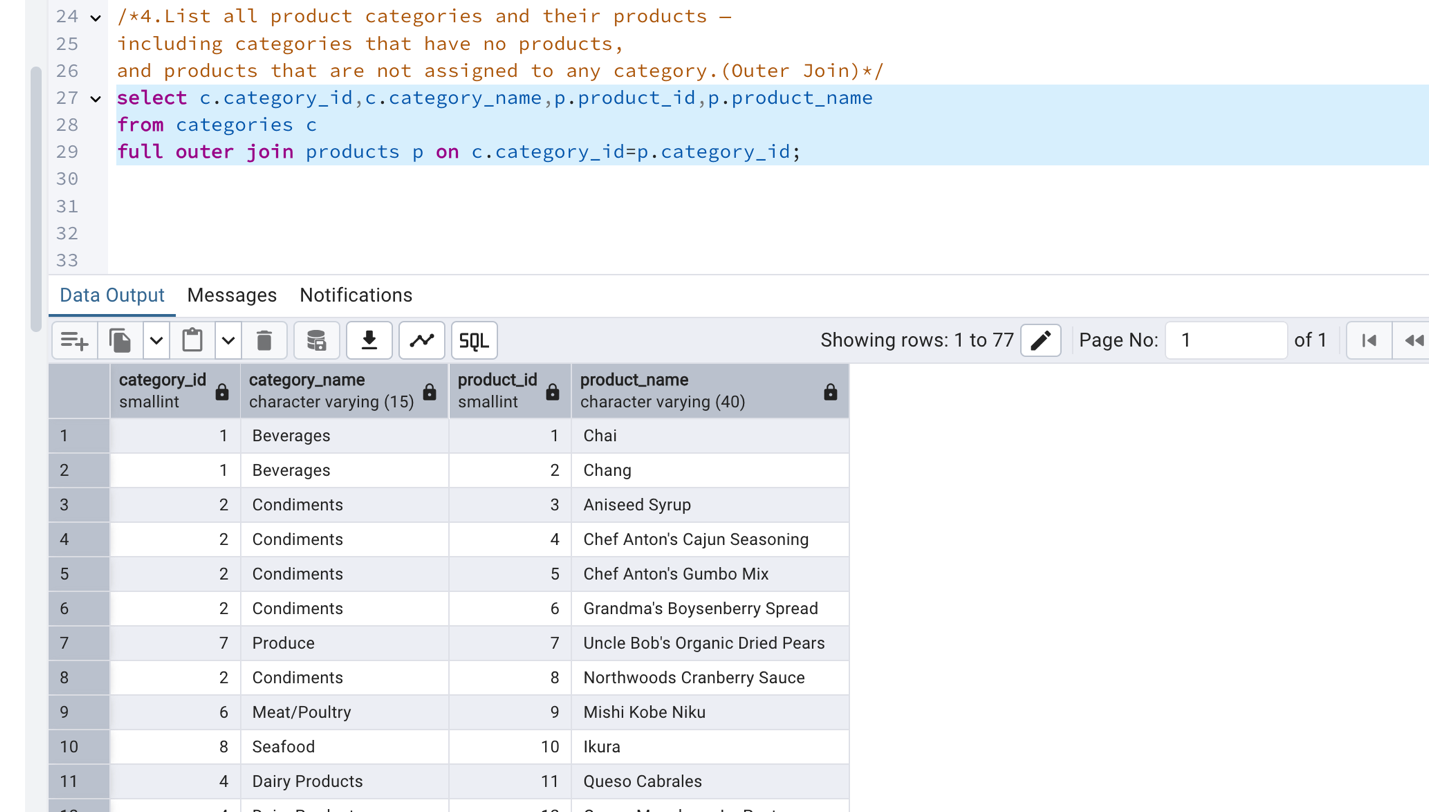


4. List all product categories and their products — including categories that have no products, and products that are not assigned to any category.(Outer Join)

select c.category\_id,c.category\_name,p.product\_id,p.product\_name

from categories c

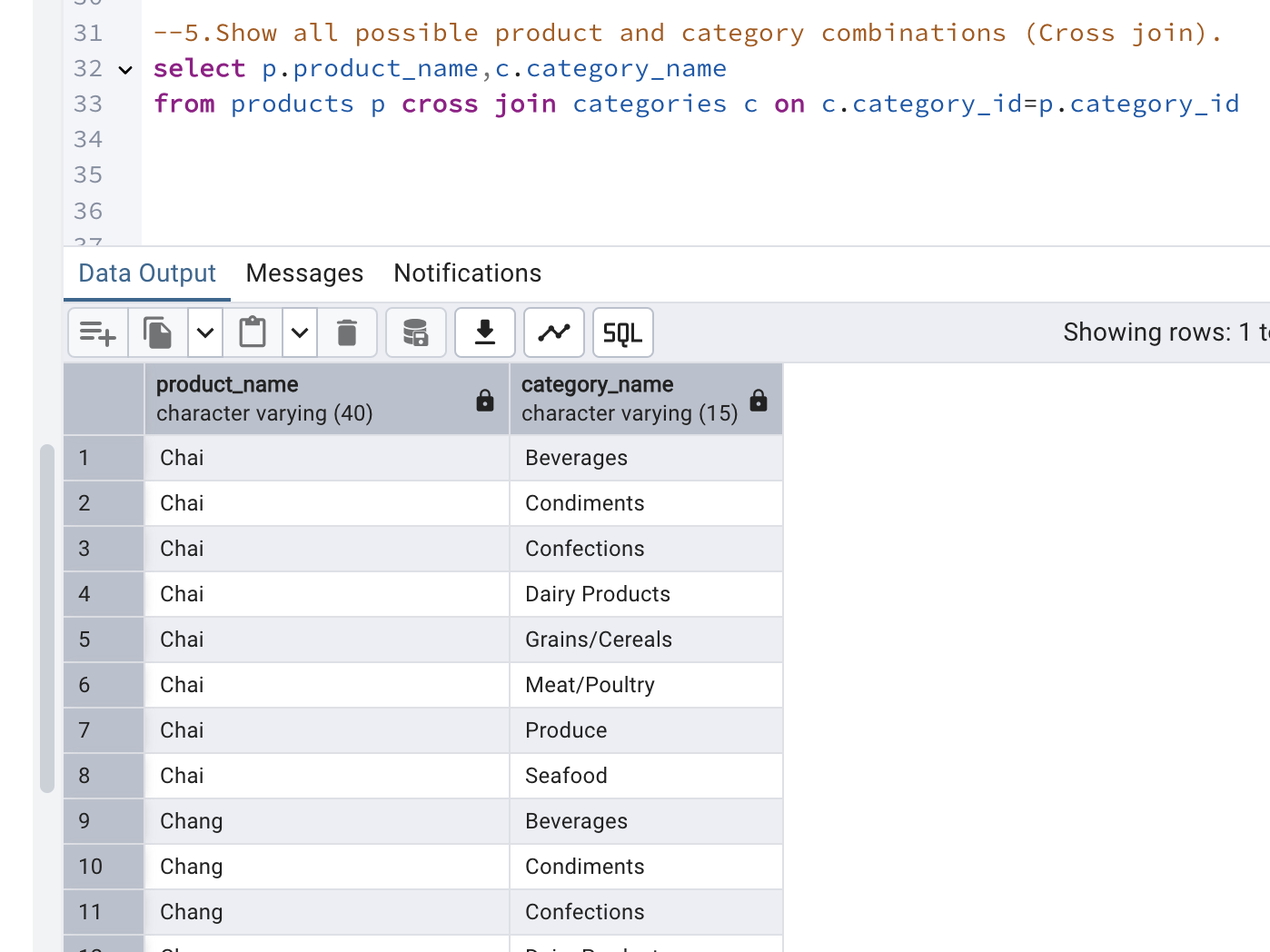
full outer join products p on c.category\_id=p.category\_id;



5. Show all possible product and category combinations (Cross join).

select p.product\_name,c.category\_name

from products p cross join categories c ;



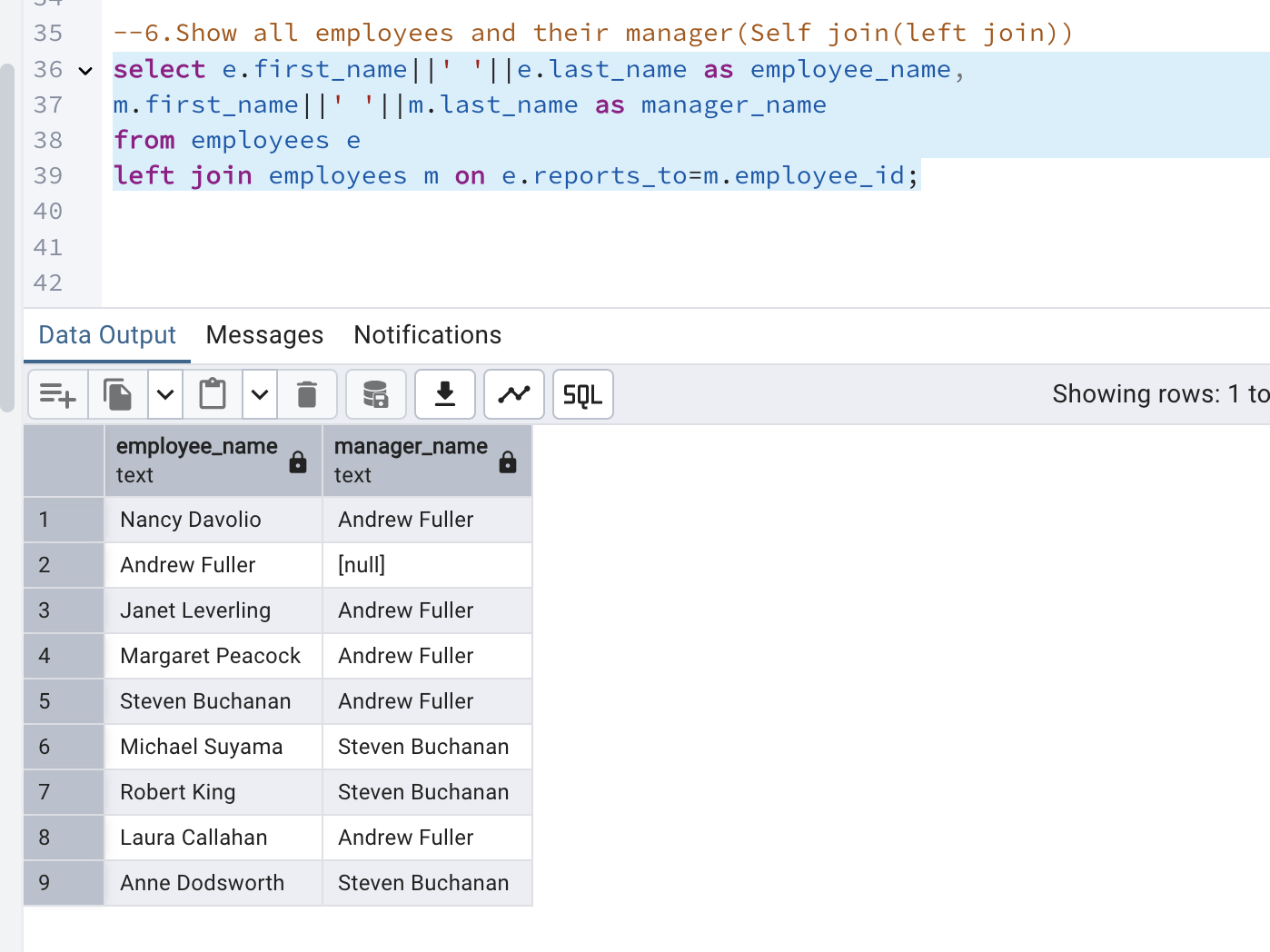
6. Show all employees and their manager(Self join(left join))

select e.first\_name||' '||e.last\_name as employee\_name,

m.first\_name||' '||m.last\_name as manager\_name

from employees e

left join employees m on e.reports\_to=m.employee\_id;



7. List all customers who have not selected a shipping method.

select c.customer\_id,c.company\_name,o.order\_id

from customers c left join orders o

on c.customer\_id=o.customer\_id

where o.ship\_via is null;

