/\*Q1. List all customers and the products they ordered with the order date. (Inner join)

Tables used: customers, orders, order\_details, products

Output should have below columns:

companyname AS customer,

orderid,

productname,

quantity,

orderdate \*/

select c.company\_name as customer, od.order\_id, p.product\_name, o.order\_date

from customers c

join orders o

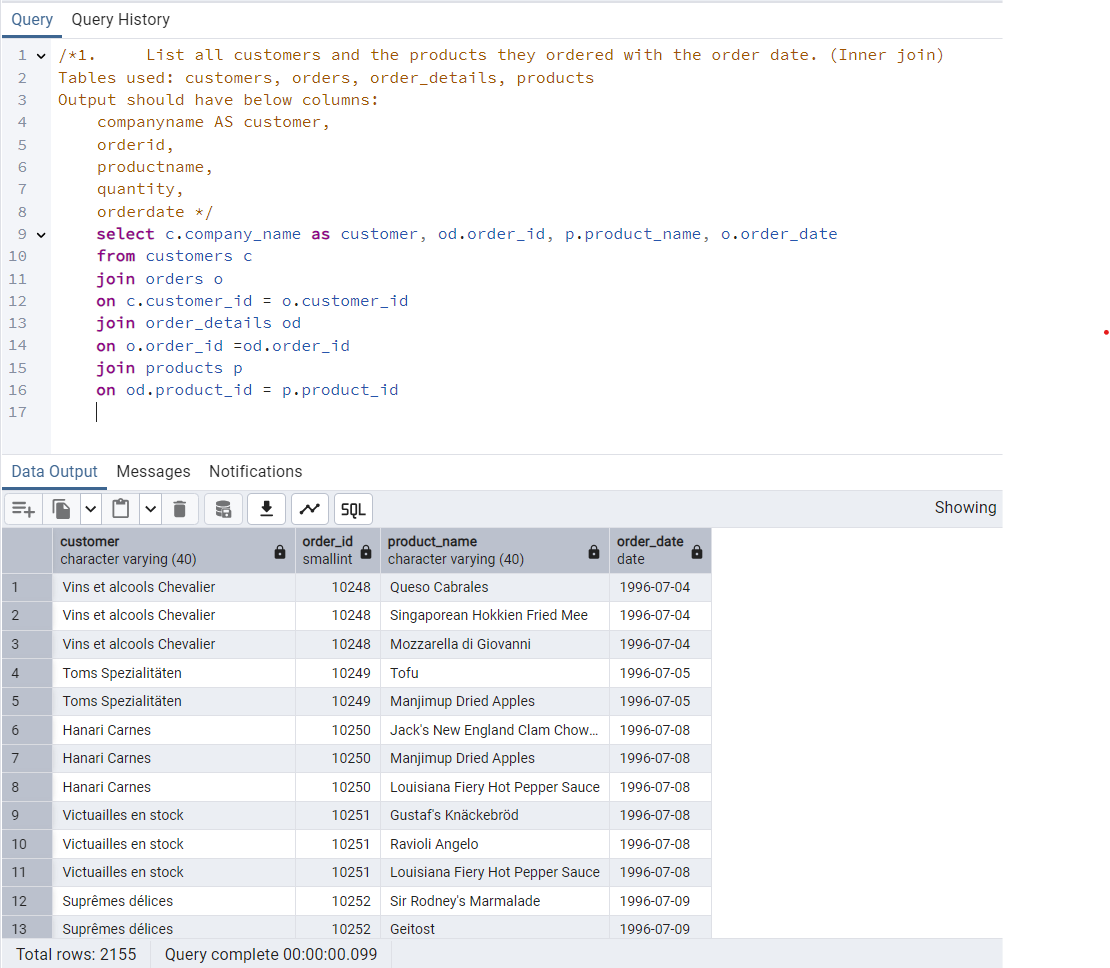
on c.customer\_id = o.customer\_id

join order\_details od

on o.order\_id =od.order\_id

join products p

on od.product\_id = p.product\_id



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

Tables used: orders, customers, employees, shippers, order\_details, products \*/

select c.company\_name as customer, o.order\_id,e.first\_name||' '||e.last\_name as employee,s.company\_name as shipper, p.product\_name

from orders o

join customers c

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

join employees e

on o.employee\_id = e.employee\_id

join order\_details od

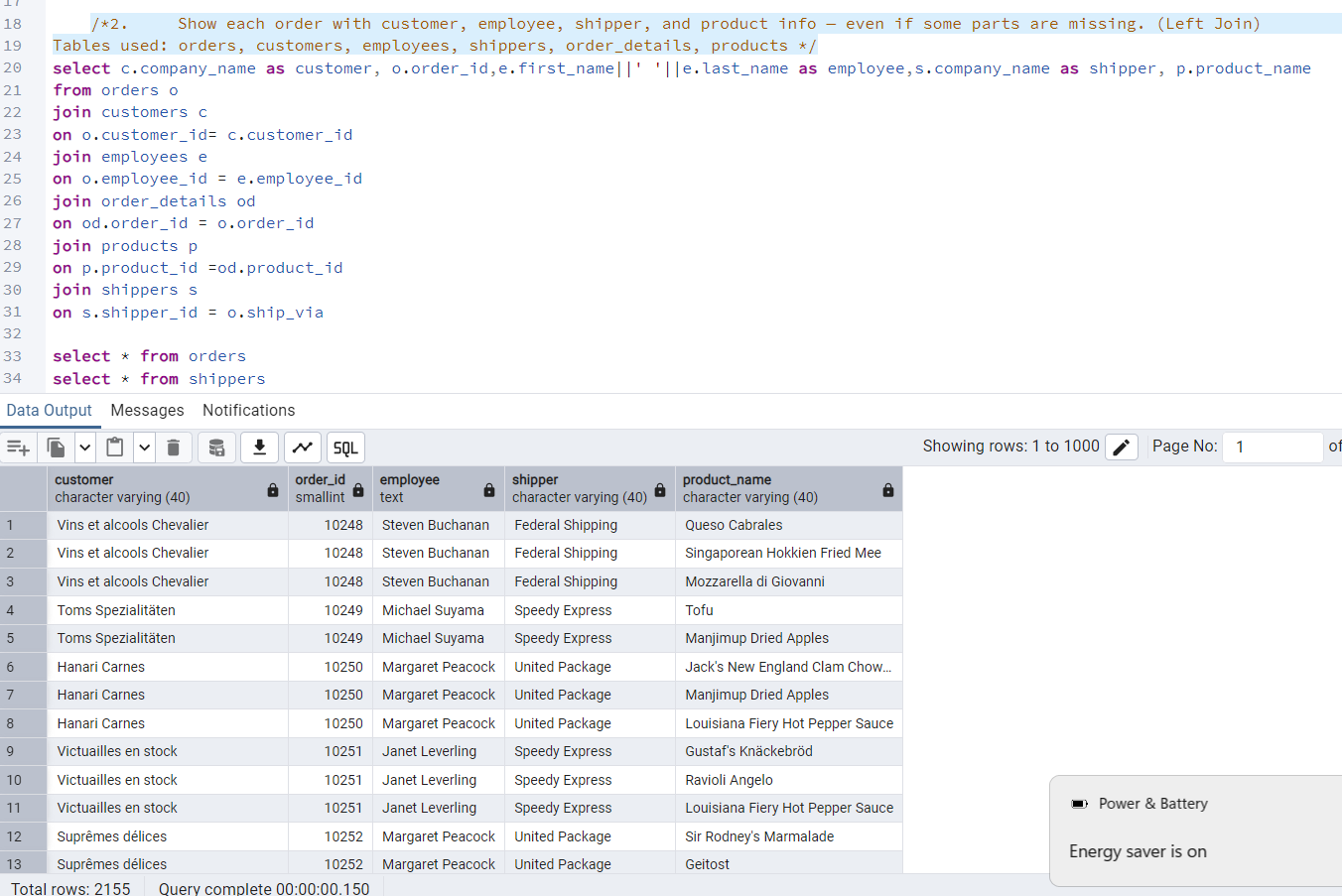
on od.order\_id = o.order\_id

join products p

on p.product\_id =od.product\_id

join shippers s

on s.shipper\_id = o.ship\_via



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

Tables used: order\_details, products

Output should have below columns:

orderid,

productid,

quantity,

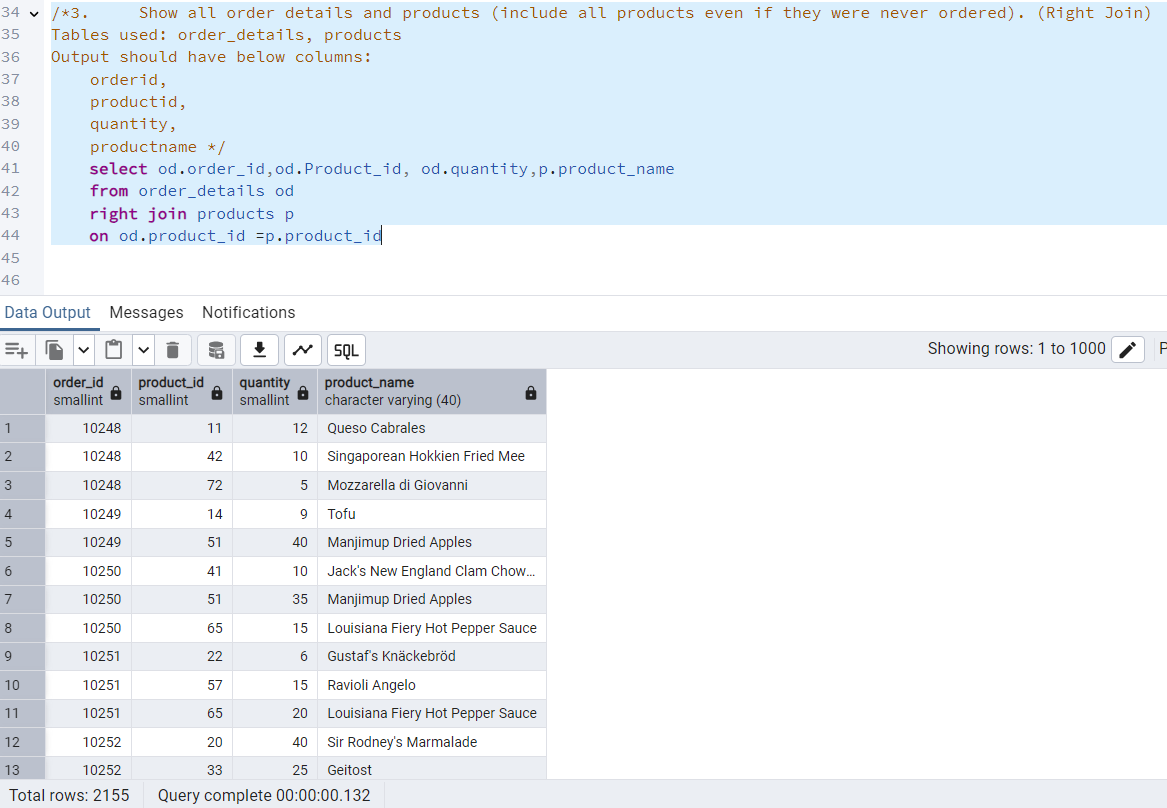
productname \*/

select od.order\_id,od.Product\_id, od.quantity,p.product\_name

from order\_details od

right join products p

on od.product\_id =p.product\_id



/\*4. List all product categories and their products — including categories that have no products,

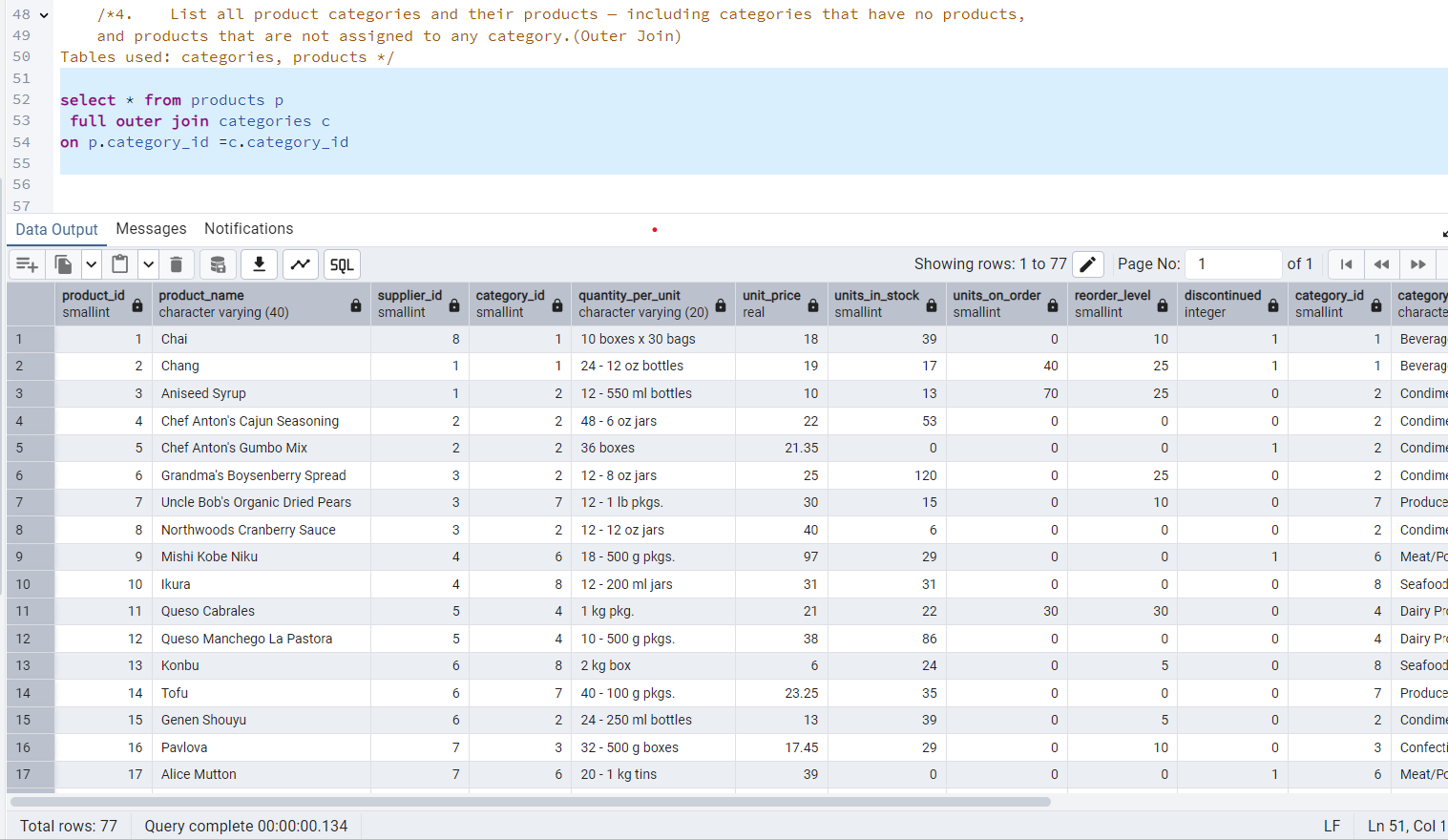
and products that are not assigned to any category.(Outer Join)

Tables used: categories, products \*/

select \* from products p

full outer join categories c

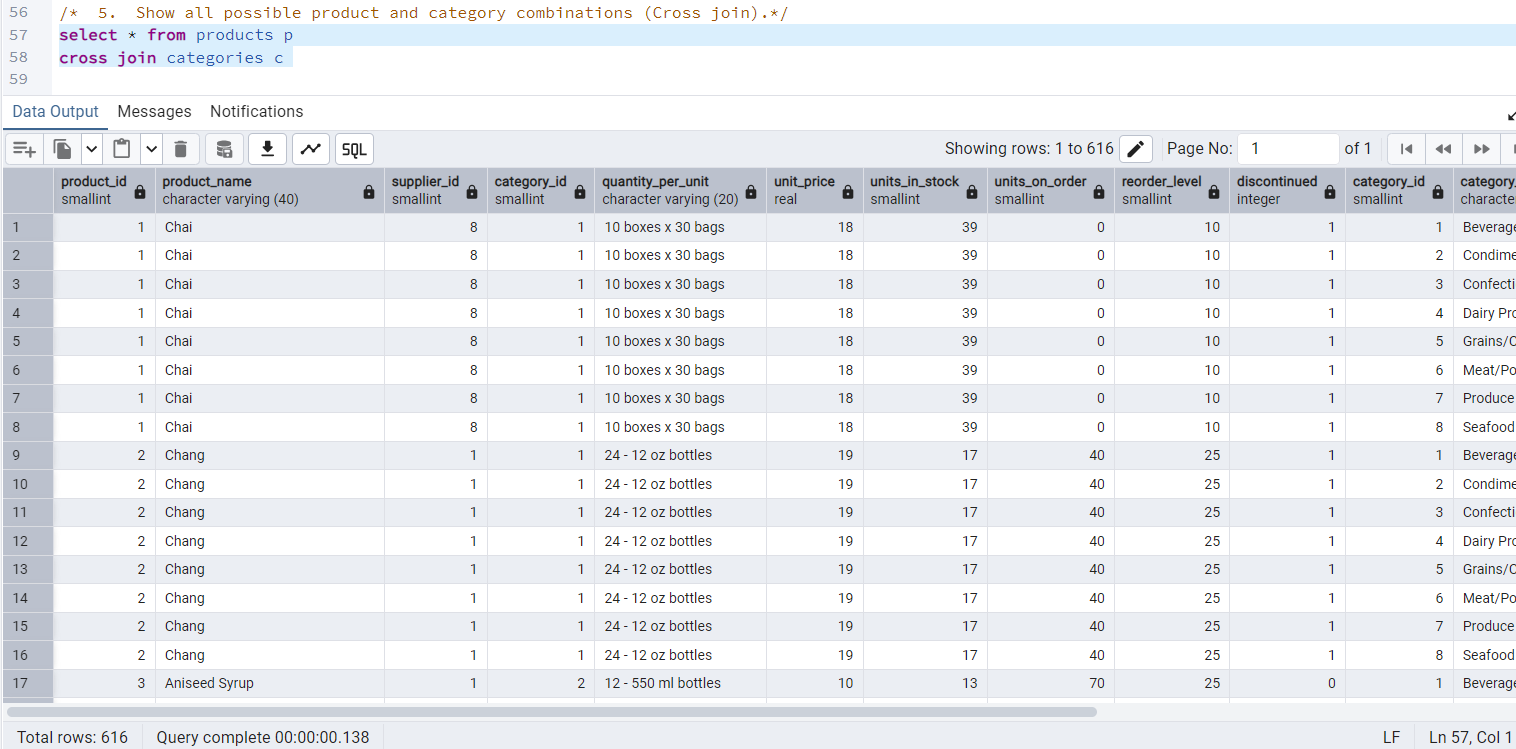
on p.category\_id =c.category\_id



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

select \* from products p

cross join categories c

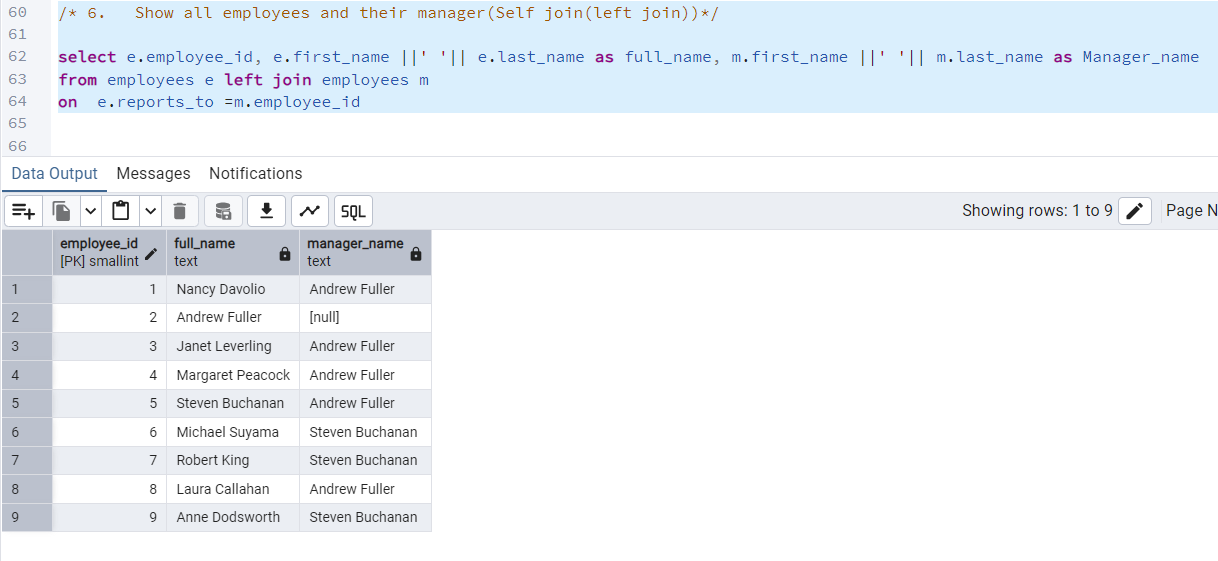


/\* 6. Show all employees and their manager(Self join(left join))\*/

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

Tables used: customers, orders

(Left Join, WHERE o.shipvia IS NULL)\*/

select c.company\_name as customers, o.ship\_via

from customers c

left join orders o on c.customer\_id = o.customer\_id

where ship\_via is null

