DAY 4 Assignments

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

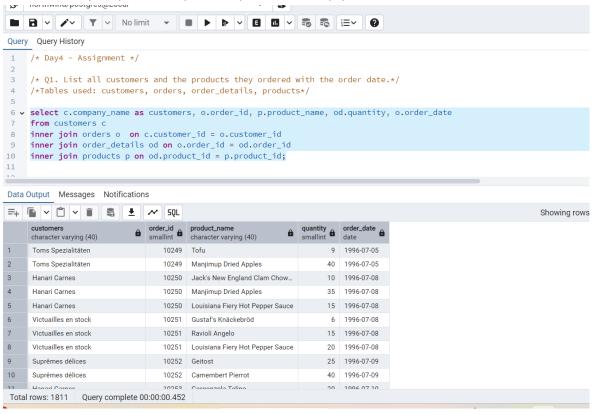
select c.company_name as customers, o.order_id, p.product_name, od.quantity, o.order_date

from customers c

inner join orders o on c.customer_id = o.customer_id

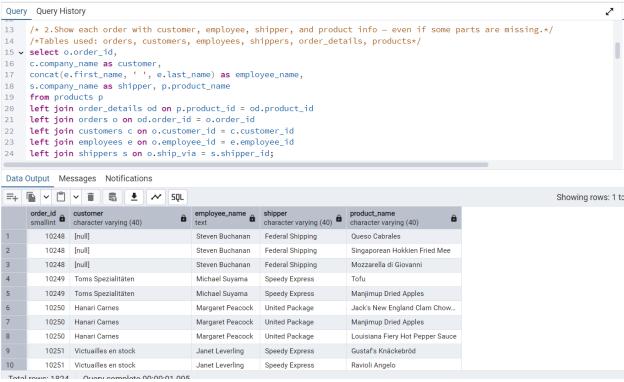
inner join order details od on o.order id = od.order id

inner join products p on od.product_id = p.product_id;



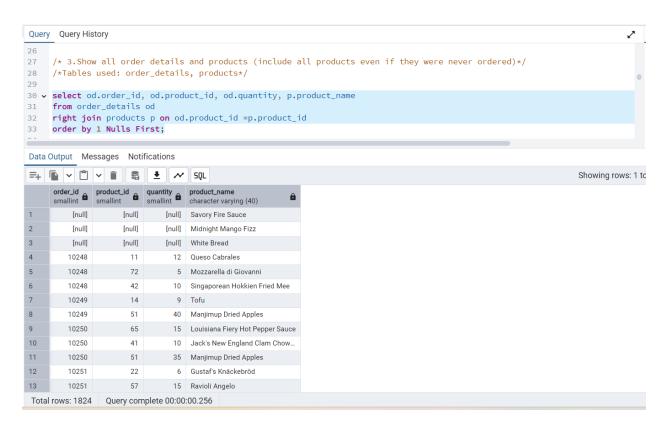
2. Show each order with customer, employee, shipper, and product info — even if some parts are missing. (Left Join)

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select o.order_id,
c.company_name as customer,
concat(e.first_name, '', e.last_name) as employee_name,
s.company_name as shipper, p.product_name
from products p
left join order_details od on p.product_id = od.product_id
left join orders o on od.order_id = o.order_id
left join customers c on o.customer_id = c.customer_id
left join employees e on o.employee_id = e.employee_id
left join shippers s on o.ship_via = s.shipper_id;
```



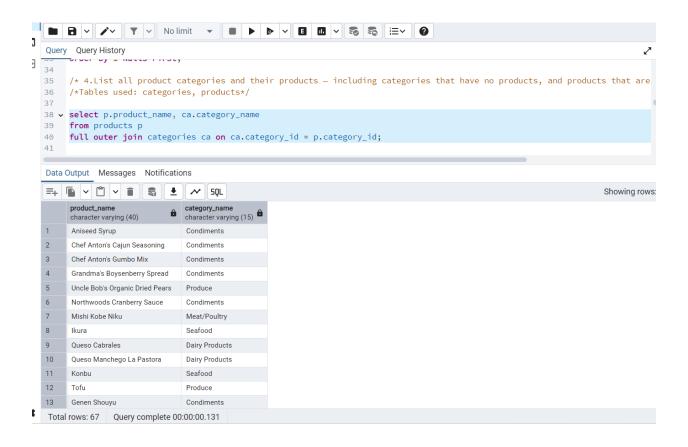
3. Show all order details and products (including all products even if they were never ordered). (Right Join)

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 order by 1 Nulls First;



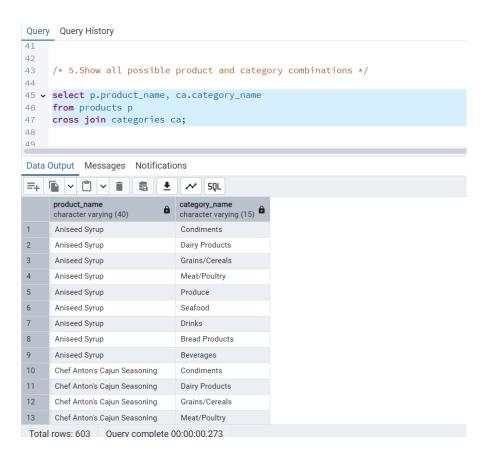
4. List all product categories and their products — including categories that have no products, and products that are not assigned to any category. (Outer Join)

select p.product_name, ca.category_name
from products p
full outer join categories ca on ca.category_id = p.category_id;



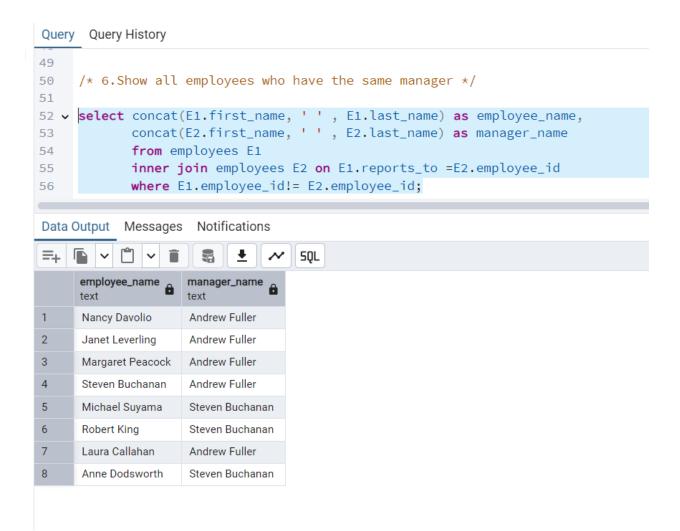
5. Show all possible products and category combinations (Cross join).

select p.product_name, ca.category_name from products p cross join categories ca;



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

select concat(E1.first_name, '', E1.last_name) as employee_name, concat(E2.first_name, '', E2.last_name) as manager_name from employees E1 inner join employees E2 on E1.reports_to =E2.employee_id where E1.employee_id!= E2.employee_id;



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

select cu.customer_id, cu.company_name as Customers, o.order_id, o.ship_via from customers cu left join orders o on cu.customer_id = o.customer_id where o.ship_via is Null;

