**Day 4 Assignment**

--1)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

SELECT

cp.company\_name AS customers,

oe.order\_id,

pr.product\_name,

od.quantity,

oe.order\_date

FROM

customers cp

INNER JOIN

orders oe ON cp.customer\_id = oe.customer\_id

INNER JOIN

order\_details od ON oe.order\_id = od.order\_id

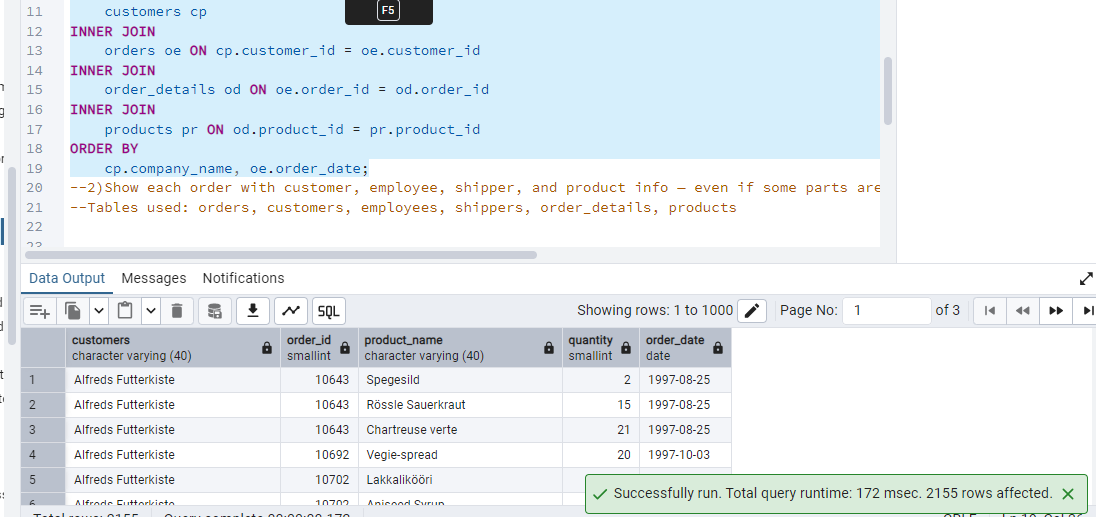
INNER JOIN

products pr ON od.product\_id = pr.product\_id

ORDER BY

cp.company\_name, oe.order\_date;

Output - This output is with ORDER BY details with alphabetically and date wise



SELECT

cp.company\_name AS customers,

oe.order\_id,

pr.product\_name,

od.quantity,

oe.order\_date

FROM

customers cp

INNER JOIN

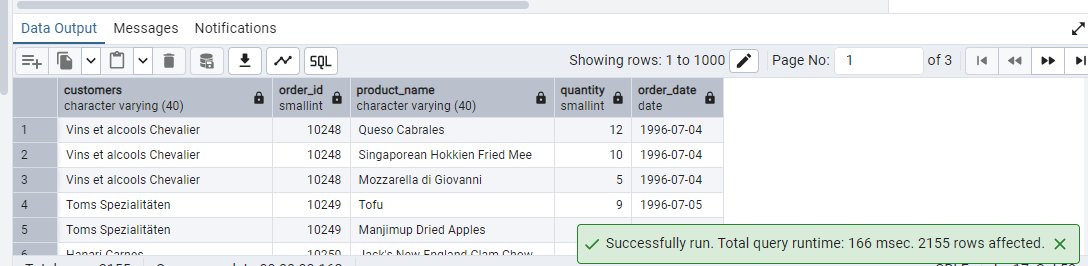
orders oe ON cp.customer\_id = oe.customer\_id

INNER JOIN

order\_details od ON oe.order\_id = od.order\_id

INNER JOIN

products pr ON od.product\_id = pr.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

oe.order\_id,

cp.company\_name AS customers,

(em.first\_name || ' ' || em.last\_name) AS employees,

sh.company\_name AS shippers,

pr.product\_name,

od.quantity,

oe.order\_date

FROM

orders oe

LEFT JOIN

customers cp ON oe.customer\_id = cp.customer\_id

LEFT JOIN

employees em ON oe.employee\_id = em.employee\_id

LEFT JOIN

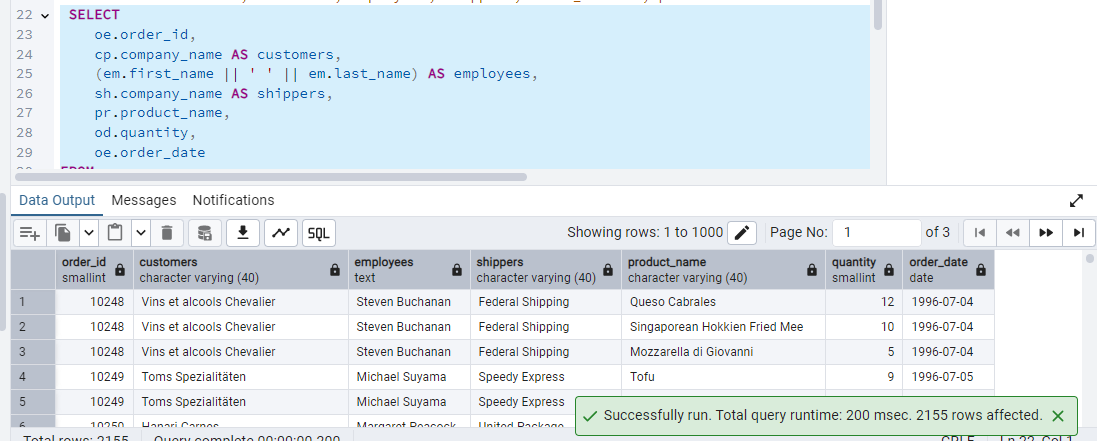
shippers sh ON oe.ship\_via = sh.shipper\_id

LEFT JOIN

order\_details od ON oe.order\_id = od.order\_id

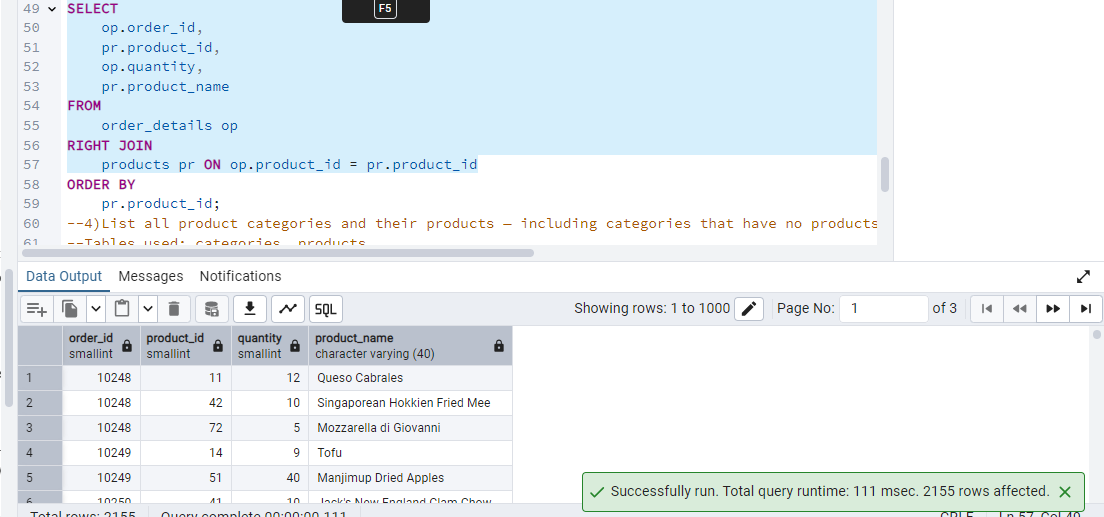
LEFT JOIN

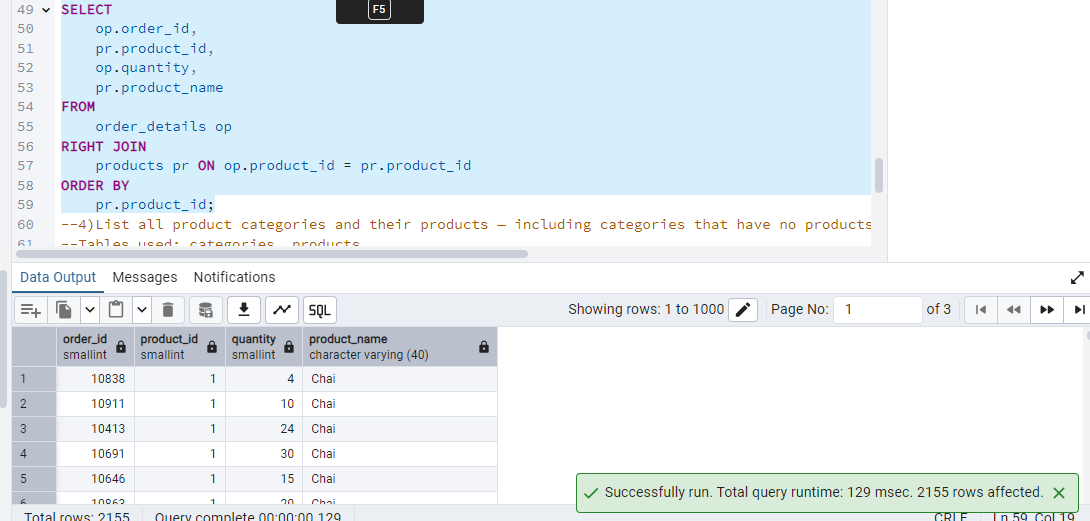
products pr ON od.product\_id = pr.product\_id;



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

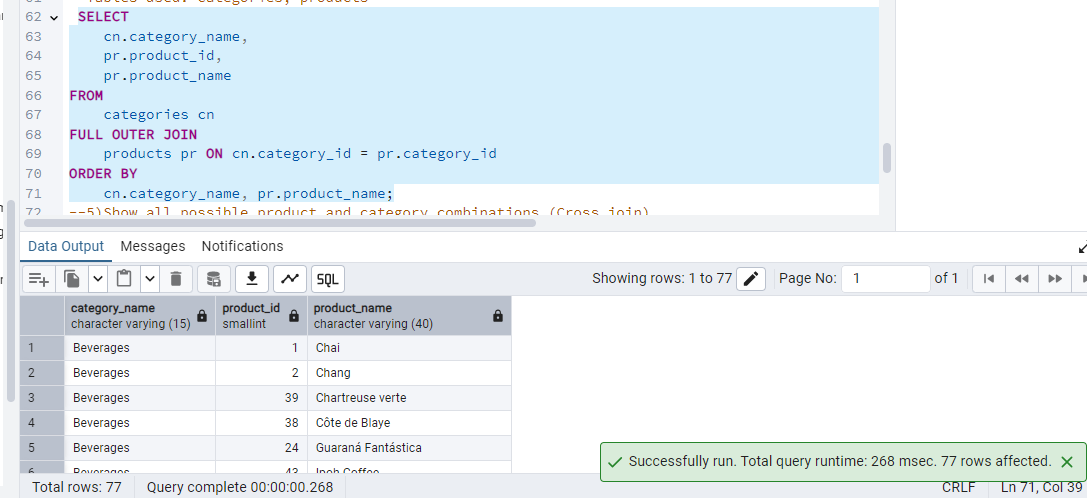
--Tables used: order\_details, products Output should have below columns:orderid,productid,quantity,productname



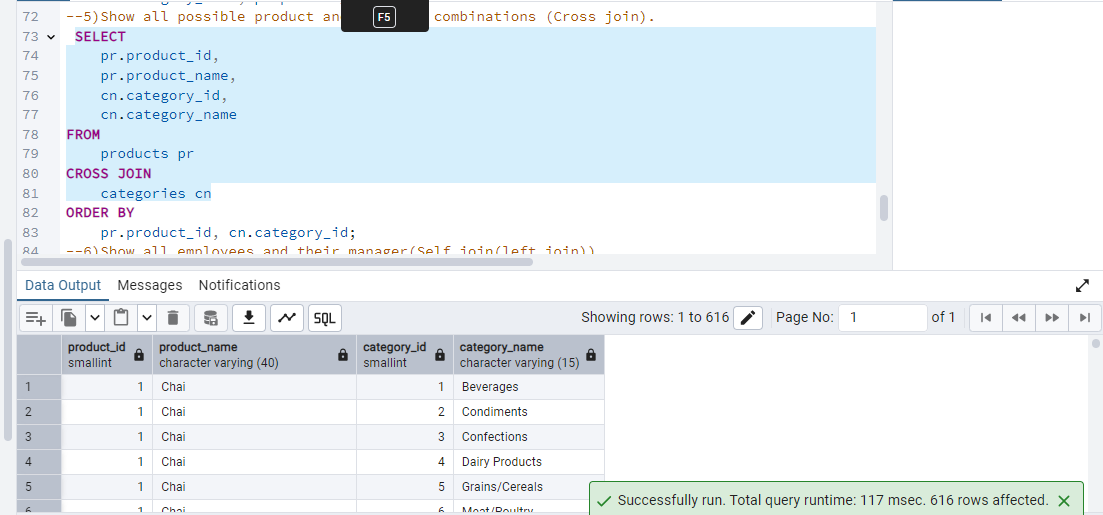


--4)List all product categories and their products — including categories that have no products, and products that are not assigned to any category.(Outer Join)

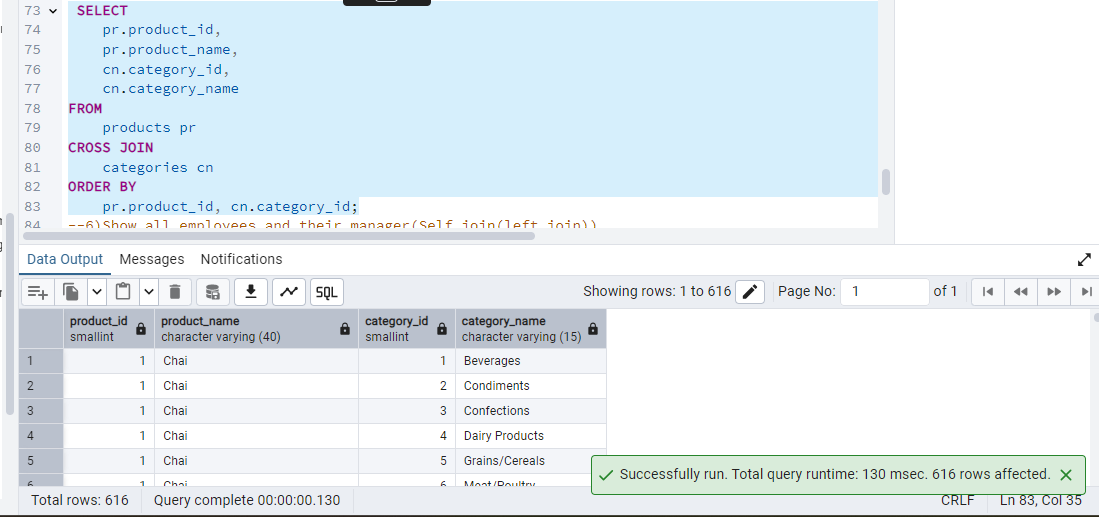
--Tables used: categories, products



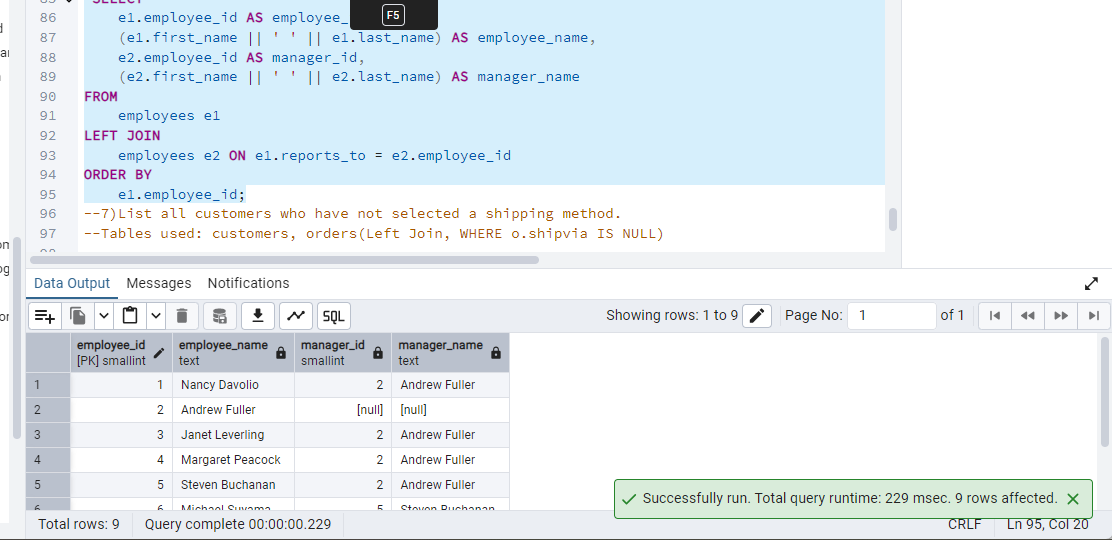
--5)Show all possible product and category combinations (Cross join).



OR



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



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

--Tables used: customers, orders(Left Join, WHERE o.shipvia IS NULL)

