---DAY 4---

/\*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

c.company\_name AS customer,

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

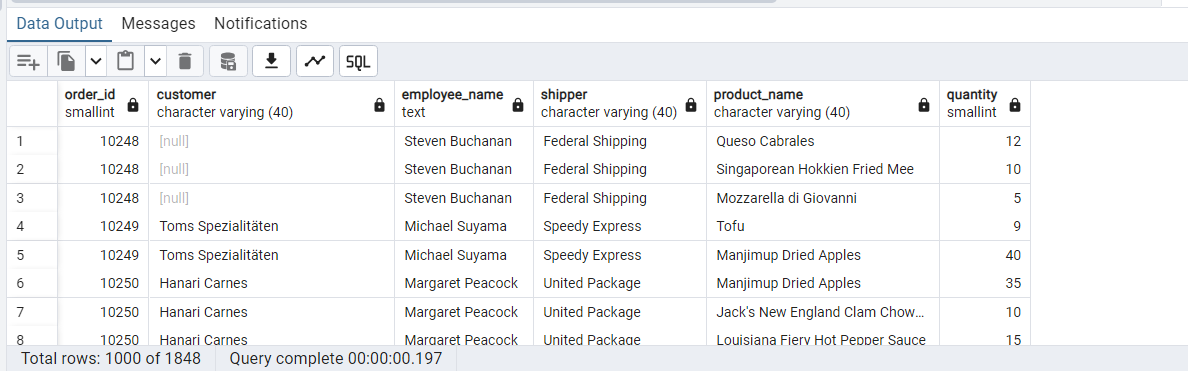
order\_details od ON o.order\_id = od.order\_id

INNER JOIN

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

ORDER BY

c.company\_name, o.order\_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

o.order\_id,

c.company\_name AS customer,

e.first\_name || ' ' || e.last\_name AS employee\_name,

s.company\_name AS shipper,

p.product\_name,

od.quantity

FROM

orders o

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

LEFT JOIN

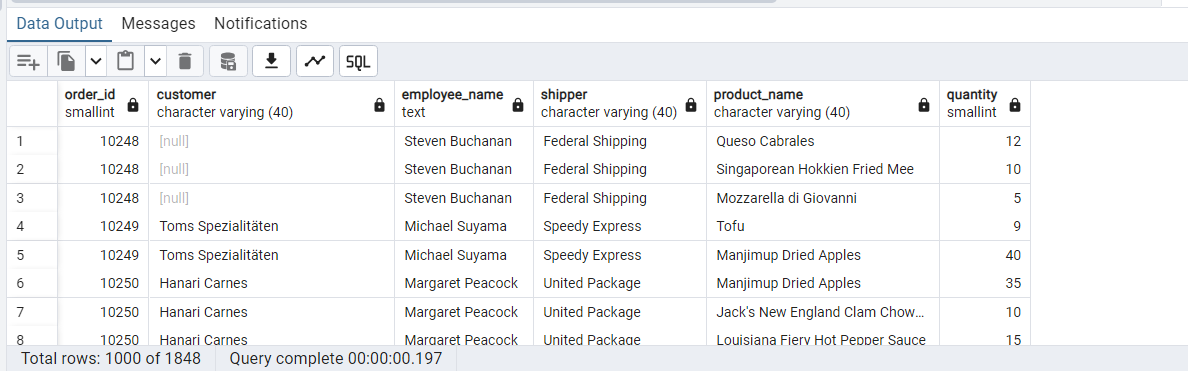
order\_details od ON o.order\_id = od.order\_id

LEFT JOIN

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

ORDER BY

o.order\_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\*/

SELECT

od.order\_id,

p.product\_id,

od.quantity,

p.product\_name

FROM

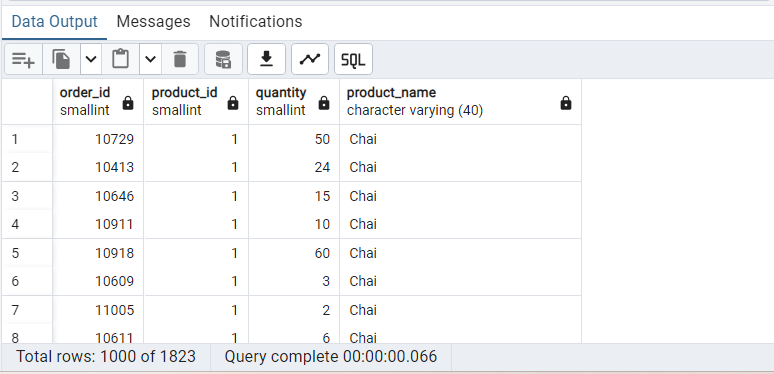
order\_details od

RIGHT JOIN

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

ORDER BY

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

c.category\_id,

c.category\_name,

p.product\_id,

p.product\_name

FROM

categories c

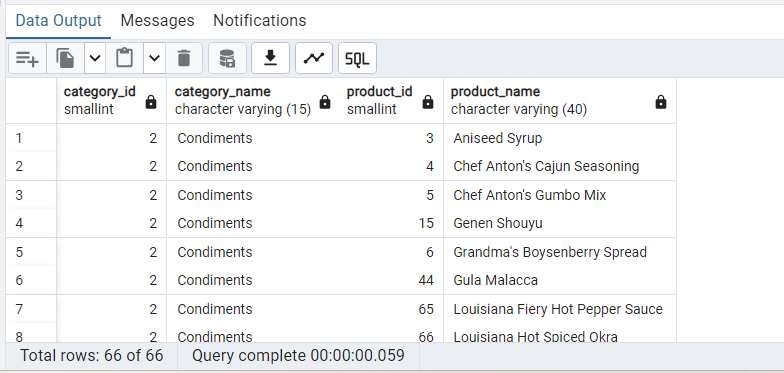
FULL OUTER JOIN

products p ON c.category\_id = p.category\_id

ORDER BY

c.category\_name,

p.product\_name;



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

SELECT

p.product\_id,

p.product\_name,

c.category\_id,

c.category\_name

FROM

products p

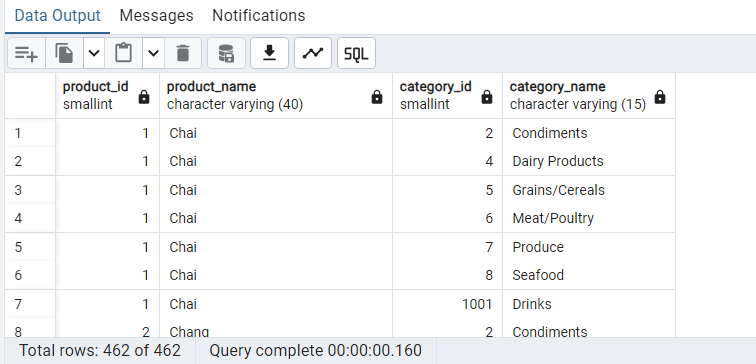
CROSS JOIN

categories c

ORDER BY

p.product\_id,

c.category\_id;



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

SELECT

e.employee\_id,

e.first\_name || ' ' || e.last\_name AS employee\_name,

m.employee\_id AS manager\_id,

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

FROM

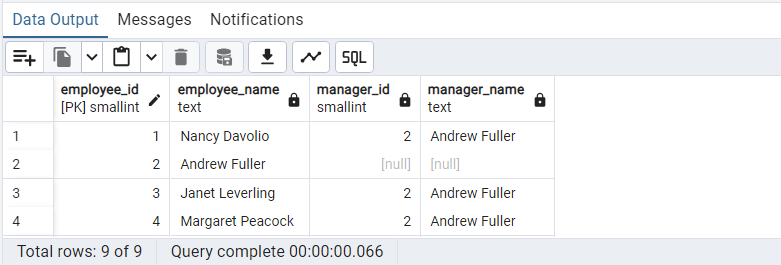
employees e

LEFT JOIN

employees m ON e.reports\_to = m.employee\_id

ORDER BY

e.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.customer\_id,

c.company\_name AS customer\_name

FROM

customers c

LEFT JOIN

orders o ON c.customer\_id = o.customer\_id

WHERE

o.ship\_via IS NULL

ORDER BY

c.company\_name;

