**Assignment 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,o.order\_date,

od.product\_id,

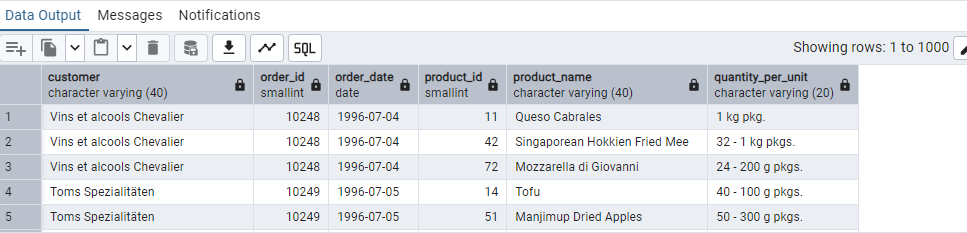
p.product\_name,p.quantity\_per\_unit

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 p.product\_id = od.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

o.order\_id,

c.company\_name as customer,

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

s.company\_name as shipper,

p.product\_name,

od.quantity

from orders o

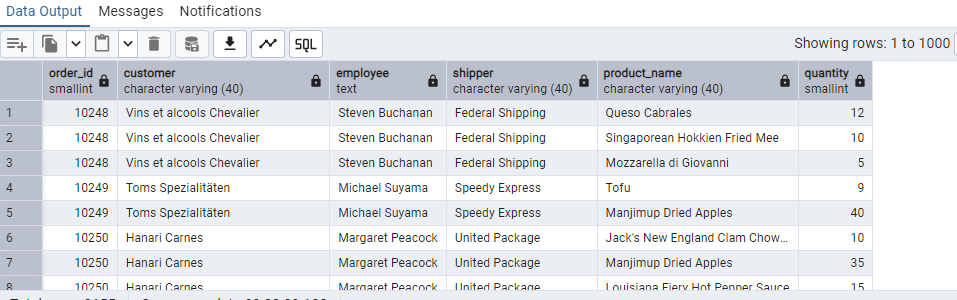
left join customers c on o.customer\_id = c.customer\_id

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



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,

p.product\_name, p.quantity\_per\_unit

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 p.product\_name,c.category\_name

from products p

Full Outer Join categories c on p.category\_id = c.category\_id

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

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

from products p

Cross Join categories c

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

select e1.first\_name ||' '||e1.last\_name as manager\_name,

e2.first\_name ||' '||e2.last\_name as employee\_name

from employees e1

left Join employees e2 on e2.reports\_to = e1.employee\_id

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

**Tables used:** customers, orders

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

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