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

**QUERY:1**

**OUTPUT**

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\_date;

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1. 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

**QUERY:2**

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,

o.order\_date

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;

**OUTPUT:**

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

Tables used: order\_details, products\*/

**QUERY:3**

SELECT

od.order\_id,

p.product\_id,

od.quantity,

p.product\_name

FROM

order\_details od

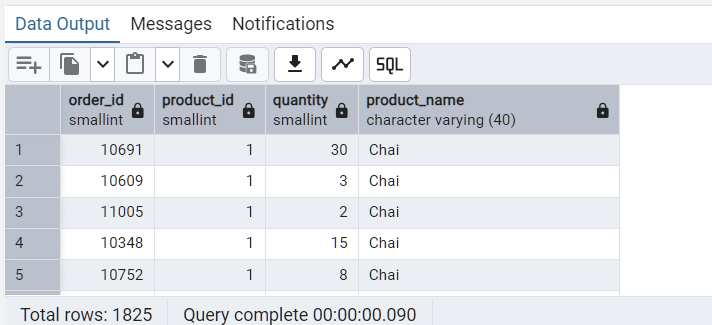
RIGHT JOIN

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

ORDER BY

p.product\_id;

**OUPUT:**

****

**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**

**QUERY:4**

SELECT

c.category\_name,

p.product\_name,

p.product\_id

FROM

categories c

FULL OUTER JOIN

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

ORDER BY

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

**OUTPUT:**

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

QUERY:5

SELECT

c.category\_name,

p.product\_name,

p.product\_id

FROM

categories c

CROSS JOIN

products p

ORDER BY

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

**OUPUT:**

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/\*6. Show all employees who have the same manager(Self join)\*/

**QUERY:6**

SELECT

e1.first\_name || ' ' || e1.last\_name AS employee,

e2.first\_name || ' ' || e2.last\_name AS coworker,

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

FROM

employees e1

JOIN

employees e2 ON e1.reports\_to = e2.reports\_to AND e1.employee\_id <> e2.employee\_id

LEFT JOIN

employees m ON e1.reports\_to = m.employee\_id

ORDER BY

manager, employee, coworker;

**OUTPUT:**

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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)\*/

**QUERY:7**

SELECT

c.customer\_id,

c.company\_name AS customer

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;

**OUTPUT:  
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