**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

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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, o.order\_date FROM orders o**

**LEFT JOIN customers c ON c.customer\_id = o.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**

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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**

**Output should have below columns:**

orderid,

productid,

quantity,

productname

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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**

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

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

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

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

from employees e1 left join employees e2 on e1.employee\_id= e2.reports\_to;

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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