## **Elamathi\_Day 4\_Assignment4**

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

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;

**OUTPUT:**



**…………………………………………………………………………………………………………………………………………………………....**

**--2. Show each order with customer, employee, shipper, and product info — even if some parts are missing. (Left Join)**

SELECT

o.order\_id,

c.company\_name AS customer,

CONCAT (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

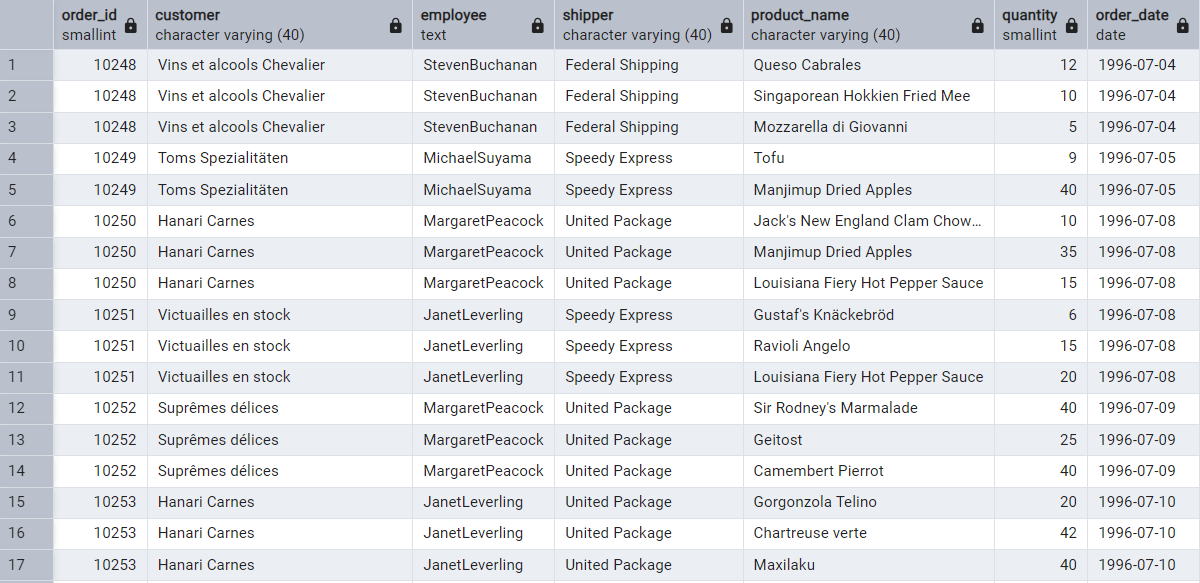
LEFT JOIN employees e ON o.employee\_id = e.employee\_id

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;

**OUTPUT:**



**…………………………………………………………………………………………………………………………………………………………....**

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

od.order\_id,

p.product\_id,

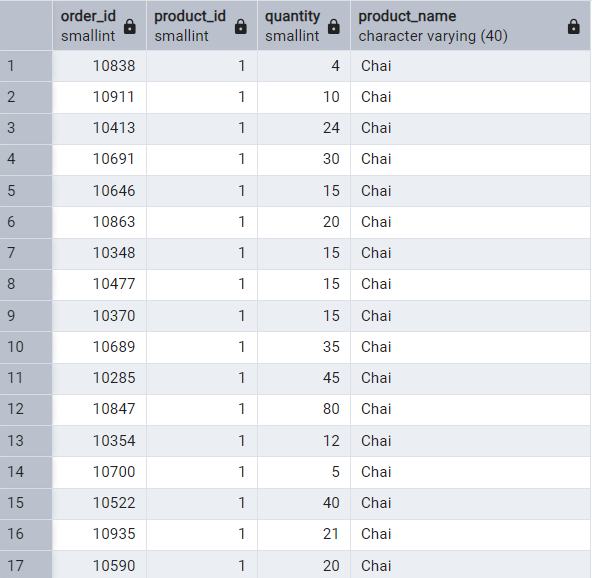
od.quantity,

p.product\_name

FROM order\_details od

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

**OUTPUT:**



**…………………………………………………………………………………………………………………………………………………………....**

**--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)**

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;

**OUTPUT:**



**…………………………………………………………………………………………………………………………………………………………....**

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

SELECT

p.product\_id,

p.product\_name,

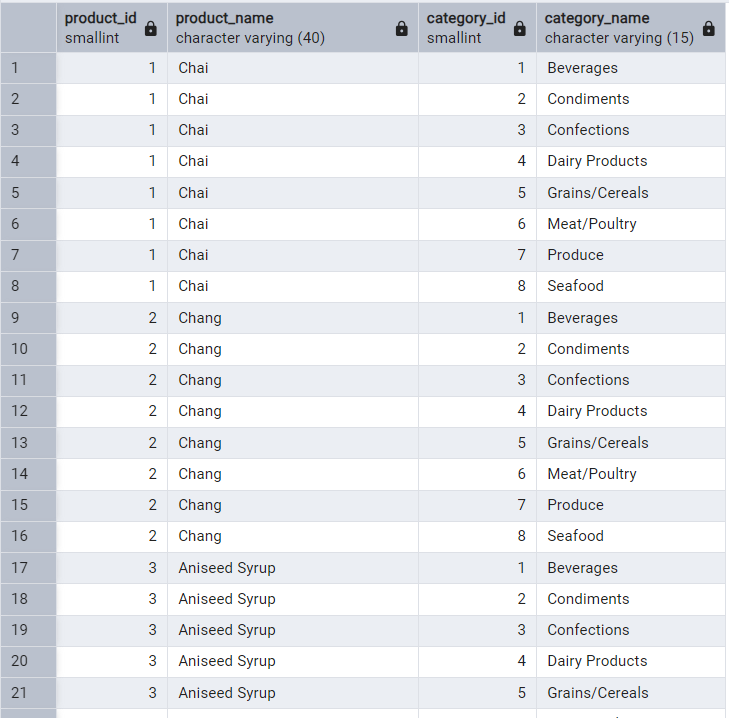
c.category\_id,

c.category\_name

FROM products p

CROSS JOIN categories c

**OUTPUT:**



**…………………………………………………………………………………………………………………………………………………………....**

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

SELECT

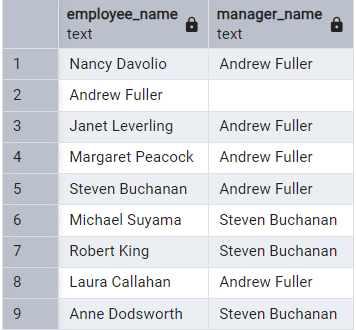
CONCAT (e.first\_name, ' ', e.last\_name) AS employee\_name,

CONCAT (m.first\_name, ' ', m.last\_name) AS manager\_name

FROM employees e

LEFT JOIN employees m ON e.reports\_to = m.employee\_id;

**OUTPUT:**



**…………………………………………………………………………………………………………………………………………………………....**

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

SELECT

c.customer\_id,

c.company\_name

FROM customers c

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

WHERE o.ship\_via IS NULL;

**OUTPUT:**

