Day 4 Assignment

SQL

OSTGRESOL	. 1
1.List all customers and the products they ordered with the order date	er with customer, employee, shipper, and product info — even if some parts are
2. Show each order with customer, employee, shipper, and product info — even if some parts are missing	red with the order date
3. Show all order details and products (include all products even if they were never ordered)	
4. List all product categories and their products — including categories that have no products, and products that are not assigned to any category	
5. Show all possible product and category combinations (Cross join).	5
6. Show all employees and their manager(Self join(left join))	6
7. List all customers who have not selected a shipping method.	7

POSTGRESQL

1.List all customers and the products they ordered with the order date

Query

```
SELECT * FROM orders;

SELECT * FROM order_details;

SELECT * FROM products;

SELECT c.company_name AS customer,

o.order_id,

p.product_name,

od.quantity,

o.order_date

FROM orders o

INNER JOIN order_details od ON o.order_id = od.order_id

INNER JOIN customers c ON o.customer_id = c.customer_id
```

INNER JOIN products p ON od.product_id = p.product_id;

Output:

Data Output Messages Notifications							
=+							
	customer character varying (40)	order_id smallint	product_name character varying (40)	quantity smallint	order_date date		
1	Vins et alcools Chevalier	10248	Queso Cabrales	12	1996-07-04		
2	Vins et alcools Chevalier	10248	Singaporean Hokkien Fried Mee	10	1996-07-04		
3	Vins et alcools Chevalier	10248	Mozzarella di Giovanni	5	1996-07-04		
4	Toms Spezialitäten	10249	Tofu	9	1996-07-05		
5	Toms Spezialitäten	10249	Manjimup Dried Apples	40	1996-07-05		
6	Hanari Carnes	10250	Jack's New England Clam Chow	10	1996-07-08		
7	Hanari Carnes	10250	Manjimup Dried Apples	35	1996-07-08		
8	Hanari Carnes	10250	Louisiana Fiery Hot Pepper Sauce	15	1996-07-08		
9	Victuailles en stock	10251	Gustaf's Knäckebröd	6	1996-07-08		
Total rows: 2155 Query complete 00:00:00.171							

2. Show each order with customer, employee, shipper, and product info — even if some parts are missing

Query:

```
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.unit_price

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)

Query:

SELECT od.order_id,

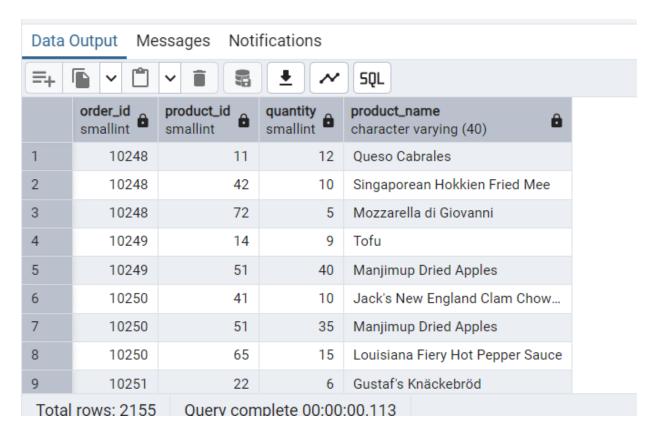
od.product_id,

od.quantity,

p.product_name

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

Query:

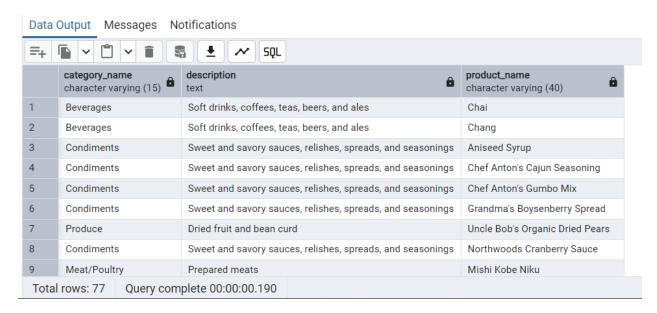
SELECT c.category_name,

c.description,

p.product_name

FROM categories c

FULL OUTER JOIN products p ON c.category_id = p.category_id;



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

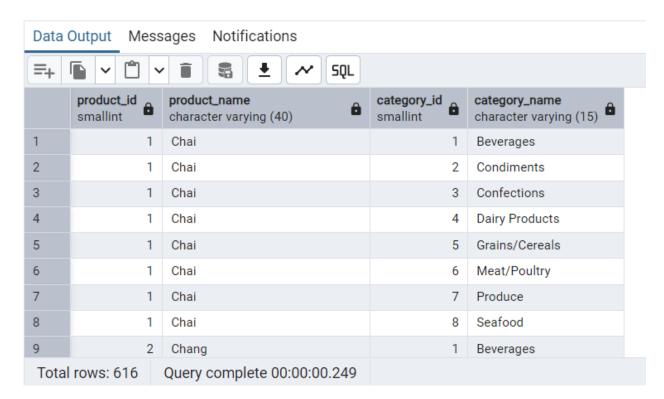
Query:

SELECT p.product_name,

c.category_name

FROM products p

CROSS JOIN categories c;



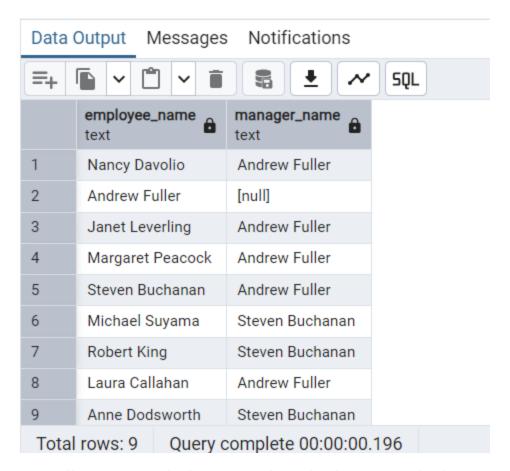
6. Show all employees and their manager(Self join(left join))

Query:

SELECT e.first_name || '' || e.last_name AS employee_name,
e1.first_name || '' || e1.last_name AS manager_name

FROM employees e

LEFT JOIN employees e1 ON e.reports_to = e1.employee_id;



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

QUERY:

SELECT c.customer_id,

c.company_name AS customer,

c.city,

o.order_id

FROM customers c

LEFT JOIN orders o ON c.customer_id = o.customer_id

WHERE o.ship_via IS NULL;



Total rows: 2 Que

Query complete 00:00:00.116