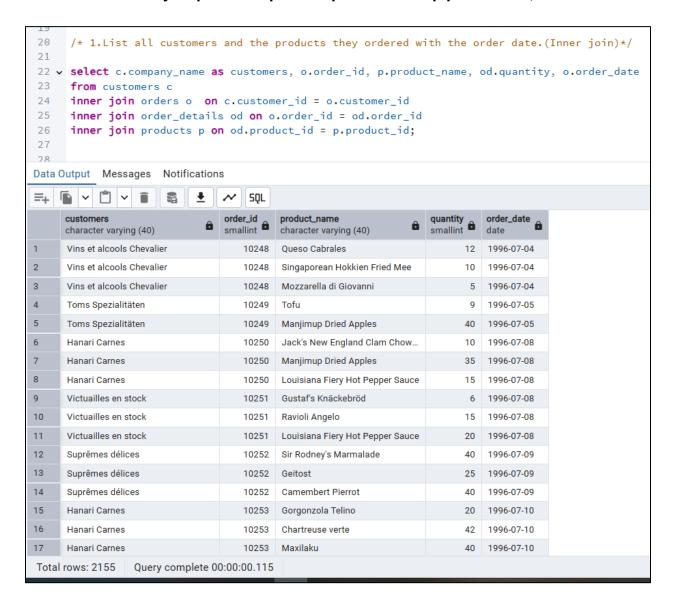
DAY 4 Assignments

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

select c.company_name as customers, 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;



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_name,s.company_name as shipper, p.product_name from products p

left join order_details od on p.product_id = od.product_id left join orders o on od.order_id = o.order_id 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;

	21 v /* 2. Show each order with customer, employee, shipper, and												
22													
23													
	24 v select o.order_id,												
	25 c.company_name as customer,												
	concat(e.first_name, ' ', e.last_name) as employee_name,												
	27 s.company_name as shipper, p.product_name 28 from products p												
29													
30													
31	31 left join customers c on o.customer_id = c.customer_id												
32													
33	left join shippers s on o.ship_via = s.shipper_id;												
35													
Data Output Messages Notifications													
=+	<u> </u>		v 📋	8	<u>+</u>	~	SQL						
	order_i	d nt 🖨	customer character varying (40)				â	employee_name text	shipper character varying (40)	product_name character varying (40)			
1	10	248	Vins et alcools Chevalier					Steven Buchanan	Federal Shipping	Queso Cabrales			
2	10248		Vins et alcools Chevalier					Steven Buchanan	Federal Shipping	Singaporean Hokkien Fried Mee			
3	10248		Vins et alcools Chevalier					Steven Buchanan	Federal Shipping	Mozzarella di Giovanni			
4	10	249	Toms Spezialitäten					Michael Suyama	Speedy Express	Tofu			
5	10	249	Toms Spezialitäten					Michael Suyama	Speedy Express	Manjimup Dried Apples			
6	10	250	Hanari Carnes					Margaret Peacock	United Package	Jack's New England Clam Chow			
7	10	250	Hanari Carnes					Margaret Peacock	United Package	Manjimup Dried Apples			
8	10	250	Hanari Carnes					Margaret Peacock	United Package	Louisiana Fiery Hot Pepper Sauce			
9	10	251	Victuailles en stock					Janet Leverling	Speedy Express	Gustaf's Knäckebröd			
10	10	251	Victuailles en stock					Janet Leverling	Speedy Express	Ravioli Angelo			
11	10	251	Victuailles en stock					Janet Leverling	Speedy Express	Louisiana Fiery Hot Pepper Sauce			
12	10	252	Suprêmes délices					Margaret Peacock	United Package	Sir Rodney's Marmalade			
13	10	252	Suprêmes délices					Margaret Peacock	United Package	Geitost			
14	10	252	Suprêmes délices					Margaret Peacock	United Package	Camembert Pierrot			
15	10	253	Hanari Carnes					Janet Leverling	United Package	Gorgonzola Telino			
16	10	253	Hanari Carnes					Janet Leverling	United Package	Chartreuse verte			
17	10	253	Hanari Carnes					Janet Leverling	United Package	Maxilaku			
Total	rows:	2155	Query	y com	plete	00:00:	00.177						

OR

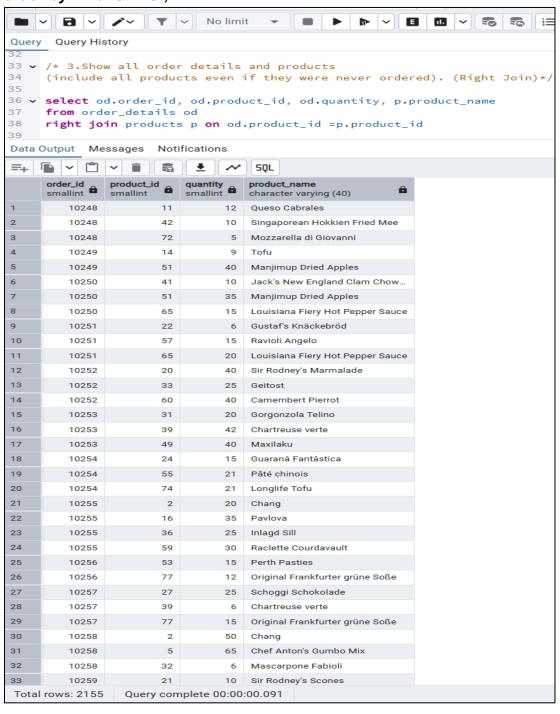
select o.order_id, c.company_name as customer, concat(e.first_name, ' ', e.last_name) as employee_name, s.company_name as shipper, p.product_name from orders o

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 1 Nulls First;

	•	ilio Filot,											
	/* 2.Show each order with customer, employee, shipper, and												
21	product	product info — even if some parts are missing. (Left Join)*/											
22													
23 ~ 24	<pre>select o.order_id, c.company_name as customer, concat(e.first_name, ' ', e.last_name) as employee_name,</pre>												
25						yee_mame,							
26	s.company_name as shipper, p.product_name from orders o												
27	<pre>left join customers c on o.customer_id = c.customer_id</pre>												
28	<pre>left join employees e on o.employee_id = e.employee_id</pre>												
29	<pre>left join shippers s on o.ship_via = s.shipper_id</pre>												
30	<pre>left join order_details od on o.order_id = od.order_id</pre>												
31 32	left join products p on od.product_id = p.product_id												
	32 order by 1 Nulls First;												
Data Output Messages Notifications													
=+	· ·	v i S	<u>*</u> ~	SQL									
	order_id smallint	customer character varyi	ing (40)	â	employee_name text	shipper character varying (40)	product_name character varying (40)						
1	10248	Vins et alcools	Chevalier		Steven Buchanan	Federal Shipping	Queso Cabrales						
2	10248	Vins et alcools	Chevalier		Steven Buchanan	Federal Shipping	Singaporean Hokkien Fried Mee						
3	10248	Vins et alcools	Chevalier		Steven Buchanan	Federal Shipping	Mozzarella di Giovanni						
4	10249	Toms Spezialit	täten		Michael Suyama	Speedy Express	Tofu						
5	10249	Toms Spezialit	täten		Michael Suyama	Speedy Express	Manjimup Dried Apples						
6	10250	Hanari Carnes			Margaret Peacock	United Package	Jack's New England Clam Chow						
7	10250	Hanari Carnes			Margaret Peacock	United Package	Manjimup Dried Apples						
8	10250	Hanari Carnes			Margaret Peacock	United Package	Louisiana Fiery Hot Pepper Sauce						
9	10251	Victuailles en	stock		Janet Leverling	Speedy Express	Gustaf's Knäckebröd						
10	10251	Victuailles en	stock		Janet Leverling	Speedy Express	Ravioli Angelo						
11	10251	Victuailles en	stock		Janet Leverling	Speedy Express	Louisiana Fiery Hot Pepper Sauce						
12	10252	Suprêmes déli	ces		Margaret Peacock	United Package	Sir Rodney's Marmalade						
13	10252	Suprêmes déli	ces		Margaret Peacock	United Package	Geitost						
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15	10253	Hanari Carnes			Janet Leverling	United Package	Gorgonzola Telino						
16	10253	Hanari Carnes			Janet Leverling	United Package	Chartreuse verte						
17	10253	Hanari Carnes			Janet Leverling	United Package	Maxilaku						
Total rows: 2155 Query complete 00:00:00.098													
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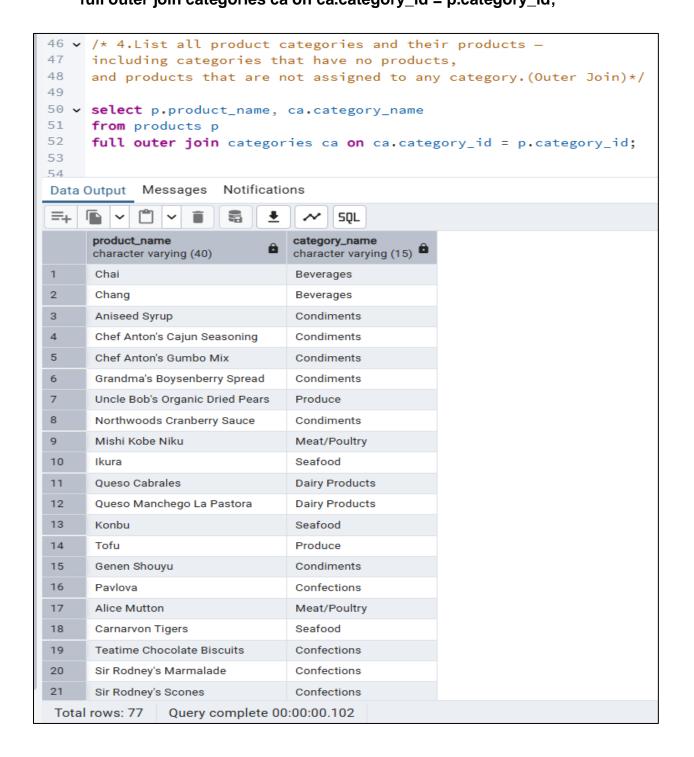
3. Show all order details and products (include all products even if they were never ordered). (Right Join)

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 order by 1 Nulls First;



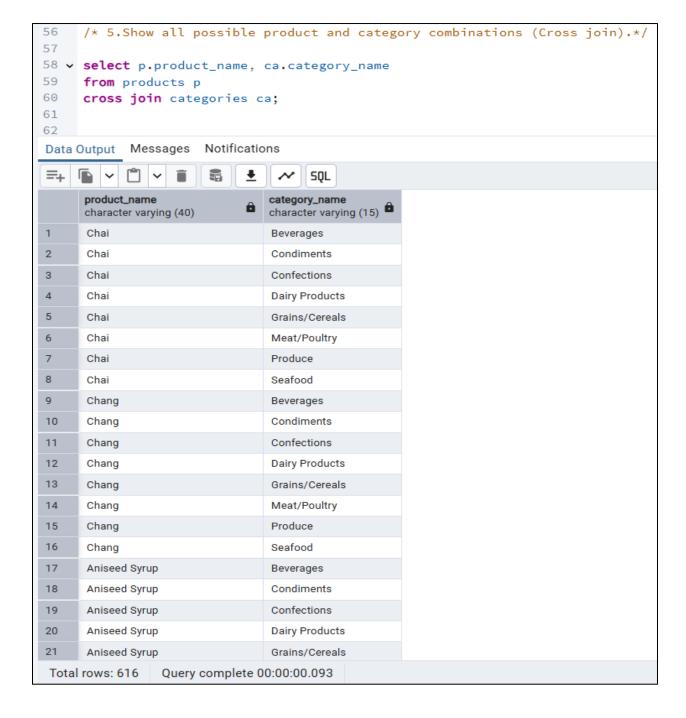
4. List all product categories and their products — including categories that have no products, and products that are not assigned to any category.(Outer Join)

select p.product_name, ca.category_name from products p full outer join categories ca on ca.category_id = p.category_id;



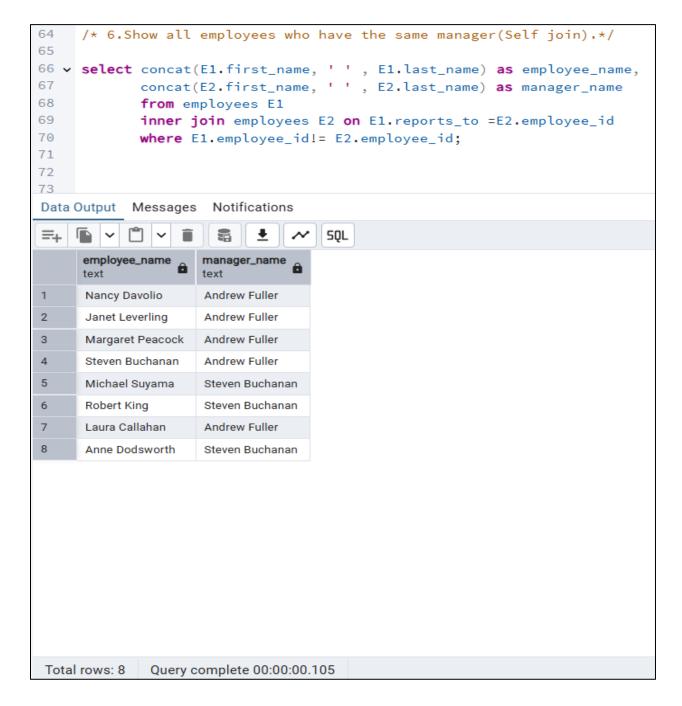
5. Show all possible product and category combinations (Cross join).

select p.product_name, ca.category_name from products p cross join categories ca;



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

select concat(E1.first_name, '', E1.last_name) as employee_name, concat(E2.first_name, '', E2.last_name) as manager_name from employees E1 inner join employees E2 on E1.reports_to =E2.employee_id where E1.employee_id != E2.employee_id;



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

select cu.customer_id, cu.company_name as Customers, o.order_id, o.ship_via from customers cu
left join orders o on cu.customer_id = o.customer_id
where o.ship via is Null;

