

## Day 4 Assignment

-- 1. List customers and products they ordered with order date

```
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 Messages Notifications

customers character varying (40)	order_id smallint	product_name character varying (40)	quantity smallint	order_date date
Vins et alcools Chevalier	10248	Queso Cabrales	12	1996-07-04
Vins et alcools Chevalier	10248	Singaporean Hokkien Fried Mee	10	1996-07-04
Vins et alcools Chevalier	10248	Mozzarella di Giovanni	5	1996-07-04
Toms Spezialitäten	10249	Tofu	9	1996-07-05
Toms Spezialitäten	10249	Manjimup Dried Apples	40	1996-07-05
Hanari Carnes	10250	Jack's New England Clam Chow...	10	1996-07-08
Hanari Carnes	10250	Manjimup Dried Apples	35	1996-07-08
Hanari Carnes	10250	Louisiana Fiery Hot Pepper Sauce	15	1996-07-08
Victuailles en stock	10251	Gustaf's Knackebrod	6	1996-07-08
Victuailles en stock	10251	Ravioli Angelo	15	1996-07-08
Victuailles en stock	10251	Louisiana Fiery Hot Pepper Sauce	20	1996-07-08
Suprêmes délicies	10252	Sir Rodney's Marmalade	40	1996-07-09
Suprêmes délicies	10252	Gelbst	25	1996-07-09
Suprêmes délicies	10252	Camembert Pierrot	40	1996-07-09
Hanari Carnes	10253	Gorgonzola Telino	20	1996-07-10
Hanari Carnes	10253	Chartreuse verte	42	1996-07-10
Hanari Carnes	10253	Mawlakku	40	1996-07-10

-- 2. Show order with customer, employee, shipper and product (even if missing)

```

25 c.company_name as customer,
26 concat(e.first_name, ' ', e.last_name) as employee_name,
27 s.company_name as shipper, p.product_name
28 from products p
29 left join order_details od on p.product_id = od.product_id
30 left join orders o on od.order_id = o.order_id
31 left join customers c on o.customer_id = c.customer_id
32 left join employees e on o.employee_id = e.employee_id
33 left join shippers s on o.ship_via = s.shipper_id;
34
35

```

Data Output Messages Notifications

	order_id smallint	customer character varying (40)	employee_name text	shipper character varying (40)	product_name character varying (40)
	10248	Vins et alcools Chevalier	Steven Buchanan	Federal Shipping	Queso Cabrales
	10248	Vins et alcools Chevalier	Steven Buchanan	Federal Shipping	Singaporean Hokkien Fried Mee
	10248	Vins et alcools Chevalier	Steven Buchanan	Federal Shipping	Mozzarella di Giovanni
	10249	Toms Spezialitäten	Michael Suyama	Speedy Express	Tofu
	10249	Toms Spezialitäten	Michael Suyama	Speedy Express	Manjimup Dried Apples
	10250	Hanari Carnes	Margaret Peacock	United Package	Jack's New England Clam Chow...
	10250	Hanari Carnes	Margaret Peacock	United Package	Manjimup Dried Apples
	10250	Hanari Carnes	Margaret Peacock	United Package	Louisiana Fiery Hot Pepper Sauce
	10251	Victuailles en stock	Janet Leverling	Speedy Express	Gustaf's Knäckebröd
0	10251	Victuailles en stock	Janet Leverling	Speedy Express	Ravioli Angelo
1	10251	Victuailles en stock	Janet Leverling	Speedy Express	Louisiana Fiery Hot Pepper Sauce

-- 3. Show all order details and products (even if not ordered)

```

37 from order_details od
38 right join products p on od.product_id = p.product_id
39

```

Data Output Messages Notifications				
SQL				
	order_id smallint	product_id smallint	quantity smallint	product_name character varying (40)
1	10248	11	12	Queso Cabrales
2	10248	42	10	Singaporean Hokkien Fried Mee
3	10248	72	5	Mozzarella di Giovanni
4	10249	14	9	Tofu
5	10249	51	40	Manjimup Dried Apples
6	10250	41	10	Jack's New England Clam Chowder
7	10250	51	35	Manjimup Dried Apples
8	10250	65	15	Louisiana Fiery Hot Pepper Sauce
9	10251	22	6	Gustaf's Knäckbröd
10	10251	57	15	Itavik Angelo
11	10251	65	20	Louisiana Fiery Hot Pepper Sauce
12	10252	20	40	Sir Rodney's Marmalade
13	10252	33	25	Gelust
14	10252	60	40	Camembert Pierrot
15	10253	31	20	Gorgonzola Telino
16	10253	39	42	Chartreuse verte
17	10253	49	40	Mexilaku
18	10254	24	15	Guaraná Fantástica
19	10254	55	21	Pâté chinois
20	10254	74	21	Longlife Tofu
21	10255	2	20	Chang
22	10255	16	35	Pavlova
23	10255	36	25	Inlagd Sill

-- 4. List all categories and products (include empty ones)

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Data Output Messages Notifications		
<div> <div>+</div> <div>📄</div> <div>▼</div> <div>📋</div> <div>▼</div> <div>🗑️</div> <div>🔒</div> <div>⬇️</div> <div>📈</div> <div>SQL</div> </div>		
	product_name character varying (40) 🔒	category_name character varying (15) 🔒
1	Chai	Beverages
2	Chang	Beverages
3	Aniseed Syrup	Condiments
4	Chef Anton's Cajun Seasoning	Condiments
5	Chef Anton's Gumbo Mix	Condiments
6	Grandma's Boysenberry Spread	Condiments
7	Uncle Bob's Organic Dried Pears	Produce
8	Northwoods Cranberry Sauce	Condiments
9	Mishi Kobe Niku	Meat/Poultry
10	Ikura	Seafood
11	Queso Cabrales	Dairy Products
12	Queso Manchego La Pastora	Dairy Products
13	Konbu	Seafood
14	Totu	Produce
15	Genen Shouyu	Condiments
16	Pavlova	Confections
17	Alice Mutton	Meat/Poultry
18	Carnarvon Tigers	Seafood
19	Teatime Chocolate Biscuits	Confections
20	Sir Rodney's Marmalade	Confections
21	Sir Rodney's Scones	Confections

-- 5. Show all possible combinations of products and categories

	product_name character varying (40)	category_name character varying (15)
1	Chai	Beverages
2	Chai	Condiments
3	Chai	Confections
4	Chai	Dairy Products
5	Chai	Grains/Cereals
6	Chai	Meat/Poultry
7	Chai	Produce
8	Chai	Seafood
9	Chang	Beverages
10	Chang	Condiments
11	Chang	Confections
12	Chang	Dairy Products
13	Chang	Grains/Cereals
14	Chang	Meat/Poultry
15	Chang	Produce
16	Chang	Seafood
17	Aniseed Syrup	Beverages
18	Aniseed Syrup	Condiments
19	Aniseed Syrup	Confections
20	Aniseed Syrup	Dairy Products
21	Aniseed Syrup	Grains/Cereals
Total rows: 616    Query complete 00:00:00.093		

-- 6. Employees with the same manager

```

69         inner join employees E2 on E1.reports_to = E2.employee_id
70     where E1.employee_id != E2.employee_id;
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```

Data Output Messages Notifications		
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	employee_name text	manager_name text
1	Nancy Davolio	Andrew Fuller
2	Janet Leverling	Andrew Fuller
3	Margaret Peacock	Andrew Fuller
4	Steven Buchanan	Andrew Fuller
5	Michael Suyama	Steven Buchanan
6	Robert King	Steven Buchanan
7	Laura Callahan	Andrew Fuller
8	Anne Dodsworth	Steven Buchanan

-- 7. Customers with no shipping method selected

```

84     left join orders o on cu.customer_id = o.customer_id
85     where o.ship_via is Null;
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```

Data Output Messages Notifications				
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	customer_id character varying (5)	customers character varying (40)	order_id smallint	ship_via smallint
1	PARIS	Paris spécialités	[null]	[null]
2	FISSA	FISSA Fabrica Inter. Salchichas S.A.	[null]	[null]