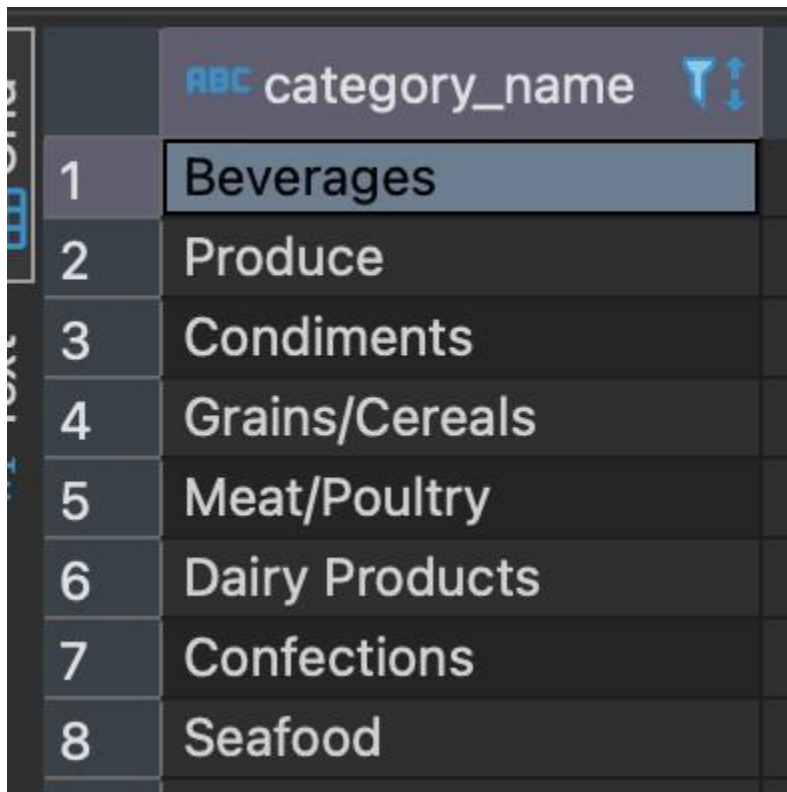


## Ejercicios SQL Bootcamp Data Engineer - EDVAI

Consigna: escribir la query/consulta necesaria para llegar al resultado (print).

### SELECT DISTINCT

1. Obtener una lista de todas las categorías distintas: Print:

A screenshot of a SQL query result in a dark-themed interface. The result is a table with two columns: an index and a category name. The index column contains numbers 1 through 8. The category name column contains the following text: Beverages, Produce, Condiments, Grains/Cereals, Meat/Poultry, Dairy Products, Confections, and Seafood. The first row, '1 Beverages', is highlighted with a blue background. Above the table, the column header 'category\_name' is visible with a blue 'ABC' icon and a sort icon.

	category_name
1	Beverages
2	Produce
3	Condiments
4	Grains/Cereals
5	Meat/Poultry
6	Dairy Products
7	Confections
8	Seafood

**Respuesta:**

```
select distinct c.category_name  
from categories c
```

2. Obtener una lista de todas las regiones distintas para los clientes: Print:

	ABC region 
1	Lara
2	DF
3	ID
4	Táchira
5	SP
6	[NULL]
7	Nueva Esparta
8	CA
9	AK
10	Isle of Wight
11	WY
12	OR
13	MT
14	RJ
15	WA
16	NM

Respuesta:

```
select distinct c.region  
from customers c
```

3. Obtener una lista de todos los títulos de contacto distintos:  
Print:

	ABC contact_title
1	Sales Manager
2	Owner
3	Owner/Marketing Assistant
4	Accounting Manager
5	Sales Associate
6	Sales Agent
7	Assistant Sales Agent
8	Assistant Sales Representative
9	Order Administrator
10	Marketing Manager
11	Sales Representative
12	Marketing Assistant

Respuesta:

```
select distinct c.contact_title  
from customers c
```

## ORDER BY

4. Obtener una lista de todos los clientes, ordenados por país: Print:

	ABC customer	ABC company	ABC contact_name	ABC contact_t	ABC address	ABC city	ABC reg	ABC posta	ABC country
1	OCEAN	Océano Atlántico	Yvonne Moncada	Sales Agent	Ing. Gustavo Moncada 8584	Buenos Aires	[NULL]	1010	Argentina
2	CACTU	Cactus Comidas	Patricio Simpson	Sales Agent	Cerrito 333	Buenos Aires	[NULL]	1010	Argentina
3	RANCH	Rancho grande	Sergio Gutiérrez	Sales Representative	Av. del Libertador 900	Buenos Aires	[NULL]	1010	Argentina
4	ERNSH	Ernst Handel	Roland Mendel	Sales Manager	Kirchgasse 6	Graz	[NULL]	8010	Austria
5	PICCO	Piccolo und mehr	Georg Pippas	Sales Manager	Geislweg 14	Salzburg	[NULL]	5020	Austria
6	MAISD	Maison Dewey	Catherine Dewey	Sales Agent	Rue Joseph-Bens 532	Bruxelles	[NULL]	B-1180	Belgium
7	SUPRD	Suprêmes délices	Pascale Cartrain	Accounting Manager	Boulevard Tirou, 255	Charleroi	[NULL]	B-6000	Belgium
8	WELLI	Wellington Importers	Paula Parente	Sales Manager	Rua do Mercado, 12	Resende	SP	08737-363	Brazil
9	HANAR	Hanari Carnes	Mário Pontes	Accounting Manager	Rua do Paço, 67	Rio de Janeiro	RJ	05454-876	Brazil
10	GOURL	Gourmet Lanchonetes	André Fonseca	Sales Associate	Av. Brasil, 442	Campinas	SP	04876-786	Brazil
11	QUEDE	Que Delícia	Bernardo Batista	Accounting Manager	Rua da Panificadora, 12	Rio de Janeiro	RJ	02389-673	Brazil
12	QUEEN	Queen Cozinha	Lúcia Carvalho	Marketing Assistant	Alameda dos Canários, 891	Sao Paulo	SP	05487-020	Brazil
13	COMMI	Comércio Mineiro	Pedro Afonso	Sales Associate	Av. dos Lusíadas, 23	Sao Paulo	SP	05432-043	Brazil
14	TRADH	Tradição Hipertecnológica	Anabela Domingues	Sales Representative	Av. Inês de Castro, 414	Sao Paulo	SP	05634-030	Brazil
15	FAMIA	Família Arquibald	Aria Cruz	Marketing Assistant	Rua Orós, 92	Sao Paulo	SP	05442-030	Brazil
16	RICAR	Ricardo Adocica	Janete Limeira	Assistant Sales Representative	Av. Copacabana, 267	Rio de Janeiro	RJ	02389-890	Brazil
17	BOTTM	Bottom-Dollar Motors	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen	BC	T2F 8M4	Canada
18	LAUGB	Laughing Bacchus Wine	Yoshi Tannamuri	Marketing Assistant	1900 Oak St.	Vancouver	BC	V3F 2K1	Canada
19	MEREP	Mère Paillarde	Jean Fresnière	Marketing Assistant	43 rue St. Laurent	Montréal	Québec	H1J 1C3	Canada
20	SIMOB	Simons bistro	Jytte Petersen	Owner	Vinbæltet 34	København	[NULL]	1734	Denmark
21	VAFFE	Vaffeliernet	Palle Ibsen	Sales Manager	Smaasloget 45	Århus	[NULL]	8200	Denmark

### Respuesta:

```
select *  
from customers c  
order by c.country
```

5. Obtener una lista de todos los pedidos, ordenados por id del empleado y fecha del pedido:

Print:

	customer_id	123 employee_id	order_date	required_date	shipped_date	123 ship_via	123 fre
1	10,258 ERNSH	1	1996-07-17	1996-08-14	1996-07-23	1	140.5
2	10,270 WARTH	1	1996-08-01	1996-08-29	1996-08-02	1	136.5
3	10,275 MAGAA	1	1996-08-07	1996-09-04	1996-08-09	1	26.9
4	10,285 QUICK	1	1996-08-20	1996-09-17	1996-08-26	2	76.8
5	10,292 TRADH	1	1996-08-28	1996-09-25	1996-09-02	2	1.3
6	10,293 TORTU	1	1996-08-29	1996-09-26	1996-09-11	3	21.1
7	10,304 TORTU	1	1996-09-12	1996-10-10	1996-09-17	2	63.7
8	10,306 ROMEO	1	1996-09-16	1996-10-14	1996-09-23	3	7.5
9	10,311 DUMON	1	1996-09-20	1996-10-04	1996-09-26	3	24.6
10	10,314 RATTC	1	1996-09-25	1996-10-23	1996-10-04	2	74.1
11	10,316 RATTC	1	1996-09-27	1996-10-25	1996-10-08	3	150.1
12	10,325 KOENE	1	1996-10-09	1996-10-23	1996-10-14	3	64.
13	10,340 BONAP	1	1996-10-29	1996-11-26	1996-11-08	3	166.3
14	10,351 ERNSH	1	1996-11-11	1996-12-09	1996-11-20	1	162.3
15	10,357 LILAS	1	1996-11-19	1996-12-17	1996-12-02	3	34.8
16	10,361 QUICK	1	1996-11-22	1996-12-20	1996-12-03	2	183.1
17	10,364 EASTC	1	1996-11-26	1997-01-07	1996-12-04	1	71.9
18	10,371 LAMAI	1	1996-12-03	1996-12-31	1996-12-24	1	0.4
19	10,374 WOLZA	1	1996-12-05	1997-01-02	1996-12-09	3	3.9
20	10,376 MEREP	1	1996-12-09	1997-01-06	1996-12-13	2	20.3
21	10,377 SEVES	1	1996-12-09	1997-01-06	1996-12-13	3	22.2

**Respuesta:**

```
select *  
from orders o  
order by o.employee_id, o.shipped_date
```

## INSERT INTO

6. Insertar un nuevo cliente en la tabla Customers: Print:

Updated Rows 1

### Respuesta:

#### insert into customers

(customer\_id,company\_name,contact\_name,contact\_title,address,city,region,postal\_code,country,phone,fax)

**values** ('WALLY', 'Wally Editorial', 'Wally Gomez', 'Owner' , 'Av. Avellaneda 1900' , 'Buenos Aires', 'BA', 1406, 'Argentina', '5411-0001-111', null)

--6. Insertar un nuevo cliente en la tabla Customers:  
--delete from customers  
--where customer\_id = 'WALLY'

**insert into customers** (customer\_id,company\_name,contact\_name,contact\_title,address,city,region,postal\_code,country,phone,fax)  
**values** ('WALLY', 'Wally Editorial', 'Wally Gomez', 'Owner' , 'Av. Avellaneda 1900' , 'Buenos Aires', 'BA', 1406, 'Argentina', '5411-0001-111', null)

Name	Value
Updated Rows	1
Execute time	0.004s
Start time	Sun Sep 07 21:02:14 ART 2025
Finish time	Sun Sep 07 21:02:14 ART 2025
Query	insert into customers (customer_id,company_name,contact_name,contact_title,address,city,region,postal_code,country,phone,fax) values ('WALLY', 'Wally Editorial', 'Wally Gomez', 'Owner' , 'Av. Avellaneda 1900' , 'Buenos Aires', 'BA', 1406, 'Argentina', '5411-0001-111', null)

	A-Z customer_id ↓	A-Z company_name	A-Z contact_name	A-Z contact_title
1	WOLZA	Wolski Zajazd	Zbyszek Piestrzeniewicz	Owner
2	WILMK	Wilman Kala	Matti Karttunen	Owner/Manager
3	WHITC	White Clover Markets	Karl Jablonski	Owner
4	WELLI	Wellington Importadora	Paula Parente	Sales Manager
5	WARTH	Wartian Herkku	Pirkko Koskitalo	Accounting
6	WANDK	Die Wandernde Kuh	Rita Müller	Sales Representative
7	WALLY	Wally Editorial	Wally Gomez	Owner
8	WANDK	Wandernde Kuh	Rita Müller	Sales Representative

7. Insertar una nueva región en la tabla  
Región: Print:

Updated Rows 1

**Respuesta:**

**insert into** region (region\_id, region\_description)  
**values** (5, 'Latin America')

--7. Insertar una nueva región en la tabla Región:  
--delete from region  
--where region\_description = 'Latin America'

**insert into** region (region\_id, region\_description)  
**values** (5, 'Latin America')

Obtener todos los clientes de la tabla Customers

Name	Value
Updated Rows	1
Execute time	0.003s
Start time	Sun Sep 07 21:03:10 ART 2025
Finish time	Sun Sep 07 21:03:10 ART 2025
Query	insert into region (region_id, region_description) values (5, 'Latin America')

<northwind> Ejercicio\_1\_bootcamp\_SQL.sql × customers region ×

Propiedades Datos Diagrama

Show SQL Enter a SQL expression to filter results (use Ctrl+Space)

Grilla	123 region_id	A-Z region_description
1	1	Eastern
2	2	Western
3	3	Northern
4	4	Southern
5	5	Latin America

## NULL -COALESCE

8. Obtener todos los clientes de la tabla Customers donde el campo Región es NULL: Print:

	ABC customer_id	ABC company_name	ABC contact_name	ABC contact_title	ABC address	ABC city	ABC region	ABC phone
1	ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	[NULL]	1220
2	ANATR	Ana Trujillo Emparedados y	Ana Trujillo	Owner	Avda. de la Constit	México D.F.	[NULL]	0502
3	ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	[NULL]	0502
4	AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	[NULL]	WA1
5	BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå	[NULL]	S-9E
6	BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim	[NULL]	6830
7	BLONP	Blondesddsl père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	[NULL]	6700
8	BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid	[NULL]	2802
9	BONAP	Bon app'	Laurence Lebihan	Owner	12, rue des Bouches	Marseille	[NULL]	1300
10	BSBEV	B's Beverages	Victoria Ashworth	Sales Representative	Fauntleroy Circus	London	[NULL]	EC2
11	CACTU	Cactus Comidas para llevar	Patricio Simpson	Sales Agent	Cerrito 333	Buenos Aires	[NULL]	1010
12	CENTC	Centro comercial Moctezuma	Francisco Chang	Marketing Manager	Sierras de Granada	México D.F.	[NULL]	0502
13	CHOPS	Chop-suey Chinese	Yang Wang	Owner	Hauptstr. 29	Bern	[NULL]	3012
14	CONSH	Consolidated Holdings	Elizabeth Brown	Sales Representative	Berkeley Gardens	London	[NULL]	WX1
15	DRACD	Drachenblut Delikatessen	Sven Ottlieb	Order Administrator	Walserweg 21	Aachen	[NULL]	5206
16	DUMON	Du monde entier	Janine Labrune	Owner	67, rue des Cinquante	Nantes	[NULL]	4400
17	EASTC	Eastern Connection	Ann Devon	Sales Agent	35 King George	London	[NULL]	WX3
18	ERNSH	Ernst Handel	Roland Mendel	Sales Manager	Kirchgasse 6	Graz	[NULL]	8010
19	FISSA	FISSA Fabrica Inter. Salchichos	Diego Roel	Accounting Manager	C/ Moralzarzal, 86	Madrid	[NULL]	2803
20	FOLIG	Folies gourmandes	Martine Rancé	Assistant Sales Agent	184, chaussée de la	Lille	[NULL]	5900
21	FOLKO	Folk och få HB	Maria Larsson	Owner	Åkeraatan 24	Bräcke	[NULL]	S-84

**Respuesta:**

```
select *  
from customers c  
where region is null
```



9. Obtener Product\_Name y Unit\_Price de la tabla Products, y si Unit\_Price es NULL, use el precio estándar de \$10 en su lugar:

Print:

	ABC product_name	123 price
1	Chai	18
2	Chang	19
3	Aniseed Syrup	10
4	Chef Anton's Cajun Seasoning	22
5	Chef Anton's Gumbo Mix	21.35000038
6	Grandma's Boysenberry Spread	25
7	Uncle Bob's Organic Dried Pears	30
8	Northwoods Cranberry Sauce	40
9	Mishi Kobe Niku	97
10	Ikura	31
11	Queso Cabrales	21
12	Queso Manchego La Pastora	38
13	Konbu	6
14	Tofu	23.25
15	Genen Shouyu	13
16	Pavlova	17.45000076

**Respuesta:**

```
select p.product_name, coalesce(p.unit_price , 10) as price
from products p
```

Para poder ver el funcionamiento se agregó un registro "Fernet con mate" con valor **null** en unit\_price. Entonces al ejecutar la consulta se comprueba que devuelve un **'10'**.

```
--9. Obtener Product_Name y Unit_Price de la tabla Products, y si Unit_Price
--use el precio estándar de $10 en su lugar:
--select p.product_name, p.unit_price, coalesce(p.unit_price , 10) as price
--Fernet con Mate tiene NULL
select p.product_name, coalesce(p.unit_price , 10) as price
from products p
```

products 1 ×

select p.product\_name, coalesce(p.unit\_price , 10) as price from Enter a SQL expression to filter results (use Ctrl+Space)

	AZ product_name	123 price
53	Gumbär Gummibärchen	31,23
54	Gula Malacca	19,45
55	Gudbrandsdalsost	36
56	Guaraná Fantástica	4,5
57	Gravad lax	26
58	Grandma's Boysenberry Spread	25
59	Gorgonzola Telino	12,5
60	Gnocchi di nonna Alice	38
61	Genen Shouyu	13
62	Geitost	2,5
63	Flotemysost	21,5
64	Filo Mix	7
65	Fernet con Mate	10

## INNER JOIN

10. Obtener el nombre de la empresa, el nombre del contacto y la fecha del pedido de todos los pedidos:

Print:

	ABC company_name	ABC contact_name	🕒 order_date
1	Vins et alcools Chevalier	Paul Henriot	1996-07-04
2	Toms Spezialitäten	Karin Josephs	1996-07-05
3	Hanari Carnes	Mario Pontes	1996-07-08
4	Victuailles en stock	Mary Saveley	1996-07-08
5	Suprêmes délices	Pascale Cartrain	1996-07-09
6	Hanari Carnes	Mario Pontes	1996-07-10
7	Chop-suey Chinese	Yang Wang	1996-07-11
8	Richter Supermarkt	Michael Holz	1996-07-12
9	Wellington Importadora	Paula Parente	1996-07-15
10	HILARION-Abastos	Carlos Hernández	1996-07-16
11	Ernst Handel	Roland Mendel	1996-07-17
12	Centro comercial Moctezuma	Francisco Chang	1996-07-18
13	Ottilies Käseladen	Henriette Pfalzheim	1996-07-19
14	Que Delícia	Bernardo Batista	1996-07-19
15	Rattlesnake Canyon Grocery	Paula Wilson	1996-07-22
16	Ernst Handel	Roland Mendel	1996-07-23
17	Folk och fä HB	Maria Larsson	1996-07-24
18	Blondesddsl père et fils	Frédérique Citeaux	1996-07-25
19	Wartian Herkku	Pirkko Koskitalo	1996-07-26
20	Frankenversand	Peter Franken	1996-07-29
21	GROSELLA-Restaurante	Manuel Pereira	1996-07-30

**Respuesta:**

```
select c.company_name , c.contact_name , o.order_date
from customers c inner join orders o
on o.customer_id = c.customer_id
```

11. Obtener la identificación del pedido, el nombre del producto y el descuento de todos los detalles del pedido y productos:

Print:

123 order_id	ABC product_name	123 discount
10,248	Queso Cabrales	0
Filter by column value		
	gaporean Hokkien Fried Mee	0
10,248	Mozzarella di Giovanni	0
10,249	Tofu	0
10,249	Manjimup Dried Apples	0
10,250	Jack's New England Clam Chowder	0
10,250	Manjimup Dried Apples	0.150000006
10,250	Louisiana Fiery Hot Pepper Sauce	0.150000006
10,251	Gustaf's Knäckebröd	0.050000001
10,251	Ravioli Angelo	0.050000001
10,251	Louisiana Fiery Hot Pepper Sauce	0
10,252	Sir Rodney's Marmalade	0.050000001
10,252	Geitost	0.050000001
10,252	Camembert Pierrot	0
10,253	Gorgonzola Telino	0
10,253	Chartreuse verte	0
10,253	Maxilaku	0
10,254	Guaraná Fantástica	0.150000006
10,254	Pâté chinois	0.150000006
10,254	Longlife Tofu	0
10,255	Chana	0

**Respuesta:**

```
select od.order_id , p.product_name , od.discount
from order_details od inner join products p
on od.product_id = p.product_id
```

## LEFT JOIN

12. Obtener el identificador del cliente, el nombre de la compañía, el identificador y la fecha de la orden de todas las órdenes y aquellos clientes que hagan match :

Print:

customer_id	company_name	order_id	order_date
VINET	Vins et alcools Chevalier	10,248	1996-07-04
TOMSP	Toms Spezialitäten	10,249	1996-07-05
HANAR	Hanari Carnes	10,250	1996-07-08
VICTE	Victuailles en stock	10,251	1996-07-08
SUPRD	Suprêmes délices	10,252	1996-07-09
HANAR	Hanari Carnes	10,253	1996-07-10
CHOPS	Chop-suey Chinese	10,254	1996-07-11
RICSU	Richter Supermarkt	10,255	1996-07-12
WELLI	Wellington Importadora	10,256	1996-07-15
HILAA	HILARION-Abastos	10,257	1996-07-16
ERNSH	Ernst Handel	10,258	1996-07-17
CENTC	Centro comercial Moctezuma	10,259	1996-07-18
OTTIK	Ottilies Käseladen	10,260	1996-07-19
QUEDE	Que Delícia	10,261	1996-07-19
RATTC	Rattlesnake Canyon Grocery	10,262	1996-07-22
ERNSH	Ernst Handel	10,263	1996-07-23
FOLKO	Folk och få HB	10,264	1996-07-24
BLONP	Blondesddsl père et fils	10,265	1996-07-25
WARTH	Wartian Herkku	10,266	1996-07-26
FRANK	Frankenversand	10,267	1996-07-29
GROSR	GROSELLA-Restaurante	10,268	1996-07-30

### Respuesta:

```
select c.customer_id , c.company_name , o.order_id , o.order_date
from customers c left join orders o
on c.customer_id = o.customer_id
where o.order_id is not null
```



13. Obtener el identificador del empleados, apellido, identificador de territorio y descripción del territorio de todos los empleados y aquellos que hagan match en territorios:  
Print:

123	emplo	Ctrl+click to open SQL console	ABC territory_id	ABC territory_description
1	Davolio		06897	Wilton
1	Davolio		19713	Neward
2	Fuller		01581	Westboro
2	Fuller		01730	Bedford
2	Fuller		01833	Georgetow
2	Fuller		02116	Boston
2	Fuller		02139	Cambridge
2	Fuller		02184	Braintree
2	Fuller		40222	Louisville
3	Leverling		30346	Atlanta
3	Leverling		31406	Savannah
3	Leverling		32859	Orlando
3	Leverling		33607	Tampa
4	Peacock		20852	Rockville
4	Peacock		27403	Greensboro
4	Peacock		27511	Cary
5	Buchanan		02903	Providence
5	Buchanan		07960	Morristown
5	Buchanan		08837	Edison
5	Buchanan		10019	New York
5	Buchanan		10038	New York

**Respuesta:**

```
select e.employee_id , e.last_name , ef.territory_id , t.territory_description
from employees e left join employee_territories ef
on e.employee_id = ef.employee_id
left join territories t
on ef.territory_id = t.territory_id
```

14. Obtener el identificador de la orden y el nombre de la empresa de todos las órdenes y aquellos clientes que hagan match:  
Print:

order_id	company_name
10,248	Vins et alcools Chevalier
10,249	Toms Spezialitäten
10,250	Hanari Carnes
10,251	Victuailles en stock
10,252	Suprêmes délices
10,253	Hanari Carnes
10,254	Chop-suey Chinese
10,255	Richter Supermarkt
10,256	Wellington Importadora
10,257	HILARION-Abastos
10,258	Ernst Handel
10,259	Centro comercial Moctezuma
10,260	Otilies Käseladen
10,261	Que Delícia
10,262	Rattlesnake Canyon Grocery
10,263	Ernst Handel

Respuesta:

```
select o.order_id , c.company_name
from orders o left join customers c
on c.customer_id = o.customer_id
```

## RIGHT JOIN

15. Obtener el identificador de la orden, y el nombre de la compañía de todas las órdenes y aquellos clientes que hagan match:

Print:

order_id	company_name
10,248	Vins et alcools Chevalier
10,249	Toms Spezialitäten
10,250	Hanari Carnes
10,251	Victuailles en stock
10,252	Suprêmes délices
10,253	Hanari Carnes
10,254	Chop-suey Chinese
10,255	Richter Supermarkt
10,256	Wellington Importadora
10,257	HILARION-Abastos
10,258	Ernst Handel
10,259	Centro comercial Moctezuma
10,260	Ottilies Käseladen
10,261	Que Delícia
10,262	Rattlesnake Canyon Grocery

Respuesta:

```
select o.order_id , c.company_name
from orders o right join customers c
on c.customer_id = o.customer_id
```



16. Obtener el nombre de la compañía, y la fecha de la orden de todas las órdenes y aquellos transportistas que hagan match. Solamente para aquellas ordenes del año 1996:

Print:

ABC company_name	order_date
Federal Shipping	1996-07-04
Speedy Express	1996-07-05
United Package	1996-07-08
Speedy Express	1996-07-08
United Package	1996-07-09
United Package	1996-07-10
United Package	1996-07-11
Federal Shipping	1996-07-12
United Package	1996-07-15
Federal Shipping	1996-07-16
Speedy Express	1996-07-17
Federal Shipping	1996-07-18
Speedy Express	1996-07-19
United Package	1996-07-19
Federal Shipping	1996-07-22

**Respuesta:**

```
select c.company_name, o.order_date
from customers c right join orders o
on c.customer_id = o.customer_id
--where o.order_date > '1995-12-31' and o.order_date < '1997-01-01'
where EXTRACT(YEAR FROM o.order_date) = 1996 --para postgres es la función EXTRACT
order by o.order_date
```

**Otra forma:**

```
select c.company_name, o.order_date
from customers c right join orders o
on c.customer_id = o.customer_id
where o.order_date > '1995-12-31' and o.order_date < '1997-01-01'
order by o.order_date
```

## FULL OUTER JOIN

17. Obtener nombre y apellido del empleados y el identificador de territorio, de todos los empleados y aquellos que hagan match o no de employee\_territories:

Print:

first_name	last_name	territory_id
Nancy	Davolio	06897
Nancy	Davolio	19713
Andrew	Fuller	01581
Andrew	Fuller	01730
Andrew	Fuller	01833
Andrew	Fuller	02116
Andrew	Fuller	02139
Andrew	Fuller	02184
Andrew	Fuller	40222
Janet	Leverling	30346
Janet	Leverling	31406
Janet	Leverling	32859
Janet	Leverling	33607
Margaret	Peacock	20852
Margaret	Peacock	27403
Margaret	Peacock	27511
Steven	Puchner	02002

Respuesta:

```
select e.first_name , e.last_name , et.territory_id
from employees e full outer join employee_territories et
on e.employee_id = et.employee_id
```

18. Obtener el identificador de la orden, precio unitario, cantidad y total de todas las órdenes y aquellas órdenes detalles que hagan match o no:

Print:

123 order_id	123 unit_price	123 quantity	123 total
10,248	14	12	168
10,248	9.800000191	10	98.0000019073
10,248	34.799999237	5	173.9999961853
10,249	18.600000381	9	167.4000034332
10,249	42.400001526	40	1,696.0000610352
10,250	7.699999809	10	76.9999980927
10,250	42.400001526	35	1,484.0000534058
10,250	16.799999237	15	251.9999885559
10,251	16.799999237	6	100.7999954224
10,251	15.600000381	15	234.000005722
10,251	16.799999237	20	335.9999847412
10,252	64.800003052	40	2,592.0001220703
10,252	2	25	50
10,252	27.200000763	40	1,088.0000305176
10,253	10	20	200
10,253	14.399999619	42	604.7999839783
10,253	16	40	640
10,254	3.599999905	15	53.9999985695
10,254	19.200000763	21	403.2000160217
10,254	8	21	168
10,255	15.199999809	20	303.9999961853

Respuesta:

```
select o.order_id , od.unit_price , od.quantity , od.unit_price * od.quantity as total
from orders o full outer join order_details od
on o.order_id = od.order_id
```

## UNION

19. Obtener la lista de todos los nombres de los clientes y los nombres de los proveedores:  
Print:

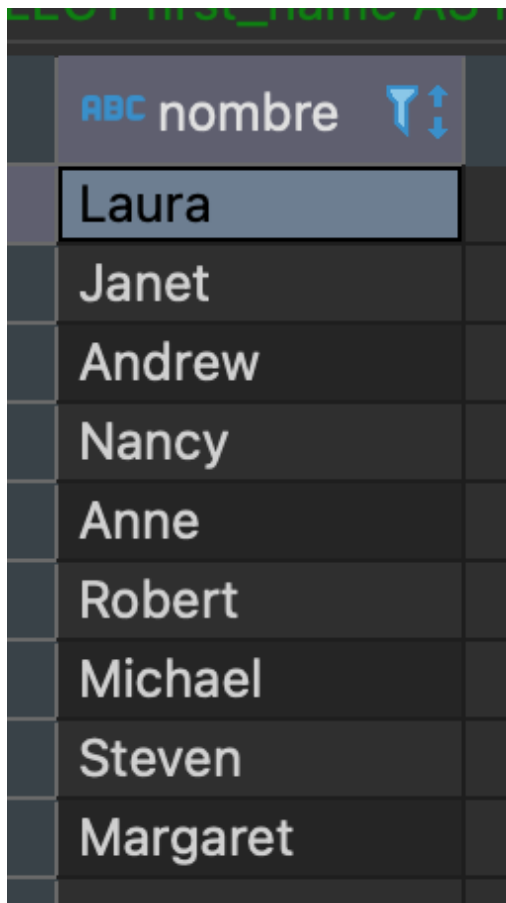
ABC nombre	
Heli Süßwaren GmbH & Co. KG	
Wilman Kala	
Magazzini Alimentari Riuniti	
Escargots Nouveaux	
Wellington Importadora	
The Cracker Box	
Toms Spezialitäten	
Furia Bacalhau e Frutos do Mar	
Lehmanns Marktstand	
John Smith Inc.	
Mère Paillard	
Pavlova, Ltd.	
Leka Trading	

Respuesta:

```
select c.contact_name as nombre
from customers c
union
select s.company_name
from suppliers s
```

20. Obtener la lista de los nombres de todos los empleados y los nombres de los gerentes de departamento:

Print:



The screenshot shows a database query result with two columns: 'nombre' and 'puesto'. The 'nombre' column is sorted alphabetically, as indicated by the 'ABC' icon and the upward arrow. The data is presented in a table with a dark background and light text. The first row is highlighted in light blue. The names listed are Laura, Janet, Andrew, Nancy, Anne, Robert, Michael, Steven, and Margaret. The 'puesto' column is empty for all rows.

nombre	puesto
Laura	
Janet	
Andrew	
Nancy	
Anne	
Robert	
Michael	
Steven	
Margaret	

**Respuesta:**

```
select e.first_name as nombre, e.title as puesto
from employees e
union
select e2.first_name, e2.title
from employees e2
where title like '%manager%'
```

## SUBQUERIES

21. Obtener los productos del stock que han sido vendidos:

Print:

ABC product_name	123 product_id
Chai	1
Chang	2
Aniseed Syrup	3
Chef Anton's Cajun Seasoning	4
Chef Anton's Gumbo Mix	5
Grandma's Boysenberry Spread	6
Uncle Bob's Organic Dried Pears	7
Northwoods Cranberry Sauce	8
Mishi Kobe Niku	9
Ikura	10
Queso Cabrales	11
Queso Manchego La Pastora	12
Konbu	13
Tofu	14
Genen Shouyu	15
Pavlova	16
Alice Mutton	17
Carnarvon Tigers	18

**Respuesta:**

```
select p.product_name, p.product_id
from products p
where p.product_id in (select o.product_id from order_details o)
```

22. Obtener los clientes que han realizado un pedido con destino a Argentina:  
Print:

	ABC company_name
1	Cactus Comidas para llevar
2	Océano Atlántico Ltda.
3	Rancho grande

**Respuesta:**

```
select c.company_name
from customers c
where c.customer_id in (select o.customer_id from orders o where o.ship_country = 'Argentina')
```



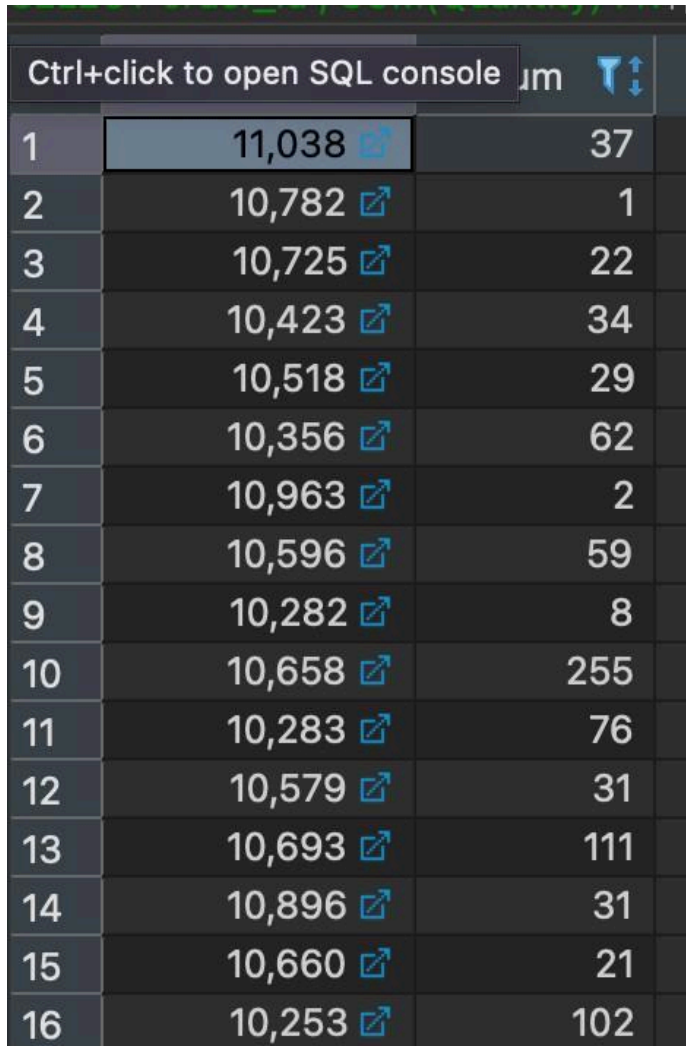




## GROUP BY

24. Obtener la cantidad de productos vendidos por identificador de orden:

Print:



A screenshot of a SQL query result table. The table has three columns: an index column (1-16), a column for the total quantity (sum), and a column for the order ID. The first row is highlighted. A tooltip at the top says 'Ctrl+click to open SQL console'. Each cell in the quantity column has a small blue icon with an arrow pointing out of a box.

		sum
1	11,038	37
2	10,782	1
3	10,725	22
4	10,423	34
5	10,518	29
6	10,356	62
7	10,963	2
8	10,596	59
9	10,282	8
10	10,658	255
11	10,283	76
12	10,579	31
13	10,693	111
14	10,896	31
15	10,660	21
16	10,253	102

**Respuesta:**

```
select od.order_id , sum(od.quantity)
from products p inner join order_details od
on od.product_id = p.product_id
group by od.order_id
```

25. Obtener el promedio de productos en stock por producto  
Print:

	ABC product_name	123 avg
1	Pâté chinois	115
2	Flotemysost	26
3	Camembert Pierrot	19
4	Inlagd Sill	112
5	Thüringer Rostbratwurst	0
6	Gustaf's Knäckebröd	104
7	Carnarvon Tigers	42
8	Tofu	35
9	Röd Kaviar	101
10	Rhönbräu Klosterbier	125
11	Sir Rodney's Scones	3
12	Nord-Ost Matjeshering	10
13	Gorgonzola Telino	0
14	Lakkalikööri	57
15	Sirop d'érable	113
16	Rogede sild	5
17	Rössle Sauerkraut	26

**Respuesta:**

```
select p.product_name, avg(p.units_in_stock )
from products p
group by p.product_name
```

## HAVING

26. Cantidad de productos en stock por producto, donde haya más de 100 productos en stock

Print:

	ABC product_name	123 sum
1	Pâté chinois	115
2	Inlagd Sill	112
3	Gustaf's Knäckebröd	104
4	Röd Kaviar	101
5	Rhönbräu Klosterbier	125
6	Sirop d'érable	113
7	Grandma's Boysenberry Spread	120
8	Sasquatch Ale	111
9	Boston Crab Meat	123
10	Geitost	112

Respuesta:

```
select p.product_name, sum(p.units_in_stock)
from products p
group by p.product_name, p.units_in_stock
having p.units_in_stock > 100
```

27. Obtener el promedio de pedidos por cada compañía y solo mostrar aquellas con un promedio de pedidos superior a 10:

Print:

	ABC company_name	123 averageorders
1	Wilman Kala	10,807.1428571429
2	Magazzini Alimentari Riuniti	10,632.6
3	The Cracker Box	10,800.6666666667
4	Wellington Importadora	10,695.2222222222
5	Let's Stop N Shop	10,729.25
6	Furia Bacalhau e Frutos do Mar	10,552.125
7	Toms Spezialitäten	10,542.6666666667
8	Lehmanns Marktstand	10,617.7333333333
9	Mère Paillard	10,515.8461538462
10	Rattlesnake Canyon Grocery	10,600.1111111111
11	Que Delícia	10,565.4444444444
12	The Big Cheese	10,703.75
13	Hungry Owl All-Night Grocers	10,616.3157894737
14	Königlich Essen	10,629.3571428571
15	North/South	10,775.3333333333
16	GROSELLA-Restaurante	10,526.5
17	Frankenversand	10,621.2666666667
18	Folies gourmandes	10,614.8
19	Around the Horn	10,711.8461538462
20	Split Rail Beer & Ale	10,520.6666666667
21	Comércio Mineiro	10.652.2

**Respuesta:**

```
select c.company_name , avg(o.order_id) as averageorders
from customers c inner join orders o
on c.customer_id = o.customer_id
group by c.company_name
having avg(o.order_id) > 10000
```

## CASE

28. Obtener el nombre del producto y su categoría, pero muestre "Discontinued" en lugar del nombre de la categoría si el producto ha sido descontinuado:

Print:

	ABC product_name	ABC product_category
1	Chai	Discontinued
2	Chang	Discontinued
3	Aniseed Syrup	Condiments
4	Chef Anton's Cajun Seasoning	Condiments
5	Chef Anton's Gumbo Mix	Discontinued
6	Grandma's Boysenberry Spread	Condiments
7	Uncle Bob's Organic Dried Pears	Produce
8	Northwoods Cranberry Sauce	Condiments
9	Mishi Kobe Niku	Discontinued
10	Ikura	Seafood
11	Queso Cabrales	Dairy Products
12	Queso Manchego La Pastora	Dairy Products
13	Konbu	Seafood
14	Tofu	Produce
15	Genen Shouyu	Condiments
16	Pavlova	Confections
17	Alice Mutton	Discontinued
18	Carnarvon Tigers	Seafood
19	Teatime Chocolate Biscuits	Confections
20	Sir Rodney's Marmalade	Confections
21	Sir Rodney's Scones	Confections

Respuesta:

```
select p.product_name,  
case  
    when p.discontinued = 1 then 'Discontinued'  
    else c.category_name  
end as product_category  
from products p inner join categories c  
on p.category_id = c.category_id
```

29. Obtener el nombre del empleado y su título, pero muestre "Gerente de Ventas" en lugar del título si el empleado es un gerente de ventas (Sales Manager):  
Print:

	ABC first_name 🔼🔼	ABC last_name 🔼🔼	ABC job_title 🔼🔼
1	Nancy	Davolio	Sales Representative
2	Andrew	Fuller	Vice President, Sales
3	Janet	Leverling	Sales Representative
4	Margaret	Peacock	Sales Representative
5	Steven	Buchanan	Gerente de Ventas
6	Michael	Suyama	Sales Representative
7	Robert	King	Sales Representative
8	Laura	Callahan	Inside Sales Coordinator
9	Anne	Dodsworth	Sales Representative

Respuesta:

```
select e.first_name, e.last_name,  
case  
    when e.title like '%Manager%' then 'Gerente de Ventas'  
    else e.title  
end as job_title  
from employees e
```