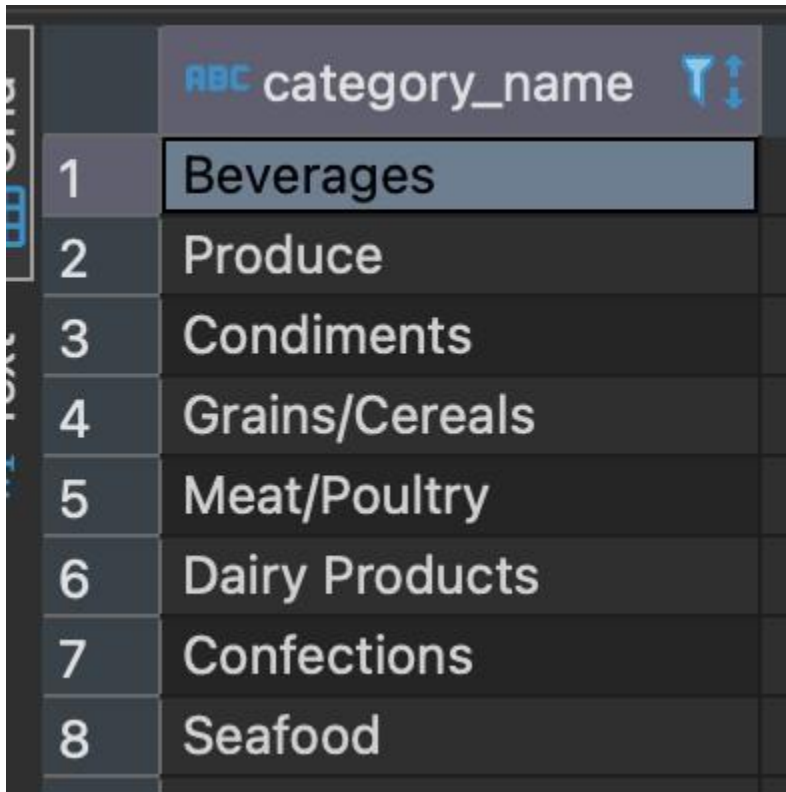


## Ejercicios SQL Bootcamp Data Engineer - EDVAI

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 displayed in a dark-themed interface. The result is a table with two columns: an index column and a 'category\_name' column. The 'category\_name' column has a blue 'ABC' icon and a sort icon (two arrows pointing up and down). The table contains eight rows of data, each with a distinct category name. The first row is highlighted in a lighter blue shade.

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

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

<northwind> Ejercicio\_1\_bootcamp\_SQL\_sql

--SELECT DISTINCT

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

select distinct c.category\_name

from categories c

categories 1

select distinct c.category\_name from categories c Enter a SQL expression to filter results (use Ctrl+Space)

Grilla

Texto

AZ category\_name

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

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

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

<northwind> Ejercicio\_1\_bootcamp\_SQL\_sql

-- 2. Obtener una lista de todas las regiones distintas para los clientes:  
select distinct c.region  
from customers c

customers 1

select distinct c.region from customers c | Enter a SQL expression to filter results (use Ctrl+Space)

Grilla

Texto

AZ 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
17	Co. Cork
18	BC
19	Québec

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

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

```
-- 3. Obtener una lista de todos los títulos de contacto distintos:  
select distinct c.contact_title  
from customers c
```

customers 1 X

select distinct c.contact\_title from customers c | Enter a SQL expression to filter results (use Ctrl+ Space)

Grilla		AZ 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	

## ORDER BY

4. Obterner 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 postal	ABC country
1	OCEAN	Océano Atlántico	Yvonne Moncada	Sales Agent	Ing. Gustavo Moncada 8585	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 Pipps	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	Mario 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	Familia Arquibaldo	Aria Cruz	Marketing Assistant	Rua Orós, 92	Sao Paulo	SP	05442-030	Brazil
16	RICAR	Ricardo Adocica	Janete Limeira	Assistant Sales Manager	Av. Copacabana, 267	Rio de Janeiro	RJ	02389-890	Brazil
17	BOTTM	Bottom-Dollar Products	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 Paillard	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

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

<northwind> Ejercicio\_1\_bootcamp\_SQL\_sql

```

-- 4. Obtener una lista de todos los clientes, ordenados por país:
--select c.customer_id , c.company_name , c.contact_name , c.contac
--9 columnas en el print
select *
from customers c
order by c.country

```

customers 1

select \* from customers c order by c.country
Enter a SQL expression to filter results (use Ctrl+Space)

	A-Z customer_id	A-Z company_name	A-Z contact_name	A-Z contact_title	A-Z address	A-Z c
1	OCEAN	Océano Atlántico Ltda.	Yvonne Moncada	Sales Agent	Ing. Gustavo Moncada 8585 Piso 20-A	Buen
2	CACTU	Cactus Comidas para llevar	Patricio Simpson	Sales Agent	Cerrito 333	Buen
3	RANCH	Rancho grande	Sergio Gutiérrez	Sales Representative	Av. del Libertador 900	Buen
4	FRNSH	Ernst Handel	Roland Mendel	Sales Manager	Kirchgassee 6	Gra7



- Print:

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

```
-- 5. Obtener una lista de todos los pedidos, ordenados por id del empleado
--Ordena por empleado y despues por fecha de ordenes (ascendente) que hayar
--Ejemplo:
--10293 TORTU    1    1996-08-29
--10304 TORTU    1    1996-09-12
select *
from orders o
order by o.employee_id, o.shipped_date
```

**orders** 1 X

Select \* from orders o order by o.employee\_id, o.shipped\_date Enter a SQL expression to filter results (use Ctrl+Space)

	order_id	customer_id	employee_id	order_date	required_date	shipped_date	ship_via	
1	10.258	ERNSH	1	1996-07-17	1996-08-14	1996-07-23	1	
2	10.270	WARTH	1	1996-08-01	1996-08-29	1996-08-02	1	
3	10.275	MAGAA	1	1996-08-07	1996-09-04	1996-08-09	1	
4	10.285	QUICK	1	1996-08-20	1996-09-17	1996-08-26	2	
5	10.292	TRADH	1	1996-08-28	1996-09-25	1996-09-02	2	
6	10.293	TORTU	1	1996-08-29	1996-09-26	1996-09-11	3	
7	10.304	TORTU	1	1996-09-12	1996-10-10	1996-09-17	2	

## INSERT INTO

- Insertar un nuevo cliente en la tabla Customers: Print:

Updated Rows 1

### 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)

	AZ customer_id ↓	AZ company_name	AZ contact_name	AZ contact_title
1	WOLZA	Wolski Zajazd	Zbyszek Piastzeniewicz	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	WISET	Wissotzky & Sons	David Hunsicker	Accounting

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

Updated Rows 1

**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)

	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:

	customer_id	company_name	contact_name	contact_title	address	city	region	postal_code
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]	050
3	ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	[NULL]	050
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]	683
7	BLONP	Blondesddsl père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	[NULL]	670
8	BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid	[NULL]	280
9	BONAP	Bon app'	Laurence Lebihan	Owner	12, rue des Bouche	Marseille	[NULL]	130
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]	050
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]	520
16	DUMON	Du monde entier	Janine Labrune	Owner	67, rue des Cinqua	Nantes	[NULL]	440
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]	801
19	FISSA	FISSA Fabrica Inter. Salchich	Diego Roel	Accounting Manager	C/ Moralzarzal, 86	Madrid	[NULL]	280
20	FOLIG	Folies gourmandes	Martine Rancé	Assistant Sales Agent	184, chaussée de	Lille	[NULL]	590
21	FOLKO	Folk och få HB	Maria Larsson	Owner	Åkeraatan 24	Bräcke	[NULL]	S-84

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

--8. Obtener todos los clientes de la tabla Customers donde el campo Region es null

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

customers 1 x

select \* from customers c where region is null | Enter a SQL expression to filter results (use Ctrl+Space)

	AZ customer_id	AZ company_name	AZ contact_name	AZ contact_title	AZ address	AZ city	AZ region
1	ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	[NULL]
2	ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.	[NULL]
3	ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	[NULL]
4	AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	[NULL]
5	BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå	[NULL]
6	BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim	[NULL]
7	BLONP	Blondesddsl père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	[NULL]
8	BOLID	Bólide Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid	[NULL]
9	BONAP	Bon app'	Laurence Leblan	Owner	12, rue des Bouchers	Marseille	[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

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

```
--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

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



```
--10. Obtener el nombre de la empresa, el nombre del contacto y
--la fecha del pedido de todos los pedidos:
--Trae solamente lo que haga match, lo que no haga match lo excluye.
select c.company_name , c.contact_name , o.order_date
from customers c inner join orders o
on o.customer_id = c.customer_id
```

customers(+) 1 ×

select c.company\_name, c.contact\_name, o.order\_date from  Enter a SQL expression to filter results (use Ctrl+Space)

	AZ company_name	AZ 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	Hill ARION-Ahastos	Carlos Hernández	1996-07-16

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
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

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

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

**order\_details(+)** 1 ×

`select od.order_id, p.product_name, od.discount from order_` Enter a SQL expression to filter results (use Ctrl+Space)

	123 order_id	A-Z product_name	123 discount
1	10.248	Queso Cabrales	0
2	10.248	Singaporean Hokkien Fried Mee	0
3	10.248	Mozzarella di Giovanni	0
4	10.249	Tofu	0
5	10.249	Manjimup Dried Apples	0
6	10.250	Jack's New England Clam Chowder	0

## 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 Delfcia	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

```
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
```

```
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
```

**customers(+)** 1 ×

Select c.customer\_id, c.company\_name, o.order\_id, o.order\_date Enter a SQL expression to filter results (use Ctrl+Space)

	AZ customer_id	AZ company_name	123 order_id	order_date
1	VINET	Vins et alcools Chevalier	10.248	1996-07-04
2	TOMSP	Toms Spezialitäten	10.249	1996-07-05
3	HANAR	Hanari Carnes	10.250	1996-07-08
4	VICTE	Victualles en stock	10.251	1996-07-08
5	SUPRD	Suprêmes délices	10.252	1996-07-09
6	HANAR	Hanari Carnes	10.253	1996-07-10
7	CHOPS	Chop-suey Chinese	10.254	1996-07-11
8	RICSU	Richter Supermarket	10.255	1996-07-12
9	WELLI	Wellington Importadora	10.256	1996-07-15
10	HILAA	HILARION-Abastos	10.257	1996-07-16
11	ERNSH	Ernst Handel	10.258	1996-07-17
12	CENTC	Centro comercial Moctezuma	10.259	1996-07-18
13	OTTIK	Ottilies Käseladen	10.260	1996-07-19
14	QUEDE	Que Delicia	10.261	1996-07-19
15	RATTC	Rattlesnake Canyon Grocery	10.262	1996-07-22
16	FRNSH	Ernst Handel	10.263	1996-07-23

Valor ×  
10248

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:

emplo	territory_id	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

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

```
--13. Obtener el identificador del empleados, apellido, identificador de te
--descripción del territorio de todos los empleados y aquellos que hagan ma
select e.employee_id , e.last_name , et.territory_id , t.territory_descript
from employees e left join employee_territories et
on e.employee_id = et.employee_id
left join territories t
on et.territory_id = t.territory_id
```

employees(+) 1 x

select e.employee\_id, e.last\_name, et.territory\_id, t.territory\_c | Enter a SQL expression to filter results (use Ctrl+Space)

	employee_id	AZ last_name	AZ territory_id	AZ territory_description
1	1	Davolio	06897	Wilton
2	1	Davolio	19713	Neward
3	2	Fuller	01581	Westboro
4	2	Fuller	01730	Bedford
5	2	Fuller	01833	Georgetow
6	2	Fuller	02116	Boston
7	2	Fuller	02139	Cambridge
8	2	Fuller	02184	Braintree
9	2	Fuller	40222	Louisville
10	3	Leverling	30346	Atlanta
11	3	Leverling	31406	Savannah
12	3	Leverling	32859	Orlando
13	3	Leverling	33607	Tampa



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
customer_id: varchar(5)	
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

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





orders(+) 1 ×

	123	order_id	A-Z company_name
806	11.053		Piccolo und mehr
807	11.054		Cactus Comidas para llevar
808	11.055		HILARION-Abastos
809	11.056		Eastern Connection
810	11.057		North/South
811	11.058		Blauer See Delikatessen
812	11.059		Ricardo Adocicados
813	11.060		Franchi S.p.A.
814	11.061		Great Lakes Food Market
815	11.062		Reggiani Caseifici
816	11.063		Hungry Owl All-Night Grocers
817	11.064		Save-a-lot Markets
818	11.065		LILA-Supermercado
819	11.066		White Clover Markets
820	11.067		Drachenblut Delikatessen
821	11.068		Queen Cozinha
822	11.069		Tortuga Restaurante
823	11.070		Lehmanns Marktstand
824	11.071		LILA-Supermercado
825	11.072		Ernst Handel
826	11.073		Pericles Comidas clásicas
827	11.074		Simons bistro
828	11.075		Richter Supermarkt
829	11.076		Bon app'
830	11.077		Rattlesnake Canyon Grocery

## 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

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

```
--15. Obtener el identificador de la orden, y
--el nombre de la compañía de todas las órdenes y aquellos clientes que hag
--Trae lo que haga match y de la tabla de la derecha lo que no haga match
--Hay 3 registros null en la tabla de la derecha (customers) que no hacen m
--aparecen en esta query y no en la anterior con left join
select o.order_id , c.company_name
from orders o right join customers c
on c.customer_id = o.customer_id
```





orders(+) 1 ×

select o.order\_id, c.company\_name from orders o right join c | Enter a SQL expression to filter results (use Ctrl+Space)

	order_id	company_name
809	11.056	Eastern Connection
810	11.057	North/South
811	11.058	Blauer See Delikatessen
812	11.059	Ricardo Adocicados
813	11.060	Franchi S.p.A.
814	11.061	Great Lakes Food Market
815	11.062	Reggiani Caseifici
816	11.063	Hungry Owl All-Night Grocers
817	11.064	Save-a-lot Markets
818	11.065	LILA-Supermercado
819	11.066	White Clover Markets
820	11.067	Drachenblut Delikatessen
821	11.068	Queen Cozinha
822	11.069	Tortuga Restaurante
823	11.070	Lehmanns Marktstand
824	11.071	LILA-Supermercado
825	11.072	Ernst Handel
826	11.073	Pericles Comidas clásicas
827	11.074	Simons bistro
828	11.075	Richter Supermarkt
829	11.076	Bon app'
830	11.077	Rattlesnake Canyon Grocery
831	[NULL]	Wally Editorial
832	[NULL]	Paris spécialités
833	[NULL]	FISSA Fabrica Inter. Salchichas

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:

 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

```
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
```

```
--16. Obtener el nombre de la compañía, y la fecha de la orden de todas las
--y aquellos transportistas que hagan match. Solamente para aquellas ordenes
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
order by o.order_date
```

customers(+) 1 x

select c.company\_name, o.order\_date from customers c right join orders o on c.customer\_id = o.customer\_id Enter a SQL expression to filter results (use Ctrl+Space)

	Grilla	order_date
1	Vins et alcools Chevalier	1996-07-04
2	Toms Spezialitäten	1996-07-05
3	Victuailles en stock	1996-07-08
4	Hanari Carnes	1996-07-08
5	Suprêmes délices	1996-07-09
6	Hanari Carnes	1996-07-10
7	Chop-suey Chinese	1996-07-11
8	Richter Supermarkt	1996-07-12
9	Wellington Importadora	1996-07-15
10	HILARION-Abastos	1996-07-16
11	Ernst Handel	1996-07-17
12	Centro comercial Moctezuma	1996-07-18
13	Que Delícia	1996-07-19
14	Ottilies Käseladen	1996-07-19
15	Rattlesnake Canyon Grocery	1996-07-22
16	Ernst Handel	1996-07-23
17	Folk och fä HB	1996-07-24
18	Blondesddsl père et fils	1996-07-25
19	Wartian Herkku	1996-07-26
20	Frankenversand	1996-07-29
21	GROSELLA-Restaurante	1996-07-30
22	White Clover Markets	1996-07-31
23	Split Rail Beer & Ale	1996-08-01
24	Wartian Herkku	1996-08-01
25	Rattlesnake Canyon Grocery	1996-08-02

## 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

```
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
```

```
--17. Obtener nombre y apellido de los empleados y el identificador de ter
--de todos los empleados y aquellos que hagan match o no de employee_terri
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
```

employees(+) 1 ×

select e.first\_name, e.last\_name, et.territory\_id from employee | Enter a SQL expression to filter results (use Ctrl+Space)

	AZ first_name	AZ last_name	AZ territory_id
1	Nancy	Davolio	06897
2	Nancy	Davolio	19713
3	Andrew	Fuller	01581
4	Andrew	Fuller	01730
5	Andrew	Fuller	01833
6	Andrew	Fuller	02116
7	Andrew	Fuller	02139
8	Andrew	Fuller	02184
9	Andrew	Fuller	40222
10	Janet	Leverling	30346
11	Janet	Leverling	31406
12	Janet	Leverling	32859
13	Janet	Leverling	33607
14	Margaret	Peacock	20852
15	Margaret	Peacock	27403
16	Margaret	Peacock	27511
17	Steven	Buchanan	02903



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

```
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
```



```
--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:
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
```

orders(+) 1 ×

select o.order\_id, od.unit\_price, od.quantity, od.unit\_price \* od.quantity as total

	123 order_id	123 unit_price	123 quantity	123 total
1	10.248	14	12	168
2	10.248	9,8	10	98,0000019073
3	10.248	34,8	5	173,9999961853
4	10.249	18,6	9	167,4000034332
5	10.249	42,4	40	1.696,0000610352
6	10.250	7,7	10	76,9999980927
7	10.250	42,4	35	1.484,0000534058
8	10.250	16,8	15	251,9999885559
9	10.251	16,8	6	100,7999954224
10	10.251	15,6	15	234,000005722
11	10.251	16,8	20	335,9999847412
12	10.252	64,8	40	2.592,0001220703
13	10.252	2	25	50
14	10.252	27,2	40	1.088,0000305176
15	10.253	10	20	200
16	10.253	14,4	42	604,7999839783
17	10.253	16	40	640

Valor ×  
10248

## 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	

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

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

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

Resultados 1 x

 select c.contact\_name as nombre from customers c union select Enter a SQL expression to filter results (use Ctrl+Space)

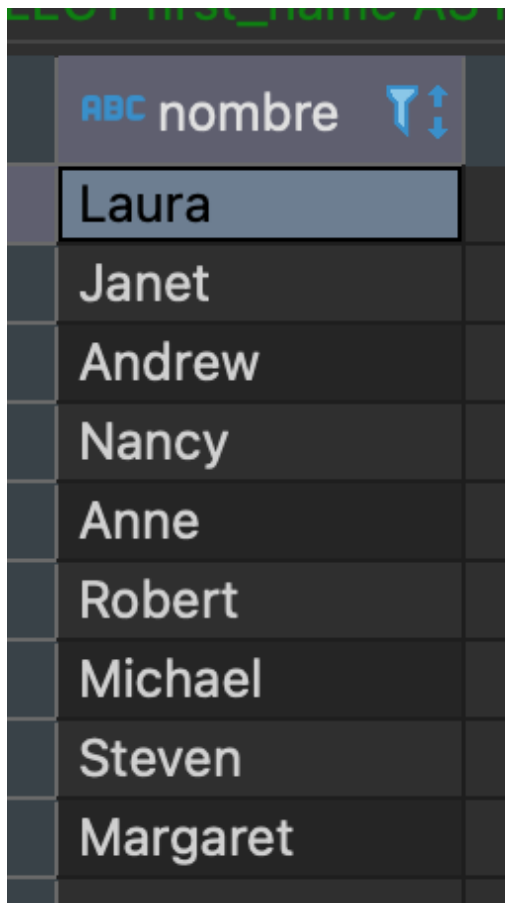
Grilla

Texto

	AZ nombre
1	Heli Süßwaren GmbH & Co. KG
2	Pedro Afonso
3	Philip Cramer
4	Frédérique Citeaux
5	Escargots Nouveaux
6	Paula Wilson
7	Patricio Simpson
8	Helen Bennett
9	Mary Saveley
10	Sergio Gutiérrez
11	Pavlova, Ltd.
12	Anabela Domingues
13	Liz Nixon
14	Art Braunschweiger
15	Leka Trading
16	Patricia McKenna
17	Antonio Moreno
18	Christina Berglund
19	Henriette Pfalzheim
20	John Steel
21	Ann Devon
22	Zaanse Snoepfabriek

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

Print:



nombre
Laura
Janet
Andrew
Nancy
Anne
Robert
Michael
Steven
Margaret

```
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%'
```

```
--select e.first_name as nombre, e.title as puesto
--from employees e
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%'
```

 `select e.first_name as nombre, e.title as puesto from employee`  Enter a SQL expression to filter results (use Ctrl+Space)

	AZ nombre	AZ puesto
1	Andrew	Vice President, Sales
2	Margaret	Sales Representative
3	Steven	Sales Manager
4	Michael	Sales Representative
5	Janet	Sales Representative
6	Robert	Sales Representative
7	Laura	Inside Sales Coordinator
8	Anne	Sales Representative
9	Nancy	Sales Representative

## 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

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

```
--21. Obtener los productos del stock que han sido vendidos:
--usando subquery
select p.product_name, p.product_id
from products p
where p.product_id in (select o.product_id from order_details o)
```

products 1 x

 select p.product\_name, p.product\_id from products p where p |  Enter a SQL expression to filter results (use Ctrl+Space)

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

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

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

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

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

customers 1 x

select c.company\_name from customers c where c.customer\_id = 1 Enter a SQL expression to filter results (use Ctrl+Space)

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

Valor x

Cactus Comidas para llevar





```
select p.product_name
```

```
from products p
```

```
where p.product_id not in (select od.product_id
```

```
from order_details od inner join orders o
```

```
where o.ship_country = 'France')
```

products 1 ×

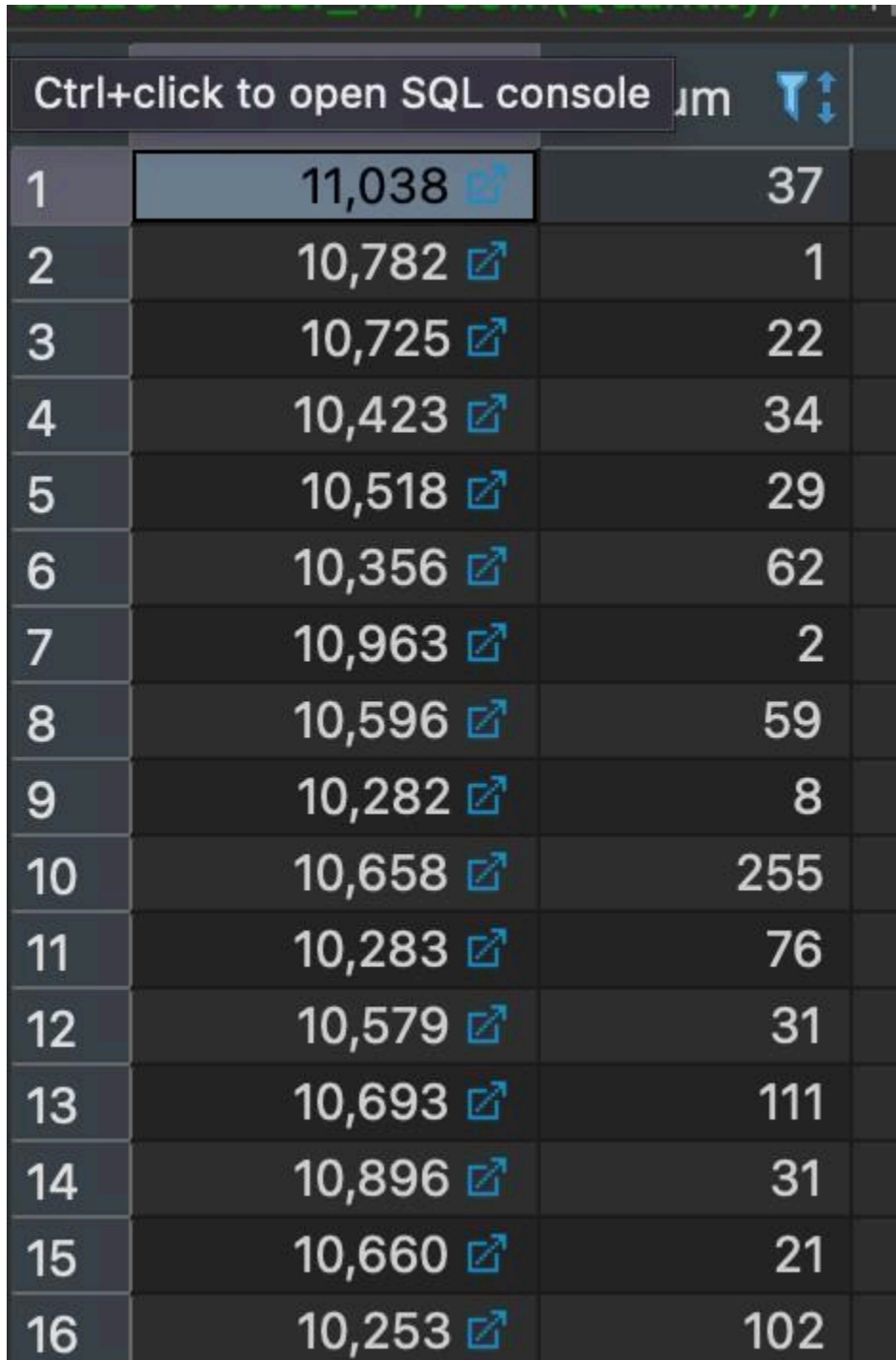
 `select p.product_name from products p where p.product_id n`  Enter a SQL expression to filter results (use Ctrl+Space)

















	A-Z product_name
1	Aniseed Syrup
2	Chef Anton's Gumbo Mix
3	Mishi Kobe Niku
4	Queso Manchego La Pastora
5	Nord-Ost Matjeshering
6	Mascarpone Fabioli
7	Rogede sild
8	Perth Pasties
9	Escargots de Bourgogne
10	Camembert Pierrot
11	Röd Kaviar
12	Original Frankfurter grüne Soße
13	Fernet con Mate

## GROUP BY

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

Print:



		um	
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	

```

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

```

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

```

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

```

order\_details 1 x

select od.order\_id , sum(od.quantity) from products p inner join | Enter a SQL expression to filter results (use Ctrl+Space)

	123 order_id	123 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
17	10.425	30

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

	ABC product_name	122 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

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

--25. Obtener el promedio de productos en stock por producto

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

products 1 ×

select p.product\_name, avg(p.units\_in\_stock ) from products p | Enter a SQL expression to filter results (use Ctrl+Space)

	Grilla	A-Z 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	

## 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

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

```
--26. Cantidad de productos en stock por producto,  
--donde haya más de 100 productos en stock  
select p.product_name, sum(p.units_in_stock)  
from products p  
group by p.product_name, p.units_in_stock  
--group by p.product_id --también funciona  
having p.units_in_stock > 100
```

products 1

select p.product\_name, sum(p.units\_in\_stock) from products | Enter a SQL expression to filter results (use Ctrl+Space)

Grilla

Texto

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



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 Pailarde	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

```

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

```

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

```

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

```

	AZ 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	GROSFIL A-Restaurant	10.526,5

## 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

```
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
```

```
--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:
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
```

products 1 ×

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

	A-Z product_name	A-Z 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	Rancho de la...	Condiments

Valor  
Chai

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

```

select e.first_name, e.last_name,
case
    when e.title like '%Manager%' then 'Gerente de Ventas'
    else e.title --si no pongo else pone NULL
end as job_title
from employees e

```

```
--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):
select e.first_name, e.last_name,
case
    when e.title like '%Manager%' then 'Gerente de Ventas'
    else e.title --si no pongo else pone NULL
end as job_title
from employees e
```

employees 1 ×			
select e.first_name, e.last_name, case when e.title like '%Mana' Enter a SQL expression to filter results (use Ctrl+Space)			
	AZ first_name	AZ last_name	AZ 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