

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:

```
--#1  
select distinct (category_name)  
from categories c
```

Print:

	ABC 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:

```
--#2  
select distinct (region)  
from customers c
```

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

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

```
--#3
select distinct (contact_title)
from customers c
```

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

ORDER BY

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

```
--#4
select *
from customers c
order by country asc
```

Print:

	RBC customer	RBC company	RBC contact_name	RBC contact_title	RBC address	RBC city	RBC ref	RBC postal_code	RBC country
1	OCEAN	Océano Atlántico	Yvonne Moncada	Sales Agent	Ing. Gustavo Moncada 858	Buenos Aires	[NULL]	1010	Argentina
2	CACTU	Cactus Comidas	Patricia 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 Pippes	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 Impo	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 Lanches	André Fonseca	Sales Associate	Av. Brasil, 442	Campinas	SP	04876-786	Brazil
11	QUEDDE	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	COMM1	Comércio Mineiro	Pedro Afonso	Sales Associate	Av. dos Lusíadas, 23	Sao Paulo	SP	05432-043	Brazil
14	TRADH	Tradição Hiperr	Anabela Domingues	Sales Representative	Av. Inês de Castro, 414	Sao Paulo	SP	05634-030	Brazil
15	FAMIA	Família Arquibala	Aria Cruz	Marketing Assistant	Rua Orós, 92	Sao Paulo	SP	05442-030	Brazil
16	RICAR	Ricardo Adocice	Janete Limeira	Assistant Sales /	Av. Copacabana, 267	Rio de Janeiro	RJ	02389-890	Brazil
17	BOTTM	Bottom-Dollar M	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen	BC	T2F 8M4	Canada
18	LAUGB	Laughing Bacchus	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	Vinbællet 34	København	[NULL]	1734	Denmark
21	VAFFE	Vaffeliernet	Palle Ibsen	Sales Manager	Smaaßloget 45	Århus	[NULL]	8200	Denmark

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

```
--#5
select *
from orders o
order by employee_id asc , order_date
```

Print:

	customer_id	employee_id	order_date	required_date	shipped_date	ship_via	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 ROMEY	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 RATTG	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	20.1
21	10_377 SEVES	1	1996-12-09	1997-01-06	1996-12-13	3	22.21

INSERT INTO

6. Insertar un nuevo cliente en la tabla Customers:

```
--#6
insert into customers (customer_id, company_name, contact_name,
contact_title, country)
values ('BCD','Bootcamp','Martin Lopez','Sales_Engineer','Argentina')
```

Print:

Updated Rows 1

7. Insertar una nueva región en la tabla Región:

```
--#7
insert into region (region_id, region_description)
values (6, 'Latam')
```

Print:

Updated Rows 1

NULL -COALESCE

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

```
--#8
select *
from customers c
where c.region isnull
```

Print:

	customer_id	company_name	contact_name	contact_title	address	city	region	phone
1	ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin	[NULL]	12205183404
2	ANATR	Ana Trujillo Emparedados y Comidas	Ana Trujillo	Owner	Avda. de la Constitución 2224	México D.F.	[NULL]	0505-9872
3	ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.	[NULL]	0505-9872
4	AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London	[NULL]	WA1 1B7
5	BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå	[NULL]	96-423-9901
6	BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim	[NULL]	6836-6547
7	BLONP	Blondesdss! père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg	[NULL]	6700-4460
8	BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid	[NULL]	2800-1335
9	BONAP	Bon app!	Laurence Lebihan	Owner	12, rue des Bouchers	Marseille	[NULL]	1300-1375
10	BSBEV	B's Beverages	Victoria Ashworth	Sales Representative	Fauntleroy Circus	London	[NULL]	EC2 4RJ
11	CACTU	Cactus Comidas para llevar	Patricia Simpson	Sales Agent	Cerrito 333	Buenos Aires	[NULL]	1010-4422
12	CENTC	Centro comercial Moctezuma	Francisco Chang	Marketing Manager	Sierras de Granada	México D.F.	[NULL]	0505-9872
13	CHOPS	Chop-suey Chinese	Yang Wang	Owner	Hauptstr. 29	Bern	[NULL]	3012-0512
14	CONSH	Consolidated Holdings	Elizabeth Brown	Sales Representative	Berkeley Gardens	London	[NULL]	WX1 1JL
15	DRACD	Drachenblut Delikatessen	Sven Ottlieb	Order Administrator	Walserweg 21	Aachen	[NULL]	5206-3000
16	DUMON	Du monde entier	Janine Labrune	Owner	67, rue des Cinquante Otages	Nantes	[NULL]	4400-1760
17	EASTC	Eastern Connection	Ann Devon	Sales Agent	35 King George	London	[NULL]	WX3 2AS
18	ERNSH	Ernst Handel	Roland Mendel	Sales Manager	Kirchgasse 6	Graz	[NULL]	8010-5555
19	FISSA	FISSA Fabrica Inter. Salchichas	Diego Roel	Accounting Manager	C/ Moralzarzal, 86	Madrid	[NULL]	2800-9119
20	FOLIG	Folies gourmandes	Martine Rancé	Assistant Sales Agent	184, chaussée de la Muette	Lille	[NULL]	5900-8488
21	FOLKO	Folk och fä HB	Maria Larsson	Owner	Åkerbäcken 24	Bräcke	[NULL]	S-841 50

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:

```
--#9
select product_name , coalesce (unit_price, 10) as price
from products p
```

Print:

	product_name	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

INNER JOIN

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

```
--#10
select c.company_name , c.contact_name, o.order_date
from customers c inner join orders o
on c.customer_id = o.customer_id
```

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	Ottilie's 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

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

```
--#11
select od.order_id , p.product_name , od.discount
from order_details od inner join products p
on od.product_id = p.product_id
```

Print:

order_id	product_name	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

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 :

```
--#12
select c.customer_id , c.company_name, o.order_id , o.order_date
from orders o left join customers c
on c.customer_id = o.customer_id
```

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 fä 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

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:

```
--#13
select et.employee_id , e.last_name , t.territory_id ,
t.territory_description
from employee_territories et
left join territories t on et.territory_id = t.territory_id
left join employees e on et.employee_id = e.employee_id
```

Print:

Ctrl+click to open SQL console

	territory_id	territory_description
1	Davolio	06897
1	Davolio	19713
2	Fuller	01581
2	Fuller	01730
2	Fuller	01833
2	Fuller	02116
2	Fuller	02139
2	Fuller	02184
2	Fuller	40222
3	Leverling	30346
3	Leverling	31406
3	Leverling	32859
3	Leverling	33607
4	Peacock	20852
4	Peacock	27403
4	Peacock	27511
5	Buchanan	02903
5	Buchanan	07960
5	Buchanan	08837
5	Buchanan	10019
5	Buchanan	10038

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

```
--#14
select o.order_id , c.company_name
from orders o left join customers c
on o.customer_id = c.customer_id
```

Print:

order_id	company_name
customer_id: varchar(5)	
10,243	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	Ottilie's Käseladen
10,261	Que Delícia
10,262	Rattlesnake Canyon Grocery
10,263	Ernst Handel

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:

```
--#15
select o.order_id , c.company_name
from customers c right join orders o
on o.customer_id = c.customer_id
```

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	Ottilie's Käseladen
10,261	Que Delícia
10,262	Rattlesnake Canyon Grocery

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:

```
--#16
select s.company_name , o.order_date
from shippers s right join orders o
on s.shipper_id = o.ship_via
where o.order_date between '1996-01-01' AND '1996-12-31'
```

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

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:

```
--#17
select e.first_name , e.last_name , et.territory_id
from employee_territories et full outer join employees e
on et.employee_id = e.employee_id
```

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
Stevens	Buchanan	02993

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:

```
--#18
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
```

Print:

order_id	unit_price	quantity	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

UNION

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

```
--#19
select company_name as nombre
from customers c
union
select company_name
from suppliers s
```

Print:

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 Paillarde
Pavlova, Ltd.
Leka Trading

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

```
--#20
select first_name as nombre
from employees e
union
select first_name
from employees e
where e.employee_id in
    (select reports_to
     from employees e2 )
```

Print:

ABC nombre
Laura
Janet
Andrew
Nancy
Anne
Robert
Michael
Steven
Margaret

SUBQUERIES

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

```
--#21
select p.product_name , p.product_id
from products p
where p.product_id in
    (select distinct (product_id)
     from order_details od)
```

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

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

```
--#22
select company_name
from customers c
where c.customer_id in
    (select customer_id
     from orders o where ship_country = 'Argentina')
```

Print:

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

23. Obtener el nombre de los productos que nunca han sido pedidos por clientes de Francia:

```
--#23
select product_name
from products p
where product_id not in
    (select od.product_id
     from orders o
      left join customers c on o.customer_id = c.customer_id
      left join order_details od  on od.order_id = o.order_id
     where c.country = 'France')
```

Print:

	ABC 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	

GROUP BY

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

```
--#24  
select order_id , sum(quantity)  
from order_details od  
group by order_id
```

Print:

The screenshot shows a database query results window with a dark theme. At the top, there is a header bar with the text "Ctrl+click to open SQL console" and a refresh icon. Below the header is a table with 16 rows, each containing two columns of data. The first column is labeled "1" through "16" and the second column contains large numbers representing quantities. The third column, which appears to be a primary key or identifier, has values ranging from 37 down to 102. The table has a light gray background with dark gray horizontal and vertical grid lines.

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

25. Obtener el promedio de productos en stock por producto

```
--#25
select product_name , avg(units_in_stock)
from products p
group by product_name
```

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'éable	113
16	Rogede sild	5
17	Rössle Sauerkraut	26

HAVING

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

```
--#26
select product_name , sum(units_in_stock)
from products p
group by product_name
having sum(units_in_stock) > 100
```

Print:

	product_name	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'éable	113
7	Grandma's Boysenberry Spread	120
8	Sasquatch Ale	111
9	Boston Crab Meat	123
10	Geitost	112

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

```
--#27
select c.company_name , avg(o.order_id) as averageorders
from orders o left join customers c
on o.customer_id = c.customer_id
group by c.company_name
having avg(o.order_id) > 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 Paillarde	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

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:

```
--#28
select p.product_name ,
case when p.discontinued = 1 then 'Discontinued'
else c.category_name
end as product_category
from products p left join categories c
on p.category_id = c.category_id
```

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 Rodnev's Scones	Confections

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):

```
--#29
select first_name , last_name ,
case when title = 'Sales Manager' then 'Gerente de Ventas'
else title
end as job_title
from employees e
```

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