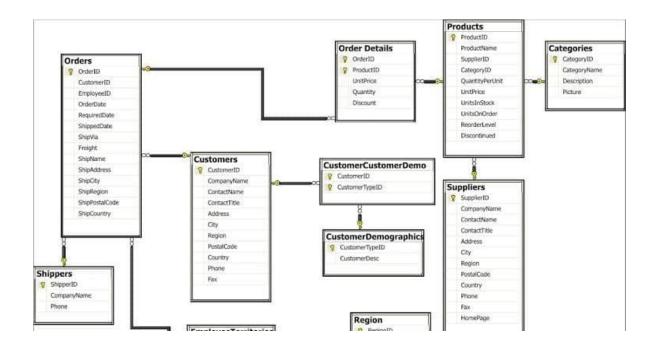# Materia: Seguridad de Base de Datos

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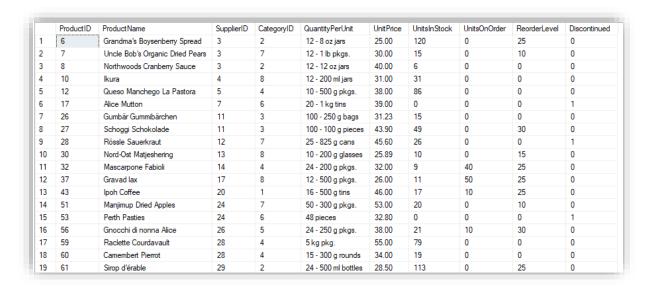
1. Select all clients that do not have FAX and a Region, from the Country of Germany.

```sql
select * from Customers where FAX is NULL AND Country='Germany'
```

	CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone	Fax
1	KOENE	Königlich Essen	Philip Cramer	Sales Associate	Maubelstr. 90	Brandenburg	NULL	14776	Germany	0555-09876	NULL
2	MORGK	Morgenstern Gesundkost	Alexander Feuer	Marketing Assistant	Heerstr. 22	Leipzig	NULL	04179	Germany	0342-023176	NULL
3	QUICK	QUICK-Stop	Horst Kloss	Accounting Manager	Taucherstraße 10	Cunewalde	NULL	01307	Germany	0372-035188	NULL

2. Show products whose price ranges between 25 and 55 dollars.

```sql
select * from Products where UnitPrice between 25 AND 55
go
```

	ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25.00	120	0	25	0
2	7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	30.00	15	0	10	0
3	8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40.00	6	0	0	0
4	10	Ikura	4	8	12 - 200 ml jars	31.00	31	0	0	0
5	12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	38.00	86	0	0	0
6	17	Alice Mutton	7	6	20 - 1 kg tins	39.00	0	0	0	1
7	26	Gumbär Gummibärchen	11	3	100 - 250 g bags	31.23	15	0	0	0
8	27	Schoggi Schokolade	11	3	100 - 100 g pieces	43.90	49	0	30	0
9	28	Rössle Sauerkraut	12	7	25 - 825 g cans	45.60	26	0	0	1
10	30	Nord-Ost Matjeshering	13	8	10 - 200 g glasses	25.89	10	0	15	0
11	32	Mascarpone Fabioli	14	4	24 - 200 g pkgs.	32.00	9	40	25	0
12	37	Gravad lax	17	8	12 - 500 g pkgs.	26.00	11	50	25	0
13	43	Ipoh Coffee	20	1	16 - 500 g tins	46.00	17	10	25	0
14	51	Manjimup Dried Apples	24	7	50 - 300 g pkgs.	53.00	20	0	10	0
15	53	Perth Pasties	24	6	48 pieces	32.80	0	0	0	1
16	56	Gnocchi di nonna Alice	26	5	24 - 250 g pkgs.	38.00	21	10	30	0
17	59	Raclette Courdavault	28	4	5 kg pkg.	55.00	79	0	0	0
18	60	Camembert Pierrot	28	4	15 - 300 g rounds	34.00	19	0	0	0
19	61	Sirop d'érable	29	2	24 - 500 ml bottles	28.50	113	0	25	0

3. Select OrderDate, the ProductName and the UnitPrice of the order made by CustomerID 635.

```sql
select
          Orders.OrderDate,
          (select ProductName from Products where [Order
Details].ProductID=Products.ProductID)
          as 'Nombre Producto',
          [Order Details].UnitPrice
from Orders
inner join [Order Details] on [Order Details].OrderID=Orders.OrderID
where CustomerID='ALFKI'
go
```

	OrderDate	Nombre Producto	UnitPrice
1	1997-08-25 00:00:00.000	Rössle Sauerkraut	45.60
2	1997-08-25 00:00:00.000	Chartreuse verte	18.00
3	1997-08-25 00:00:00.000	Spegesild	12.00
4	1997-10-03 00:00:00.000	Vegie-spread	43.90
5	1997-10-13 00:00:00.000	Aniseed Syrup	10.00
6	1997-10-13 00:00:00.000	Lakkalikööri	18.00
7	1998-01-15 00:00:00.000	Raclette Courdavault	55.00
8	1998-01-15 00:00:00.000	Original Frankfurter grüne Soße	13.00
9	1998-03-16 00:00:00.000	Grandma's Boysenberry Spread	25.00
10	1998-03-16 00:00:00.000	Rössle Sauerkraut	45.60
11	1998-04-09 00:00:00.000	Escargots de Bourgogne	13.25
12	1998-04-09 00:00:00.000	Flotemysost	21.50

4. Select the product name and the CompanyName for all Customers who ordered Product Name 'Gula Malacca'.

```
select Products.ProductName, (select Customers.CompanyName from Customers where
Orders.CustomerID=Customers.CustomerID) from [Order Details]
inner join Products on [Order Details].ProductID=Products.ProductID
inner join Orders on Orders.OrderID=[Order Details].OrderID
where ProductName='Gula Malacca'
```

	ProductName	(No column name)
1	Gula Malacca	Berglunds snabbköp
2	Gula Malacca	Bottom-Dollar Markets
3	Gula Malacca	Bottom-Dollar Markets
4	Gula Malacca	Comércio Mineiro
5	Gula Malacca	Ernst Handel
6	Gula Malacca	Folk och fä HB
7	Gula Malacca	Furia Bacalhau e Frutos do Mar
8	Gula Malacca	Furia Bacalhau e Frutos do Mar
9	Gula Malacca	Great Lakes Food Market
10	Gula Malacca	HILARION-Abastos
11	Gula Malacca	La maison d'Asie
12	Gula Malacca	Lehmanns Marktstand
13	Gula Malacca	Maison Dewey
14	Gula Malacca	Old World Delicatessen
15	Gula Malacca	Que Delícia
16	Gula Malacca	QUICK-Stop
17	Gula Malacca	QUICK-Stop
18	Gula Malacca	QUICK-Stop
19	Gula Malacca	Save-a-lot Markets
20	Gula Malacca	The Cracker Box
21	Gula Malacca	Tortuga Restaurante
22	Gula Malacca	Tortuga Restaurante
23	Gula Malacca	Tortuga Restaurante
24	Gula Malacca	White Clover Markets

5. Show products that belong to the category condiments and dairy products.

```
select ProductName from Products inner join Categories on
Products.CategoryID=Categories.CategoryID
where Categories.CategoryName='condiments'  OR Categories.CategoryName='Dairy
Products'
```

	ProductName
1	Aniseed Syrup
2	Chef Anton's Cajun Seasoning
3	Chef Anton's Gumbo Mix
4	Grandma's Boysenberry Spread
5	Northwoods Cranberry Sauce
6	Genen Shouyu
7	Gula Malacca
8	Sirop d'érable
9	Vegie-spread
10	Louisiana Fiery Hot Pepper S...
11	Louisiana Hot Spiced Okra
12	Original Frankfurter grüne Soße
13	Queso Cabrales
14	Queso Manchego La Pastora
15	Gorgonzola Telino
16	Mascarpone Fabioli
17	Geitost
18	Raclette Courdavault
19	Camembert Pierrot
20	Gudbrandsdalsost
21	Flotemysost
22	Mozzarella di Giovanni

6. Select the product description for culture 'fr' for product.

```sql
select ProductName from Products inner join Categories
on Products.CategoryID=Categories.CategoryID
where Categories.Description like '%fr%'
```

	ProductName
1	Uncle Bob's Organic Dried Pears
2	Tofu
3	Rössle Sauerkraut
4	Manjimup Dried Apples
5	Longlife Tofu

7. Show the number, maximum and minimum by price category.

8. Select use the SubTotal (UnitPrice and Quantity) value in Sale Order detail to list orders from the largest to the smallest. For each order show the Company Name and the SubTotal and the total weight of the order.

9. Select the CompanyName for all customers with an address in City 'Dallas'.

```
select CompanyName from Customers where City='dallas'
```


10. Select how many products of ProductCategory 'Seafood' have been sold to an address in 'USA'?

```
select SUM(Quantity) 'Cantidad de Productos Vendidos' from [Order Details]
inner join Products on [Order Details].ProductID=Products.ProductID
inner join Orders on [Order Details].OrderID=Orders.OrderID
where [Order Details].ProductID=(select CategoryID from Categories where
CategoryName='Seafood') and Orders.ShipCountry='USA'
group by [Order Details].ProductID
```


11. Show accounts orders each employee has made (show the name and surname in a single column and number of orders).

```
select
        OrderID,
        (select Employees.FirstName+' '+Employees.LastName from Employees where
Employees.EmployeeID=Orders.EmployeeID) 'Nombre'
 from Orders
 order by EmployeeID
```

	OrderID	Nombre				
1	10258	Nancy Davolio		127	10295	Andrew Fuller
2	10270	Nancy Davolio		128	10300	Andrew Fuller
3	10275	Nancy Davolio		129	10307	Andrew Fuller
4	10285	Nancy Davolio		130	10312	Andrew Fuller
5	10292	Nancy Davolio		131	10313	Andrew Fuller
6	10293	Nancy Davolio		132	10327	Andrew Fuller
7	10304	Nancy Davolio		133	10339	Andrew Fuller
8	10306	Nancy Davolio		134	10345	Andrew Fuller
9	10311	Nancy Davolio		135	10368	Andrew Fuller
10	10314	Nancy Davolio		136	10379	Andrew Fuller
11	10316	Nancy Davolio		137	10388	Andrew Fuller
12	10325	Nancy Davolio		138	10392	Andrew Fuller
13	10340	Nancy Davolio		139	10398	Andrew Fuller
14	10351	Nancy Davolio		140	10404	Andrew Fuller
15	10357	Nancy Davolio		141	10407	Andrew Fuller
				142	10414	Andrew Fuller

12. Show the quantity of products by category, selecting the name of the category and the number of products of this category, as well as the accounting of its price for the stock of all products and their existence.

```sql
select SUM(UnitsInStock) as 'Stock',
(select CategoryName from Categories where
Products.CategoryID=Categories.CategoryID) as 'Nombre Categoria',
count(Products.ProductID) 'Total de productos'
from Products inner join Categories
on Categories.CategoryID=Products.CategoryID
group by Products.CategoryID
```

	Stock	Nombre Categoria	Total de productos
1	559	Beverages	12
2	507	Condiments	12
3	386	Confections	13
4	393	Dairy Products	10
5	308	Grains/Cereals	7
6	165	Meat/Poultry	6
7	100	Produce	5
8	701	Seafood	12

13. Shows the name of the employee, the customer, and the products of your order whose discount on your ticket is greater than 10.

```sql
select (select Employees.FirstName+' '+LastName from Employees where
Employees.EmployeeID=Orders.EmployeeID) as 'nombre Empleado',
```

```sql
           (select Customers.CompanyName from Customers where
Customers.CustomerID=Orders.CustomerID) as 'Nombre Compañia',
           (select ProductName from Products where [Order
Details].ProductID=Products.ProductID) as 'Nombre Producto'
from [Order Details] inner join Orders on [Order Details].OrderID=Orders.OrderID
where [Order Details].Discount>0.10
```

	nombre Empleado	Nombre Compañia	Nombre Producto
1	Margaret Peacock	Hanari Carnes	Manjimup Dried Apples
2	Margaret Peacock	Hanari Carnes	Louisiana Fiery Hot Pepper Sauce
3	Steven Buchanan	Chop-suey Chinese	Guaraná Fantástica
4	Steven Buchanan	Chop-suey Chinese	Pâté chinois
5	Nancy Davolio	Ernst Handel	Chang
6	Nancy Davolio	Ernst Handel	Chef Anton's Gumbo Mix
7	Nancy Davolio	Ernst Handel	Mascarpone Fabioli
8	Margaret Peacock	Ottilies Käseladen	Jack's New England Clam Chowder
9	Margaret Peacock	Ottilies Käseladen	Tarte au sucre
10	Margaret Peacock	Ottilies Käseladen	Outback Lager
11	Laura Callahan	Rattlesnake Canyon Grocery	Chef Anton's Gumbo Mix
12	Anne Dodsworth	Ernst Handel	Pavlova
13	Anne Dodsworth	Ernst Handel	Nord-Ost Matjeshering
14	Anne Dodsworth	Ernst Handel	Longlife Tofu
15	Michael Suyama	Folk och fä HB	Jack's New England Clam Chowder
16	Margaret Peacock	Frankenversand	Raclette Courdavault
17	Margaret Peacock	Frankenversand	Lakkalikööri
18	Laura Callahan	Lehmanns Marktstand	Alice Mutton
19	Margaret Peacock	Lehmanns Marktstand	Schoggi Schokolade
20	Margaret Peacock	Lehmanns Marktstand	Camembert Pierrot
21	Margaret Peacock	Lehmanns Marktstand	Laughing Lumberjack Lager
22	Nancy Davolio	QUICK-Stop	Chai
23	Nancy Davolio	QUICK-Stop	Boston Crab Meat
24	Nancy Davolio	QUICK-Stop	Perth Pasties