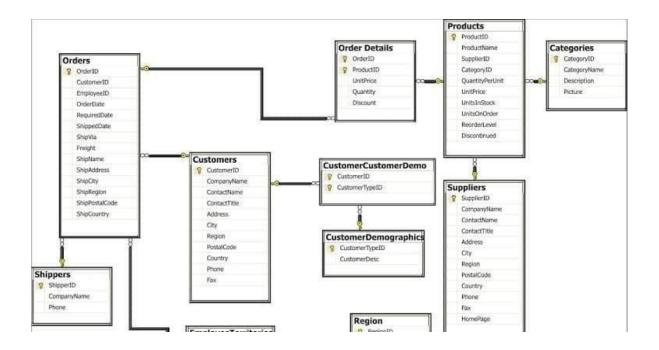# Materia: Seguridad de Base de Datos

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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 (Region IS NULL)
AND Country='Germany'
```

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

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

```sql
SELECT * FROM Products WHERE UnitPrice >= 25 and UnitPrice <=55
```

| | 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 |

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

```sql
SELECT
        Orders.OrderDate,
        Products.ProductName,
        Products.UnitPrice
FROM Orders, [Order Details], Products
WHERE
        Orders.CustomerID='ALFKI'
        AND [Order Details].OrderID=Orders.OrderID
        AND [Order Details].ProductID=Products.ProductID
ORDER BY Products.ProductName
```

| | OrderDate | ProductName | UnitPrice |
|---|---|---|---|
| 1 | 1997-10-13 00:00:00.000 | Aniseed Syrup | 10.00 |
| 2 | 1997-08-25 00:00:00.000 | Chartreuse verte | 18.00 |
| 3 | 1998-04-09 00:00:00.000 | Escargots de Bourgogne | 13.25 |
| 4 | 1998-04-09 00:00:00.000 | Flotemysost | 21.50 |
| 5 | 1998-03-16 00:00:00.000 | Grandma's Boysenberry Spread | 25.00 |
| 6 | 1997-10-13 00:00:00.000 | Lakkalikööri | 18.00 |
| 7 | 1998-01-15 00:00:00.000 | Original Frankfurter grüne Soße | 13.00 |
| 8 | 1998-01-15 00:00:00.000 | Raclette Courdavault | 55.00 |

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

```sql
SELECT
        ProductName 'Nombre del producto',
        Suppliers.CompanyName 'Provedor',
        Customers.ContactName 'Cliente'
```

```sql
FROM Customers
        INNER JOIN Orders ON Customers.CustomerID=Orders.CustomerID
        INNER JOIN [Order Details] ON Orders.OrderID=[Order Details].OrderID
        INNER JOIN Products ON [Order Details].ProductID=Products.ProductID
        INNER JOIN Suppliers ON Products.SupplierID= Suppliers.SupplierID
WHERE ProductName='Gula Malacca'
```

|   | Nombre del producto | Provedor | Cliente |
|---|---|---|---|
| 1 | Gula Malacca | Leka Trading | Liu Wong |
| 2 | Gula Malacca | Leka Trading | Howard Snyder |
| 3 | Gula Malacca | Leka Trading | Miguel Angel Paolino |
| 4 | Gula Malacca | Leka Trading | Horst Kloss |
| 5 | Gula Malacca | Leka Trading | Horst Kloss |
| 6 | Gula Malacca | Leka Trading | Horst Kloss |
| 7 | Gula Malacca | Leka Trading | Carlos Hernández |
| 8 | Gula Malacca | Leka Trading | Annette Roulet |

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

```sql
SELECT
        Products.ProductName 'Nombre del Producto',
        Categories.CategoryName 'Categoria',
        Suppliers.CompanyName 'Nombre del provedor'
FROM Products
        INNER JOIN Categories ON Products.CategoryID=Categories.CategoryID
        INNER JOIN Suppliers ON Products.SupplierID=Suppliers.SupplierID
WHERE Categories.CategoryName='Condiments' or Categories.CategoryName='Dairy Products'
ORDER BY Products.ProductName
```

|   | Nombre del Producto | Categoria | Nombre del provedor |
|---|---|---|---|
| 1 | Aniseed Syrup | Condiments | Exotic Liquids |
| 2 | Camembert Pierrot | Dairy Products | Gai pâturage |
| 3 | Chef Anton's Cajun Seasoning | Condiments | New Orleans Cajun Delights |
| 4 | Chef Anton's Gumbo Mix | Condiments | New Orleans Cajun Delights |
| 5 | Flotemysost | Dairy Products | Norske Meierier |
| 6 | Geitost | Dairy Products | Norske Meierier |
| 7 | Genen Shouyu | Condiments | Mayumi's |
| 8 | Gorgonzola Telino | Dairy Products | Formaggi Fortini s.r.l. |

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

```sql
SELECT Categories.[Description]
FROM Products
        INNER JOIN Categories ON Categories.CategoryID=Products.CategoryID
WHERE Products.ProductName like '%fr%'
```

|   | Description |
|---|---|
| 1 | Breads, crackers, pasta, and cereal |
| 2 | Sweet and savory sauces, relishes, spreads, and ... |

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

```sql
SELECT
        Products.ProductName 'Nombre producto',
        Categories.CategoryName 'Categoria',
        Products.unitprice 'Precio Unitario',
        Customers.CompanyName 'Provedor',
        (Employees.Firstname +' '+Employees.LastName) 'Nombre empleado'
FROM [Order Details]
        INNER JOIN Products ON [Order Details].ProductID=Products.ProductID
        INNER JOIN Categories  ON Categories.CategoryID=Products.CategoryID
        INNER JOIN Orders ON [Order Details].OrderID=Orders.OrderID
        INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID
        INNER JOIN Employees ON Orders.EmployeeID=Employees.EmployeeID
WHERE Products.unitprice = (SELECT MIN(unitprice) FROM products)
        OR Products.UnitPrice = (SELECT MAX (unitprice) FROM products)
```

| | Nombre producto | Categoria | Precio Unitario | Provedor | Nombre empleado |
|---|---|---|---|---|---|
| 1 | Geitost | Dairy Products | 2.50 | Suprêmes délices | Margaret Peacock |
| 2 | Geitost | Dairy Products | 2.50 | White Clover Markets | Steven Buchanan |
| 3 | Geitost | Dairy Products | 2.50 | Split Rail Beer & Ale | Michael Suyama |
| 4 | Geitost | Dairy Products | 2.50 | QUICK-Stop | Janet Leverling |
| 5 | Côte de Blaye | Beverages | 263.50 | Split Rail Beer & Ale | Margaret Peacock |
| 6 | Geitost | Dairy Products | 2.50 | Simons bistro | Robert King |
| 7 | Côte de Blaye | Beverages | 263.50 | Ernst Handel | Nancy Davolio |
| 8 | Côte de Blaye | Beverages | 263.50 | Piccolo und mehr | Robert King |

**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.**

```sql
SELECT
        Customers.CompanyName,
        ([Order Details].UnitPrice * [Order Details].Quantity) 'Subtotal',
        (([Order Details].UnitPrice * [Order Details].Quantity) - [Order
Details].Discount) 'Total'
FROM [Order Details]
INNER JOIN Orders ON [Order Details].OrderID = Orders.OrderID
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
ORDER BY 'Total'
```

| | CompanyName | Subtotal | Total |
|---|---|---|---|
| 1 | Consolidated Holdings | 4.80 | 4.8 |
| 2 | Romero y tomillo | 7.30 | 7.3 |
| 3 | Wellington Importadora | 9.60 | 9.5 |
| 4 | Victuailles en stock | 10.00 | 9.85 |
| 5 | Cactus Comidas para llevar | 12.50 | 12.5 |
| 6 | Frankenversand | 13.50 | 13.5 |
| 7 | Suprêmes délices | 14.00 | 14 |
| 8 | Rattlesnake Canyon Grocery | 14.00 | 14 |

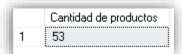**9. Select the CompanyName for all customers with an address in City 'London'.**

```sql
SELECT
        CompanyName,
        [Address]
FROM Customers
WHERE City='London'
```

| | CompanyName | Address |
|---|---|---|
| 1 | Around the Horn | 120 Hanover Sq. |
| 2 | B's Beverages | Fauntleroy Circus |
| 3 | Consolidated Holdings | Berkeley Gardens 12  Brewery |
| 4 | Eastern Connection | 35 King George |
| 5 | North/South | South House 300 Queensbridge |
| 6 | Seven Seas Imports | 90 Wadhurst Rd. |

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

```sql
SELECT COUNT(Customers.Country) AS 'Cantidad de productos'
FROM Products
        INNER JOIN Categories ON Products.CategoryID = Categories.CategoryID
        INNER JOIN [Order Details] ON Products.ProductID =[Order Details].ProductID
        INNER JOIN Orders ON [Order Details].OrderID = Orders.OrderID
        INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
WHERE Orders.ShipCountry= 'USA'
        AND Categories.CategoryName = 'Seafood'
```

| | Cantidad de productos |
|---|---|
| 1 | 53 |

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

```sql
SELECT
        COUNT(*) 'Numero de Ordenes',
        CONCAT(Employees.FirstName,' ', Employees.LastName) 'Nombre completo'
FROM Orders
        INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
GROUP BY Employees.FirstName,Employees.LastName
```

**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 Categories.CategoryName,
       COUNT(Products.UnitsInStock) 'Cantidad',
       SUM(Products.UnitPrice * Products.UnitsInStock) 'Valor Total'
FROM Categories
       INNER JOIN Products ON Categories.CategoryID=Products.CategoryID
GROUP BY Categories.CategoryName
```



**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 CONCAT(Employees.FirstName,' ', Employees.LastName) as 'Empleado' ,
              Products.ProductName,
              Customers.ContactName as 'Cliente',
              [Order Details].Discount
FROM Products
     INNER JOIN Categories ON Products.CategoryID = Categories.CategoryID
     INNER JOIN [Order Details] ON Products.ProductID =[Order Details].ProductID
     INNER JOIN Orders ON [Order Details].OrderID = Orders.OrderID
     INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
     INNER JOIN Employees ON Orders.EmployeeID = Employees.EmployeeID
GROUP BY Employees.FirstName,
              Employees.LastName,
              Products.ProductName,
              Customers.ContactName,
```

```
        [Order Details].Discount
HAVING ([Order Details].Discount) >.1
```



| | Empleado | ProductName | Cliente | Discount |
|---|---|---|---|---|
| 1 | Andrew Fuller | Alice Mutton | Georg Pipps | 0.2 |
| 2 | Andrew Fuller | Camembert Pierrot | Horst Kloss | 0.15 |
| 3 | Andrew Fuller | Camembert Pierrot | Pirkko Koskitalo | 0.15 |
| 4 | Andrew Fuller | Carnarvon Tigers | Georg Pipps | 0.2 |
| 5 | Andrew Fuller | Carnarvon Tigers | Horst Kloss | 0.2 |
| 6 | Andrew Fuller | Chai | Renate Messner | 0.15 |
| 7 | Andrew Fuller | Chang | Giovanni Rovelli | 0.15 |
| 8 | Andrew Fuller | Chang | Maria Larsson | 0.2 |
| 9 | Andrew Fuller | Chang | Renate Messner | 0.15 |
| 10 | Andrew Fuller | Chef Anton's Cajun Seasoning | Paula Wilson | 0.25 |
| 11 | Andrew Fuller | Escargots de Bourgogne | Maria Larsson | 0.2 |
| 12 | Andrew Fuller | Filo Mix | Hari Kumar | 0.2 |
| 13 | Andrew Fuller | Geitost | Horst Kloss | 0.15 |