1. We need to count all *Companies* aggregated by *Country* which meets the following conditions, sorted by *Country*:

* There is data for Region;
* Can be contacted by Fax;
* The ID of Customer starts with ‘A’, ‘B’ or ‘CA’;
* The Country is not one of Germany, Argentina or Spain and does not starts with ‘U’ and has 3 letters;

**SELECT** **COUNT**(c.CompanyName), c.Country

**FROM** customers c

**WHERE** (c.Region **IS** **NOT** **NULL** **AND** c.Fax **IS** **NOT** **NULL**) **AND** ((c.CustomerID **LIKE** 'A%') **OR** (c.CustomerID **LIKE** 'B%') **OR** (c.CustomerID **LIKE** 'CA%')) **AND** (c.Country **NOT** **IN** ('germany','argentina', 'spain')) **AND** (c.Country **NOT** **LIKE** 'U%') **AND** (c.Country **LIKE** '\_\_\_')

**GROUP** **BY** c.Country

**ORDER** **BY** c.Country;

Во овој случај резутатот е нула, доколку државата треба да има 3 букви

Доколку не треба да има три букви (дава 1 резултат =Canada) (ова го ставив дополнително, затоа што не ми беше јасно што се бара поточно

**SELECT** **COUNT**(c.CompanyName), c.Country

**FROM** customers c

**WHERE** (c.Region **IS** **NOT** **NULL** **AND** c.Fax **IS** **NOT** **NULL**) **AND** ((c.CustomerID **LIKE** 'A%') **OR** (c.CustomerID **LIKE** 'B%') **OR** (c.CustomerID **LIKE** 'CA%')) **AND** (c.Country **NOT** **IN** ('germany','argentina', 'spain')) **AND** (c.Country **NOT** **LIKE** 'U%') **AND** (c.Country **NOT** **LIKE** '\_\_\_')

**GROUP** **BY** c.Country

**ORDER** **BY** c.Country;

We need data for ID of Supplier, Name of Company, Name of Contact, Address and City for the first 10 records ordered alphabetically from the last word of the alphabet, which will meet the following conditions:

* There is no data for Region
* There is no data for Homepage
* Postal code starts with 1, 2 or 3
* The country does not start with U

**SELECT** s.SupplierID, s.CompanyName, s.ContactName,s.Address, s.City

**FROM** suppliers s

**WHERE** (s.Region **IS** **NULL** **AND** s.HomePage **IS** **NULL**) **AND** ((s.PostalCode **LIKE** '1%') **OR** (s.PostalCode **LIKE** '2%') **OR** (s.PostalCode **LIKE** '3%')) **AND** (s.Country **NOT** **LIKE** 'U%')

**ORDER** **BY** s.CompanyName **desc**

**LIMIT** 10;

We need to count all Orders and also make summation of their total unit price, where they meet the following conditions:

* There is discount
* The ID of the product is from 3 to 9
* There are no more than 30 pieces in stock
* The ID of the orders is from 101\*\* to 106\*\*
* **SELECT** **COUNT**(orderid) **AS** OrderCount, **SUM**(unitprice) **AS** SumPrice
* **FROM** `order details`
* **WHERE** discount <>0 **AND** (productid **BETWEEN** 3 **AND** 9) **AND** (quantity <=30) **AND** (orderid **BETWEEN** 10100 **and** 10699);

We need to list to minimum value, the maximum value and the average value of Freight, for orders that fulfill the following conditions

* Date of shipment is between 01.01.1994 to 01.01.1996
* They are shipped via 1 or 2
* There is data in Region

**SELECT** **MIN**(o.Freight) **AS** MinFreight, **MAX**(o.Freight) **AS** MaxFright, **AVG**(o.Freight) **AS** AverageFreight

**FROM** orders o

**WHERE** (o.ShippedDate **BETWEEN** '1994-01-01' **AND** '1996-01-01') **AND** (o.ShipVia =1 **OR** o.ShipVia= 2) **AND** (o.ShipRegion **IS** **NOT** **NULL**);

1. **INNER JOIN**

We need to return list of: ID of Order, ID of Customer and ID of Employee from orders table, and ID of Product and also Quantity from order details table, only where there is match for the order.

**SELECT** o.OrderID, o.CustomerID, o.EmployeeID, Productid, Quantity

**FROM** orders o

**inner** **JOIN** `order details` **ON** o.OrderID=`order details`.orderid;

1. **LEFT JOIN**

We need to select all Companies from customer table and return list of all orders they might have, sorted by Name of Company.

**SELECT** c.CompanyName, o.OrderID

**FROM** customers c

**LEFT** **JOIN** orders o **ON** c.CustomerID=o.CustomerID;

1. **RIGHT JOIN**

We need to select the ID of Order, Employee Last Name, Employee First Name and Date of Order, for all orders which match the ID of Employee.

**SELECT** o.OrderID, e.LastName, e.FirstName, o.OrderDate

**FROM** orders o

**RIGHT** **JOIN** employees e **ON** o.EmployeeID=e.EmployeeID;

1. **FULL OUTER JOIN (UNION)**

We need to list Company Name, Contact Name and Order ID for all records from customers table and all records from orders table which can be mapped by the ID of Customer.

**SELECT** c.CompanyName, c.ContactName,o.OrderID

**FROM** customers c

**LEFT** **JOIN** orders o **ON** c.CustomerID=o.CustomerID

**UNION**

**SELECT** c.CompanyName, c.ContactName, o.OrderID

**FROM** customers c

**RIGHT** **JOIN** orders o **ON** o.CustomerID=c.CustomerID;