Queries

1. List the entire Customers table.
2. What are the names of all Brazilian Customers?
3. Which orders had products ordered at quantities between 60 and 70?
4. What are the company names and phone numbers of all suppliers?
5. What are the company names and phone numbers of all suppliers in Brazil?
6. What are the company names and phone numbers of all suppliers in Brazil and London?
7. For each supplier, list the company name and their product names.
8. What are the names of all products supplied by Exotic Liquids?
9. What are the names of all customers who have had their orders shipped by Federal Shipping?
10. Which employees have placed orders for products supplied by Exotic Liquids?
11. How many orders does each shipper have?
12. For each order, list the line totals without the discounts.
13. What is the total amount of each order? (Again, without the discount.) Also, show the order dates.
14. Which orders have average line totals in excess of $150?
15. How many products does each category have?
(Semicolons are optional in MS Access)

1. SELECT *
   FROM Customers;

2. SELECT Customers.CompanyName
   FROM Customers
   WHERE Customers.Country="Brazil";

3. SELECT DISTINCT [Order Details].OrderID
   FROM [Order Details]
   WHERE [Order Details].Quantity Between 60 And 70;

4. SELECT Suppliers.CompanyName, Suppliers.Phone
   FROM Suppliers;

5. SELECT Suppliers.CompanyName, Suppliers.Phone
   FROM Suppliers
   WHERE Suppliers.Country="Brazil";

6. SELECT Suppliers.CompanyName, Suppliers.Phone
   FROM Suppliers
   WHERE Suppliers.Country="Brazil" OR Suppliers.City="London";

7. SELECT Suppliers.CompanyName, Products.ProductName
   FROM Suppliers INNER JOIN Products ON Suppliers.SupplierID = Products.SupplierID;

   - OR -

   SELECT Suppliers.CompanyName, Products.ProductName
   FROM Suppliers, Products
   WHERE Suppliers.SupplierID = Products.SupplierID;
8. SELECT Products.ProductName
   FROM Suppliers INNER JOIN Products ON Suppliers.SupplierID = Products.SupplierID
   WHERE Suppliers.CompanyName="Exotic Liquids";

   - OR -

   SELECT Products.ProductName
   FROM Suppliers, Products
   WHERE Suppliers.SupplierID = Products.SupplierID
   AND Suppliers.CompanyName="Exotic Liquids";

9. (Performs the selection criterion based on the name of the shipper):

   SELECT DISTINCT Customers.CompanyName
   FROM (Orders INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID)
   INNER JOIN Shippers ON ShipVia = ShipperID
   WHERE Shippers.CompanyName = "Federal Shipping";

   -OR-

   (Performs the selection criterion based on the id of the shipper):

   SELECT DISTINCT Customers.CompanyName
   FROM Orders INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID
   WHERE ShipVia = 3;

10. SELECT DISTINCT EmployeeID, LastName, FirstName
    FROM (((Employees INNER JOIN Orders ON Employees.EmployeeID = Orders.EmployeeID)
    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 = Supplier.SupplierID
    WHERE Suppliers.CompanyName)="Exotic Liquids";
-OR-

SELECT DISTINCT EmployeeID, LastName, FirstName
FROM Employees, Orders, [Order Details], Products, Suppliers
WHERE Employees.EmployeeID = Orders.EmployeeID
    AND Orders.OrderID = [Order Details].OrderID
    AND [Order Details].ProductID = Products.ProductID
    AND Products.SupplierID = Suppliers.SupplierID
    AND Suppliers.CompanyName = "Exotic Liquids";

11. (Performs the selection criterion based on the name of the shipper):

SELECT CompanyName, Count(*)
FROM Shippers INNER JOIN Orders ON ShipperID = ShipVia
GROUP BY CompanyName;

-OR-

(Performs the selection criterion based on the id of the shipper):

SELECT Orders.ShipVia, Count(Orders.OrderID)
FROM Orders
GROUP BY ShipVia;

12. SELECT OrderID, Quantity*UnitPrice
FROM [Order Details];
13. SELECT Orders.OrderID, Orders.OrderDate, Sum(Quantity*UnitPrice)
    FROM Orders INNER JOIN [Order Details] ON Orders.OrderID = [Order Details].OrderID
    GROUP BY Orders.OrderID, Orders.OrderDate;

14. SELECT OrderID, Avg(Quantity*UnitPrice)
    FROM [Order Details]
    GROUP BY OrderID
    HAVING Avg(Quantity*UnitPrice)>150;

15. SELECT CategoryName, Count(*)
    FROM Categories INNER JOIN Products ON Categories.CategoryID = Products.CategoryID
    GROUP BY CategoryName;