Basic Problems

1. Which shippers do we have?

We have a table called Shippers. Return all the fields from all the shippers

ShipperID	CompanyName	Phone
1 2 3	Speedy Express United Package Federal Shipping	(503) 555-9831 (503) 555-3199 (503) 555-9931
(3 row(s)	affected)	

2. Certain fields from Categories

In the Categories table, selecting all the fields using this SQL:

Select * from Categories ...will return 4 columns. We only want to see two columns, CategoryName and Description.

```
CategoryName
               Description
                Soft drinks, coffees, teas, beers, and ales
Beverages
Condiments
                Sweet and savory sauces, relishes, spreads, and seasonings
Confections
                Desserts, candies, and sweet breads
Dairy Products Cheeses
Grains/Cereals
                Breads, crackers, pasta, and cereal
Meat/Poultry
                Prepared meats
Produce
                Dried fruit and bean curd
Seafood
                Seaweed and fish
(8 row(s) affected)
```

3. Sales Representatives

We'd like to see just the FirstName, LastName, and HireDate of all the employees with the Title of Sales Representative. Write a SQL statement that returns only those employees.

FirstName	LastName	HireDate	
Nancy	Davolio	2010-05-01	00:00:00.000
Janet	Leverling	2010-04-01	00:00:00.000
Margaret	Peacock	2011-05-03	00:00:00.000
Michael	Suyama	2011-10-17	00:00:00.000
Robert	King	2012-01-02	00:00:00.000
Anne	Dodsworth	2012-11-15	00:00:00.000
(6 row(s)	affected)		

4. Sales Representatives in the United States

Now we'd like to see the same columns as above, but only for those employees that both have the title of Sales Representative, and also are in the United States.

```
FirstName LastName HireDate
------
Nancy Davolio 2010-05-01 00:00:00.000
Janet Leverling 2010-04-01 00:00:00.000
Margaret Peacock 2011-05-03 00:00:00.000

(3 row(s) affected)
```

5. Orders placed by specific EmployeeID

Show all the orders placed by a specific employee. The EmployeeID for this Employee (Steven Buchanan) is 5.

Expected Results

OrderID	OrderDate	
10248	2014-07-04	08:00:00.000
10254	2014-07-11	02:00:00.000
10269	2014-07-31	00:00:00.000
10607	2015-07-22	09:00:00.000
10648	2015-08-28	22:00:00.000
10649	2015-08-28	00:00:00.000
10650	2015-08-29	06:00:00.000
10654	2015-09-02	07:00:00.000
10675	2015-09-19	06:00:00.000
10711	2015-10-21	03:00:00.000
10714	2015-10-22	03:00:00.000
10721	2015-10-29	08:00:00.000
10730	2015-11-05	07:00:00.000
10761	2015-12-02	08:00:00.000
10812	2016-01-02	02:00:00.000
10823	2016-01-09	17:00:00.000
10841	2016-01-20	21:00:00.000
10851	2016-01-26	00:00:00.000
10866	2016-02-03	01:00:00.000
10869	2016-02-04	09:00:00.000
10870	2016-02-04	12:00:00.000
10872	2016-02-05	06:00:00.000
10874	2016-02-06	14:00:00.000
10899	2016-02-20	09:00:00.000
10922	2016-03-03	02:00:00.000
10954	2016-03-17	16:00:00.000
11043	2016-04-22	17:00:00.000

(42 row(s) affected)

6. Suppliers and ContactTitles

In the Suppliers table, show the SupplierID, ContactName, and ContactTitle for those Suppliers whose ContactTitle is not Marketing Manager.

Expected Results

	SupplierID	ContactName	ContactTitle
	1	Charlotte Cooper	Purchasing Manager
	2	Shelley Burke	Order Administrator
	3	Regina Murphy	Sales Representative
	5	Antonio del Valle Saavedra	Export Administrator
	6	Mayumi Ohno	Marketing Representative
•	8	Peter Wilson	Sales Representative
)	9	Lars Peterson	Sales Agent
	11	Petra Winkler	Sales Manager
	12	Martin Bein	International Marketing Mgr.
	13	Sven Petersen	Coordinator Foreign Markets
	14	Elio Rossi	Sales Representative
	16	Cheryl Saylor	Regional Account Rep.
	17	Michael Björn	Sales Representative
	18	Guylène Nodier	Sales Manager
	19	Robb Merchant	Wholesale Account Agent
	20	Chandra Leka	Owner
	21	Niels Petersen	Sales Manager
	22	Dirk Luchte	Accounting Manager
	23	Anne Heikkonen	Product Manager
	24	Wendy Mackenzie	Sales Representative
	26	Giovanni Giudici	Order Administrator
	27	Marie Delamare	Sales Manager
	28	Eliane Noz	Sales Representative
	29	Chantal Goulet	Accounting Manager
	(04 (-)	- 55 - 1 - 1 \ \	

(24 row(s) affected)

7. Products with "queso" in ProductName

In the products table, we'd like to see the ProductID and ProductName for those products where the ProductName includes the string "queso".

```
ProductID ProductName

11 Queso Cabrales
12 Queso Manchego La Pastora

(2 row(s) affected)
```

8. Orders shipping to France or Belgium

Looking at the Orders table, there's a field called ShipCountry. Write a query that shows the OrderID, CustomerID, and ShipCountry for the orders where the ShipCountry is either France or Belgium.

10248 10251	VINET VICTE	France
	VTCTF	
10252	V _ C L	France
10252	SUPRD	Belgium
10265	BLONP	France
10274	VINET	France
10302	SUPRD	Belgium
10311	DUMON	France
10331	BONAP	France
10334	VICTE	France
10340	BONAP	France
10350	LAMAI	France
10358	LAMAI	France
(skip	ping some row	ıs)
10923	LAMAI	France
10927	LACOR	France
10930	SUPRD	Belgium
10932	BONAP	France
L0940	BONAP	France
L0964	SPECD	France
10971	FRANR	France
10972	LACOR	France
L0973	LACOR	France
10978	MAISD	Belgium
11004	MAISD	Belgium
11035	SUPRD	Belgium
11038	SUPRD	Belgium
		C
11043	SPECD	France
11043 11051 11076	SPECD LAMAI BONAP	France France France

9. Orders shipping to any country in Latin America

Now, instead of just wanting to return all the orders from France of Belgium, we want to show all the orders from any Latin American country. But we don't have a list of Latin American countries in a table in the Northwind database. So, we're going to just use this list of Latin American countries that happen to be in the Orders table:

Brazil, Mexico, Argentina, Venezuela

Expected Results

OrderID	CustomerID	ShipCountry
10250	HANAR	Brazil
10253	HANAR	Brazil
10256	WELLI	Brazil
10257	HILAA	Venezuela
10259	CENTC	Mexico
10261	QUEDE	Brazil
10268	GROSR	Venezuela
10276	TORTU	Mexico
10283	LILAS	Venezuela
10287	RICAR	Brazil
10997	LILAS	Venezuela

... (skipping some rows)

11014	LINOD	Venezuela
11019	RANCH	Argentina
11022	HANAR	Brazil
11039	LINOD	Venezuela
11042	COMMI	Brazil
11049	GOURL	Brazil
11052	HANAR	Brazil
11054	CACTU	Argentina
11055	HILAA	Venezuela
11059	RICAR	Brazil
11065	LILAS	Venezuela
11068	QUEEN	Brazil
11069	TORTU	Mexico
11071	LILAS	Venezuela
11073	PERIC	Mexico

(173 row(s) affected)

10. Employees, in order of age

For all the employees in the Employees table, show the FirstName, LastName, Title, and BirthDate. Order the results by BirthDate, so we have the oldest employees first.

Expected Results

FirstNam	ne LastName	Title	BirthDate
Margaret Nancy Andrew Steven Laura Robert Michael Janet Anne	Peacock Davolio Fuller Buchanan Callahan King Suyama Leverling Dodsworth	Sales Representative Sales Representative Vice President, Sales Sales Manager Inside Sales Coordinator Sales Representative Sales Representative Sales Representative Sales Representative	1955-09-19 00:00:00.000 1966-12-08 00:00:00.000 1970-02-19 00:00:00.000 1973-03-04 00:00:00.000 1976-01-09 00:00:00.000 1978-05-29 00:00:00.000 1981-07-02 00:00:00.000 1981-08-30 00:00:00.000

(9 row(s) affected)

11. Showing only the Date with a DateTime field

In the output of the query above, showing the Employees in order of BirthDate, we see the time of the BirthDate field, which we don't want. Show only the date portion of the BirthDate field.

Expected Results

(9 row(s) affected)

FirstName	LastName	Title	DateOnlyBirthDate
Margaret Nancy Andrew Steven Laura Robert Michael Janet Anne	Peacock Davolio Fuller Buchanan Callahan King Suyama Leverling Dodsworth	Sales Representative Sales Representative Vice President, Sales Sales Manager Inside Sales Coordinator Sales Representative Sales Representative Sales Representative Sales Representative	1955-09-19 1966-12-08 1970-02-19 1973-03-04 1976-01-09 1978-05-29 1981-07-02 1981-08-30 1984-01-27

12. Employees full name

Show the FirstName and LastName columns from the Employees table, and then create a new column called FullName, showing FirstName and LastName joined together in one column, with a space in-between.

FirstName	LastName	FullName
Nancy	Davolio	Nancy Davolio
Andrew	Fuller	Andrew Fuller
Janet	Leverling	Janet Leverling
Margaret Steven	Peacock Buchanan	Margaret Peacock Steven Buchanan
Michael	Suyama	Michael Suyama
Robert	King	Robert King
Laura	Callahan	Laura Callahan
Anne	Dodsworth	Anne Dodsworth
(9 row(s)	affected)	

13. OrderDetails amount per line item

In the OrderDetails table, we have the fields UnitPrice and Quantity. Create a new field, TotalPrice, that multiplies these two together. We'll ignore the Discount field for now.

In addition, show the OrderID, ProductID, UnitPrice, and Quantity. Order by OrderID and ProductID.

Expected Results

OrderID	ProductID	UnitPrice	Quantity	TotalPrice
10248	11	14.00	12	168.00
10248	42	9.80	10	98.00
10248	72	34.80	5	174.00
10249	14	18.60	9	167.40
10249	51	42.40	40	1696.00
10250	41	7.70	10	77.00
10250	51	42.40	35	1484.00
10250	65	16.80	15	252.00
10251	22	16.80	6	100.80
10251	57	15.60	15	234.00
10251	65	16.80	20	336.00
(skinnir	ng some rows	1		
··· (SKIPPI	ig some rows	,		
11077	13	6.00	4	24.00
11077	14	23.25	1	23.25
11077	16	17.45	2	34.90
11077	20	81.00	1	81.00
11077	23	9.00	2	18.00
11077	32	32.00	1	32.00
11077	39	18.00	2	36.00
11077	41	9.65	3	28.95
11077	46	12.00	3	36.00
11077	52	7.00	2	14.00
11077	55	24.00	2	48.00
11077	60	34.00	2	68.00
11077	64	33.25	2	66.50
11077	66	17.00	1	17.00
11077	73	15.00	2	30.00
11077	75	7.75	4	31.00
11077	77	13.00	2	26.00
			665	7.7

(2155 row(s) affected)

14. How many customers?

How many customers do we have in the Customers table? Show one value only, and don't rely on getting the recordcount at the end of a resultset.

```
TotalCustomers
-----
91
(1 row(s) affected)
```

15. When was the first order?

Show the date of the first order ever made in the Orders table.

```
FirstOrder
------
2014-07-04 08:00:00.000
(1 row(s) affected)
```

16. Countries where there are customers

Show a list of countries where the Northwind company has customers.

Expected Results

```
Country
Argentina
Austria
Belgium
Brazil
Canada
Denmark
Finland
France
Germany
Ireland
Italy
Mexico
Norway
Poland
Portugal
Spain
Sweden
Switzerland
UK
USA
Venezuela
```

(21 row(s) affected)

17. Contact titles for customers

Show a list of all the different values in the Customers table for ContactTitles. Also include a count for each ContactTitle.

This is similar in concept to the previous question "Countries where there are customers", except we now want a count for each ContactTitle.

```
ContactTitle
                                TotalContactTitle
Owner
                                17
Sales Representative
                                17
Marketing Manager
Sales Manager
Accounting Manager
Sales Associate
Marketing Assistant
Sales Agent
Assistant Sales Agent
Order Administrator
Assistant Sales Representative 1
Owner/Marketing Assistant
(12 row(s) affected)
```

18. Products with their associated supplier

names

We'd like to show, for each product, the associated Supplier. Show the ProductID, ProductName, and the CompanyName of the Supplier. Sort by ProductID.

This question will introduce what may be a new concept, the Join clause in SQL. The Join clause is used to join two or more relational database tables together in a logical way.

Expected Results

ProductID	ProductName	Supplier
1		Exotic Liquids
2	Chang	Exotic Liquids
3	Aniseed Syrup	Exotic Liquids
4	Chef Anton's Cajun Seasoning	New Orleans Cajun Delights
5	Chef Anton's Gumbo Mix	New Orleans Cajun Delights
6	Grandma's Boysenberry Spread	Grandma Kelly's Homestead
7	Uncle Bob's Organic Dried Pears	Grandma Kelly's Homestead
8	Northwoods Cranberry Sauce	Grandma Kelly's Homestead
9	Mishi Kobe Niku	Tokyo Traders
10	Ikura	Tokyo Traders
(skippi	ing some rows)	
66	Louisiana Hot Spiced Okra	New Orleans Cajun Delights
67	Laughing Lumberjack Lager	Bigfoot Breweries
68	Scottish Longbreads	Specialty Biscuits, Ltd.
69	Gudbrandsdalsost	Norske Meierier
70	Outback Lager	Pavlova, Ltd.
71	Flotemysost	Norske Meierier
72	Mozzarella di Giovanni	Formaggi Fortini s.r.l.
73	Röd Kaviar	Svensk Sjöföda AB
74	Longlife Tofu	Tokyo Traders
75	Rhönbräu Klosterbier	Plutzer Lebensmittelgroßmärkte AG
76	Lakkalikööri	Karkki Oy
77	Original Frankfurter grüne Soße	Plutzer Lebensmittelgroßmärkte AG

(77 row(s) affected)

19. Orders and the Shipper that was used

We'd like to show a list of the Orders that were made, including the Shipper that was used. Show the OrderID, OrderDate (date only), and CompanyName of the Shipper, and sort by OrderID.

In order to not show all the orders (there's more than 800), show only those rows with an OrderID of less than 10300.

OrderID	OrderDate	Shipper
10248	2014-07-04	Federal Shipping
10249		Speedy Express
10250		United Package
10251		Speedy Express
10252		United Package
10253		United Package
10254		United Package
10255	2014-07-12	Federal Shipping
10256	2014-07-15	United Package
10257	2014-07-16	Federal Shipping
10258	2014-07-17	Speedy Express
10259	2014-07-18	Federal Shipping
10260	2014-07-19	Speedy Express
10261	2014-07-19	United Package
10262		Federal Shipping
10263		Federal Shipping
10264	2014-07-24	Federal Shipping
(skipping some rows)		
10284	2014-08-19	Speedy Express
10285	2014-08-20	United Package
10286	2014-08-21	Federal Shipping
10287	2014-08-22	Federal Shipping
10288	2014-08-23	Speedy Express
10289	2014-08-26	Federal Shipping
10290	2014-08-27	Speedy Express
10291	2014-08-27	United Package
10292	2014-08-28	United Package
10293	2014-08-29	Federal Shipping
10294		United Package
10295		United Package
10296		Speedy Express
10297		United Package
10298		United Package
10299	2014-09-06	United Package
(52 row(s) affected)		