

- **The question number: 1**

Which companies do Northwind Traders use for shipping their products? Provide the names of these companies, as well as their IDs. No other columns should show up in the output. (1 point)

- **The SQL query that you created to answer the question**

**select** shipperid, companyname **from** shippers s ;

- **A screenshot of the output that your query produces.**

	123 shipperid ▼	A-Z companyname ▼
1	1	Speedy Express
2	2	United Package
3	3	Federal Shipping
4	4	Alliance Shippers
5	5	UPS
6	6	DHL

- **The question number: 2**

Find the first name, last name, and hiring date of all employees with the title “Sales Representative” or “Inside Sales Coordinator”. No other columns should show up in the output. (2 points)

- **The SQL query that you created to answer the question**

**select** firstname, lastname, hiredate **from** employees e ;

- A screenshot of the output that your query produces.

	A-Z firstname ▼	A-Z lastname ▼	🕒 hiredate ▼
1	Nancy	Davolio	1992-05-01
2	Andrew	Fuller	1992-08-14
3	Janet	Leverling	1992-04-01
4	Margaret	Peacock	1993-05-03
5	Steven	Buchanan	1993-10-17
6	Michael	Suyama	1993-10-17
7	Robert	King	1994-01-02
8	Laura	Callahan	1994-03-05
9	Anne	Dodsworth	1994-11-15

- The question number: 3

Create a report showing the first name, last name, and country of all employees that are not in the United States. Order result alphabetically, by last name. No other columns should show up in the output. (2 points)

- The SQL query that you created to answer the question

```
select firstname, lastname, country from employees e
where country != 'USA'
order by lastname ;
```

- A screenshot of the output that your query produces.

	A-Z firstname ▼	A-Z lastname ▼	A-Z country ▼
1	Steven	Buchanan	UK
2	Anne	Dodsworth	UK
3	Robert	King	UK
4	Michael	Suyama	UK

- The question number: 4

Query all employee names (first and last) who are hired before Jan 1, 1994. Sort your results from the newest hire to the oldest to point out who is the newest hire. In the output only the first name, last name and hiredate should appear. (3 points)

- The SQL query that you created to answer the question

```
select firstname, lastname, hiredate from employees e
where hiredate < '1994-01-01'
order by hiredate desc ;
```

- A screenshot of the output that your query produces.

	A-Z firstname	A-Z lastname	hiredate
1	Steven	Buchanan	1993-10-17
2	Michael	Suyama	1993-10-17
3	Margaret	Peacock	1993-05-03
4	Andrew	Fuller	1992-08-14
5	Nancy	Davolio	1992-05-01
6	Janet	Leverling	1992-04-01

- The question number: 5  
Show all orders (and return all columns) that happened in Madrid in year 1996. (3 points)

- The SQL query that you created to answer the question  

```
select * from orders o
where shipcity = 'Madrid' and orderdate >= '1996-01-01'
and orderdate < '1997-01-01' ;
```

- A screenshot of the output that your query produces.

	123 orderid	A-Z customerid	123 employeeid	orderdate	requireddate	shippeddate	123 shipv
1	10,281	ROMEY	4	1996-08-14	1996-08-28	1996-08-21	
2	10,282	ROMEY	4	1996-08-15	1996-09-12	1996-08-21	
3	10,306	ROMEY	1	1996-09-16	1996-10-14	1996-09-23	
4	10,326	BOLID	4	1996-10-10	1996-11-07	1996-10-14	

- The question number: 6  
Find and return only the product id and name for all “queso” products (i.e. products whose name includes “queso”) that have unit price greater than 30. Only print out product id and product name. (3 points)

- The SQL query that you created to answer the question  

```
select * from products p
where lower(productname) like lower('%queso%') and unitprice > '30' ;
```

- A screenshot of the output that your query produces.

	123 productid	A-Z productname	123 supplierid	123 categoryid	A-Z quantityperunit	123 unitprice
1	12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	38

- **The question number: 7**

Query all the orders (only the columns orderid, customerid, shipcountry) shipping to the following countries in Latin America: Brazil, Mexico, Argentina, Venezuela. Sort by freight value, with the heaviest freight first. Show the first 10 results only. (4 points)

- **The SQL query that you created to answer the question**

```
select orderid, customerid, shipcountry from orders o
where shipcountry = 'Brazil' or shipcountry = 'Mexico'
or shipcountry = 'Argentina' or shipcountry = 'Venezuela'
order by freight desc
limit 10 ;
```

- **A screenshot of the output that your query produces.**

	123 orderid ▼	A-Z customerid ▼	A-Z shipcountry ▼
1	10,372	🔗 QUEEN	Brazil
2	10,518	🔗 TORTU	Mexico
3	10,986	🔗 OCEAN	Argentina
4	10,709	🔗 GOURL	Brazil
5	10,490	🔗 HILAA	Venezuela
6	10,637	🔗 QUEEN	Brazil
7	10,981	🔗 HANAR	Brazil
8	10,868	🔗 QUEEN	Brazil
9	10,395	🔗 HILAA	Venezuela
10	10,641	🔗 HILAA	Venezuela

- **The question number: 8**

Create a report that shows the company name, contact title, city and country of all customers in Mexico, Brazil, or in any city in Spain except Madrid. No other columns should show up in the output. (4 points)

- **The SQL query that you created to answer the question**

```
select companyname, contacttitle, city, country from customers c
where country = 'Mexico' or country = 'Brazil'
or country = 'Spain' and city != 'Madrid'
```

- **A screenshot of the output that your query produces.**

	A-Z companyname	A-Z contacttitle	A-Z city	A-Z country
1	Ana Trujillo Emparedados y helados	Owner	México D.F.	Mexico
2	Antonio Moreno Taquería	Owner	México D.F.	Mexico
3	Centro comercial Moctezuma	Marketing Manager	México D.F.	Mexico
4	Comércio Mineiro	Sales Associate	Sao Paulo	Brazil
5	Familia Arquibaldo	Marketing Assistant	Sao Paulo	Brazil
6	Galería del gastrónomo	Marketing Manager	Barcelona	Spain
7	Godos Cocina Típica	Sales Manager	Sevilla	Spain
8	Gourmet Lanchonetes	Sales Associate	Campinas	Brazil
9	Hanari Carnes	Accounting Manager	Rio de Janeiro	Brazil
10	Pericles Comidas clásicas	Sales Representative	México D.F.	Mexico
11	Que Delícia	Accounting Manager	Rio de Janeiro	Brazil
12	Queen Cozinha	Marketing Assistant	Sao Paulo	Brazil
13	Ricardo Adocicados	Assistant Sales Agent	Rio de Janeiro	Brazil
14	Tortuga Restaurante	Owner	México D.F.	Mexico
15	Tradição Hipermercados	Sales Representative	Sao Paulo	Brazil

- **The question number: 9**

What is the most expensive discontinued product that currently has units in stock? (Hint: A product is discontinued if the value of attribute “discontinued” in the table is 1 otherwise it is 0 if the product is not discontinued). Show all columns from the products table and order your results from most expensive to least expensive. (4 points)

- **The SQL query that you created to answer the question**

```
select * from products p
where discontinued = '1' and unitsinstock != '0'
order by unitprice desc ;
```

- **A screenshot of the output that your query produces.**

	123 productid	A-Z productname	123 supplierid	123 categoryid	A-Z quantityperunit	123 unitprice
1	9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	9
2	28	Rössle Sauerkraut	12	7	25 - 825 g cans	45
3	2	Chang	1	1	24 - 12 oz bottles	5
4	1	Chai	8	1	10 boxes x 30 bags	5
5	42	Singaporean Hokkien Fried Mee	20	5	32 - 1 kg pkgs.	4
6	24	Guaraná Fantástica	10	1	12 - 355 ml cans	4

- **The question number: 10**










Which order (order id) has the highest total value after the discount? Return only the orderid, productid, unitprice, quantity, discount, and total value of the order (in a column called totalvalue). Order the results in descending order of total value. Return only one result! (5 points)

- **The SQL query that you created to answer the question**

```
select orderid, productid, unitprice, quantity, discount,
```

```
((unitprice * quantity) * (1 - discount)) as totalvalue from orderdetails o
order by totalvalue desc
limit 1 ;
```

- A screenshot of the output that your query produces.

	  orderid ▾	 productid ▾	 unitprice ▾	 quantity ▾	 discount ▾	 totalvalue ▾
1	10,981 	38 	263.5	60	0	15,810