Northwind Queries

Easy Questions

Q1. Show the category_name and description from the categories table sorted by category_name.

SELECT category_name, description FROM categories ORDER BY 1;

category_name	description
Beverages	Soft drinks, coffees, teas, beers, and ales
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

Q2. Show all the contact_name, address, city of all customers which are not from 'Germany', 'Mexico', 'Spain'.

SELECT contact_name, address, city FROM customers WHERE Country NOT IN ('Germany' , 'Mexico', 'Spain');

contact_name	address	city
Thomas Hardy	120 Hanover Sq.	London
Christina Berglund	Berguvsvägen 8	Luleå
Frédérique Citeaux	24, place Kléber	Strasbourg
Laurence Lebihan	12, rue des Bouchers	Marseille
Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen
Victoria Ashworth	Fauntleroy Circus	London
Patricio Simpson	Cerrito 333	Buenos Aires
Yang Wang	Hauptstr. 29	Bern

Q3. Show order_date, shipped_date, customer_id, Freight of all orders placed on 2018 Feb 26.

SELECT order_date, shipped_date, customer_id, freight FROM orders WHERE order_date = '2018-02-26';

order_date	shipped_date	customer_id	freight
2018-02-26	2018-03-06	REGGC	32.96
2018-02-26	2018-03-10	SANTG	53.05
2018-02-26	2018-03-04	WILMK	38.11
2018-02-26	2018-03-05	GODOS	38.19
2018-02-26	2018-03-18	HUNGO	580.91
2018-02-26	2018-03-04	QUEEN	33.05

Q4. Show the employee_id, order_id, customer_id, required_date, shipped_date from all orders shipped later than the required date.

SELECT employee_id, order_id, customer_id, required_date, shipped_date FROM orders WHERE required_date < shipped_date;

employee_id	order_id	customer_id	required_date	shipped_date
6	10264	FOLKO	2016-08-21	2016-08-23
6	10271	SPLIR	2016-08-29	2016-08-30
2	10280	BERGS	2016-09-11	2016-09-12
4	10302	SUPRD	2016-10-08	2016-10-09
3	10309	HUNGO	2016-10-17	2016-10-23
5	10320	WARTH	2016-10-17	2016-10-18
8	10380	HUNGO	2017-01-09	2017-01-16
6	10422	COUPI	2017-02-06	2017-02-24

Q5. Show all the even numbered Order_id from the orders table.

SELECT order_id FROM orders WHERE order_id % 2 = 0;

order_id
10248
10250
10252
10254
10256
10258

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Q6. Show the city, company_name, contact_name of all customers from cities which contains the letter 'L' in the city name, sorted by contact_name.

SELECT city, company_name, contact_name FROM customers WHERE city LIKE '%L%' ORDER BY 3;

city	company_name	contact_name
Leipzig	Morgenstern Gesundkost	Alexander Feuer
Sao Paulo	Tradição Hipermercados	Anabela Domingues
London	Eastern Connection	Ann Devon
Toulouse	La maison d'Asie	Annette Roulet
Sao Paulo	Familia Arquibaldo	Aria Cruz
Lander	Split Rail Beer & Ale	Art Braunschweiger
San Cristóbal	HILARION-Abastos	Carlos Hernández
Bruxelles	Maison Dewey	Catherine Dewey

Q7. Show the company_name, contact_name, fax number of all customers that has a fax number. (not null)

SELECT company_name, contact_name, fax FROM customers WHERE fax IS NOT NULL;

company_name	contact_name	fax
Alfreds Futterkiste	Maria Anders	030-0076545
Ana Trujillo Emparedados y helados	Ana Trujillo	(5) 555-3745
Around the Horn	Thomas Hardy	(171) 555-6750
Berglunds snabbköp	Christina Berglund	0921-12 34 67
Blauer See Delikatessen	Hanna Moos	0621-08924
Blondesddsl père et fils	Frédérique Citeaux	88.60.15.32
Bólido Comidas preparadas	Martín Sommer	(91) 555 91 99
Bon app'	Laurence Lebihan	91 24 45 41

Q8. Show the first_name, last_name. hire_date of the most recently hired employee.

SELECT first_name, last_name, MAX(hire_date) FROM employees;

first_name	last_name	max(hire_date)
Anne	Dodsworth	2014-11-15

Q9. Show the average unit price rounded to 2 decimal places, the total units in stock, total discontinued products from the products table.

SELECT ROUND(AVG(Unit_Price), 2) AS average_price, SUM(units_in_stock) AS total_stock, SUM(discontinued) AS total_discontinued FROM products;

average_price	total_stock	total_discontinued
28.87	3119	8

Medium Questions

Q1. Show the ProductName, CompanyName, CategoryName from the products, suppliers, and categories table.

SELECT product_name, company_name, category_name FROM categories c JOIN products p ON c.category_id = p.category_id JOIN suppliers s ON p.supplier_id = s.supplier_id;

product_name	company_name	category_name
Chai	Exotic Liquids	Beverages
Chang	Exotic Liquids	Beverages
Aniseed Syrup	Exotic Liquids	Condiments
Chef Anton's Cajun Seasoning	New Orleans Cajun Delights	Condiments
Chef Anton's Gumbo Mix	New Orleans Cajun Delights	Condiments
Grandma's Boysenberry Spread	Grandma Kelly's Homestead	Condiments
Uncle Bob's Organic Dried Pears	Grandma Kelly's Homestead	Produce
Northwoods Cranberry Sauce	Grandma Kelly's Homestead	Condiments

Q2. Show the category_name and the average product unit price for each category rounded to 2 decimal places.

SELECT category_name, ROUND(AVG(unit_price), 2) FROM categories c JOIN products p c.category_id = p.category_id GROUP BY 1;

category_name	Round(Avg(unit_price), 2)
Beverages	37.98
Condiments	23.06
Confections	25.16
Dairy Products	28.73
Grains/Cereals	20.25
Meat/Poultry	54.01
Produce	32.37
Seafood	20.68

Q3. Show the city, company_name, contact_name from the customers and suppliers table merged together.
Create a column which contains 'customers' or 'suppliers' depending on the table it came from.

SELECT city, company_name, contact_name, 'Customers' AS relationship FROM customers UNION ALL SELECT city, company_name, contact_name, 'Suppliers' FROM suppliers;

city	company_name	contact_name	relationship
Berlin	Alfreds Futterkiste	Maria Anders	Customers
México D.F.	Ana Trujillo Emparedados y helados	Ana Trujillo	Customers
México D.F.	Antonio Moreno Taquería	Antonio Moreno	Customers
London	Around the Horn	Thomas Hardy	Customers
Luleå	Berglunds snabbköp	Christina Berglund	Customers
Mannheim	Blauer See Delikatessen	Hanna Moos	Customers

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Hard Questions

Q1. Show the employee's first_name and last_name, a "num_orders" column with a count of the orders taken, and a column called "Shipped" that displays "On Time" if the order shipped_date is less or equal to the required_date, "Late" if the order shipped late.

Order by employee last_name, then by first_name, and then descending by number of orders.

SELECT first_name, last_name, COUNT(*) AS num_orders, CASE WHEN shipped_date <= required_date THEN 'On Time' ELSE 'Late' END AS Shipped FROM employees e JOIN orders o ON e.employee_id = o.employee_id GROUP BY shipped , first_name , last_name ORDER BY last_name , first_name , num_orders DESC;

first_name	last_name	num_orders	Shipped
Steven	Buchanan	41	On Time
Steven	Buchanan	1	Late
Laura	Callahan	96	On Time
Laura	Callahan	8	Late
Nancy	Davolio	118	On Time
Nancy	Davolio	5	Late
Anne	Dodsworth	38	On Time
Anne	Dodsworth	5	Late
Andrew	Fuller	89	On Time
Andrew	Fuller	7	Late
Robert	King	65	On Time
Robert	King	7	Late
Janet	Leverling	122	On Time
Janet	Leverling	5	Late
Margaret	Peacock	141	On Time
Margaret	Peacock	15	Late
Michael	Suyama	62	On Time
Michael	Suyama	5	Late