

E-Commerce Case Study

Table: Categories

CategoryID	CategoryName	Description
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonings
3	Confections	Desserts, candies, and sweet breads
4	Dairy Products	Cheeses
5	Grains/Cereals	Breads, crackers, pasta, and cereal
6	Seafood	Seaweed and fish

Table: Customers

CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone	Fax
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin		12209	Germany	030-0074 321	030-0076 545
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.		5021	Mexico	(5) 555-4729	(5) 555-3745
ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.		5023	Mexico	(5) 555-3932	
AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London		WA1 1DP	UK	(171) 555-7788	(171) 555-6750
BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå		S-958 22	Sweden	0921-12 34 65	0921-12 34 67

Table: Order details

OrderID	ProductID	UnitPrice	Quantity	Discount
10248	11	14	12	0
10248	42	9.8	10	0
10248	72	34.8	5	0
10249	14	18.6	9	0
10249	51	42.4	40	0
10250	41	7.7	10	0
10250	51	42.4	35	0.15
10250	65	16.8	15	0.15
10251	22	16.8	6	0.05
10251	57	15.6	15	0.05

Table: product

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	Chai	1	1	10 boxes x 20 bags	18	39	0	10	0
2	Chang	1	1	24 - 12 oz bottles	19	17	40	25	0
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10	13	70	25	0
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22	53	0	0	0
5	Chef Anton's Gumbo Mix	2	2	36 boxes	21.35	0	0	0	1
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25	120	0	25	0
7	Uncle Bob's Organic Dried Pears	3	4	12 - 1 lb pkgs.	30	15	0	10	0
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40	6	0	0	0
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97	29	0	0	1
10	Ikura	4	5	12 - 200 ml jars	31	31	0	0	0

Table: supplier

Supplier ID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone	Fax
1	Exotic Liquids	Charlotte Cooper	Purchasing Manager	49 Gilbert St.	London		EC1 4SD	UK	(171) 555-2222	
2	New Orleans Cajun Delights	Shelley Burke	Order Administrator	P.O. Box 78934	New Orleans	LA	70117	USA	(100) 555-4822	
3	Grandma Kelly's Homestead	Regina Murphy	Sales Representative	707 Oxford Rd.	Ann Arbor	MI	48104	USA	(313) 555-5735	(313) 555-3349
4	Tokyo Traders	Yoshi Nagase	Marketing Manager	9-8 Sekimai Musashino-shi	Tokyo		100	Japan	(03) 3555-5011	
5	Cooperativa de Quesos 'Las Cabras'	Antonio del Valle Saavedra	Export Administrator	Calle del Rosal 4	Oviedo	Asturias	33007	Spain	(98) 598 76 54	
6	Heli Süßwaren GmbH & Co. KG	Petra Winkler	Sales Manager	Tiergartenstraße 5	Berlin		10785	Germany	(010) 9984510	
7	Pavlova, Ltd.	Ian Devling	Marketing Manager	74 Rose St. Moonie Ponds	Melbourne	Victoria	3058	Australia	(03) 444-2343	(03) 444-6588
8	Specialty Biscuits, Ltd.	Peter Wilson	Sales Representative	29 King's Way	Manchester		M14 GSD	UK	(161) 555-4448	
9	PB Knäckebröd AB	Lars Peterson	Sales Agent	Kaloadagatan 13	Göteborg		S-345 67	Sweden	031-987 65 43	031-987 65 91
10	Refrescos Americanas LTDA	Carlos Diaz	Marketing Manager	Av. das Americanas 12.890	São Paulo		5442	Brazil	(11) 555 4640	

1. Create a report that shows the CategoryName and Description from the categories table sorted by CategoryName.
2. Create a report that shows the ContactName, CompanyName, ContactTitle and Phone number from the customers table sorted by Phone.
3. Create a report that shows all the CustomerID in lowercase letter and renamed as ID from the customers table.
4. Create a report that shows the CompanyName, Fax, Phone, Country, HomePage from the suppliers table sorted by the Country in descending order then by CompanyName in ascending order.
5. Create a report that shows CompanyName, ContactName of all customers from 'Buenos Aires' only.
6. Create a report showing ProductName, UnitPrice, QuantityPerUnit of products that are out of stock.
7. Create a report showing all the ContactName, Address, City of all customers not from Germany, Mexico, Spain.
8. Create a report that shows the City, CompanyName, ContactName of customers from cities starting with A or B.
9. Create a report that shows the ProductName, UnitsInStock, UnitsOnOrder, ReorderLevel of all products that are up for reorder.
10. Create a report that shows the CompanyName, ContactName number of all customer that have no fax number.
11. Create a report that shows the CompanyName, ContactName, Fax of all customers that do not have Fax number and sorted by ContactName.
12. Create a report that shows the City, CompanyName, ContactName of customers from cities that has letter L in the name sorted by ContactName.
13. Create a report showing OrderID, total number of Order ID as NumberofOrders from the orderdetails table grouped by OrderID and sorted by NumberofOrders in descending order. HINT: you will need to use a Groupby statement.
14. Create a report that shows the SupplierID, ProductName, CompanyName from all product Supplied by Exotic Liquids, Specialty Biscuits, Ltd., Escargots Nouveaux sorted by the supplier ID.
15. Create a report that shows the ContactName, ContactTitle, CompanyName of customers that the has no "Sales" in their ContactTitle.
16. Create a report that shows the CompanyName, ContactTitle, City, Country of all customers in any city in Mexico or other cities in Spain other than Madrid.
17. Create a report that shows the ContactName of all customers that do not have letter A as the second alphabet in their Contactname.

18. Create a report that shows the average UnitPrice rounded to the next whole number, total price of UnitsInStock and maximum number of orders from the products table. All saved as AveragePrice, TotalStock and MaxOrder respectively.
19. Create a report that shows the SupplierID, CompanyName, CategoryName, ProductName and UnitPrice from the products, suppliers and categories table.
20. Create a report that shows the average, minimum and maximum UnitPrice of all products as AveragePrice, MinimumPrice and MaximumPrice respectively.
21. Create a view named ProductDetails that shows the ProductID, CompanyName, ProductName, CategoryName, Description, QuantityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued from the supplier, products and categories tables. HINT: Create a View
22. Create a report that fetch the first 5 character of categoryName from the category tables and renamed as ShortInfo.
23. Create a report that shows the CompanyName and ProductName from all product in the Seafood category.
24. Create a report that shows the CategoryID, CompanyName and ProductName from all product in the categoryID 5.
25. Create a select statement that outputs the following from the product table.

ProductInfo
Chai weighs is 10 boxes x 20 bags and cost \$18
Chang weighs is 24 - 12 oz bottles and cost \$19
Aniseed Syrup weighs is 12 - 550 ml bottles and cost \$10
Chef Anton's Cajun Seasoning weighs is 48 - 6 oz jars and cost \$22
Chef Anton's Gumbo Mix weighs is 36 boxes and cost \$22
Grandma's Boysenberry Spread weighs is 12 - 8 oz jars and cost \$25
Uncle Bob's Organic Dried Pears weighs is 12 - 1 lb pkgs. and cost \$30
Northwoods Cranberry Sauce weighs is 12 - 12 oz jars and cost \$40
Mishi Kobe Niku weighs is 18 - 500 g pkgs. and cost \$97
Ikura weighs is 12 - 200 ml jars and cost \$31