

SQL BUSINESS QUESTIONS

1. List all suppliers in the UK
2. List the first name, last name, and city for all customers. Concatenate the first and last name separated by a space and a comma as a single column
3. List all customers in Sweden
4. List all suppliers in alphabetical order
5. List all suppliers with their products
6. List all orders with customers information
7. List all orders with product name, quantity, and price, sorted by order number
8. Using a case statement, list all the availability of products. When 0 then not available, else available
9. Using case statement, list all the suppliers and the language they speak. The language they speak should be their country E.g if UK, then English
10. List all products that are packaged in Jars
11. List products name, unitprice and packages for products that starts with Ca
12. List the number of products for each supplier, sorted high to low.
13. List the number of customers in each country.
14. List the number of customers in each country, sorted high to low.
15. List the total order amount for each customer, sorted high to low.
16. List all countries with more than 2 suppliers.
17. List the number of customers in each country. Only include countries with more than 10 customers.
18. List the number of customers in each country, except the USA, sorted high to low. Only include countries with 9 or more customers.
19. List customer with average orders between \$1000 and \$1200.
20. Get the number of orders and total amount sold between Jan 1, 2013 and Jan 31, 2013.

ANSWERS

1. `SELECT * FROM Supplier
WHERE Country = 'UK'`
2. `SELECT CONCAT(firstname, ' ', lastname) [Full Name], city
FROM customer`
3. `SELECT * FROM Customer
WHERE Country = 'SWEDEN'`
4. `SELECT *
FROM supplier
ORDER BY CompanyName ASC`
5. `SELECT CompanyName, ProductName
FROM Supplier S
JOIN Product P
ON S.Id = P.Id`
6. `SELECT O.Id [Order ID], O.CustomerId [Customer ID],
CONCAT(firstname, ' ', lastname) [Customer Name]
FROM [Order] O
JOIN Customer C
ON C.id = O.CUSTOMERID`
7. `SELECT OI.orderId [Order Number], P.ProductName [Product
Name], OI.Quantity, OI.UnitPrice Price
FROM [OrderItem] OI
JOIN Product P
ON P.id = OI.PRODUCTID
ORDER BY OI.orderId`
8. `SELECT ProductName,
CASE
WHEN IsDiscontinued = 0
THEN 'Not Available'`

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ELSE 'Available'  
END AS Availability  
FROM Product
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9. SELECT CompanyName, Country,  
CASE  
    WHEN Country = 'Argentina' THEN 'Spanish'  
    WHEN Country = 'Australia' THEN 'English'  
    WHEN Country = 'Austria' THEN 'German'  
    WHEN Country = 'Germany' THEN 'German'  
    WHEN Country = 'Belgium' THEN 'Dutch, French, German'  
    WHEN Country = 'Brazil' THEN 'Portuguese'  
    WHEN Country = 'Canada' THEN 'English, French'  
    WHEN Country = 'Denmark' THEN 'Danish'  
    WHEN Country = 'Finland' THEN 'Finnish, Swedish'  
    WHEN Country = 'France' THEN 'French'  
    WHEN Country = 'Germany' THEN 'German'  
    WHEN Country = 'Ireland' THEN 'Irish, English'  
    WHEN Country = 'Italy' THEN 'Italian'  
    WHEN Country = 'Japan' THEN 'Japanese'  
    WHEN Country = 'Mexico' THEN 'Spanish'  
    WHEN Country = 'Norway' THEN 'Norwegian'  
    WHEN Country = 'Poland' THEN 'Polish'  
    WHEN Country = 'Portugal' THEN 'Portuguese'  
    WHEN Country = 'Singapore' THEN 'Mandarin Chinese'  
    WHEN Country = 'Netherlands' THEN 'Dutch'  
    WHEN Country = 'Spain' THEN 'Spanish'  
    WHEN Country = 'Sweden' THEN 'Swedish'  
    WHEN Country = 'Switzerland' THEN 'German, French, Italian,  
Romansh'  
    WHEN Country = 'UK' THEN 'English'  
    WHEN Country = 'USA' THEN 'English'  
    WHEN Country = 'Venezuela' THEN 'Spanish'
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END AS Language  
FROM Supplier
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10.    SELECT ProductName, Package  
FROM Product  
WHERE Package LIKE '%Jars%'
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11. SELECT ProductName, UnitPrice, Package  
FROM Product  
WHERE ProductName LIKE 'Ca%'
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12. SELECT SupplierId, COUNT(*) AS NumberOfProducts  
FROM Product  
GROUP BY SupplierId  
ORDER BY NumberOfProducts DESC
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13. SELECT Country, COUNT(*) AS NumberOfCustomers  
FROM Customer  
GROUP BY Country
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14. SELECT Country, COUNT(*) AS NumberOfCustomers  
FROM Customer  
GROUP BY Country  
ORDER BY NumberOfCustomers DESC
```

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15. SELECT CustomerId, SUM(TotalAmount) AS TotalOrderAmount  
FROM [Order]  
GROUP BY CustomerId  
ORDER BY TotalOrderAmount DESC
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16. SELECT Country  
FROM Supplier  
GROUP BY Country  
HAVING COUNT(*) > 2
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17. SELECT Country, COUNT(*) AS NumberOfCustomers
FROM Customer
GROUP BY Country
HAVING COUNT(*) > 10
18. SELECT Country, COUNT(*) AS NumberOfCustomers
FROM Customer
WHERE Country <> 'USA'
GROUP BY Country
HAVING COUNT(*) >= 9
ORDER BY NumberOfCustomers DESC
19. SELECT c.FirstName, c.LastName, AVG(o.TotalAmount) AS
AverageOrderAmount
FROM Customer c
JOIN [Order] o ON c.Id = o.CustomerId
GROUP BY c.FirstName, c.LastName
HAVING AVG(o.TotalAmount) BETWEEN 1000 AND 1200
20. SELECT COUNT(*) AS NumberOfOrders, SUM(TotalAmount)
AS TotalAmountSold
FROM [Order]
WHERE OrderDate BETWEEN '2013-01-01' AND '2013-01-31'