20.            Categories, and the total products in each category

SELECT CategoryName, COUNT(\*) AS TotalProducts FROM products

INNER JOIN categories ON categories.CategoryID = products.categoryID

GROUP BY CategoryName

ORDER BY TotalProducts DESC

21.             Total customers per country/city

SELECT City, Country, COUNT(\*) AS total FROM customers

GROUP BY country, city

ORDER BY total DESC

22.            Products that need reordering

SELECT ProductID, Productname, UnitsInStock, ReorderLevel

FROM products

WHERE UnitsInStock < ReorderLevel

ORDER BY productid

23.            Products that need reordering, continued

SELECT ProductID, Productname, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued

FROM products

WHERE UnitsInStock + UnitsOnOrder <= ReorderLevel AND Discontinued = 0

ORDER BY productid

24.           Customer list by region

SELECT CustomerID, CompanyName, Region FROM customers

ORDER BY (CASE

WHEN region IS NULL THEN 1

ELSE 0

END),

region, customerID

25.            High freight charges

SELECT TOP 3 ShipCountry, AVG(Freight) AS AverageFreight FROM orders

GROUP BY ShipCountry

ORDER BY AverageFreight DESC

26.            High freight charges - 2015

SELECT TOP 3 ShipCountry, AVG(Freight) AS AverageFreight FROM orders

WHERE Orderdate >= '20150101' AND Orderdate < '20160101'

GROUP BY shipcountry

ORDER BY AverageFreight DESC

27.            High freight charges with between

SELECT TOP 3 ShipCountry, AVG(Freight) AS AverageFreight FROM orders

WHERE Orderdate >= '20150101' AND Orderdate < '20160101'

GROUP BY shipcountry

ORDER BY AverageFreight DESC

28.           High freight charges - last year

SELECT TOP 3 ShipCountry, AVG(Freight) AS AverageFreight FROM Orders

WHERE OrderDate >= DATEADD(year, -1, (SELECT MAX(OrderDate) FROM orders))

GROUP BY shipcountry

ORDER BY AverageFreight DESC

29.            Inventory list

SELECT orders.EmployeeId, employees.LastName, orders.OrderID, products.ProductName, orderdetails.Quantity

FROM orders

INNER JOIN Employees ON orders.employeeID = employees.employeeID

INNER JOIN Orderdetails ON Orders.orderID = Orderdetails.orderID

INNER JOIN products ON products.productID = orderdetails.productID

ORDER BY orderID, products.ProductID

30.            Customers with no orders

SELECT customers.CustomerID, Orders.CustomerID FROM customers

LEFT JOIN Orders ON orders.customerID = customers.customerID

WHERE Orders.CustomerID IS NULL

31.             Customers with no orders for EmployeeID 4

SELECT customers.CustomerID, Orders.CustomerID FROM customers

LEFT JOIN Orders ON orders.customerID = customers.customerID AND orders.employeeID = '4'

WHERE Orders.CustomerID IS NULL