1. Выберите заказчиков из Германии, Франции и Мадрида, выведите их название, страну и адрес.

SELECT CustomerName, Country, Address FROM Customers

WHERE

Country in ('Germany','France')

OR

City = 'Madrid';

|  |  |  |
| --- | --- | --- |
| CustomerName | Country | Address |
| Alfreds Futterkiste | Germany | Obere Str. 57 |
| Blauer See Delikatessen | Germany | Forsterstr. 57 |
| Blondel père et fils | France | 24, place Kléber |
| Bólido Comidas preparadas | Spain | C/ Araquil, 67 |
| Bon app' | France | 12, rue des Bouchers |
| Drachenblut Delikatessend | Germany | Walserweg 21 |
| Du monde entier | France | 67, rue des Cinquante Otages |
| FISSA Fabrica Inter. Salchichas S.A. | Spain | C/ Moralzarzal, 86 |
| Folies gourmandes | France | 184, chaussée de Tournai |
| Frankenversand | Germany | Berliner Platz 43 |
| France restauration | France | 54, rue Royale |
| Königlich Essen | Germany | Maubelstr. 90 |
| La corne d'abondance | France | 67, avenue de l'Europe |
| La maison d'Asie | France | 1 rue Alsace-Lorraine |
| Lehmanns Marktstand | Germany | Magazinweg 7 |
| Morgenstern Gesundkost | Germany | Heerstr. 22 |
| Ottilies Käseladen | Germany | Mehrheimerstr. 369 |
| Paris spécialités | France | 265, boulevard Charonne |
| QUICK-Stop | Germany | Taucherstraße 10 |
| Romero y tomillo | Spain | Gran Vía, 1 |
| Spécialités du monde | France | 25, rue Lauriston |
| Toms Spezialitäten | Germany | Luisenstr. 48 |
| Victuailles en stock | France | 2, rue du Commerce |
| Vins et alcools Chevalier | France | 59 rue de l'Abbaye |
| Die Wandernde Kuh | Germany | Adenauerallee 900 |

2.Выберите топ 3 страны по количеству заказчиков, выведите их названия и количество записей.

SELECT DISTINCT Country, Count(CustomerName) as Number FROM Customers

GROUP BY

Country

ORDER by Number DESC

LIMIT 3;

|  |  |
| --- | --- |
| Country | number |
| USA | 13 |
| Germany | 11 |
| France | 11 |

3. Выберите перевозчика, который отправил 10-й по времени заказ, выведите его название, и дату отправления.

SELECT ship.ShipperName, ord.OrderDate FROM [Shippers] ship

JOIN [Orders] ord on ord.ShipperID = ship.ShipperID

ORDER BY ord.OrderDate ASC

LIMIT 1 OFFSET 9;

|  |  |
| --- | --- |
| ShipperName | OrderDate |
| Federal Shipping | 1996-07-16 |

4. Выберите самый дорогой заказ, выведите список товаров с их ценами.

WITH max\_order AS (SELECT orders.OrderID, SUM(prod.Price\*orders.Quantity) as OrderPrice FROM [OrderDetails] orders

JOIN [Products] prod on prod.ProductID = orders.ProductID

GROUP BY orders.OrderID

ORDER BY OrderPrice DESC

LIMIT 1 )

SELECT ord.orderID , prod.ProductName, prod.Price FROM [OrderDetails] ord

JOIN max\_order on max\_order.OrderID = ord.OrderID

JOIN [Products] prod on ord.ProductID = prod.ProductID

ORDER BY prod.Price desc

|  |  |  |
| --- | --- | --- |
| OrderID | ProductName | Price |
| 10372 | Côte de Blaye | 263.5 |
| 10372 | Sir Rodney's Marmalade | 81 |
| 10372 | Mozzarella di Giovanni | 34.8 |
| 10372 | Camembert Pierrot | 34 |

5. Какой товар больше всего заказывали по количеству единиц товара, выведите его название и количество единиц в каждом из заказов.

WITH max\_prod AS (

SELECT ProductID, SUM(Quantity) sum FROM OrderDetails

GROUP BY ProductID

ORDER BY sum DESC

LIMIT 1 )

SELECT prod.ProductName, ord.OrderID, ord.Quantity FROM OrderDetails ord

JOIN max\_prod ON max\_prod.ProductID = ord.ProductID

JOIN Products prod ON max\_prod.ProductID = prod.ProductID

ORDER BY ord.Quantity DESC

|  |  |  |
| --- | --- | --- |
| ProductName | OrderID | Quantity |
| Gorgonzola Telino | 10359 | 70 |
| Gorgonzola Telino | 10390 | 60 |
| Gorgonzola Telino | 10342 | 56 |
| Gorgonzola Telino | 10376 | 42 |
| Gorgonzola Telino | 10272 | 40 |
| Gorgonzola Telino | 10393 | 32 |
| Gorgonzola Telino | 10356 | 30 |
| Gorgonzola Telino | 10374 | 30 |
| Gorgonzola Telino | 10335 | 25 |
| Gorgonzola Telino | 10253 | 20 |
| Gorgonzola Telino | 10363 | 20 |
| Gorgonzola Telino | 10273 | 15 |
| Gorgonzola Telino | 10423 | 14 |
| Gorgonzola Telino | 10325 | 4 |

6. Выведите топ 5 поставщиков по количеству заказов, выведите их названия, страну, контактное лицо и телефон.

WITH top5 AS (

SELECT DISTINCT ord.OrderID, prod.SupplierID, count() cnt FROM [OrderDetails] ord , [Products] prod

WHERE ord.ProductID = prod.ProductID

GROUP BY prod.SupplierID

ORDER BY cnt DESC

LIMIT 5 )

SELECT SupplierName, Country, ContactName, Phone FROM Suppliers supp

JOIN top5 on top5.SupplierID = supp.SupplierID

|  |  |  |  |
| --- | --- | --- | --- |
| SupplierName | Country | ContactName | Phone |
| Plutzer Lebensmittelgroßmärkte AG | Germany | Martin Bein | (069) 992755 |
| Pavlova, Ltd. | Australia | Ian Devling | (03) 444-2343 |
| Specialty Biscuits, Ltd. | UK | Peter Wilson | (161) 555-4448 |
| Norske Meierier | Norway | Beate Vileid | (0)2-953010 |
| Formaggi Fortini s.r.l. | Italy | Elio Rossi | (0544) 60323 |

7. Какую категорию товаров заказывали больше всего по стоимости в Бразилии, выведите страну, название категории и сумму.

WITH br\_orders AS (

SELECT ord.orderID FROM [Orders] ord , [Customers] cust

WHERE ord.CustomerID = cust.CustomerID

AND cust.Country = 'Brazil' )

SELECT 'Brazil' as country , cat.CategoryName , SUM(Quantity\*Price) as Total FROM [OrderDetails] ord

JOIN br\_orders ON br\_orders.OrderID = ord.OrderID

JOIN Products prod ON ord.ProductID = prod.ProductID

JOIN Categories cat ON cat.CategoryID = prod.CategoryID

GROUP BY cat.CategoryName

ORDER BY Total desc

LIMIT 1

|  |  |  |
| --- | --- | --- |
| country | CategoryName | Total |
| Brazil | Beverages | 13690 |

8. Какая разница в стоимости между самым дорогим и самым дешевым заказом из США.

WITH

usa\_orders AS (

SELECT ord.OrderID FROM [Orders] ord, [Customers] cust

WHERE cust.CustomerID = ord.CustomerID

AND cust.Country = 'USA' ),

sum\_ord AS (

SELECT ord.OrderID, SUM(Quantity\*Price) as Total FROM [OrderDetails] ord

JOIN usa\_orders ON usa\_orders.OrderID = ord.OrderID

JOIN [Products] prod ON ord.ProductID = prod.ProductID

GROUP BY ord.OrderID )

SELECT MAX(sum\_ord.Total) - MIN(sum\_ord.Total) as USA\_orders\_diff from sum\_ord

|  |
| --- |
| USA\_orders\_diff |
| 7638.45 |

9. Выведите количество заказов у каждого их трех самых молодых сотрудников, а также имя и фамилию во второй колонке.

LIMIT 3 )

SELECT count() ord\_num, yang3.FirstName , yang3.LastName FROM [Orders] ord

JOIN yang3 ON ord.EmployeeID = yang3.EmployeeID

GROUP BY ord.EmployeeID

ORDER BY ord\_num DESC

|  |  |  |
| --- | --- | --- |
| ord\_num | FirstName | LastName |
| 31 | Janet | Leverling |
| 29 | Nancy | Davolio |
| 6 | Anne | Dodsworth |

10. Сколько банок крабового мяса всего было заказано.

SELECT SUM(quantity)\*24 as tins\_num FROM [OrderDetails]

WHERE productID = 40

|  |
| --- |
| tins\_num |
| 6144 |