```
-----Sắp xếp sản phẩm tăng dần theo UnitPrice, và tìm 20% dòng có UnitPrice cao nhất----
|Select *
From
     Select RowNum, Id, ProductName, SupplierId, UnitPrice, Package, IsDiscontinued, MAX(RowNum) over (Order by (Select 1)) AS RowLast
           Select ROW_NUMBER() OVER (ORDER BY UnitPrice) as RowNum, Id, ProductName, SupplierId, UnitPrice, Package, IsDiscontinued
           From Product
     ) as DerivedTable
) Report
Where Report.RowNum >= 0.2 * RowLast
■ Results ■ Messages
     RowNum Id ProductName
                                         SupplierId UnitPrice Package
                                                                         IsDiscontinued RowLast
                                                  12.00 4 - 450 g glasses 0
12.50 10 boxes x 8 pieces 0
    16 46 Spegesild
             68 Scottish Longbreads
             31 Gorgonzola Telino
                                                  12.50
                                                         12 - 100 g pkgs
                                                                                      78
             48 Chocolade
                                         22
                                                  12.75
                                                          10 pkgs.
                                                                                      78
             77 Original Frankfurter grüne Soße 12
                                                        24 pieces
            58 Escargots de Bourgogne 27
67 Laughing Lumberjack Lager 16
                                         27
                                                  13.25
                                                                                      78
                                                          24 - 12 oz bottles
                                                  14.00
                                                                                      78
     23
             42 Singaporean Hokkien Fried Mee 20
                                                  14.00
                                                          32 - 1 kg pkgs.
                                                                                      78
                                                         24 - 12 oz bottles
             34 Sasquatch Ale
                                                  14.00
             25 NuNuCa Nuß-Nougat-Creme
                                                          20 - 450 g glasses
 11
12
     26
             73 Röd Kaviar
                                         17
                                                  15.00
                                                         24 - 150 g jars
                                                                                      78
                                                  15.00 24 - 150 g jars 0
15.00 24 - 355 ml bottles 0
             70 Outback Lager
     28
             15 Genen Shouyu
                                                  15.50
                                                          24 - 250 ml bottles
                                                                                      78
             50 Valkoinen suklaa 23
66 Louisiana Hot Spiced Okra 2
 14
     29
                                                  16.25
                                                          12 - 100 g bars
                                                                                      78
                                                          24 - 8 oz jars
 16
                                                  17.45
                                                          32 - 500 g boxes
                                                                                      78
                                                  18.00
                                                          10 boxes x 20 bags 0
 17
                Chai
                                                  18.00
     33
             35 Steeleve Stout
                                                         24 - 12 oz bottles
```

Query executed successfully.

MSI\SQLEXPRESS (15.0 RTM) | MSI\GP65 (54) | Northwind | 00:00:00 | 63 rows

```
----Với mỗi hóa đơn, xuất danh sách các sản phẩm, số lượng (Quantity) và số phần trăm của sản phẩm đó trong hóa đơn----
|Select OrderId, Id, ProductId, Quantity, STR(Quantity*1.0/[Quantities]*100,5,2) +'%' as [Percent]
     Select distinct oi.OrderId, oi.Id, oi.ProductId, oi.Quantity, SUM(oi.Quantity) OVER(PARTITION BY oi.OrderId) as [Quantities]
     From [OrderItem] as oi
) Report
Order by OrderId, Id
Results Messages
    Orderld Id ProductId Quantity Percent
                                                                                                                                                    ^
                    12
                          44.44%
         3 72
                          18 52%
                          18.37%
                          81.63%
          6 41
                    10
                          16.67%
                   15
                          25.00%
          9 22
                          14.63%
11
          11 65
                          48 78%
12
                          38.10%
          13 33
                          23.81%
14
          14 60
                          38.10%
16
          16 39
                   42
                          41 18%
                          39.22%
          18 24
Query executed successfully.
                                                                                              MSI\SQLEXPRESS (15.0 RTM) MSI\GP65 (54) Northwind 00:00:00 2,155 rows
```

```
----Xuất danh sách các nhà cung cấp kèm theo các cột USA, UK, France, Germany, Others. Nếu nhà cung cấp nào thuộc các quốc gia này thì ta đánh số 1 còn lại là 0----
if Exists(Select * from INFORMATION_SCHEMA.TABLES
          Where TABLE_NAME = N'OrderByCountry')
    drop table OrderByCountry
end
Select Id, CompanyName, (case Country
                             when 'USA' then 'USA'
                             when 'UK' then 'UK'
                              when 'FRANCE' then 'FRANCE'
                             when 'GERMANY' then 'GERMANY'
                             else 'OTHERS'
                         end) as Country
INTO OrderByCountry
From Supplier
Select SupplierByCountry.Id, s.CompanyName,
    ISNULL(SupplierByCountry.[USA],0) as [USA],
    ISNULL(SupplierByCountry.[UK],0) as [UK],
    ISNULL(SupplierByCountry.[FRANCE],0) as [FRANCE],
    ISNULL(SupplierByCountry.[OTHERS],0) as [OTHERS]
From
    Select * From OrderByCountry
    PIVOT ( Count(Country) For Country IN ([USA],[UK],[FRANCE],[GERMANY],[OTHERS])) as PiovtedOrder
) SupplierByCountry
inner join Supplier as s on s.Id= SupplierByCountry.Id
Results Messages
   Id CompanyName

18 Aux joyeux ecclésiastiques
                                USA UK FRANCE OTHERS
       Cooperativa de Quesos 'Las Cabras' 0
   27 Escargots Nouveaux
       Exotic Liquids
   29 Forêts d'érables
    14 Formaggi Fortini s.r.l.
    28 Gai pâturage
    24 G'day, Mate
 10 3 Grandma Kelly's Homestead
    11 Heli Süßwaren GmbH & Co. KG
11
 13 20 Leka Trading
 14 21 Lyngbysild
    25 Ma Maison
       Mayumi's
    19 New England Seafood Cannery
    2 New Orleans Cajun Delights
Query executed successfully.
                                                                                                             MSI\SQLEXPRESS (15.0 RTM) MSI\GP65 (54) Northwind 00:00:00 29 rows
```

```
-----Xuất danh sách các hóa đơn gồm OrderNumber, OrderDate (format: dd mm yyyy), CustomerName, Address (format: "Phone: ....., City: ....; Select o.Id, o.OrderNumber, Format(o.OrderDate, 'dd MM yyyy') as [OrderDate], c.FirstName+' '+c.LastName as [CustomerName], 'Phone: From [Order] as o left join Customer as c on o.CustomerId = c.Id
Order by o.OrderNumber
```

.. and Country: _."), TotalAmount làm tròn không chữ số thập phân và đơn vị theo kèm là Euro)---'+c.Phone+', City: '+c.City+', Country: '+c.Country as [Address], '€'+STR(TotalAmount,5) as [TotalAmount]

```
Results Messages
      Address
Phone: 26.47.15.10, City: Reims, Country: France
                                                                                                          Phone: 0251-031259, City: Münster, Country: Germ...
                                                                                                                                                                                                    € 1863
        3 542380
4 542381
                                               08 07 2012 Mario Pontes
                                                                                                          Phone: (21) 555-0091, City: Rio de Janeiro, Country:... € 1813
Phone: 78.32.54.86, City: Lyon, Country: France € 671
                                               08 07 2012 Mary Savele
                                                                                                         Phone: (21) 555-091, Clay, Lyon, Country, France
Phone: (21) 36 7 22 20, City, Charleroi, Country, B...
6 3730
Phone: (21) 555-091, City, Rio de Janeiro, Country...
6 1445
Phone: 0452-076545, City, Bern, Country, Switzerland
6 625
                                               09 07 2012 Pascale Cartrain
10 07 2012 Mario Pontes
                                               10 07 2012 Pascale Call
10 07 2012 Mario Ponter
11 07 2012 Yang Wang
                  542385
                                               12 07 2012 Michael Holz
                                                                                                          Phone: 0897-034214, City: Genève, Country: Switzer... € 2491
          9 542386
10 542387
                                               15 07 2012 Paula Parente
16 07 2012 Carlos Hernández
                                                                                                         Phone: (14) 555-8122, City: Resende, Country: Brazil € 518
Phone: (5) 555-1340, City: San Cristóbal, Country: V... € 1120
                                               | 107 2012 | Carlina herinatina | Phone: (3795-3425, City, Grac, Juny, San Cristobal, Country, V...) |
| 170 72012 | Goland Mendel | Phone: (7875-3425, City, Grac, Quottry, Sustria 18 07 2012 | Francisco Chang | Phone: (5) 555-3392, City, México D.F., Country, Me... |
| 19 07 2012 | Henriette Pfalzheim | Phone: (9221-0644327, City, Koln, Country, Germany)
                                               19 07 2012 Bernardo Batista
           14 542391
                                              22 07 2012 Paula Wilson Phone: (505) 555-5939. City. Rio de Janeiro, Country...
23 07 2012 Roland Mendel Phone: 7675-3425, City. Graz. Country. Austria
24 07 2012 Maria Larasson
                                                                                                          Phone: (21) 555-4252, City: Rio de Janeiro, Country.... € 448
          15 542392
16 542393
```

```
----Xuất danh sách các sản phẩm dưới dạng đóng gói bags. Thay đổi chữ bags thành 'túi'----
|Select p.Id, p.ProductName, p.SupplierId, p.UnitPrice, Package = STUFF(Package, CHARINDEX('bags',Package),Len('bags'), N'Túi')
| From Product as p
| Where p.Package like '%bags%'
```

■ Results					
	ld	ProductName	Supplierld	UnitPrice	Package
1	1	Chai	1	18.00	10 boxes x 20 Túi
2	26	Gumbär Gummibärchen	11	31.23	100 - 250 g Túi
3	29	Thüringer Rostbratwurst	12	123.79	50 Túi x 30 sausgs.
4	44	Gula Malacca	20	19.45	20 - 2 kg Túi
5	64	Wimmers gute Semmelknödel	12	33.25	20 Túi x 4 pieces

```
-----Xuất danh sách các khách hàng theo tổng số hóa đơn mà khách hàng đó có,

Select CustomerID = Report.Id,

CustomerName = Report.FirstName + Space(1) + Report.LastName,

OverallOrders = Report.OverallOrders,

[RANK]=DENSE_RANK() over (Order by Report.OverallOrders),

[Group] = NTILE(3) OVER (ORDER BY Report.OverallOrders DESC)

From

(

Select c.Id, c.FirstName, c.LastName, [OverallOrders] = COUNT(ISNULL(o.Id,0))

From Customer as c left join [Order] as o on c.Id = o.CustomerId

Group by c.Id, c.FirstName, c.LastName
) Report
```