1.

from OrderItem as OI

	Orderld	Quantity	ProductId	TotalQuantity	percentOfQuantity
	1	12	11	27	44.44
	1	10	42	27	37.04
	1	5	72	27	18.52
	2	9	14	49	18.37
	2	40	51	49	81.63
	3	10	41	60	16.67
	3	35	51	60	58.33
	3	15	65	60	25.00
	4	6	22	41	14.63
)	4	15	57	41	36.59
1	4	20	65	41	48.78
	5	40	20	105	38.10
3	5	25	33	105	23.81
1	5	40	60	105	38.10
5	6	20	31	102	19.61
6	6	42	39	102	41.18
7	6	40	49	102	39.22
3	7	15	24	57	26.32

2.

Iselect O.Id, O.OrderNumber, O.CustomerId, O.OrderDate , DATENAME(dw,OrderDate) as [DayName]
from [Order] as O



3.

```
select OI.ProductId, OI.OrderId, OI.UnitPrice, OI.Quantity,
               P. ProductName.
               COALESCE(Fax, Phone) as ContactInfo,
               case coalesce(Fax, Phone) when Fax then 'Fax' else 'Phone' end as ContactType
from OrderItem as OI inner join Product as p on OI.ProductId=p.Id
        inner join Supplier as S on p.SupplierId=S.Id
Results Messages

        ProductId
        OrderId
        UnitPrice
        Quantity

        11
        1
        14.00
        12

        42
        1
        9.80
        10

                                                           (98) 598 76 54
555-8787
                                   Queso Cabrales
                                   Singaporean Hokkien Fried Mee
    72
14
                    34.80
                                   Mozzarella di Giovanni
                                                            (0544) 60603
                           40
                                  Maniimup Dried Apples
                    42.40
                                                            (02) 555-4873
                                   Jack's New England Clam Chowder
                                                            (617) 555-3389 Fax
                    42.40
                                  Manjimup Dried Apples
                                                           (02) 555-4873
                                                           (100) 555-4822 Phone
     65
                    16.80
                                  Louisiana Fiery Hot Pepper Sauce
                                  Gustaf's Knäckebröd
    57
                    15.60
                                  Ravioli Angelo
                                                            (089) 6547667 Fax
    65
20
                                  Louisiana Fiery Hot Pepper Sauce
                                                            (100) 555-4822 Phone
                                  Sir Rodney's Marmalade
                                                           (161) 555-4448 Phone
                    64.80
                                                           (0)2-953010
    33
60
                    2.00
                                  Camembert Pierrot
                                                            38.76.98.58
    31
                    10.00
                                  Gorgonzola Telino
                                                           (0544) 60603
                                  Chartreuse verte
                                                           (1) 03.83.00.62 Fax
```

MSI\SQLEXPRESS (15.0 RTM) MSI\GP65 (131) Northwind 00:00:00 2,155 rows

(953) 10956 Phone (11) 555 4640 Phone

16.00

Query executed successfully.

Maxilaku Guaraná Fantástica

```
4.
 select DB_ID('Northwind') as [Northwind], OBJECT_ID('Supplier') as [Supplier],
           USER_ID() as [UserID], USER_NAME(1) as [UserName]

        Northwind
        Supplier
        UserID
        UserName

        1
        13
        805577908
        1
        dbo

    Query executed successfully.

                                                                               MSI\SQLEXPRESS (15.0 RTM) | MSI\GP65 (131) | Northwind | 00:00:00 | 1 rows
jselect [TableName] = OBJECT_NAME( object_id),
            user updates, user seeks, user scans, user lookups
 from sys.dm db index usage stats as SIUS
 where database id = DB ID('Northwind')
 and OBJECT_NAME( object_id)='Order'

    Query executed successfully

                                                                              MSI\SQLEXPRESS (15.0 RTM) | MSI\GP65 (131) | Northwind | 00:00:00 | 1 rows
```

```
6.
jwith OrderCategory( Country, City, OrderNumber, alever)
as
(
      select Distinct Country,
      city= CAST('' as nvarchar(255)),
      orderNumber= CAST('' as nvarchar(255)),
      alever=0
      from Customer
      union all
      select C.Country,
      city= CAST(C.City as nvarchar(255)),
      orderNumber= CAST('' as nvarchar(255)),
      alever= OC.alever+1
      from OrderCategory as OC inner join Customer as C on OC.Country=C.Country
     where OC.alever=0
    union all
    select C.Country,
    city= CAST(C.City as nvarchar(255)),
    orderNumber= CAST(0.OrderNumber as nvarchar(255)),
    alever= OC.alever+1
    from OrderCategory as OC inner join Customer as C on OC.Country=C.Country and OC.City=C.City
             inner join [Order] as O on C.Id= O.CustomerId
    where OC.alever=1
select [Quoc Gia]= case when alever=0 then Country else '--' end,
       [Thanh Pho]= case when alever=1 then City else '----' end,
       [Hoa Don]= OrderNumber,
       Cap = alever
from OrderCategory
order by Country, City, OrderNumber, alever
Quoc Gia Thanh Pho
Argentina ----
             Hoa Don Can
       Buenos Aires
       Buenos Aires
             542539
             542539
             542578
             542578
             542651
             542651
             542661
             542661
Query executed successfully.
                                                              MSI\SQLEXPRESS (15.0 RTM) | MSI\GP65 (131) | Northwind | 00:00:00 | 1,529 rows
```

```
with SumQuantityByOrder as
   (
    select OI.OrderId, SumQuantity = SUM(Quantity)
   from OrderItem as OI
   group by OrderId
   ),
   CustomerByOrder as
   (
    select O.*, SQBO.SumQuantity -- Xuất hóa đơn
   from Customer as C inner join [Order] as O on C.Id=O.CustomerId
   inner join SumQuantityByOrder as SQBO on O.Id=SQBO.OrderId
   where C.Country='France'
   )
   select*
   from CustomerByOrder
   where SumQuantity>50
```

	ld	OrderDate	OrderNumber	CustomerId	TotalAmount	SumQuantity
1	50	2012-09-04 00:00:00.000	542427	7	1420.00	80
2	93	2012-10-29 00:00:00.000	542470	9	2564.40	72
3	113	2012-11-22 00:00:00.000	542490	7	7390.20	138
4	115	2012-11-25 00:00:00.000	542492	9	1549.60	94
5	161	2013-01-08 00:00:00.000	542538	23	1622.40	51
6	166	2013-01-14 00:00:00.000	542543	41	2123.20	78
7	189	2013-02-05 00:00:00.000	542566	7	2210.80	99
8	202	2013-02-18 00:00:00.000	542579	7	1838.20	69
9	212	2013-02-27 00:00:00.000	542589	84	1688.00	76
10	223	2013-03-11 00:00:00.000	542600	9	1820.80	53
11	264	2013-04-18 00:00:00.000	542641	9	3000.00	110
12	299	2013-05-23 00:00:00.000	542676	84	2812.00	80
13	319	2013-06-12 00:00:00.000	542696	7	2040.00	63
14	387	2013-08-15 00:00:00.000	542764	23	4985.50	102
15	416	2013-09-10 00:00:00.000	542793	9	2032.00	80
16	468	2013-10-23 00:00:00.000	542845	9	1296.00	51
17	508	2013-11-26 00:00:00.000	542885	9	2598.00	99
18	516	2013-12-03 00:00:00.000	542893	23	616.00	66
19	542	2013-12-22 00:00:00.000	542919	23	3687.00	93
20	567	2014-01-05 00:00:00.000	542944	84	2070.00	78
21	603	2014-01-23 00:00:00.000	542980	84	740.00	54
22	624	2014-02-05 00:00:00.000	543001	9	2083.40	78
23	685	2014-03-06 00:00:00.000	543062	9	1925.50	80