```sql
--Xuất danh sách các nhà cung cấp (gồm Id, CompanyName, ContactName, City, Country, Phone) kèm theo giá min và max của các sản phẩm mà nhà cung cấp đó
--cung cấp. Có sắp xếp theo thứ tự Id của nhà cung cấp.
SELECT s.Id , s.CompanyName, s.City , s.Country , s.Phone , MAX(p.UnitPrice) as [Max price of Suplier Product] , MIN (p.UnitPrice) as [Min price of
Suplier Product]
FROM Supplier as s left join  Product as p on s.Id = p.SupplierId
GROUP BY s.Id , s.CompanyName, s.City , s.Country , s.Phone
ORDER BY s.Id
```

	Id	CompanyName	City	Country	Phone	Max price of Suplier Product	Min price of Suplier Product
1	1	Exotic Liquids	London	UK	(171) 555-2222	19.00	10.00
2	2	New Orleans Cajun Delights	New Orleans	USA	(100) 555-4822	22.00	17.00
3	3	Grandma Kelly's Homestead	Ann Arbor	USA	(313) 555-5735	40.00	25.00
4	4	Tokyo Traders	Tokyo	Japan	(03) 3555-5011	97.00	10.00
5	5	Cooperativa de Quesos 'Las Cabras'	Oviedo	Spain	(98) 598 76 54	38.00	21.00
6	6	Mayumi's	Osaka	Japan	(06) 431-7877	23.25	6.00
7	7	Pavlova, Ltd.	Melbourne	Australia	(03) 444-2343	62.50	15.00
8	8	Specialty Biscuits, Ltd.	Manchester	UK	(161) 555-4448	81.00	9.20
9	9	PB Knäckebröd AB	Göteborg	Sweden	031-987 65 43	21.00	9.00
10	10	Refrescos Americanas LTDA	Sao Paulo	Brazil	(11) 555 4640	4.50	4.50
11	11	Heli Süßwaren GmbH & Co. KG	Berlin	Germany	(010) 9984510	43.90	14.00
12	12	Plutzer Lebensmittelgroßmärkte AG	Frankfurt	Germany	(069) 992755	123.79	7.75
13	13	Nord-Ost-Fisch Handelsgesellschaft mbH	Cuxhaven	Germany	(04721) 8713	25.89	25.89
14	14	Formaggi Fortini s.r.l.	Ravenna	Italy	(0544) 60323	34.80	12.50
15	15	Norske Meierier	Sandvika	Norway	(0)2-953010	36.00	2.50
16	16	Bigfoot Breweries	Bend	USA	(503) 555-9931	18.00	14.00
17	17	Svensk Sjöföda AB	Stockholm	Sweden	08-123 45 67	26.00	15.00
18	18	Aux joyeux ecclésiastiques	Paris	France	(1) 03.83.00.68	263.50	18.00
19	19	New England Seafood Cannery	Boston	USA	(617) 555-3267	18.40	9.65
20	20	Leka Trading	Singapore	Singap...	555-8787	46.00	14.00
21	21	Lyngbysild	Lyngby	Denmark	43844108	12.00	9.50
22	22	Zaanse Snoepfabriek	Zaandam	Netherl...	(12345) 1212	12.75	9.50
23	23	Karkki Oy	Lappeenra...	Finland	(953) 10956	20.00	16.25
24	24	G'day, Mate	Sydney	Australia	(02) 555-5914	53.00	7.00
25	25	Ma Maison	Montréal	Canada	(514) 555-9022	24.00	7.45
26	26	Pasta Buttini s.r.l.	Salerno	Italy	(089) 6547665	38.00	19.50
27	27	Escargots Nouveaux	Montceau	France	85.57.00.07	13.25	13.25
28	28	Gai pâturage	Annecy	France	38.76.98.06	55.00	34.00
29	29	Forêts d'érables	Ste-Hyacin...	Canada	(514) 555-2955	49.30	28.50

```
--- Cũng câu trên nhưng chỉ xuất danh sách nhà cung cấp có sự khác biệt giá (max - min) không quá lớn (<=30).
]SELECT s.Id , s.CompanyName, s.City , s.Country , s.Phone , MAX(p.UnitPrice) as [Max price of Suplier Product] , MIN (p.UnitPrice) as [Min price of
Suplier Product]
FROM Supplier as s left join  Product as p on s.Id = p.SupplierId
GROUP BY s.Id , s.CompanyName, s.City , s.Country , s.Phone
HAVING MAX(p.UnitPrice)-MIN(p.UnitPrice) < 30
ORDER BY s.Id
```

	Id	CompanyName	City	Country	Phone	Max price of Suplier Product	Min price of Suplier Product
1	1	Exotic Liquids	London	UK	(171) 555-2222	19.00	10.00
2	2	New Orleans Cajun Delights	New Orleans	USA	(100) 555-4822	22.00	17.00
3	3	Grandma Kelly's Homestead	Ann Arbor	USA	(313) 555-5735	40.00	25.00
4	5	Cooperativa de Quesos 'L...	Oviedo	Spain	(98) 598 76 54	38.00	21.00
5	6	Mayumi's	Osaka	Japan	(06) 431-7877	23.25	6.00
6	9	PB Knäckebröd AB	Göteborg	Swed...	031-987 65 43	21.00	9.00
7	1...	Refrescos Americanas LT...	Sao Paulo	Brazil	(11) 555 4640	4.50	4.50
8	1...	Heli Süßwaren GmbH & C...	Berlin	Germ...	(010) 9984510	43.90	14.00
9	1...	Nord-Ost-Fisch Handelsge...	Cuxhaven	Germ...	(04721) 8713	25.89	25.89
10	1...	Formaggi Fortini s.r.l.	Ravenna	Italy	(0544) 60323	34.80	12.50
11	1...	Bigfoot Breweries	Bend	USA	(503) 555-9931	18.00	14.00
12	1...	Svensk Sjöföda AB	Stockholm	Swed...	08-123 45 67	26.00	15.00
13	1...	New England Seafood Ca...	Boston	USA	(617) 555-3267	18.40	9.65
14	2...	Lyngbysild	Lyngby	Denm...	43844108	12.00	9.50
15	2...	Zaanse Snoepfabriek	Zaandam	Neth...	(12345) 1212	12.75	9.50
16	2...	Karkki Oy	Lappeenra...	Finland	(953) 10956	20.00	16.25
17	2...	Ma Maison	Montréal	Canada	(514) 555-9022	24.00	7.45
18	2...	Pasta Buttini s.r.l.	Salerno	Italy	(089) 6547665	38.00	19.50
19	2...	Escargots Nouveaux	Montceau	France	85.57.00.07	13.25	13.25
20	2...	Gai pâturage	Annecy	France	38.76.98.06	55.00	34.00
21	2...	Forêts d'érables	Ste-Hyacin...	Canada	(514) 555-2955	49.30	28.50

```sql
]--- Xuất danh sách các hóa đơn (Id, OrderNumber, OrderDate) kèm theo tổng giá chi trả (UnitPrice*Quantity) cho hóa đơn đó, bên cạnh đó có cột Description
--là "VIP" nếu tổng giá lớn hơn 1500 và "Normal" nếu tổng giá nhỏ hơn 1500
]SELECT 'VIP' as Description, o.Id,o.OrderNumber,o.OrderDate , o.TotalAmount , sum( oi.Quantity )* sum(oi.UnitPrice) as [Total Price]
FROM [Order] as o left join  OrderItem as oi on o.Id = oi.OrderId
GROUP BY o.Id,o.OrderNumber,o.OrderDate , o.TotalAmount ,oi.Quantity * oi.Quantity
HAVING sum( oi.Quantity )* sum(oi.UnitPrice) > 1500
UNION
SELECT 'Normal', o.Id,o.OrderNumber,o.OrderDate , o.TotalAmount , sum( oi.Quantity )* sum(oi.UnitPrice) as [Total Price]
FROM [Order] as o left join  OrderItem as oi on o.Id = oi.OrderId
GROUP BY o.Id,o.OrderNumber,o.OrderDate , o.TotalAmount ,oi.Quantity * oi.Quantity
HAVING sum( oi.Quantity )* sum(oi.UnitPrice) <= 1500
ORDER BY o.Id ASC
```

	Description	Id	OrderNumber	OrderDate	TotalAmount	Total Price
1	Normal	1	542378	2012-07-04 00:00:00.000	440.00	98.00
2	Normal	1	542378	2012-07-04 00:00:00.000	440.00	168.00
3	Normal	1	542378	2012-07-04 00:00:00.000	440.00	174.00
4	Normal	2	542379	2012-07-05 00:00:00.000	1863.40	167.40
5	VIP	2	542379	2012-07-05 00:00:00.000	1863.40	1696.00
6	Normal	3	542380	2012-07-08 00:00:00.000	1813.00	77.00
7	Normal	3	542380	2012-07-08 00:00:00.000	1813.00	252.00
8	Normal	3	542380	2012-07-08 00:00:00.000	1813.00	1484.00
9	Normal	4	542381	2012-07-08 00:00:00.000	670.80	100.80
10	Normal	4	542381	2012-07-08 00:00:00.000	670.80	234.00
11	Normal	4	542381	2012-07-08 00:00:00.000	670.80	336.00
12	Normal	5	542382	2012-07-09 00:00:00.000	3730.00	50.00
13	VIP	5	542382	2012-07-09 00:00:00.000	3730.00	7360.00
14	Normal	6	542383	2012-07-10 00:00:00.000	1444.80	200.00
15	Normal	6	542383	2012-07-10 00:00:00.000	1444.80	604.80
16	Normal	6	542383	2012-07-10 00:00:00.000	1444.80	640.00
17	Normal	7	542384	2012-07-11 00:00:00.000	625.20	54.00
18	Normal	7	542384	2012-07-11 00:00:00.000	625.20	1142.40
19	Normal	8	542385	2012-07-12 00:00:00.000	2490.50	304.00
20	Normal	8	542385	2012-07-12 00:00:00.000	2490.50	380.00
21	Normal	8	542385	2012-07-12 00:00:00.000	2490.50	486.50
22	Normal	8	542385	2012-07-12 00:00:00.000	2490.50	1320.00
23	Normal	9	542386	2012-07-15 00:00:00.000	517.80	124.80
24	Normal	9	542386	2012-07-15 00:00:00.000	517.80	393.00
25	Normal	1...	542387	2012-07-16 00:00:00.000	1119.90	86.40

26	Normal	1...	542387	2012-07-16 00:00:00.000	1119.90	156.00
27	Normal	1...	542387	2012-07-16 00:00:00.000	1119.90	877.50
28	Normal	1...	542388	2012-07-17 00:00:00.000	2018.60	153.60
29	Normal	1...	542388	2012-07-17 00:00:00.000	2018.60	760.00
30	Normal	1...	542388	2012-07-17 00:00:00.000	2018.60	1105.00
31	Normal	1...	542389	2012-07-18 00:00:00.000	100.80	20.80
32	Normal	1...	542389	2012-07-18 00:00:00.000	100.80	80.00
33	Normal	1...	542390	2012-07-19 00:00:00.000	1746.20	123.20
34	Normal	1...	542390	2012-07-19 00:00:00.000	1746.20	252.00
35	Normal	1...	542390	2012-07-19 00:00:00.000	1746.20	591.00
36	Normal	1...	542390	2012-07-19 00:00:00.000	1746.20	780.00
37	Normal	1...	542391	2012-07-19 00:00:00.000	448.00	896.00
38	Normal	1...	542392	2012-07-22 00:00:00.000	624.80	60.80
39	Normal	1...	542392	2012-07-22 00:00:00.000	624.80	204.00
40	Normal	1...	542392	2012-07-22 00:00:00.000	624.80	360.00
41	Normal	1...	542393	2012-07-23 00:00:00.000	2464.80	100.80
42	Normal	1...	542393	2012-07-23 00:00:00.000	2464.80	288.00
43	VIP	1...	542393	2012-07-23 00:00:00.000	2464.80	4152.00
44	Normal	1...	542394	2012-07-24 00:00:00.000	724.50	192.50
45	Normal	1...	542394	2012-07-24 00:00:00.000	724.50	532.00
46	Normal	1...	542395	2012-07-25 00:00:00.000	1176.00	240.00
47	Normal	1...	542395	2012-07-25 00:00:00.000	1176.00	936.00
48	Normal	1...	542396	2012-07-26 00:00:00.000	364.80	364.80
49	Normal	2...	542397	2012-07-29 00:00:00.000	4031.00	216.00
50	Normal	2...	542397	2012-07-29 00:00:00.000	4031.00	735.00

• • • • • •

1973	Normal	821	543198	2014-05-04 00:00:00.000	2384.80	364.80
1974	VIP	821	543198	2014-05-04 00:00:00.000	2384.80	1656.00
1975	Normal	822	543199	2014-05-04 00:00:00.000	360.00	360.00
1976	Normal	823	543200	2014-05-05 00:00:00.000	1873.50	523.50
1977	Normal	823	543200	2014-05-05 00:00:00.000	1873.50	720.00
1978	Normal	823	543200	2014-05-05 00:00:00.000	1873.50	1260.00
1979	Normal	824	543201	2014-05-05 00:00:00.000	510.00	60.00
1980	Normal	824	543201	2014-05-05 00:00:00.000	510.00	450.00
1981	Normal	825	543202	2014-05-05 00:00:00.000	5218.00	152.00
1982	Normal	825	543202	2014-05-05 00:00:00.000	5218.00	357.50
1983	Normal	825	543202	2014-05-05 00:00:00.000	5218.00	386.00
1984	VIP	825	543202	2014-05-05 00:00:00.000	5218.00	4322.50
1985	Normal	826	543203	2014-05-05 00:00:00.000	300.00	90.00
1986	Normal	826	543203	2014-05-05 00:00:00.000	300.00	210.00
1987	Normal	827	543204	2014-05-06 00:00:00.000	244.30	244.30
1988	Normal	828	543205	2014-05-06 00:00:00.000	586.00	36.00
1989	Normal	828	543205	2014-05-06 00:00:00.000	586.00	190.00
1990	Normal	828	543205	2014-05-06 00:00:00.000	586.00	360.00
1991	Normal	829	543206	2014-05-06 00:00:00.000	1057.00	92.00
1992	VIP	829	543206	2014-05-06 00:00:00.000	1057.00	1930.00
1993	Normal	830	543207	2014-05-06 00:00:00.000	1374.60	129.90
1994	Normal	830	543207	2014-05-06 00:00:00.000	1374.60	285.00
1995	Normal	830	543207	2014-05-06 00:00:00.000	1374.60	456.00
1996	VIP	830	543207	2014-05-06 00:00:00.000	1374.60	2090.00
1997	VIP	830	543207	2014-05-06 00:00:00.000	1374.60	5471.40

```
--- Xuất danh sách những hóa đơn (Id, OrderNumber, OrderDate) trong tháng 7 nhưng phải ngoại trừ ra những hóa đơn từ khách hàng France.
SELECT o.Id, o.OrderNumber, o.OrderDate
FROM [Order] as o
GROUP BY o.Id, o.OrderNumber, o.OrderDate , o.CustomerId
HAVING MONTH(o.OrderDate) = 7
EXCEPT
SELECT o.Id, o.OrderNumber, o.OrderDate
FROM [Order] as o inner join Customer as c on o.CustomerId = c.Id
WHERE c.Country = 'France'
```

	Id	OrderNumber	OrderDate
1	2	542379	2012-07-05 00:00:00.000
2	3	542380	2012-07-08 00:00:00.000
3	5	542382	2012-07-09 00:00:00.000
4	6	542383	2012-07-10 00:00:00.000
5	7	542384	2012-07-11 00:00:00.000
6	8	542385	2012-07-12 00:00:00.000
7	9	542386	2012-07-15 00:00:00.000
8	1...	542387	2012-07-16 00:00:00.000
9	1...	542388	2012-07-17 00:00:00.000
10	1...	542389	2012-07-18 00:00:00.000
11	1...	542390	2012-07-19 00:00:00.000
12	1...	542391	2012-07-19 00:00:00.000
13	1...	542392	2012-07-22 00:00:00.000
14	1...	542393	2012-07-23 00:00:00.000
15	1...	542394	2012-07-24 00:00:00.000
16	1...	542396	2012-07-26 00:00:00.000
17	2...	542397	2012-07-29 00:00:00.000
18	2...	542398	2012-07-30 00:00:00.000
19	2...	542399	2012-07-31 00:00:00.000
20	3...	542715	2013-07-01 00:00:00.000
21	3...	542716	2013-07-02 00:00:00.000
22	3...	542717	2013-07-02 00:00:00.000
23	3...	542718	2013-07-03 00:00:00.000
24	3...	542719	2013-07-04 00:00:00.000

25	3...	542720	2013-07-07 00:00:00.000
26	3...	542721	2013-07-07 00:00:00.000
27	3...	542722	2013-07-08 00:00:00.000
28	3...	542723	2013-07-09 00:00:00.000
29	3...	542724	2013-07-09 00:00:00.000
30	3...	542725	2013-07-10 00:00:00.000
31	3...	542726	2013-07-11 00:00:00.000
32	3...	542727	2013-07-11 00:00:00.000
33	3...	542728	2013-07-14 00:00:00.000
34	3...	542729	2013-07-15 00:00:00.000
35	3...	542730	2013-07-16 00:00:00.000
36	3...	542731	2013-07-16 00:00:00.000
37	3...	542732	2013-07-17 00:00:00.000
38	3...	542733	2013-07-18 00:00:00.000
39	3...	542734	2013-07-18 00:00:00.000
40	3...	542735	2013-07-21 00:00:00.000
41	3...	542736	2013-07-22 00:00:00.000
42	3...	542737	2013-07-22 00:00:00.000
43	3...	542738	2013-07-23 00:00:00.000
44	3...	542741	2013-07-25 00:00:00.000
45	3...	542742	2013-07-28 00:00:00.000
46	3...	542743	2013-07-29 00:00:00.000
47	3...	542744	2013-07-29 00:00:00.000
48	3...	542745	2013-07-30 00:00:00.000
49	3...	542746	2013-07-31 00:00:00.000
50	3...	542747	2013-07-31 00:00:00.000

```
--- Xuất danh sách những hóa đơn (Id, OrderNumber, OrderDate, TotalAmount)  nào có TotalAmount nằm trong top 5 các hóa đơn.
SELECT o.Id, o.OrderNumber, o.OrderDate , o.TotalAmount
FROM [Order] as o
WHERE o.TotalAmount in (select top 5 o1.TotalAmount from [Order] as o1)
```

	Id	OrderNumber	OrderDate	TotalAmount
1	1	542378	2012-07-04 00:00:00.000	440.00
2	2	542379	2012-07-05 00:00:00.000	1863.40
3	3	542380	2012-07-08 00:00:00.000	1813.00
4	4	542381	2012-07-08 00:00:00.000	670.80
5	5	542382	2012-07-09 00:00:00.000	3730.00