

## 20280083\_LaiToanThang\_DBM\_Lab02

```
--- 1. Xuat danh sach cac nha cung cap (gom Id, CompanyName, ContactName, City, Country, Phone)
--- kem theo gia min va max cua cac san pham ma nha cung cap do cung cap.
--- Co sap xep theo thu tu Id cua nha cung cap
--- (Goi y : Join hai ban Supplier va Product, dung GROUP BY tinh Min, Max)
--- Su dung JOIN va GROUP BY
select S.Id, S.CompanyName, S.ContactName, S.City, S.Country, S.Phone, min(P.UnitPrice) as [Min], max(P.UnitPrice) as [Max]
from Supplier as S
join Product as P
on S.Id = P.SupplierId
group by S.Id, S.CompanyName, S.ContactName, S.City, S.Country, S.Phone
order by S.Id;
```

	ld	CompanyName	ContactName	City	Country	Phone	Min	Max
1	1	Exotic Liquids	Charlotte Cooper	London	UK	(171) 555-2222	10.00	19.00
2	2	New Orleans Cajun Delights	Shelley Burke	New Orleans	USA	(100) 555-4822	17.00	22.00
3	3	Grandma Kelly's Homestead	Regina Murphy	Ann Arbor	USA	(313) 555-5735	25.00	40.00
4	4	Tokyo Traders	Yoshi Nagase	Tokyo	Japan	(03) 3555-5011	10.00	97.00
5	5	Cooperativa de Quesos 'Las Cabras'	Antonio del Valle Saavedra	Oviedo	Spain	(98) 598 76 54	21.00	38.00
6	6	Mayumi's	Mayumi Ohno	Osaka	Japan	(06) 431-7877	6.00	23.25
7	7	Pavlova, Ltd.	lan Devling	Melboume	Australia	(03) 444-2343	15.00	62.50
8	8	Specialty Biscuits, Ltd.	Peter Wilson	Manchester	UK	(161) 555-4448	9.20	81.00
9	9	PB Knäckebröd AB	Lars Peterson	Göteborg	Sweden	031-987 65 43	9.00	21.00
10	1	Refrescos Americanas LTDA	Carlos Diaz	Sao Paulo	Brazil	(11) 555 4640	4.50	4.50
11	1	Heli Süßwaren GmbH & Co. KG	Petra Winkler	Berlin	Gema	(010) 9984510	14.00	43.90
12	1	Plutzer Lebensmittelgroßmärkte AG	Martin Bein	Frankfurt	Gema	(069) 992755	7.75	123
13	1	Nord-Ost-Fisch Handelsgesellscha	Sven Petersen	Cuxhaven	Gema	(04721) 8713	25.89	25.89
14	1	Formaggi Fortini s.r.l.	Elio Rossi	Ravenna	Italy	(0544) 60323	12.50	34.80
15	1	Norske Meierier	Beate Vileid	Sandvika	Norway	(0)2-953010	2.50	36.00
16	1	Bigfoot Breweries	Cheryl Saylor	Bend	USA	(503) 555-9931	14.00	18.00
17	1	Svensk Sjöföda AB	Michael Björn	Stockholm	Sweden	08-123 45 67	15.00	26.00
18	1	Aux joyeux ecclésiastiques	Guylène Nodier	Paris	France	(1) 03.83.00.68	18.00	263
19	1	New England Seafood Cannery	Robb Merchant	Boston	USA	(617) 555-3267	9.65	18.40
20	2	Leka Trading	Chandra Leka	Singapore	Singa	555-8787	14.00	46.00
21	2	Lyngbysild	Niels Petersen	Lyngby	Denm	43844108	9.50	12.00
22	2	Zaanse Snoepfabriek	Dirk Luchte	Zaandam	Nether	(12345) 1212	9.50	12.75
23	2	Karkki Oy	Anne Heikkonen	Lappeenra	Finland	(953) 10956	16.25	20.00

## (29 rows affected)

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--- 2. Cũng câu trên nhưng chỉ xuất danh sách nhà cung cấp có
--- sự khác biệt giá (max – min) không quá lớn (<=30).(Gợi ý: Dùng HAVING)

SELECT S.Id, S.CompanyName, S.ContactName, S.City, S.Country, S.Phone, MIN(P.UnitPrice) AS [MinPrice], MAX(P.UnitPrice) AS [MaxPrice]
FROM Supplier AS S
JOIN Product AS P ON P.SupplierId = S.Id
GROUP BY S.Id, S.CompanyName, S.ContactName, S.City, S.Country, S.Phone
HAVING MAX(P.UnitPrice) - MIN(P.UnitPrice) <= 30
ORDER BY S.Id;
```

2 3 4 5 6	1	1		City	Country	Phone	MinPrice	MaxPrice
3 4 5 6	•••••	Exotic Liquids	Charlotte Cooper	London	UK	(171) 555-2222	10.00	19.00
4 5 6	2	New Orleans Cajun Delights	Shelley Burke	New Orleans	USA	(100) 555-4822	17.00	22.00
5 6 9	3	Grandma Kelly's Homestead	Regina Murphy	Ann Arbor	USA	(313) 555-5735	25.00	40.00
6 ! 7	5	Cooperativa de Quesos 'Las Cabras'	Antonio del Valle Saavedra	Oviedo	Spain	(98) 598 76 54	21.00	38.00
7	6	Mayumi's	Mayumi Ohno	Osaka	Japan	(06) 431-7877	6.00	23.25
	9	PB Knäckebröd AB	Lars Peterson	Göteborg	Sweden	031-987 65 43	9.00	21.00
В	10	Refrescos Americanas LTDA	Carlos Diaz	Sao Paulo	Brazil	(11) 555 4640	4.50	4.50
	11	Heli Süßwaren GmbH & Co. KG	Petra Winkler	Berlin	Germany	(010) 9984510	14.00	43.90
9	13	Nord-Ost-Fisch Handelsgesellschaft mbH	Sven Petersen	Cuxhaven	Germany	(04721) 8713	25.89	25.89
10	14	Formaggi Fortini s.r.l.	Elio Rossi	Ravenna	Italy	(0544) 60323	12.50	34.80
11	16	Bigfoot Breweries	Cheryl Saylor	Bend	USA	(503) 555-9931	14.00	18.00
12	17	Svensk Sjöföda AB	Michael Bjöm	Stockholm	Sweden	08-123 45 67	15.00	26.00
13	19	New England Seafood Cannery	Robb Merchant	Boston	USA	(617) 555-3267	9.65	18.40
14	21	Lyngbysild	Niels Petersen	Lyngby	Denmark	43844108	9.50	12.00
15	22	Zaanse Snoepfabriek	Dirk Luchte	Zaandam	Netherlands	(12345) 1212	9.50	12.75
16	23	Karkki Oy	Anne Heikkonen	Lappeenranta	Finland	(953) 10956	16.25	20.00
17	25	Ma Maison	Jean-Guy Lauzon	Montréal	Canada	(514) 555-9022	7.45	24.00
18	26	Pasta Buttini s.r.l.	Giovanni Giudici	Salemo	Italy	(089) 6547665	19.50	38.00
19	27	Escargots Nouveaux	Marie Delamare	Montceau	France	85.57.00.07	13.25	13.25
20	28	Gai pâturage	Eliane Noz	Annecy	France	38.76.98.06	34.00	55.00
21 :	29	Forêts d'érables	Chantal Goulet	Ste-Hyacinthe	Canada	(514) 555-2955	28.50	49.30

```
--- 3. 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(Gợi ý: Dùng UNION)
select O.Id, O.OrderNumber, O.OrderDate, OI.UnitPrice * OI.Quantity as [Tong Gia Chi Tra], 'VIP' as [Description]
from [Order] as O
join OrderItem as OI
on O.Id = OI.OrderId
where OI.UnitPrice * OI.Quantity >= 1500
UNION
{\tt select~0.Id,~0.0rderNumber,~0.0rderDate,~0I.UnitPrice~*~0I.Quantity~as~[Tong~Gia~Chi~Tra],~'Normal'~as~[Description]}
from [Order] as O
join OrderItem as OI
on O.Id = OI.OrderId
where OI.UnitPrice * OI.Quantity < 1500;
```

```
-- Sử dụng case when
select O.Id, O.OrderNumber, O.OrderDate, OI.UnitPrice * OI.Quantity as [Tong Gia Chi Tra],
(case
when OI.UnitPrice * OI.Quantity >= 1500 then 'VIP'
else 'Normal'
end) as [Description]
from [Order] as O
join OrderItem as OI
on O.Id = OI.OrderId;
```

```
-- Sử dụng IIF
select O.Id, O.OrderNumber, O.OrderDate, OI.UnitPrice * OI.Quantity as [Tong Gia Chi Tra],
IIF ((OI.UnitPrice * OI.Quantity >= 1500), 'VIP', 'Normal') as Description
from [Order] as O
join OrderItem as OI
on O.Id = OI.OrderId;
```

	ld	OrderNumber	OrderDate	Tong Gia Chi Tra	Description
1	1	542378	2012-07-04 00:00:00.000	98.00	Nomal
2	1	542378	2012-07-04 00:00:00.000	168.00	Nomal
3	1	542378	2012-07-04 00:00:00.000	174.00	Nomal
4	2	542379	2012-07-05 00:00:00.000	167.40	Nomal
5	2	542379	2012-07-05 00:00:00.000	1696.00	VIP
6	3	542380	2012-07-08 00:00:00.000	77.00	Nomal
7	3	542380	2012-07-08 00:00:00.000	252.00	Nomal
8	3	542380	2012-07-08 00:00:00.000	1484.00	Nomal
9	4	542381	2012-07-08 00:00:00.000	100.80	Nomal
10	4	542381	2012-07-08 00:00:00.000	234.00	Nomal
11	4	542381	2012-07-08 00:00:00.000	336.00	Nomal
12	5	542382	2012-07-09 00:00:00.000	50.00	Nomal
13	5	542382	2012-07-09 00:00:00.000	1088.00	Nomal
14	5	542382	2012-07-09 00:00:00.000	2592.00	VIP
15	6	542383	2012-07-10 00:00:00.000	200.00	Nomal
16	6	542383	2012-07-10 00:00:00.000	604.80	Nomal
17	6	542383	2012-07-10 00:00:00.000	640.00	Nomal
18	7	542384	2012-07-11 00:00:00.000	54.00	Nomal
19	7	542384	2012-07-11 00:00:00.000	168.00	Normal
20	7	542384	2012-07-11 00:00:00.000	403.20	Normal
21	8	542385	2012-07-12 00:00:00.000	304.00	Nomal
22	8	542385	2012-07-12 00:00:00.000	380.00	Nomal
23	8	542385	2012-07-12 00:00:00.000	486.50	Nomal
24	8	542385	2012-07-12 00:00:00.000	1320.00	Nomal
25	9	542386	2012-07-15 00:00:00.000	124.80	Nomal
26	9	542386	2012-07-15 00:00:00.000	393.00	Nomal
27	1	542387	2012-07-16 00:00:00.000	86.40	Nomal
28	1	542387	2012-07-16 00:00:00.000	156.00	Nomal

```
--- 4. Xuất danh sách những hóa đơn (Id, OrderNumber, OrderDate) trong tháng 7
--- nhưng phải ngoại trừ ra những hóa đơn từ khách hàng France. (Gợi ý: dùng EXCEPT)
--- Su dung UNION, INTERSECT va EXCEPT

SELECT O.Id, O.OrderNumber, O.OrderDate, C.Country
FROM [Order] AS O
INNER JOIN Customer as C ON C.Id = O.CustomerId
WHERE MONTH(OrderDate) = 7
EXCEPT
SELECT O.Id, O.OrderNumber, O.OrderDate, C.Country
FROM [Order] AS O
INNER JOIN Customer as C ON C.Id = O.CustomerId
WHERE C.Country = 'France';
```

```
Id OrderNumber OrderDate
                                         Country
    2 542379
                     2012-07-05 00:00:00.000 Germany
                     2012-07-08 00:00:00.000 Brazil
3
    5 542382
                    2012-07-09 00:00:00.000 Belgium
    6 542383
                    2012-07-10 00:00:00.000 Brazil
4
                 2012-07-11 00:00:00.000 Switzerland
5
         542384
                     2012-07-12 00:00:00.000 Switzerland
6
    8
         542385
     9
         542386
                     2012-07-15 00:00:00.000
8
     10 542387
                     2012-07-16 00:00:00.000 Venezuela
9
     11 542388
                     2012-07-17 00:00:00.000 Austria
10
    12 542389
                    2012-07-18 00:00:00.000 Mexico
    13 542390
                    2012-07-19 00:00:00.000 Germany
                  2012-07-19 00:00:00.000 Brazil
12
    14 542391
                 2012-07-22 00:00:00.000 USA
    15 542392
13
                 2012-07-23 00:00:00.000
    16 542393
14
                                          Austria
15
     17
                     2012-07-24 00:00:00.000
         542394
                                          Sweden
16
     19
         542396
                     2012-07-26 00:00:00.000
                 2012-07-29 00:00:00.000 Germany
17
    20 542397
                 2012-07-30 00:00:00.000 Venezuela
    21 542398
18
   22 542399
19
                    2012-07-31 00:00:00.000 USA
20 3... 542715
                    2013-07-01 00:00:00.000 Brazil
21 3... 542716
                    2013-07-02 00:00:00.000 Italy
   3... 542717
                   2013-07-02 00:00:00.000 Brazil
22
    3... 542718
23
                     2013-07-03 00:00:00.000 Germany
24
        542719
                     2013-07-04 00:00:00.000 USA
    3... 542720
25
                     2013-07-07 00:00:00.000 Canada
                 2013-07-07 00:00:00.000 Denmark
26
    3... 542721
                  2013-07-08 00:00:00.000 Germany
27
    3... 542722
28
    3... 542723
                   2013-07-09 00:00:00.000 Germany
                 2013-07-09 00:00:00.000 USA
29
   3... 542724
                 2013-07-10 00:00:00.000 Austria
    3... 542725
30
                 2013-07-11 00:00:00.000 USA
    3... 542726
31
32
    3... 542727
                     2013-07-11 00:00:00.000
                                          Austria
33
     3...
        542728
                     2013-07-14 00:00:00.000 USA
34
    3... 542729
                     2013-07-15 00:00:00 000 UK
                 2013-07-16 00:00:00.000 USA
    3... 542730
35
```

```
--- 5. Xuất danh sách những hóa đơn (Id, OrderNumber, OrderDate, TotalAmount)
--- nào có TotalAmount nằm trong top 5 các hóa đơn. (Gợi ý : Dùng IN)
select O.Id, O.OrderNumber, O.OrderDate, O.TotalAmount
from [Order] as O
where TotalAmount in (
select Top 5 TotalAmount
from [Order] as O
order by TotalAmount desc
);
```

	ld	OrderNumber	OrderDate	TotalAmount
1	125	542502	2012-12-04 00:00:00.000	12281.20
2	177	542554	2013-01-23 00:00:00.000	11493.20
3	618	542995	2014-02-02 00:00:00.000	17250.00
4	734	543111	2014-03-27 00:00:00.000	15810.00
5	783	543160	2014-04-17 00:00:00.000	16321.90