



# 20280083\_LaiToanThang\_DBM\_Lab01

```
use Northwind;
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```
--- 1. Truy vấn danh sách các Customer  
select *  
from Customer;
```

	Id	FirstName	LastName	City	Country	Phone
1	1	Maria	Anders	Berlin	Germany	030-0074321
2	2	Ana	Trujillo	México D.F.	Mexico	(5) 555-4729
3	3	Antonio	Moreno	México D.F.	Mexico	(5) 555-3932
4	4	Thomas	Hardy	London	UK	(171) 555-7788
5	5	Christina	Berglund	Luleå	Sweden	0921-12 34 65
6	6	Hanna	Moos	Mannheim	Germany	0621-08460
7	7	Frédérique	Citeaux	Strasbourg	France	88.60.15.31
8	8	Martín	Sommer	Madrid	Spain	(91) 555 22 82
9	9	Laurence	Lebihan	Marseille	France	91.24.45.40
10	10	Elizabeth	Lincoln	Tsawassen	Canada	(604) 555-4729
11	11	Victoria	Ashworth	London	UK	(171) 555-1212
12	12	Patricio	Simpson	Buenos Aires	Argentina	(1) 135-5555
13	13	Francisco	Chang	México D.F.	Mexico	(5) 555-3392
14	14	Yang	Wang	Bern	Switzerland	0452-076545
15	15	Pedro	Afonso	Sao Paulo	Brazil	(11) 555-7647
16	16	Elizabeth	Brown	London	UK	(171) 555-2282
17	17	Sven	Ottlieb	Aachen	Germany	0241-039123
18	18	Janine	Labrune	Nantes	France	40.67.88.88
19	19	Ann	Devon	London	UK	(171) 555-0297
20	20	Roland	Mendel	Graz	Austria	7675-3425
21	21	Aria	Cruz	Sao Paulo	Brazil	(11) 555-9857
22	22	Diego	Roel	Madrid	Spain	(91) 555 94 44
23	23	Martine	Rancé	Lille	France	20.16.10.16
24	24	Maria	Larsson	Bräcke	Sweden	0695-34 67 21
25	25	Peter	Franken	München	Germany	089-0877310
26	26	Carine	Schmitt	Nantes	France	40.32.21.21
27	27	Paolo	Accorti	Torino	Italy	011-4988260
28	28	Lino	Rodriguez	Lisboa	Portugal	(1) 354-2534

```

--- 2. Truy vấn danh sách các Customer theo các thông tin Id, FullName (là kết hợp FirstName-LastName), City, Country
select Id, FirstName + ' ' + LastName as FullName, City, Country
from Customer;

```

	Id	FullName	City	Country
1	1	Maria Anders	Berlin	Germany
2	2	Ana Trujillo	México D.F.	Mexico
3	3	Antonio Moreno	México D.F.	Mexico
4	4	Thomas Hardy	London	UK
5	5	Christina Berglund	Luleå	Sweden
6	6	Hanna Moos	Mannheim	Germany
7	7	Frédérique Citeaux	Strasbourg	France
8	8	Martin Sommer	Madrid	Spain
9	9	Laurence Leblanc	Marseille	France
10	1...	Elizabeth Lincoln	Tsawassen	Canada
11	1...	Victoria Ashworth	London	UK
12	1...	Patricio Simpson	Buenos Ai...	Argenti...
13	1...	Francisco Chang	México D.F.	Mexico
14	1...	Yang Wang	Bern	Switzer...
15	1...	Pedro Afonso	Sao Paulo	Brazil
16	1...	Elizabeth Brown	London	UK
17	1...	Sven Ottlieb	Aachen	Germany
18	1...	Janine Labrune	Nantes	France
19	1...	Ann Devon	London	UK
20	2...	Roland Mendel	Graz	Austria
21	2...	Aria Cruz	Sao Paulo	Brazil
22	2...	Diego Roel	Madrid	Spain
23	2...	Martine Rancé	Lille	France
24	2...	Maria Larsson	Bräcke	Sweden
25	2...	Peter Franken	München	Germany
26	2...	Carine Schmitt	Nantes	France
27	2...	Paolo Accorti	Torino	Italy
28	2...	Lino Rodriguez	Lisboa	Portugal

```

--- 3. Cho biết có bao nhiêu khách hàng từ Germany và UK, đó là những khách hàng nào
select count(*) as [Number of Customer], Country
from Customer
where Country = 'Germany' or Country = 'UK'
group by Country

```

	Number of Customer	Country
1	11	Germany
2	7	UK

```
select *
from Customer
where Country = 'Germany' or Country = 'UK';
```

	Id	FirstName	LastName	City	Country	Phone
1	1	Maria	Anders	Berlin	Germany	030-0074321
2	4	Thomas	Hardy	London	UK	(171) 555-7788
3	6	Hanna	Moos	Mannheim	Germany	0621-08460
4	11	Victoria	Ashworth	London	UK	(171) 555-1212
5	16	Elizabeth	Brown	London	UK	(171) 555-2282
6	17	Sven	Ottlieb	Aachen	Germany	0241-039123
7	19	Ann	Devon	London	UK	(171) 555-0297
8	25	Peter	Franken	München	Germany	089-0877310
9	38	Helen	Bennett	Cowes	UK	(198) 555-8888
10	39	Philip	Cramer	Brandenburg	Germany	0555-09876
11	44	Renate	Messner	Frankfurt a.M.	Germany	069-0245984
12	52	Alexander	Feuer	Leipzig	Germany	0342-023176
13	53	Simon	Crowther	London	UK	(171) 555-7733
14	56	Henriette	Pfalzheim	Köln	Germany	0221-0644327
15	63	Horst	Kloss	Cunewalde	Germany	0372-035188
16	72	Hari	Kumar	London	UK	(171) 555-1717
17	79	Karin	Josephs	Münster	Germany	0251-031259
18	86	Rita	Müller	Stuttgart	Germany	0711-020361

```
--- 4. Liệt kê danh sách khách hàng theo thứ tự tăng dần của FirstName và giảm dần của Country
select *
from Customer
order by FirstName asc, Country desc;
```

	Id	FirstName	LastName	City	Country	Phone
1	69	Alejandra	Camino	Madrid	Spain	(91) 745 6200
2	52	Alexander	Feuer	Leipzig	Germany	0342-023176
3	2	Ana	Trujillo	México D.F.	Mexico	(5) 555-4729
4	81	Anabela	Domingues	Sao Paulo	Brazil	(11) 555-2167
5	31	André	Fonseca	Campinas	Brazil	(11) 555-9482
6	19	Ann	Devon	London	UK	(171) 555-0297
7	41	Annette	Roulet	Toulouse	France	61.77.61.10
8	3	Antonio	Moreno	México D.F.	Mexico	(5) 555-3932
9	21	Aria	Cruz	Sao Paulo	Brazil	(11) 555-9857
10	75	Art	Braunschweiler	Lander	USA	(307) 555-4680
11	61	Bernardo	Batista	Rio de Janeiro	Brazil	(21) 555-4252
12	26	Carine	Schmitt	Nantes	France	40.32.21.21
13	35	Carlos	Hernández	San Cristóbal	Venezuela	(5) 555-1340
14	46	Carlos	González	Barquisimeto	Venezuela	(9) 331-6954
15	50	Catherine	Dewey	Bruxelles	Belgium	(02) 201 24 67
16	5	Christina	Berglund	Luleå	Sweden	0921-12 34 65
17	40	Daniel	Tonini	Versailles	France	30.59.84.10
18	22	Diego	Roel	Madrid	Spain	(91) 555 94 44
19	74	Dominique	Pemier	Paris	France	(1) 47.55.60.10
20	29	Eduardo	Saavedra	Barcelona	Spain	(93) 203 4560
21	16	Elizabeth	Brown	London	UK	(171) 555-2282
22	10	Elizabeth	Lincoln	Tsawassen	Canada	(604) 555-4729
23	47	Felipe	Izquierdo	I. de Margarita	Venezuela	(8) 34-56-12
24	48	Fran	Wilson	Portland	USA	(503) 555-9573
25	13	Francisco	Chang	México D.F.	Mexico	(5) 555-3392

```

--- 5. Truy vấn danh sách các khách hàng với ID là 5,10, từ 1-10, và từ 5-10
select *
from Customer
where Id in (5, 10);

```

	Id	FirstName	LastName	City	Country	Phone
1	5	Christina	Berglund	Luleå	Sweden	0921-12 34 65
2	10	Elizabeth	Lincoln	Tsawassen	Canada	(604) 555-4729

```

select *
from Customer
where Id between 1 and 10;

```

	Id	FirstName	LastName	City	Country	Phone
1	1	Maria	Anders	Berlin	Germany	030-0074321
2	2	Ana	Trujillo	México D.F.	Mexico	(5) 555-4729
3	3	Antonio	Moreno	México D.F.	Mexico	(5) 555-3932
4	4	Thomas	Hardy	London	UK	(171) 555-7788
5	5	Christina	Berglund	Luleå	Sweden	0921-12 34 65
6	6	Hanna	Moos	Mannheim	Germany	0621-08460
7	7	Frédérique	Citeaux	Strasbourg	France	88.60.15.31
8	8	Martín	Sommer	Madrid	Spain	(91) 555 22 82
9	9	Laurence	Lebihan	Marseille	France	91.24.45.40
10	10	Elizabeth	Lincoln	Tsawassen	Canada	(604) 555-4729

```
select *
from Customer
where Id between 5 and 10;
```

	Id	FirstName	LastName	City	Country	Phone
1	5	Christina	Berglund	Luleå	Sweden	0921-12 34 65
2	6	Hanna	Moos	Mannheim	Germany	0621-08460
3	7	Frédérique	Citeaux	Strasbourg	France	88.60.15.31
4	8	Martín	Sommer	Madrid	Spain	(91) 555 22 82
5	9	Laurence	Lebihan	Marseille	France	91.24.45.40
6	10	Elizabeth	Lincoln	Tsawassen	Canada	(604) 555-4729

```
--- 6. Truy vấn các khách hàng ở các sản phẩm (Product) mà đóng gói dưới dạng bottles
--- có giá từ 15 đến 20 mà không từ nhà cung cấp có ID là 16.
select C.Id as [Customer Id],
       C.FirstName + C.LastName as [Full Name],
       P.Id as [Product Id],
       P.ProductName, P.UnitPrice,
       S.Id as [Supplier Id],
       S.CompanyName as [Supplier Name],
       Package
from Customer as C
join [Order] as O
on C.Id = O.CustomerId
join OrderItem as OI
on O.Id = OI.OrderId
join Product as P
on OI.ProductId = P.Id
join Supplier as S
on P.SupplierId = S.Id
where Package like '%bottles%'
and P.UnitPrice between 15 and 20
and S.Id <> 16;
```

	Customer Id	Full Name	Product Id	ProductName	UnitPrice	Supplier Id	Supplier Name	Package
1	2	AnaTrujillo	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
2	3	AntonioMoreno	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
3	4	ThomasHardy	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
4	4	ThomasHardy	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
5	4	ThomasHardy	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
6	5	ChristinaBerglund	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
7	7	FrédériqueCiteaux	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
8	10	ElizabethLincoln	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
9	11	VictoriaAshworth	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
10	14	YangWang	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
11	16	ElizabethBrown	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
12	20	RolandMendel	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
13	20	RolandMendel	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
14	20	RolandMendel	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
15	20	RolandMendel	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
16	24	MariaLarsson	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
17	24	MariaLarsson	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
18	24	MariaLarsson	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
19	24	MariaLarsson	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
20	24	MariaLarsson	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
21	25	PeterFranken	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
22	30	JoséPedro Freyre	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
23	30	JoséPedro Freyre	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
24	31	AndréFonseca	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
25	32	HowardSnyder	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
26	35	CarlosHemández	70	Outback Lager	15.00	7	Pavlova, Ltd.	24 - 355 ml bottles
27	35	CarlosHemández	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
28	37	PatriciaMcKenna	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles
29	37	PatriciaMcKenna	2	Chang	19.00	1	Exotic Liquids	24 - 12 oz bottles