

# AND , OR , NOT

AND：交集，顯示同時符合多個條件的資料

NOT：差集，顯示不符合某條件的資料

OR：聯集，只要符合條件的資料都會顯示出來

## AND

```
SELECT * FROM Customers

WHERE Country='Germany' AND City='Berlin';

# 下圖中，顯示Country列中含'Germany' 和 City列中含'Berlin' 的資料
```

SQL Statement:

```
SELECT * FROM Customers
WHERE Country='Germany' AND City='Berlin';
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL →

Result:

Number of Records: 1

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany

=====

## NOT

```
SELECT * FROM Customers
WHERE NOT Country='Germany';
```

#下圖中，只顯示Country列中不含'Germany' 的資料

SQL Statement:

```
SELECT * FROM Customers
WHERE NOT Country='Germany';
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 80

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
8	Bóldo Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina

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OR

```
SELECT * FROM Customers
WHERE Country='Germany' OR Country='Spain';
```

#下圖中，顯示Country列中含'Germany' 或是'Spain' 的資料

#### SQL Statement:

```
SELECT * FROM Customers
WHERE Country='Germany' OR Country='Spain';
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

#### Result:

Number of Records: 16

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
6	Blauer See Delikatessen	Hanna Moos	Forsterstr. 57	Mannheim	68306	Germany
8	Bólido Comidas preparadas	Martin Sommer	C/ Araquil, 67	Madrid	28023	Spain
17	Drachenblut Delikatessend	Sven Ottlieb	Walservweg 21	Aachen	52066	Germany
22	FISSA Fabrica Inter. Salchichas S.A.	Diego Roel	C/ Moralzarzal, 86	Madrid	28034	Spain
25	Frankenversand	Peter Franken	Berliner Platz 43	München	80805	Germany
29	Galería del gastrónomo	Eduardo Saavedra	Rambla de Cataluña, 23	Barcelona	08022	Spain
30	Godos Cocina Típica	José Pedro Freyre	C/ Romero, 33	Sevilla	41101	Spain
30	Königlich Essen	Philipp Cramer	Maubeitestr. 90	Brandenburg	14776	Germany

## AND,OR,NOT 指令結合

```
SELECT * FROM Customers
WHERE Country='Germany' AND (City='Berlin' OR City='München');

# 顯示出 Country列是'Germany' 和 City列中'Berlin' 或是 'München' 的資料
```

#### SQL Statement:

```
SELECT * FROM Customers
WHERE Country='Germany' AND (City='Berlin' OR City='München');
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

#### Result:

Number of Records: 2

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
1	Alfreds Futterkiste	Maria Anders	Obere Str. 57	Berlin	12209	Germany
25	Frankenversand	Peter Franken	Berliner Platz 43	München	80805	Germany

=====

```
SELECT * FROM Customers
WHERE NOT Country='Germany' AND NOT Country='USA';
```

# 顯示出 Country列中 不是 'Germany' 和 不是 'USA' 的資料

SQL Statement:

```
SELECT * FROM Customers
WHERE NOT Country='Germany' AND NOT Country='USA';
```

Edit the SQL Statement, and click "Run SQL" to see the result.

Run SQL »

Result:

Number of Records: 67

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
2	Ana Trujillo Emparedados y helados	Ana Trujillo	Avda. de la Constitución 2222	México D.F.	05021	Mexico
3	Antonio Moreno Taquería	Antonio Moreno	Mataderos 2312	México D.F.	05023	Mexico
4	Around the Horn	Thomas Hardy	120 Hanover Sq.	London	WA1 1DP	UK
5	Berglunds snabbköp	Christina Berglund	Berguvsvägen 8	Luleå	S-958 22	Sweden
7	Blondel père et fils	Frédérique Citeaux	24, place Kléber	Strasbourg	67000	France
8	Bóldo Comidas preparadas	Martín Sommer	C/ Araquil, 67	Madrid	28023	Spain
9	Bon app'	Laurence Lebihans	12, rue des Bouchers	Marseille	13008	France
10	Bottom-Dollar Marketse	Elizabeth Lincoln	23 Tsawassen Blvd.	Tsawassen	T2F 8M4	Canada
11	B's Beverages	Victoria Ashworth	Fauntleroy Circus	London	EC2 5NT	UK
12	Cactus Comidas para llevar	Patricio Simpson	Cerrito 333	Buenos Aires	1010	Argentina
13	Centro comercial Moctezuma	Francisco Chang	Sierras de Granada 9993	México D.F.	05022	Mexico
14	Chop-suey Chinese	Yang Wang	Hauptstr. 29	Bern	3012	Switzerland
15	Comércio Mineiro	Pedro Afonso	Av. dos Lusíadas, 23	São Paulo	05432-043	Brazil