

# SQL GROUP BY Statement

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## The SQL GROUP BY Statement

The **GROUP BY** statement groups rows that have the same values into summary rows, like "find the number of customers in each country".

The **GROUP BY** statement is often used with aggregate functions ( **COUNT()** , **MAX()** , **MIN()** , **SUM()** , **AVG()** ) to group the result-set by one or more columns.

### GROUP BY Syntax

```
SELECT column_name(s)
FROM table_name
WHERE condition
GROUP BY column_name(s)
ORDER BY column_name(s);
```

## Demo Database

Below is a selection from the "Customers" table in the Northwind sample database:

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

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

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## SQL GROUP BY Examples

The following SQL statement lists the number of customers in each country:

### Example

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```
SELECT COUNT(CustomerID), Country  
FROM Customers  
GROUP BY Country;
```

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The following SQL statement lists the number of customers in each country, sorted high to low:

### Example

```
SELECT COUNT(CustomerID), Country  
FROM Customers  
GROUP BY Country  
ORDER BY COUNT(CustomerID) DESC;
```

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## Demo Database

Below is a selection from the "Orders" table in the Northwind sample database:

OrderID	CustomerID	EmployeeID	OrderDate	ShipperID
10248	90	5	1996-07-04	3
10249	81	6	1996-07-05	1
10250	34	4	1996-07-08	2

And a selection from the "Shippers" table:

ShipperID	ShipperName
1	Speedy Express
2	United Package
3	Federal Shipping

# GROUP BY With JOIN Example

The following SQL statement lists the number of orders sent by each shipper:

## Example

```
SELECT Shippers.ShipperName, COUNT(Orders.OrderID) AS NumberOfOrders FROM Orders  
LEFT JOIN Shippers ON Orders.ShipperID = Shippers.ShipperID  
GROUP BY ShipperName;
```

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## Test Yourself With Exercises

### Exercise:

List the number of customers in each country.

```
SELECT      (CustomerID),  
Country  
FROM Customers  
;
```

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