



Answers to 50 NorthWind Database Practice Queries using MySQL

NB: Please note that the default order for sorting queries/column in SQL is **ASC** when using the **ORDER BY** clause.

```
CREATE DATABASE IF NOT EXISTS northwind;
```

```
USE northwind;
```

1.

```
SELECT CategoryName, Description
FROM northwind.categories
ORDER BY CategoryName;
```
2.

```
SELECT ContactName, CompanyName, ContactTitle, Phone
From northwind.customers
ORDER BY Phone;
```
3.

```
SELECT UPPER(FirstName) AS FirstName, UPPER( LastName) AS LastName, HireDate
FROM northwind.employees
ORDER BY HireDate;
```
4.

```
SELECT OrderID, OrderDate, ShippedDate, CustomerID, Freight
FROM northwind.orders
ORDER BY Freight Desc
LIMIT 10;
```
5.

```
SELECT lower(CustomerID) AS ID
FROM northwind.customers;
```
6.

```
SELECT CompanyName, Fax, Phone,Country, HomePage
FROM northwind.suppliers
ORDER BY Country DESC, CompanyName ;
```
7.

```
SELECT CompanyName,ContactName
FROM northwind.customers
WHERE City = 'Buenos Aires';
```
8.

```
SELECT "ProductName", "UnitPrice", QuantityPerUnit"
FROM "Products"
WHERE "UnitsInStock" = 0
```
9.

```
SELECT ContactName, Address, City
FROM northwind.customers
WHERE Country NOT IN ("Germany", "Mexico", "Spain");
```
10.

```
SELECT OrderDate, ShippedDate, CustomerID, Freight
FROM northwind.orders
WHERE OrderDate = '1996-05-21 ';
```
11.

```
SELECT FirstName,LastName,Country
FROM northwind.employees
WHERE Country <> 'USA';
```

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12.

```
SELECT EmployeeID,OrderID,CustomerID,RequiredDate,ShippedDate
FROM northwind.orders
WHERE ShippedDate > RequiredDate;
```
13.

```
SELECT City,CompanyName,ContactName
FROM northwind.customers
WHERE City LIKE "A%" OR City LIKE "B%";
```
14.

```
SELECT OrderID
FROM northwind.orders
WHERE mod(OrderID,2)=0;
```
15.

```
SELECT *
FROM northwind.orders
WHERE Freight > 500;
```
16.

```
SELECT ProductName, UnitsInStock,UnitsOnOrder,ReorderLevel
FROM northwind.products
WHERE ReorderLevel = 0;
```
17.

```
SELECT CompanyName,ContactName,Fax
FROM northwind.customers
WHERE Fax IS NULL;
```
18.

```
SELECT FirstName, LastName
FROM northwind.employees
WHERE ReportsTo IS NULL;
```
19.

```
SELECT OrderID
FROM northwind.orders
WHERE mod(OrderID,2)=1;
```
20.

```
SELECT CompanyName,ContactName,Fax
FROM northwind.customers
WHERE Fax IS NULL
ORDER BY ContactName;
```
21.

```
SELECT City,CompanyName,ContactName,city
FROM northwind.customers
WHERE City LIKE "%L%"
ORDER BY ContactName;
```
22.

```
SELECT FirstName, LastName,BirthDate
FROM northwind.employees
where BirthDate >= '1950-01-01'
AND BirthDate < '1960-01-01';
```

OR

```
SELECT FirstName, LastName,BirthDate
FROM northwind.employees
where BirthDate Between '1950-01-01'
AND '1959-12-31';
```

23. SELECT LastName, FirstName, extract(year from Birthdate) AS BirthYear
FROM northwind.employees;
24. SELECT OrderID, count(OrderID) as NumberofOrders
FROM northwind.`order details`
GROUP BY OrderID
ORDER BY NumberofOrders DESC ;
25. SELECT s.SupplierID, p.ProductName, S.CompanyName
FROM northwind.suppliers s
JOIN northwind.products p
ON s.SupplierID = p.SupplierID
WHERE s.CompanyName IN ('Exotic Liquids','Specialty Biscuits, Ltd.','Escargots Nouveaux')
ORDER BY s.SupplierID;
26. SELECT ShipPostalCode, OrderID, OrderDate, RequiredDate, ShippedDate,ShipAddress
FROM northwind.orders
WHERE ShipPostalCode = '98124';
27. SELECT ContactName, ContactTitle, CompanyName
FROM northwind.customers
WHERE ContactTitle NOT LIKE "%Sales%";
28. SELECT LastName, FirstName, City
FROM northwind.employees
WHERE City != "Seattle";
29. SELECT CompanyName, ContactTitle, City, Country
FROM northwind.customers
WHERE Country IN ("Mexico","Spain")
AND City <> "Madrid";
30. SELECT CONCAT(FirstName,' ', LastName , ' can be reached at ', 'x',Extension) AS Contactinfo
FROM northwind.employees;
31. SELECT ContactName
FROM northwind.customers
where ContactName NOT like "_A%";
32. SELECT round (avg (UnitPrice),0) AS AveragePrice,
SUM(UnitsInStock) AS TotalStock,
max(UnitsOnOrder) as MaxOrder
FROM northwind.products;

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33. SELECT s.SupplierID, s.CompanyName, c.CategoryName, p.ProductName, p.UnitPrice
FROM northwind.products p
JOIN northwind.suppliers s
ON s.SupplierID = p.SupplierID
JOIN northwind.categories C
ON c.CategoryID = p.CategoryID;
34. SELECT CustomerID, sum(Freight)
FROM northwind.orders
GROUP BY CustomerID
HAVING sum(Freight) > "200";
35. SELECT od.OrderID, c.ContactName, od.UnitPrice, od.Quantity, od.Discount
FROM northwind.`order details` od
JOIN northwind.orders o
ON od.OrderID = o.OrderID
JOIN northwind.customers c
ON c.CustomerID = o.CustomerID
WHERE od.Discount != '0';
36. SELECT a.EmployeeID,
CONCAT (a.LastName, " ", a.FirstName)as employee,
CONCAT (b.LastName, " ", b.FirstName) as manager
FROM northwind.employees a
LEFT JOIN northwind.employees b
ON b.EmployeeID = a.ReportsTo
ORDER BY a.EmployeeID;
37. SELECT avg(UnitPrice) AS AveragePrice,
min(UnitPrice)AS MinimumPrice,
max(UnitPrice)AS MaximumPrice
from northwind.products;
38. CREATE VIEW CustomerInfo AS
SELECT c.CustomerID, c.CompanyName, c.ContactName, c.ContactTitle, c.Address,
c.City, c.Country, c.Phone, o.OrderDate, o.RequiredDate, o.ShippedDate
FROM
northwind.customers c
JOIN
northwind.orders o
ON c.CustomerID = o.CustomerID;
39. RENAME TABLE customerinfo TO CustomerDetails;

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40. CREATE VIEW ProductDetails AS
 SELECT
 p.ProductID,S.CompanyName,
 p.ProductName,c.CategoryName, c.Description,
 p.QuantityPerUnit, p.UnitPrice, p.UnitsInStock, p.UnitsOnOrder,
 p.ReorderLevel, p.Discontinued
 FROM northwind.suppliers s
 JOIN northwind.products p ON s.SupplierID = p.SupplierID
 JOIN northwind.categories c
 ON c.CategoryID = p.CategoryID;

41. DROP VIEW IF EXISTS customerdetails;

42. SELECT substring(CategoryName,1,5) as Short_info
 FROM northwind.categories;

43. DROP table IF exists shippers_dup;
 CREATE TABLE shippers_dup (LIKE northwind.shippers);
 INSERT INTO shippers_dup SELECT * FROM northwind.shippers;

44. ALTER TABLE shippers_dup
 ADD column Email VARCHAR(50);

 UPDATE northwind.shippers_dup
 SET Email ='speedyexpress@gmail.com'
 WHERE ShipperID = '1';

 UPDATE northwind.shippers_dup
 SET Email ='unitedpackage@gmail.com'
 WHERE ShipperID = '2';

 UPDATE northwind.shippers_dup
 SET Email ='federalshipping@gmail.com'
 WHERE ShipperID = '3';

45. SELECT s.CompanyName,p.ProductName
 FROM northwind.categories c
 JOIN northwind.products p
 ON c.CategoryID = p.CategoryID
 JOIN northwind.suppliers s
 ON s.SupplierID = p.SupplierID
 WHERE CategoryName = "Seafood";

46. SELECT c.CategoryID, s.CompanyName, p.ProductName
 FROM northwind.categories c
 JOIN northwind.products p
 ON c.CategoryID = p.CategoryID
 JOIN northwind.suppliers s
 ON s.SupplierID = p.SupplierID
 WHERE c.CategoryID = "5";

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47. DROP table IF exists shippers_dup;
48. SELECT LastName, FirstName, Title,DATE_FORMAT(FROM_DAYS(DATEDIFF(CURRENT_DATE, BirthDate)),'%y Years ')
AS Age from northwind.employees;
49. SELECT c.CompanyName, count(c.CustomerID) AS NumberofOrders
FROM northwind.customers c
JOIN northwind.orders o
ON o.CustomerID = c.CustomerID
WHERE o.OrderDate >= '1994-12-31'
GROUP BY c.CustomerID
having count(c.CustomerID) > 10;
50. SELECT CONCAT(ProductName,' ', "weighs/is" , " ", QuantityPerUnit, " ", "and cost ", "\$",ROUND(UnitPrice)) AS
ProductInfo
FROM northwind.products;