

# SQL WITH NORTHWIND

## Objectives: SQL Statements

**Task:** Practice writing SQL statements on the Northwind database.

### What will the application do?

Write SQL queries to do the following:

1. Select all the rows from the "Customers" table.
2. Get distinct countries from the Customers table. (Hint: research the DISTINCT keyword.)
3. Get all the rows from the table Customers where the Customer's ID starts with "BL".
4. Get the first 100 records of the orders table. (Hint: research the TOP keyword.)  
DISCUSS: Why would you do this? What else would you likely need to include in this query?
5. Get all customers that live in the postal codes 1010, 3012, 12209, and 05023. (Hint: research the IN keyword.)
6. Get all orders where the ShipRegion is not equal to NULL.
7. Get all customers ordered by the country, then by the city.
8. Add a new customer to the customers table. You can use whatever values.
9. Update all ShipRegion to the value 'EuroZone' in the Orders table, where the ShipCountry is equal to France.
10. Delete all orders from OrderDetails that have quantity of 1.
11. Find the CustomerID that placed order 10290 (orders table).
12. Join the orders table to the customers table.
13. Get employees' firstname for all employees who report to no one.
14. Get employees' firstname for all employees who report to Andrew.
15. Write an SQL command to create an index on the CustomerID column in the Customers table.

### Extra Challenges:

Optional additional query practice (extended challenge):

1. Calculate the average, max, and min of the quantity at the orderdetails table, grouped by the orderid.
2. Calculate the average, max, and min of the quantity at the orderdetails table.
3. Find all customers living in London or Paris
4. Do an inner join, left join, right join on orders and customers tables.

5. Make a list of cities where customers are coming from. The list should not have any duplicates or nulls.
6. Show a sorted list of employees' first names.
7. Find total for each order
8. Get a list of all employees who got hired between 1/1/1994 and today
9. Find how long employees have been working for Northwind (in years!)
10. Get a list of all products sorted by quantity (ascending and descending order)
11. Find all products that are low on stock (quantity less than 6)
12. Find a list of all discontinued products.
13. Find a list of all products that have Tofu in the product name.
14. Find the product that has the highest unit price.
15. Get a list of all employees who got hired after 1/1/1993
16. Get all employees who have title : "Ms." And "Mrs."
17. Get all employees who have a Home phone number that has area code 206