## **LINQ Introduction Lab**

For your assignment, do these steps:

- 1. Get an understanding of the requirement. It should be plain from the method signature below, but if it isn't, talk to your instructor for clarifications
- 2. Write a test for that requirement. Note that since we're testing against the actual database, these are technically integration tests and not unit tests.
- 3. Create or open the repository
- 4. Write the method stub, throwing a new NotImplementedException.
- 5. Compile to a red test
- 6. Make the test turn green by filling out the method stub and writing any backing code that is needed.

## **Customer things**

Repository	Write this method
CustomerRepository	public bool Exists(string CustomerId)
CustomerRepository	public Customer ReadByld(string Customerld)
CustomerRepository	public List <customer> ReadByCompanyName(string CompanyName)</customer>

**Employee things** 

Repository	Write this method
EmployeeRepository	public bool Exists(int Employeeld)
EmployeeRepository	public List <employee> ReadAll()</employee>
EmployeeRepository	public List <employee> ReadByLastName(string LastName)</employee>
EmployeeRepository	public Employee ReadByld(int Employeeld)

**Product things** 

Repository	Write this method
ProductRepository	<pre>public List<product> ReadByProductName(string ProductName)</product></pre>
ProductRepository	public Product ReadByld(int ProductId)
ProductRepository	public bool Exists(int ProductId)
ProductRepository	public List <product> ReadAll()</product>

**Order things** 

Repository	Write this method
OrderRepository	public List <order> ReadAll()</order>
OrderRepository	public List <order> ReadByCustomerId(int CustomerId)</order>

## **Bonus!**

if you're finished early, do this:

You should have a method in your cart class that allows you to change the quantity of a product in the cart. It probably has a foreach statement to find the product. Refactor that foreach to use LINQ instead. (Hint: you'll want to use a where clause to find the OrderDetail line with the given productId).

## **Extra Bonus!**

Find any other foreach statement in your library and refactor it in the same way.