

Uses Concat to merge the names of all customers and products

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using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

public class MainClass {
    public static void Main() {
        List customers = GetCustomerList();
        List products = GetProductList();

        var customerNames =
            from c in customers
            select c.CompanyName;
        var productNames =
            from p in products
            select p.ProductName;

        var allNames = customerNames.Concat(productNames);

        Console.WriteLine("Customer and product names:");
        foreach (var n in allNames) {
            Console.WriteLine(n);
        }
    }

    static List GetProductList() {
        List empTree = new List();
        empTree.Add(new Product { ProductName = "A", Category = "0",
            UnitPrice = 12, UnitsInStock = 5, Total = 36, OrderDate = new
            DateTime(2005, 1, 1), Id = 1 });
        empTree.Add(new Product { ProductName = "B", Category = "0",
            UnitPrice = 2, UnitsInStock = 4, Total = 35, OrderDate = new
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DateTime(2005, 1, 1), Id = 2 }));
empTree.Add(new Product { ProductName = "C", Category = "0",
UnitPrice = 112, UnitsInStock = 3, Total = 34, OrderDate = new
DateTime(2005, 1, 1), Id = 3 }));
empTree.Add(new Product { ProductName = "D", Category = "0",
UnitPrice = 112, UnitsInStock = 0, Total = 33, OrderDate = new
DateTime(2005, 1, 1), Id = 4 }));
empTree.Add(new Product { ProductName = "E", Category = "0",
UnitPrice = 1112, UnitsInStock = 2, Total = 32, OrderDate =
new DateTime(2005, 1, 1), Id = 5 }));
empTree.Add(new Product { ProductName = "F", Category = "0",
UnitPrice = 11112, UnitsInStock = 0, Total = 31, OrderDate =
new DateTime(2005, 1, 1), Id = 6 }));
return empTree;
}

static List GetCustomerList() {
List empTree = new List();
empTree.Add(new Product { ProductName = "A", Category = "0",
UnitPrice = 12, UnitsInStock = 5, Total = 36, OrderDate = new
DateTime(2005, 1, 1), Id = 1 }));
empTree.Add(new Product { ProductName = "B", Category = "0",
UnitPrice = 2, UnitsInStock = 4, Total = 35, OrderDate = new
DateTime(2005, 1, 1), Id = 1 }));
empTree.Add(new Product { ProductName = "C", Category = "0",
UnitPrice = 112, UnitsInStock = 3, Total = 34, OrderDate = new
DateTime(2005, 1, 1), Id = 1 }));
empTree.Add(new Product { ProductName = "D", Category = "0",
UnitPrice = 112, UnitsInStock = 0, Total = 33, OrderDate = new
DateTime(2005, 1, 1), Id = 1 }));
empTree.Add(new Product { ProductName = "E", Category = "0",
UnitPrice = 1112, UnitsInStock = 2, Total = 32, OrderDate =
new DateTime(2005, 1, 1), Id = 1 }));
empTree.Add(new Product { ProductName = "F", Category = "0",
UnitPrice = 11112, UnitsInStock = 0, Total = 31, OrderDate =
new DateTime(2005, 1, 1), Id = 1 }));

List l = new List();

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l.Add(new Customer { CompanyName = "A", Region = "R1",
UnitsInStock = 1, Orders = empTree, CustomerId = 0 });
l.Add(new Customer { CompanyName = "B", Region = "R2",
UnitsInStock = 2, Orders = empTree, CustomerId = 1 });
l.Add(new Customer { CompanyName = "C", Region = "R3",
UnitsInStock = 3, Orders = empTree, CustomerId = 2 });
l.Add(new Customer { CompanyName = "D", Region = "R4",
UnitsInStock = 4, Orders = empTree, CustomerId = 3 });
l.Add(new Customer { CompanyName = "E", Region = "R5",
UnitsInStock = 5, Orders = empTree, CustomerId = 4 });
return l;
}

}

class Customer : IComparable {
public string CompanyName { get; set; }
public string Region { get; set; }
public List Orders { get; set; }
public int UnitsInStock { get; set; }
public int CustomerId { get; set; }

public override string ToString() {
return String.Format("Id: {0}, Name: {1}, Region: {3}",
this.CustomerId, this.CompanyName, this.Region);
}

int IComparable.CompareTo(Customer other) {
if (other == null)
return 1;

if (this.CustomerId > other.CustomerId)
return 1;

if (this.CustomerId < other.CustomerId) return -1; return 0; }
} class Product : IComparable {
public string ProductName { get; set; }
public string Category { get; set; }
public int UnitPrice { get; set; }
public int UnitsInStock { get; set; }

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public int Total { get; set; }
public DateTime OrderDate { get; set; }
public int Id { get; set; }

public override string ToString() {
    return String.Format("Id: {0}, Name: {1} , Category: {3}",
        this.Id, this.ProductName, this.Category);
}
int IComparable.CompareTo(Product other) {
    if (other == null)
        return 1;
    if (this.Id > other.Id)
        return 1;

    if (this.Id < other.Id) return -1; return 0; } } [/csharp]
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