

Documentation - Paging operators

Examples of the LINQ *Take* and *Skip* operators are shown below. In the examples below *_em1* is an EntityManager.

C#	<pre>[Description("This sample uses WHERE to find all customers whose contact title is Sales Representative.")] public void LinqToEntities96a() { // Not a variation of LinqToEntities96, but no numbers were // available here. var customersQuery = _em1.Customers.OrderBy(c => c.CompanyName); customersQuery.QueryStrategy = QueryStrategy.DataSourceOnly; ICollection<Customer> customers = customersQuery.Skip(5).Take(5).ToList(); Assert.IsTrue(customers.Count() == 5); customersQuery.QueryStrategy = QueryStrategy.CacheOnly; Assert.IsTrue(customersQuery.Count() == 5); } [Description("Skip the most recent 2 orders from customers in London")] public void LinqToEntities96() { var query = _em1.Orders .Where(o => o.Customer.Address.City == "London") .OrderBy(o => o.OrderDate) .Skip(2).Select(o => o); Assert.IsTrue(query.First().OrderID == 10359); } [Description("Take the 2 most recent Orders ")] public void LinqToEntities97() { var query = _em1.Orders .OrderBy(o => o.OrderDate) .Take(2).Select(o => o); Assert.IsTrue(query.Count() == 2); Assert.IsTrue(query.First().OrderID == 10248); } [Description("Take the 10th to the 20th Orders, ordered by date ")] public void LinqToEntities98() { var query = _em1.Orders .OrderBy(o => o.OrderDate) .Skip(10).Take(10).Select(o => o); query.QueryStrategy = QueryStrategy.DataSourceOnly; // because // of skip operator var r = query.ToList(); Assert.IsTrue(r.Count() == 10); Assert.IsTrue(r.First().OrderID == 10258); } [Description("Use a page number variable to get the xth page")] public void LinqToEntities99() { int pageSize = 10; int pageNumber = 4; var query = _em1.Orders .OrderBy(o => o.OrderDate) .Skip(pageSize * pageNumber).Take(pageSize).Select(o => o); query.QueryStrategy = QueryStrategy.DataSourceOnly; var r = query.ToList(); Assert.IsTrue(r.Count() == pageSize); Assert.IsTrue(r.First().OrderID == 10288); }</pre>
VB	<pre><Description("This sample uses WHERE to find all customers whose contact title is Sales Representative.")> Public Sub LinqToEntities96a() ' Not a variation of LinqToEntities96, but no numbers were available ' here. Dim customersQuery = _em1.Customers.OrderBy(Function(c) c.CompanyName) customersQuery.QueryStrategy = QueryStrategy.DataSourceOnly Dim customers As ICollection(Of Customer) = customersQuery.Skip(5).Take(5).ToList() Assert.IsTrue(customers.Count() = 5) customersQuery.QueryStrategy = QueryStrategy.CacheOnly Assert.IsTrue(customersQuery.Count() = 5) End Sub</pre>

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<Description("Skip the most recent 2 orders from customers in London")>
Public Sub LinqToEntities96()
    Dim query = _em1.Orders.Where(Function(o)
        o.Customer.Address.City = _
            "London").OrderBy(Function(o)
                o.OrderDate).Skip(2).Select(Function(o) o)
    Assert.IsTrue(query.First().OrderID = 10359)
End Sub

<Description("Take the 2 most recent Orders ")>
Public Sub LinqToEntities97()
    Dim query = _em1.Orders.OrderBy(Function(o)
        o.OrderDate).Take(2).Select(Function(o) o)
    Assert.IsTrue(query.Count() = 2)
    Assert.IsTrue(query.First().OrderID = 10248)
End Sub

<Description("Take the 10th to the 20th Orders, ordered by date ")>
Public Sub LinqToEntities98()
    Dim query = _em1.Orders.OrderBy(Function(o)
        o.OrderDate).Skip(10).Take(10).Select(Function(o) o)
    query.QueryStrategy = QueryStrategy.DataSourceOnly ' because of
skip operator
    Dim r = query.ToList()
    Assert.IsTrue(r.Count() = 10)
    Assert.IsTrue(r.First().OrderID = 10258)
End Sub

<Description("Use a page number variable to get the xth page")>
Public Sub LinqToEntities99()
    Dim pageSize As Integer = 10
    Dim pageNumber As Integer = 4
    Dim query = _em1.Orders.OrderBy(Function(o)
        o.OrderDate).Skip(pageSize * _
            pageNumber).Take(pageSize).Select(Function(o) o)
    query.QueryStrategy = QueryStrategy.DataSourceOnly
    Dim r = query.ToList()
    Assert.IsTrue(r.Count() = pageSize)
    Assert.IsTrue(r.First().OrderID = 10288)
End Sub
```