



LINQ part2

Future Of DotNet

Projections 1 돌출

- select
 - `select n + 1`
 - `select p.ProductName`
 - `select strings[n]`
 - `select new { Upper = w.ToUpper(), Lower = w.ToLower() }`
 - `select (Upper : w.ToUpper(), Lower : w.ToLower())`
 - `select (p.ProductName, p.Category, Price : p.UnitPrice)`
 - `numbers.Select((num, index) => (Num : num, InPlace : (num == index)))`
- Anonymous type
 - Type을 define하지 않고 읽기 전용 속성을 가지는 단일 object를 생성
 - C# 3.0부터 사용
- Tuple type
 - 간단한 구문을 사용하여 정의해서 사용하는 type
 - C# 7.0부터 사용

Projections 2

- where & select
 - where n < 5 select digits[n]
- Multiple Sequences
 - from a in numbersA from b in numbersB where a < b select (a, b)
- Child Sequence, Select Many
 - from c in customers from o in c.Orders where o.OrderDate >= new DateTime(1998, 1, 1) select (c.CustomerID, o.OrderID, o.OrderDate)
- Multiple Where
 - from c in customers where c.Region == "WA" from o in c.Orders where o.OrderDate >= cutoffDate select (c.CustomerID, o.OrderID)
- Indexed Select Many
 - customers.SelectMany((cust, custIndex) => cust.Orders.Select(o => "Customer #" + (custIndex + 1) + " has an order with OrderID " + o.OrderID))

Practice

- `from a in numbersA from b in numbersB where a < b
select (a, b);`
 - 다중 from문의 실행 횟수를 확인
- `from c in customers from o in c.Orders
where o.Total < 500.00M select
(c.CustomerID, o.OrderID, o.Total);`
 - 미국 이외 나라의 1997년에 주문을 했던
거래처와 가장 큰 금액의 주문번호, 날짜, 금액

