



LINQ part 4

Future Of DotNet

Practice

- `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, 금액을 출력하는데, 상위 10개만 출력



Groupings

- group
 - group n by n % 5 into g
 - var customerOrderGroups = from c in customers **select** (c.CompanyName, YearGroups: from o in c.Orders group o by o.OrderDate.Year into yg **select** (Year: yg.Key, MonthGroups: from o in yg group o by o.OrderDate.Month into mg **select** (Month: mg.Key, Orders: mg)));

Set operation

- Distinct 중복제거
 - `var uniqueFactors = factorsOf300.Distinct();`
- Union 중복제거 결합
 - `var uniqueNumbers = numbersA.Union(numbersB);`
- Intersect 교집합
 - `var commonNumbers = numbersA.Intersect(numbersB);`
- Except 제외
 - `IEnumerable<int> aOnlyNumbers = numbersA.Except(numbersB);`

Practice

- List 형태의 Menu를 계층구조Hierarchy로 만드는 LINQ식 작성

```
C:\Users\kaki1\source\repos\101_LINQ_samples\src\bin\Debug\netcoreapp3.0\Try101LinqSamples.exe
Menu4
Menu5
Make Hierarchy
Menu1
    Menu11
    Menu12
        Menu121
        Menu122
    Menu13
    Menu14
Menu2
    Menu21
    Menu22
    Menu23
Menu3
    Menu31
    Menu32
    Menu33
Menu4
    Menu41
    Menu42
        Menu421
        Menu422
Menu5
```