Practical LINQ

More LINQ Examples

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Introduction

- **Sorting**
- **Creating**
- **Comparing/Combining**
- **Transforming with Projections**
- **Working with Parent/Child Data**

Sorting

- **Ordering Operators**
  - OrderBy
  - OrderByDescending
  - ThenBy
  - ThenByDescending
  - Reverse
- **Deferred Execution**

Creating

- **Generation Operators**
  - Range
  - Repeat
- **Enumerable class methods**
  - NOT extension methods
- **NOT deferred**

Comparing/Combining

- **Set Operators**
  - Intersect
  - Except
  - Concat
  - Distinct
  - Union
- **Extension Methods**

Transforming with Projections

- **Projection**
  - Select
  - SelectMany

- **Why Project?**
  - Limit to the needed properties
  - Perform an action on the properties
  - Morph the sequence elements into another type

- **Projects a Type**
  - Original Type
  - Existing Type
  - Anonymous Type

Parent/Child Data

- **Parent objects each have a list of related child data**
    - Shopping cart has a set of items.
- **SelectMany**

Summary

- **Sorting**
  - OrderBy / OrderByDescending / ThenBy / ThenByDescending / Reverse
- **Creating**
  - Range / Repeat
- **Comparing/Combining**
  - Intersect / Except
  - Concat / Distinct / Union
- **Transforming with Projections**
  - Select
  - Anonymous Types
- **Working with Parent/Child Data**
  - SelectMany