Extract Data Using Filtering and Element Operations



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Module Goals

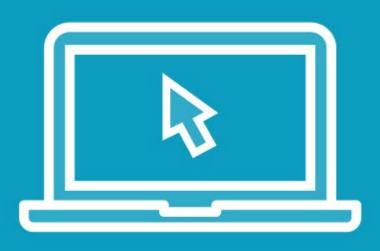


- Using the where expression
- Finding an item in a List<T> collection
- Searching for an item using...
 - First() / FirstOrDefault()
 - Last() / LastOrDefault()
 - Single() / SingleOrDefault()

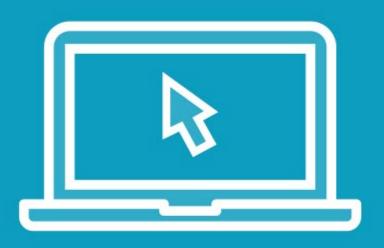
Searching

Find Multiple Items with Where Expression

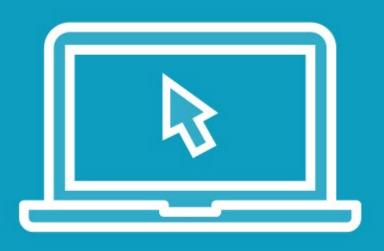
(from prod in Products where prod.Name == "Test" select prod) (from prod in Products where prod.Name == "Test" && prod.StandardCost > 100 select prod)



Where expression



- Where expression with two fields



Using a custom extension method for filtering

Finding a Single Value

Select a Single Item

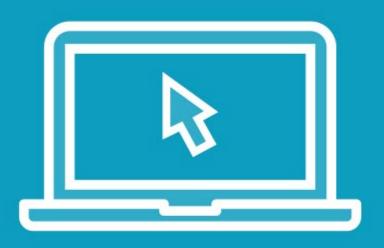
First() /
FirstOrDefault()

Last() /
LastOrDefault()

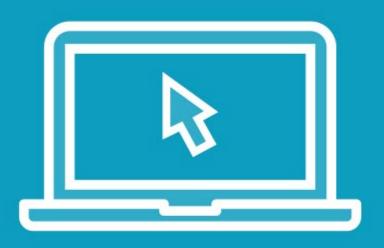
Single() / SingleOrDefault()

Need to Catch Exceptions

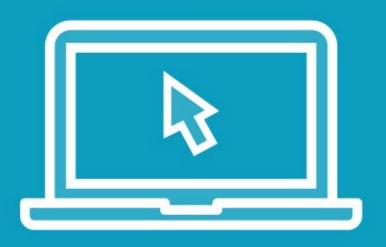
First() Last() SingleOrDefault() Single()



- First / FirstOrDefault expressions



Last / LastOrDefault expressions



- Single / SingleOrDefault expressions

Module Summary



- Use where expression to return multiple items
- Locate a single item
 - First() / FirstOrDefault()
 - Last() / LastOrDefault()
 - Single() / SingleOrDefault()
- Catch exceptions where appropriate
- Check for null where appropriate

Up Next:

Extract Distinct Values, Assign Values and Partition Collections