

# Practical LINQ

## Introduction

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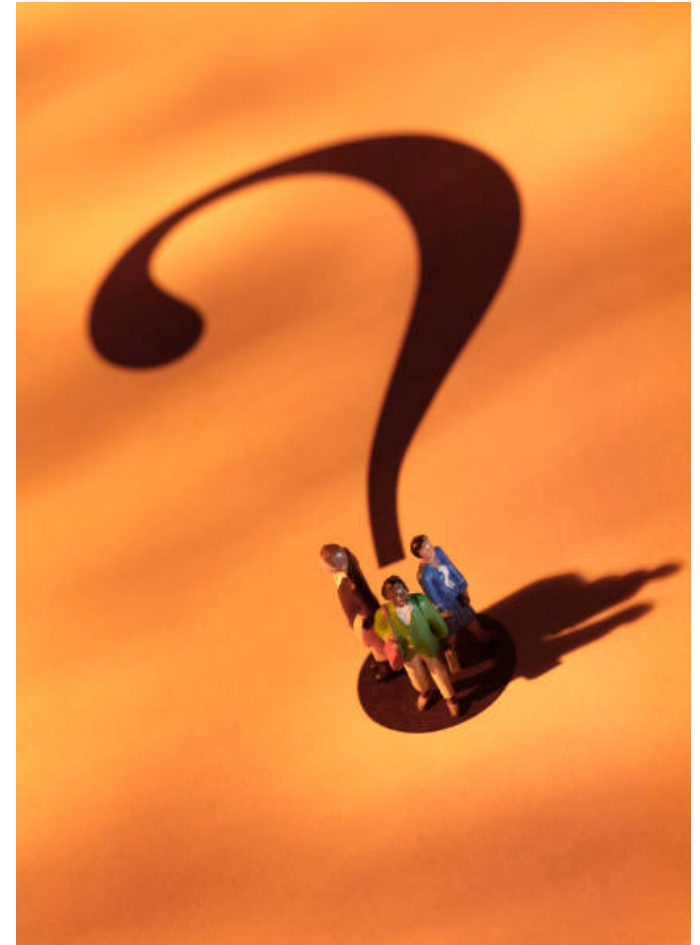
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# Language Integrated Query (LINQ)

- **A question:**
  - How much product did we sell ?
  - What is the average invoice amount per customer?
  - How many customers bought something this month?



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- How much product did we sell ?
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- **A request:**

- Get me the list of all customers that we invoiced this month along with the invoice amount
- Get me the list of all past due customers
- Get me a price list for all current products



# Data Sources

- LINQ to SQL
- LINQ to Entities
- LINQ to Objects
- LINQ to XML

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- LINQ to SQL
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- LINQ to XML
- LINQ to Google
- LINQ to EBay
- LINQ to Twitter
- ...

```
var twitterCtx = new TwitterContext(...);  
  
var queryResults =  
    from search in twitterCtx.Search  
    where search.Type == SearchType.Search &&  
        search.Query == "LINQ"  
    select search;
```

...

# This Course

- **This Brief Introduction**
- **Focus on using LINQ for a specific task:**
  - LINQ to Objects
    - Working with Lists
    - Binding Data
    - Generating Summary Data
    - Working with Strings
    - Working with Dates
    - Executing code stored in an object
  - LINQ to XML
  - Working with Microsoft Office

# References

- **LINQ Fundamentals**
- **LINQ Data Access**
- **LINQ Architecture**
  
- **Mastering Visual Studio 2012**
- **Automated Code Testing for Fraidy Cats Like Me**