

LINQ

Marco Russo, Paolo Pialorsi

LINQ Joe Hummel, 2006-10-26 Language Integrated Query (LINQ) is Microsoft's new technology for powerful, general purpose data access. This technology provides a fully-integrated query language, available in both C# 3.0 and VB 9.0, for high-level data access against objects, relational databases, and XML documents. In this Short Cut you'll learn about LINQ and the proposed C# 3.0 extensions that support it. You'll also see how you can use LINQ and C# to accomplish a variety of tasks, from querying objects to accessing relational data and XML. Best of all, you'll be able to test the examples and run your own code using the latest LINQ CTP, available free from Microsoft. This Short Cut includes a complete reference to the standard LINQ query operators.

Professional LINQ Scott Klein, 2008-01-22 Professional LINQ introduces experienced programmers and database developers to LINQ database queries in their native VB and C# languages. Some of the topics covered include: LINQ Queries LINQ and the Standard Query Operators Programming with XQuery Querying XML with XQuery Mixing XML and other data models DQuery and Queries LINQ over datasets Interoperating with ADO.NET LINQ and ASP.NET

LINQ For Dummies John Paul Mueller, 2009-02-25 If you've asked yourself "Why can't I develop database and XML queries in a language I already know?", then Language INtegrated Query, or LINQ, is for you. LINQ For Dummies introduces you to LINQ and the .NET Framework technologies, so you can use LINQ to query any object, any data set, any kind of XML, and SQL Server—no questions asked. This plain-English guide gives you a thorough overview of LINQ, from understanding the tasks it performs to making LINQ work with both Visual Basic and Visual Studio 2005. It explains the four LINQ providers in the .NET Framework, the easiest ways to go about accessing data, and how to write more efficient applications with less code using LINQ. There's also clear guidance on combining third-party providers with LINQ to create even more powerful apps. With this single, comprehensive guide, you'll discover how to: Use one query language with all Microsoft languages Examine .NET language extensions and work with extension methods, partial methods, lambda expressions, and query expressions LINQ to DataSet operators, SQL server operations, XML API, or Active Directory Deal with databases — download and install the Northwind database, generate Northwind entity classes, and create the Northwind XML mapping file Create the partial class example, the partial method example, and the database modification example Use objects with LINQ Query databases in Visual Basic and C# As an added bonus, you can visit the companion Web site for LINQ examples in C# and Visual Basic. With LINQ For Dummies, you'll link up with LINQ in no time and see how you can query almost anything! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

LINQ Pocket Reference Joseph Albahari, Ben Albahari, 2008-02-26 Ready to take advantage of LINQ with C# 3.0? This guide has the detail you need to grasp Microsoft's new querying technology, and concise explanations to help you learn it quickly. And once you begin to apply LINQ, the book serves as an on-the-job reference when you need immediate reminders. All the examples in the LINQ Pocket Reference are preloaded into LINQPad, the highly praised utility that lets you work with LINQ interactively. Created by the authors and free to download, LINQPad will not only help you learn LINQ, it will have you thinking in LINQ. This reference explains: LINQ's key concepts, such as

deferred execution, iterator chaining, and type inference in lambda expressions The differences between local and interpreted queries C# 3.0's query syntax in detail-including multiple generators, joining, grouping, query continuations, and more Query syntax versus lambda syntax, and mixed syntax queries Composition and projection strategies for complex queries All of LINQ's 40-plus query operators How to write efficient LINQ to SQL queries How to build expression trees from scratch All of LINQ to XML's types and their advanced use LINQ promises to be the locus of a thriving ecosystem for many years to come. This small book gives you a huge head start. The authors built a tool (LINQPad) that lets you experiment with LINQ interactively in a way that the designers of LINQ themselves don't support, and the tool has all kinds of wonderful features that LINQ, SQL and Regular Expression programmers alike will want to use regularly long after they've read the book.-Chris Sells, Connected Systems Program Manager, Microsoft

Professional LINQ Scott Klein,2008-02-13 Professional LINQ introduces experienced programmers and database developers to LINQ database queries in their native VB and C# languages. Some of the topics covered include: LINQ Queries LINQ and the Standard Query Operators Programming with Xlinq Querying XML with Xlinq Mixing XML and other data models Dlinq and Queries LINQ over datasets Interoperating with ADO.NET LINQ and ASP.NET

LINQ Unleashed Paul Kimmel,2008-08-19 Foreword by Darryl Hogan, Architect Evangelist, Microsoft Corporation Microsoft's highly anticipated LINQ query technology makes it easy to retrieve any information programmatically from any data source, no matter where it comes from or how it's stored. Using LINQ, developers can query objects, relational databases, XML documents, and ADO.NET datasets--and do it all directly from C# 3.0, leveraging the powerful capabilities of LINQ. This is a definitive guide to getting real-world results with LINQ, using C# 3.0 and Visual Studio 2008. In LINQ Unleashed, Microsoft MVP Paul Kimmel covers every facet of LINQ programming, showing how LINQ can help you dramatically improve your productivity and build more reliable, maintainable applications. Kimmel begins by reviewing the state-of-the-art C# programming techniques LINQ uses, including anonymous types, partial methods, and Lambda expressions. Next, using realistic examples and easy-to-adapt sample code, he details the most powerful new LINQ techniques for accessing objects, databases, and XML. You'll gain a deep and practical understanding of how LINQ works "under the hood"--and learn how to do everything from selecting data through integrating XML with other data models. Build efficient LINQ queries to .NET objects, SQL databases, and XML content Utilize anonymous types to reduce design time, coding effort, and debugging time Automatically generate .NET state machines with the new yield return construct Master LINQ query syntax, operators, extension methods, sorting, grouping, aggregate and set operations, and more Make the most of select--and use it in the business layer of your n-tier applications Query relational data stored in Microsoft SQL Server Use nullable types to eliminate unnecessary database access plumbing code Use LINQ with ADO.NET 3.0 and Microsoft's powerful new Entity Framework Extract XML data without the hassles or complexity of XPath Automatically construct XML from CSV files and other non-XML data Query Active Directory by extending LINQ

LINQ for Visual C# 2008 Fabio Claudio Ferracchiati,2008-10-11 Every C# programmer needs to learn about LINQ (Language-Integrated Query), Microsoft's breakthrough technology for simplifying and unifying data access from any

data source. With LINQ, you can write more elegant and flexible code—not just to access databases and files, but to manipulate data structures and XML. This book is a short, yet comprehensive guide to the major features of LINQ and the significant enhancements introduced with .NET 3.5. There is no better source for getting a head-start on the future of these technologies than this book. A clear and comprehensive yet concise introduction to using LINQ in C# Covers LINQ to Objects, LINQ to SQL, LINQ to DataSet, and LINQ to XML Rich in working examples of LINQ in action Ideal for C# programmers at any level

LINQ: The Future of Data Access in C# 3.0 Joe Hummel, 2006-10-26 Language Integrated Query (LINQ) is Microsoft's new technology for powerful, general purpose data access. This technology provides a fully-integrated query language, available in both C# 3.0 and VB 9.0, for high-level data access against objects, relational databases, and XML documents. In this Short Cut you'll learn about LINQ and the proposed C# 3.0 extensions that support it. You'll also see how you can use LINQ and C# to accomplish a variety of tasks, from querying objects to accessing relational data and XML. Best of all, you'll be able to test the examples and run your own code using the latest LINQ CTP, available free from Microsoft. This Short Cut includes a complete reference to the standard LINQ query operators.

Pro LINQ Joseph Rattz, Adam Freeman, 2010-12-28 LINQ is the part of the .NET Framework that provides a generic approach to querying data from different data sources. It has quickly become the next must-have skill for .NET developers. **Pro LINQ: Language Integrated Query in C# 2010** is all about code. Literally, this book starts with code and ends with code. Most books show the simplest examples of how to use a method, but they so rarely show how to use the more complex prototypes. This book is different. Demonstrating the overwhelming majority of LINQ operators and prototypes, it is a veritable treasury of LINQ examples. Rather than obscure the relevant LINQ principles in code examples by focusing on a demonstration application you have no interest in writing, this book cuts right to the chase of each LINQ operator, method, or class. However, where complexity is necessary to truly demonstrate an issue, the examples are right there in the thick of it. For example, code samples demonstrating how to handle concurrency conflicts actually create concurrency conflicts so you can step through the code and see them unfold. Face it, most technical books, while informative, are dull. LINQ need not be dull. Written with a sense of humor, this book will attempt to entertain you on your journey through the wonderland of LINQ and C# 2010.

Essential LINQ Charlie Calvert, Dinesh Kulkarni, 2009-03-12 “Charlie and Dinesh bring important skills to this project that enable them to show how LINQ works and the practical ways you can use it in your daily development process.” From the Foreword by Anders Hejlsberg LINQ is one of Microsoft’s most exciting, powerful new development technologies. **Essential LINQ** is the first LINQ book written by leading members of Microsoft’s LINQ and C# teams. Writing for architects, developers, and development managers, these Microsoft insiders share their intimate understanding of LINQ, revealing new patterns and best practices for getting the most out of it. Calvert and Kulkarni begin by clearly explaining how LINQ resolves the long-time “impedance mismatch” between object-oriented code and relational databases. Next, they show how LINQ integrates querying into C# as a “first-class citizen.” Using realistic code examples, they show how LINQ provides a strongly typed, IntelliSense-aware technology for working with data from any source, including SQL

databases, XML files, and generic data structures. Calvert and Kulkarni carefully explain LINQ's transformative, composable, and declarative capabilities. By fully illuminating these three concepts, the authors allow developers to discover LINQ's full power. In addition to covering core concepts and hands-on LINQ development in C# with LINQ to Objects, LINQ to XML, LINQ to SQL, and LINQ to Entities, they also present advanced topics and new LINQ implementations developed by the LINQ community. This book • Explains the entire lifecycle of a LINQ project: design, development, debugging, and much more • Teaches LINQ from both a practical and theoretical perspective • Leverages C# language features that simplify LINQ development • Offers developers powerful LINQ query expressions to perform virtually any data-related task • Teaches how to query SQL databases for objects and how to modify those objects • Demonstrates effective use stored procedures and database functions with LINQ • Shows how to add business logic that reflects the specific requirements of your organization • Teaches developers to create, query, and transform XML data with LINQ • Shows how to transform object, relational, and XML data between each other • Offers best patterns and practices for writing robust, easy-to-maintain LINQ code

LINQ to Objects Using C# 4.0 Troy Magennis, 2010-03-02 Your Complete Example-Rich Guide to Using and Extending LINQ to Objects and PLINQ Using LINQ to Objects, .NET developers can write queries over object collections with the same deep functionality that was once available only with SQL and relational databases. Now, for the first time, developers have a comprehensive and authoritative guide to applying LINQ to Objects in real-world software. Microsoft MVP Troy Magennis introduces state-of-the-art techniques for working with in-memory collections more elegantly and efficiently—and writing code that is exceptionally powerful, robust, and flexible. Drawing on his unsurpassed experience coding software using LINQ and hosting the popular HookedOnLINQ.com site, Magennis presents timely, realistic solutions to a wide spectrum of development challenges, such as combining data from multiple sources, and achieving optimal performance with extremely large sets of data. You'll begin with brief quick-starts that walk you through LINQ to Objects' key features and query syntax. Next, you'll drill down to detailed techniques for applying and extending these features with C# 4.0 and C# 3.0—including code examples that reflect the realities of production development. Coverage includes Writing basic LINQ queries with C#: filtering, projecting, and sorting data from in-memory collections Mastering advanced techniques for grouping and joining data and understanding the performance implications of each technique Taking full advantage of LINQ's standard query operators Creating custom query operators that follow best practices for coding patterns and error handling Writing more fluent, readable LINQ queries with C# 4.0's language enhancements, including the new dynamic features Combining LINQ with COM-Interop to access data sources such as Microsoft Excel Using Parallel LINQ to Objects (PLINQ) to optimize queries for multi-core processors, and how to build custom parallel query operators Integrating the best LINQ to Objects patterns into your day-to-day coding

Introducing Microsoft LINQ Paolo Pialorsi, Marco Russo, 2007 Get a head start on using the Microsoft Language Integrated Query (LINQ) Project with advance insights from two experienced developers. Data-rich applications can be difficult to create because of the tremendous differences between query languages used to access data and programming languages commonly used to

write applications. This practical guide introduces LINQ, a set of extensions to the Microsoft Visual C# and Microsoft Visual Basic programming languages. Instead of traversing different language syntaxes required for accessing data from relational and hierarchical data sources, developers will learn how to write queries natively in C# or Visual Basic. Written by two experienced developers with strong ties to Microsoft's developer teams, this book introduces the LINQ architecture and classes, describes the new language features in both C# and Visual Basic, and provides code samples in both languages.

LINQ in Action Steve Eichert, James B. Wooley, Fabrice Marguerie, 2008-01-31
LINQ, Language INtegrated Query, is a new extension to the Visual Basic and C# programming languages designed to simplify data queries and database interaction. It addresses O/R mapping issues by making query operations like SQL statements part of the programming language. It also offers built-in support for querying in-memory collections like arrays or lists, XML, DataSets, and relational databases. LINQ in Action is a fast-paced, comprehensive tutorial for professional developers. This book explores what can be done with LINQ, shows how it works in an application, and addresses the emerging best practices. It presents the general purpose query facilities offered by LINQ in the upcoming C# 3.0 and VB.NET 9.0 languages. A running example introduces basic LINQ concepts. You'll then learn to query unstructured data using LINQ to XML and relational data with LINQ to SQL. Finally, you'll see how to extend LINQ for custom applications. LINQ in Action will guide you along as you explore this new world of lambda expressions, query operators, and expression trees. As well, you'll explore the new features of C# 3.0, VB.NET 9.0. The book is very practical, anchoring each new idea with running code. Whether you want to use LINQ to query objects, XML documents, or relational databases, you will find all the information you need to get started But LINQ in Action does not stop at the basic code. This book also shows you how LINQ can be used for advanced processing of data, including coverage of LINQ's extensibility, which allows querying more data sources than those supported by default. All code samples are built on a concrete business case. The running example, *LinqBooks*, is a personal book cataloging system that shows you how to create LINQ applications with Visual Studio 2008. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

LINQ Programming Joe Mayo, 2008-12-15 Take your LINQ programming skills to the top tier Resolve data format impedance mismatch with guidance from a C# expert and Microsoft MVP. LINQ Programming details cutting-edge techniques to effectively assimilate XML, SQL, ADO.NET, and unstructured data sources. Build powerful LINQ queries, handle hierarchical and relational data, use lambdas and expression trees, and develop multi-threaded applications. Get proven strategies for handling conflicts and exceptions and creating custom extension methods. Additionally, you'll learn how to create your own LINQ provider through a working example, LINQ to Twitter. Filter, order, and group code using LINQ to Objects Query relational and unstructured data with LINQ to SQL and LINQ to XML Work with ADO.NET through LINQ to DataSet Deploy object-oriented programming techniques and LINQ to Entities Read, manipulate, and create C#-based XML documents Generate DBML and external mapping files with SqlMetal Create custom lambdas, expressions, providers, and extensions

Support concurrent processing and multi-threading using PLINQ Build a custom LINQ provider for working with any data source

LINQ for Visual C# 2005 Fabio Claudio Ferracchiati, 2007-12-24 Every C# programmer needs to learn about LINQ (Language-Integrated Query), Microsoft's breakthrough technology for simplifying and unifying data access from any data source. It is the first step into the future of .NET programming. This book is a short yet comprehensive guide to the major features of LINQ, which provide significant enhancements to the next versions of C#, .NET, and ADO.NET and are available today for production programming. There is no better source for getting a headstart on the future of these technologies than this book.

Pro LINQ in VB8 Joseph Rattz, Dennis Hayes, 2010-01-01 LINQ is the project name for a set of extensions to the .NET Framework that provide a generic approach to querying data from different data sources. LINQ made its debut in Visual Studio 2008, and became a must-have skill for .NET developers. For more information about LINQ, you can check out www.linqdev.com. Starting with code and ending with code and tailored for the VB language, *Pro LINQ: Language Integrated Query in VB 2008* is a veritable treasury of LINQ examples that will save you hours, even days, of research time. Keeping you focused on the relevant LINQ principles, expert author Joseph Rattz, Jr., and VB specialist Dennis Hayes provide examples for complex models that you won't find anywhere else. In most books, you'll find plenty of simple examples to demonstrate how to use a method, but authors rarely show how to use the more complex prototypes. *Pro LINQ: Language Integrated Query in VB 2008* is different. Demonstrating the overwhelming majority of LINQ operators and prototypes, Joseph Rattz, Jr., and Dennis Hayes condense their extensive experience and expertise into a desk companion that is essential for any serious .NET professional. Rather than obscure the relevant LINQ principles in code examples by focusing on a demonstration application you have no interest in writing, this book cuts right to the chase of each LINQ operator, method, or class. However, where complexity is necessary to truly demonstrate an issue, the examples are right there in the thick of it. For example, code samples demonstrating how to handle concurrency conflicts actually create concurrency conflicts so you can step through the code and see them unfold. Most books tell you about the simple stuff, while few books warn you of the pitfalls. Where *Pro LINQ: Language Integrated Query in VB 2008* returns your investment is in the hours, and sometimes days, spent by the authors determining why something may not work as expected. Sometimes this results in an innocent-looking paragraph that may take you a minute to read and understand, but took days to research and explain. Face it, most technical books while informative, are dull. LINQ need not be dull. Written with a sense of humor, this book will attempt to entertain you on your journey through the wonderland of LINQ and VB 2008.

Programming Microsoft LINQ in .NET Framework 4 Marco Russo, Paolo Pialorsi, 2010-11-23 Dig into LINQ -- and transform the way you work with data. With LINQ, you can query data from a variety of sources -- including databases, objects, and XML files -- directly from Microsoft Visual Basic or C#. Guided by data-access experts who've worked in depth with LINQ and the Microsoft development teams, you'll learn how .NET Framework 4 implements LINQ, and how to exploit it. Clear examples show you how to deliver your own data-access solutions faster and with leaner code. Discover how to: Use LINQ

to query databases, object collections, arrays, XML, Microsoft Excel files, and other sources Apply LINQ best practices to build data-enabled .NET applications and services Manipulate data in a relational database with ADO.NET Entity Framework or LINQ to SQL Read, write, and manage XML content more efficiently with LINQ to XML Extend LINQ to support additional data sources by creating custom operators and providers Examine other implementations, such as LINQ to SharePoint Use LINQ within the data, business, and service layers of a distributed application Get code samples on the Web

Thinking in LINQ Sudipta Mukherjee,2014-12-03 LINQ represents a paradigm shift for developers used to an imperative/object oriented programming style, because LINQ draws on functional programming principles. Thinking in LINQ addresses the differences between these two by providing a set of succinct recipes arranged in several groups, including: Basic and extended LINQ operators Text processing Loop refactoring Monitoring code health Reactive Extensions (Rx.NET) Building domain-specific languages Using the familiar recipes approach, Thinking in LINQ shows you how to approach building LINQ-based solutions, how such solutions are different from what you already know, and why they're better. The recipes cover a wide range of real-world problems, from using LINQ to replace existing loops, to writing your own Swype-like keyboard entry routines, to finding duplicate files on your hard drive. The goal of these recipes is to get you thinking in LINQ, so you can use the techniques in your own code to write more efficient and concise data-intensive applications.

Linq Succinctly Jason Roberts,2017-02-01 Learn to use LINQ to simplify the process of coding and querying in C#. LINQ Succinctly will guide you through the process, from conceptual understanding to practical implementation. With the help of author Jason Roberts, you will be streamlining your coding and querying practices in no time.

Professional ADO.NET 3.5 with LINQ and the Entity Framework Roger Jennings,2009-02-23 Language Integrated Query (LINQ), as well as the C# 3.0 and VB 9.0 language extensions to support it, is the most important single new feature of Visual Studio 2008 and the .NET Framework 3.x. LINQ is Microsoft's first attempt to define a universal query language for a diverse set of in-memory collections of generic objects, entities persisted in relational database tables, and element and attributes of XML documents or fragments, as well as a wide variety of other data types, such as RSS and Atom syndication feeds. Microsoft invested millions of dollars in Anders Hejlsberg and his C# design and development groups to add new features to C# 3.0—such as lambda expressions, anonymous types, and extension methods—specifically to support LINQ Standard Query Operators (SQOs) and query expressions as a part of the language itself. Corresponding additions to VB 9.0 followed the C# team's lead, but VB's implementation of LINQ to XML offers a remarkable new addition to the language: XML literals. VB's LINQ to XML implementation includes XML literals, which treat well-formed XML documents or fragments as part of the VB language, rather than requiring translation of element and attribute names and values from strings to XML DOM nodes and values. This book concentrates on hands-on development of practical Windows and Web applications that demonstrate C# and VB programming techniques to bring you up to speed on LINQ technologies. The first half of the book covers LINQ Standard Query Operators (SQOs) and the concrete implementations of LINQ for querying collections that

implement generic IEnumerable, IQueryable, or both interfaces. The second half is devoted to the ADO.NET Entity Framework, Entity Data Model, Entity SQL (eSQL) and LINQ to Entities. Most code examples emulate real-world data sources, such as the Northwind sample database running on SQL Server 2005 or 2008 Express Edition, and collections derived from its tables. Code examples are C# and VB Windows form or Web site/application projects not, except in the first chapter, simple command-line projects. You can't gain a feel for the behavior or performance of LINQ queries with Hello World projects that process arrays of a few integers or a few first and last names. This book is intended for experienced .NET developers using C# or VB who want to gain the maximum advantage from the query-processing capabilities of LINQ implementations in Visual Studio 2008—LINQ to Objects, LINQ to SQL, LINQ to DataSets, and LINQ to XML—as well as the object/relational mapping (O/RM) features of VS 2008 SP1's Entity Framework/Entity Data Model and LINQ to Entities and the increasing number of open-source LINQ implementations by third-party developers. Basic familiarity with generics and other language features introduced by .NET 2.0, the Visual Studio integrated development environment (IDE), and relational database management systems (RDBMSs), especially Microsoft SQL Server 200x, is assumed. Experience with SQL Server's Transact-SQL (T-SQL) query language and stored procedures will be helpful but is not required. Proficiency with VS 2005, .NET 2.0, C# 2.0, or VB 8.0 will aid your initial understanding of the book's C# 3.0 or VB 9.0 code samples but isn't a prerequisite. Microsoft's .NET code samples are primarily written in C#. All code samples in this book's chapters and sample projects have C# and VB versions unless they're written in T-SQL or JavaScript. Professional ADO.NET 3.5: LINQ and the Entity Framework concentrates on programming the System.Linq and System.Linq.Expressions namespaces for LINQ to Objects, System.Data.Linq for LINQ to SQL, System.Data.Linq for LINQ to DataSet, System.Xml.Linq for LINQ to XML, and System.Data.Entity and System.Web.Entity for EF's Entity SQL. Taking a New Approach to Data Access in ADO.NET 3.5, uses simple C# and VB code examples to demonstrate LINQ to Objects queries against in-memory objects and databinding with LINQ-populated generic List collections, object/relational mapping (O/RM) with LINQ to SQL, joining DataTables with LINQ to DataSets, creating EntitySets with LINQ to Entities, querying and manipulating XML InfoSets with LINQ to XML, and performing queries against strongly typed XML documents with LINQ to XSD. Understanding LINQ Architecture and Implementation, begins with the namespaces and C# and VB language extensions to support LINQ, LINQ Standard Query Operators (SQOs), expression trees and compiled queries, and a preview of domain-specific implementations. C# and VB sample projects demonstrate object, array, and collection initializers, extension methods, anonymous types, predicates, lambda expressions, and simple query expressions. Executing LINQ Query Expressions with LINQ to Objects, classifies the 50 SQOs into operator groups: Restriction, Projection, Partitioning, Join, Concatenation, Ordering, Grouping, Set, Conversion, and Equality, and then lists their keywords in C# and VB. VS 2008 SP1 includes C# and VB versions of the LINQ Project Sample Query Explorer, but the two Explorers don't use real-world collections as data sources. This describes a LINQ in-memory object generator (LIMOG) utility program that writes C# 3.0 or VB 9.0 class declarations for representative business objects that are more complex than those used by the LINQ Project Sample

Query Explorers. Sample C# and VB queries with these business objects as data sources are more expressive than those using arrays of a few integers or last names. Working with Advanced Query Operators and Expressions, introduces LINQ queries against object graphs with entities that have related (associated) entities. This begins with examples of aggregate operators, explains use of the Let temporary local variable operator, shows you how to use Group By with aggregate queries, conduct the equivalent of left outer joins, and take advantage of the Contains() SDO to emulate SQL's IN() function. You learn how to compile queries for improved performance, and create mock object classes for testing without the overhead of queries against relational persistence stores. Using LINQ to SQL and the LinqDataSource, introduces LINQ to SQL as Microsoft's first O/RM tool to reach released products status and shows you how to autogenerate class files for entity types with the graphical O/R Designer or command-line SqlMetal.exe. This also explains how to edit *.dbml mapping files in the Designer or XML Editor, instantiate DataContext objects, and use LINQ to SQL as a Data Access Layer (DAL) with T-SQL queries or stored procedures. Closes with a tutorial for using the ASP.NET LinqDataSource control with Web sites or applications. Querying DataTables with LINQ to DataSets, begins with a comparison of DataSet and DataContext objects and features, followed by a description of the DataSetExtensions. Next comes querying untyped and typed DataSets, creating lookup lists, and generating LinqDataViews for databinding with the AsDataView() method. This ends with a tutorial that shows you how to copy LINQ query results to DataTables. Manipulating Documents with LINQ to XML, describes one of LINQ most powerful capabilities: managing XML Infosets. This demonstrates that LINQ to XML has query and navigation capabilities that equal or surpasses XQuery 1.0 and XPath 2.0. It also shows LINQ to XML document transformation can replace XQuery and XSLT 1.0+ in the majority of common use cases. You learn how to use VB 9.0's XML literals to construct XML documents, use GroupJoin() to produce hierarchical documents, and work with XML namespaces in C# and VB. Exploring Third-Party and Emerging LINQ Implementations, describes Microsoft's Parallel LINQ (also called PLINQ) for taking advantage of multiple CPU cores in LINQ to Objects queries, LINQ to REST for translating LINQ queries into Representational State Transfer URLs that define requests to a Web service with the HTTP GET, POST, PUT, and DELETE methods, and Bart De Smet's LINQ to Active Directory and LINQ to SharePoint third-party implementations. Raising the Level of Data Abstraction with the Entity Data Model, starts with a guided tour of the development of EDM and EF as an O/RM tool and heir apparent to ADO.NET DataSets, provides a brief description of the entity-relationship (E-R) data model and diagrams, and then delivers a detailed analysis of EF architecture. Next comes an introduction to the Entity SQL (eSQL) language, eSQL queries, client views, and Object Services, including theObjectContext, MetadataWorkspace, and ObjectStateManager. Later chapters describe eSQL and these objects in greater detail. Two C# and VB sample projects expand on the eSQL query and Object Services sample code. Defining Conceptual, Mapping, and Storage Schema Layers, provides detailed insight into the structure of the *.edmx file that generates the *.ssdl (storage schema data language), *.msl (mapping schema language), and *.csdl files at runtime. You learn how to edit the *.edmx file manually to accommodate modifications that the graphic EDM Designer can't handle. You learn how to implement the Table-per-Hierarchy (TPH) inheritance

model and traverse the MetadataWorkspace to obtain property values. Four C# and VB sample projects demonstrate mapping, substituting stored procedures for queries, and TPH inheritance. Introducing Entity SQL, examines EF's new eSQL dialect that adds keywords to address the differences between querying entities and relational tables. You learn to use Zlatko Michaelov's eBlast utility to write and analyze eSQL queries, then dig into differences between eSQL and T-SQL SELECT queries. (eSQL v1 doesn't support INSERT, UPDATE, DELETE and other SQL Data Manipulation Language constructs). You execute eSQL queries against the EntityClient, measure the performance hit of eSQL compared to T-SQL, execute parameterize eSQL queries, and use SQL Server Compact 3.5 as a data store. C# and VB Sample projects demonstrate the programming techniques. Taking Advantage of Object Services and LINQ to Entities, concentrates manipulating the Object Services API'sObjectContext. It continues with demonstrating use of partial classes for the ModelNameEntities and EntityName objects, executing eSQL ObjectQuerys, and deferred or eager loading of associated entities, including ordering and filtering the associated entities. Also covers instructions for composing QueryBuilder methods for ObjectQuerys, LINQ to Entities queries, and parameterizing ObjectQuerys. Updating Entities and Complex Types, shows you how to perform create, update, and delete (CUD) operations on EntitySets and manage optimistic concurrency conflicts. It starts with a detailed description of the ObjectContext.ObjectStateManager and its child objects, which perform object identification and change tracking operations with EntityKeys. This also covers validation of create and update operations, optimizing the DataContext lifetime, performing updates with stored procedures, and working with complex types. Binding Data Controls to the ObjectContext, describes creating design-time data sources from ObjectContext.EntitySet instances, drag-and-drop addition of BindingNavigator, BindingSource, bound TextBox, and DataGridView controls to Windows forms. You also learn how to update EntityReference and EntitySet values with ComboBox columns in DataGridView controls. (You can't update EntitySet values directly; you must delete and add a new member having the required value). This concludes with a demonstration of the use of the ASP.NET EntityDataSource control bound to GridView and DropDownList controls. Using the Entity Framework As a Data Source, concentrates on using EF as a data source for the ADO.NET Data Services Framework (the former codename Project Astoria remains in common use), which is the preferred method for deploying EF v1 as a Web service provider. (EF v2 is expected to be able to support n-tier data access with Windows Communication Foundation [WCF] directly). A Windows form example uses Astoria's .NET 3.5 Client Library to display and update entity instances with the Atom Publication (AtomPub or APP) wire format. The Web form project uses the AJAX Client Library and JavaScript Object Notation (JSON) as the wire format.

LINQ Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**LINQ**," compiled by a very

acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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