

Professional ADO.NET Programming

ADO.NET Programming in Visual Basic .NET Steven Holzner, Bob Howell. 2003 Written for developers who need to get up to speed on ADO.NET, this book covers the ADO.NET object model from start to finish, from database tools to creating data objects, from creating Web Services to developing multi-tier database applications. It also covers everything from Windows Forms classes and data binding to creating ASP.NET Web applications.

Murach's ADO.NET 3.5 Anne Boehm. 2009 You won't get far as a C# developer unless you know how to write database applications. That is where this book comes in. It shows you how to use Visual Studio 2008 and ADO.NET 3.5 to develop database applications the way the best professionals do. That includes the full gamut of skills you need, from using prototyping features that generate ADO.NET code...to writing your own ADO.NET code from scratch so you can closely control how the database processing works...to using .NET 3.5 features like LINQ and the ADO.NET Entity Framework that actually change the way you think about handling data. What's more, this book takes you from beginner to database professional in a logical progression that makes each step easier to master.

Programming Entity Framework Julia Lerman. 2010-08-09 Get a thorough introduction to ADO.NET Entity Framework 4 -- Microsoft's core framework for modeling and interacting with data in .NET applications. The second edition of this acclaimed guide provides a hands-on tour of the framework latest version in Visual Studio 2010 and .NET Framework 4. Not only will you learn how to use EF4 in a variety of applications, you'll also gain a deep understanding of its architecture and APIs. Written by Julia Lerman, the leading independent authority on the framework, Programming Entity Framework covers it all -- from the Entity Data Model and Object Services to WCF Services, MVC Apps, and unit testing. This book highlights important changes for experienced developers familiar with the earlier version. Understand the core concepts you need to make the best use of the EF4 in your applications Learn to query your data, using either LINQ to Entities or Entity SQL Create Windows Forms, WPF, ASP.NET Web Forms, and ASP.NET MVC applications Build and consume WCF Services, WCF Data Services, and WCF RIA Services Use Object Services to work directly with your entity objects Create persistent ignorant entities, repositories, and write unit tests Delve into model customization, relationship management, change tracking, data concurrency, and more Get scores of reusable examples -- written in C# (with notes on Visual Basic syntax) -- that you can implement right away

Professional VB.NET Fred Barwell, Richard Case, Bill Forgey, Billy Hollis, Tim McCarthy, Jonathan Pinnock, Richard Blair, Jonathan Crossland, Whitney Hankison, Rockford Lhotka, Jan D. Narkiewicz, Rama Ramachandran, Matthew Reynolds, John Roth, Bill Sheldon, Bill Sempf. 2002-04-30 What is this book about? .NET is designed to provide a new environment within which you can develop almost any application to run on Windows (and possibly in the future on other platforms). Visual Basic .NET (VB.NET) is likely to be a very popular development tool for use with this framework. VB.NET is a .NET compliant language and, as such, has (except for legacy reasons) almost identical technical functionality as the new C# language and Managed Extensions for C++. Using VB.NET, you can develop a dynamic Web page, a component of a distributed application, a database access component, or a classic Windows desktop application. In order to incorporate Visual Basic into the .NET Framework, a number of new features have been added to it. In fact, the changes are so extensive that VB.NET should be viewed as a new language rather than simply as Visual Basic 7. However, these changes were necessary to give developers the features that they have been asking for: true object orientated programming, easier deployment, better interoperability, and a cohesive environment in which to develop applications. What does this book cover? In this book, we cover VB.NET virtually from start to finish: We begin by looking at the .NET Framework, and end by looking at best practices for deploying .NET applications. In between, we look at everything from database access to integration with other technologies such as XML, along with investigating the new features in detail. You will see that VB.NET has emerged as a powerful yet easy to use language that will allow you to target the Internet just as easily as the desktop. This book explains the underlying philosophy and design of the .NET Framework and Common Language Runtime (CLR) and explains the differences between Visual Basic 6 and Visual Basic .NET. You will learn how to Develop applications and components using Visual Studio .NET Effectively apply inheritance and interfaces when designing objects and components Organize your code using namespaces Handle errors using the Try...Catch...Finally structure Access data using ADO.NET and bind controls to the underlying data sources Create Windows applications and custom Windows controls Interoperate with COM and ActiveX components Create transactional and queuing components Use .NET Remoting to send serialized objects between clients and servers Create Windows Services Use VB.NET to access information on the Web Create and consume Web Services Secure your applications and code using the tools provided in the .NET Framework SDK Arrange your applications and libraries in assemblies and deploy them using Visual Studio .NET Who is this book for? This book is aimed at experienced Visual Basic developers who want to make the transition to VB.NET. What do you need to use this book? Although it is possible to create VB.NET applications using the command lines tools contained in the .NET Framework SDK, you will need Visual Studio .NET (Professional or higher), which includes the .NET Framework SDK, to use this book to the full. Here are some additional notes on what you may need: Some chapters make use of SQL Server 2000. However, you can also run the example code using MSDE (Microsoft Data Engine), which ships with Visual Studio .NET. Several chapters make use of Internet Information Services (IIS). IIS ships with Windows 2000 Server, Windows 2000 Professional, and Windows XP, although it is not installed by default. Chapter 18 makes use of MSMQ to work with queued transactions. MSMQ ships with Windows 2000 Server, Windows 2000 Professional, and Windows XP, although it is not installed by default.

Beginning Visual Web Programming in C# Daniel Cazzulino, Victor Garcia Aprea, James Greenwood, Chris Hart. 2004-09-30 * Takes the best of a series of C# Web Programming books from Wrox into one great book * Offers a natural follow-on to the Apress title 'Beginning C#' so that readers can continue building their .NET programming expertise with Apress Written by an expert teacher and programmer who is recognized in his field, and who is prepared to teach with real-world examples for his audience

Programming Microsoft ADO.NET 2.0 Applications Glenn Johnson. 2006 Get in-depth coverage and expert insights on advanced ADO.NET programming topics such as optimization, DataView, and large objects (BLOBs and CLOBs). Targeting experienced, professional software developers who design and develop enterprise applications, this book assumes that the reader knows and understands the basic functionality and concepts of ADO.NET 2.0 and that he or she is ready to move to mastering data-manipulation skills in Microsoft Windows®. The book is structured so readers can jump in for reference on each topic as needed, complete with pragmatic and instructive code examples.

Murach's ADO.NET 2.0 Database Programming with VB 2005 Anne Boehm. 2007 This book shows Visual Basic developers how to use Visual Studio 2005 and ADO.NET 2.0 to develop database applications the way the best professionals do. For rapid application development and prototyping, this book shows how to use the 2.0 data sources feature. For serious production applications, this book shows how to build 3-layer applications that consist of presentation, business, and database classes. For web applications, this book shows how to use the time-saving ASP.NET 2.0 data controls. To ensure mastery, this book presents 25 complete database applications that demonstrate best programming practices. And it's all done in the distinctive Murach style that has been training professional developers for over 30 years.

Microsoft ADO.NET 4 Step by Step Tim Patrick. 2010-10-25 Teach yourself the fundamentals of ADO.NET 4 -- one step at a time. With this practical, learn-by-doing tutorial, you get the clear guidance and hands-on examples you need to start creating datacentric applications for Windows and the Web. Discover how to: Connect to external data sources, including databases and other data formats Use ADO.NET Entity Framework to interact with underlying data stores Build Entity Framework models with graphical design tools in Microsoft Visual Studio 2010 Analyze information stored in ADO.NET with various LINQ providers Bind data directly to

Windows Forms and Web Forms to drive information to users Manage disconnected or standalone data and information Go beyond the core functionality of ADO.NET to manipulate data in more advanced ways Your step by step digital content includes: Practice exercises Fully searchable online edition of this book -- with unlimited access on the Web

ADO.NET Programming Arlen Feldman.2002-07-01 In building client-server or three-tier applications, desktop-rich clients, or Web applications, at some point the application will likely need to be able to access a database. ADO.NET is the technology within Microsoft's new .NET architecture for database access. This practical guide to ADO.NET begins with the basics and covers all of the pieces of ADO.NET. In addition to providing information on how to accomplish different tasks, it also explains the appropriate approaches for different types of applications. Some of these topics include basic database access using SQL Server or OLE DB data providers, using the DataSet, accessing data using XML, remoting, and database schema information.

Pro ADO.NET with VB .NET 1.1 Kevin Hoffman,Fabio Claudio Ferracchiati,Mathew Milner,Nick Malik,Jan D. Narkiewicz,Jenny Mack,Bipin Joshi,Doug Seven,John McTainsh,Paul Dickinson.2007-03-01 *First edition was popular with programmers; received excellent reviews. *Fully-updated for ADO 1.1 and latest ADO.NET release; additional material on latest updates includes Oracle Provider. *Practical examples relevant to the problems that programmers face in their daily work.

Professional VB 2005 Bill Evjen,Billy Hollis,Rockford Lhotka,Tim McCarthy,Rama Ramachandran,Kent Sharkey,Bill Sheldon.2005-11-07 Visual Basic .NET has changed dramatically from its predecessor, and this book shows developers how to build traditional console applications, ASP.NET applications, XML Web Services, and more The top-notch author team shares their years of experience in VB programming and helps readers take their skills to new heights Addresses issues such as security, data access (ADO.NET), and the latest Visual Studio .NET IDE Explores Common Language Runtime, variables and data types, object syntax, inheritance and interfaces, Windows forms, error handling and debugging, XML, namespaces, and advanced features of the latest version of ASP.NET

Distributed .NET Programming in C# Tom Barnaby.2002-05-29 Barnaby describes how to use the new .NET technologies to build fast, scalable, and robust distributed applications.

PRO ADO 2.5 PR, SUSSMAN.2000-02-10 ADO is Microsoft's latest Data Access technology used to enable fast and efficient data transfer between a database and the end users. Written for programmers with experience of their host language (Visual Basic, Visual C++, ASP, Office) who need to develop database applications, this book is not just Microsoft-centric, it addresses the needs of Oracle and other non-Microsoft programmers.

Professional ASP.NET 3.5 Bill Evjen,Scott Hanselman,Devin Rader.2011-01-11 In this book, you'll be introduced to the features and capabilities of ASP.NET 3.5, as well as the foundation that ASP.NET provides. Updated for the latest release of Visual Studio, this new edition adds five hundred pages of great new content compared to the original 2.0 version of the book. Including both printed and downloadable VB and C# code examples, this edition focuses even more on experienced programmers and advanced web development. New coverage includes new chapters on IIS 7 development, LINQ, ASP.NET, Silverlight, and many others.

Database Programming with C# Carsten Thomsen.2002-04-05 Non-VB programmers are shown how they can have the same database ease that Visual Basic programmers have: step-by-step coverage of data access in Visual Studio .NET, with example code in C#.

Practical Database Programming with Visual Basic.NET Ying Bai.2012-05-09 Practical Database Programming with Visual Basic.NET The most up-to-date Visual Basic.NET programming textbook—covering both fundamentals and advanced-level programming techniques—complete with examples and solutions Visual Basic.NET (VB.NET) is an object-oriented computer programming language that can be viewed as an evolution of the classic Visual Basic (VB), which is implemented on the .NET Framework. Microsoft currently supplies two major implementations of Visual Basic: Microsoft Visual Studio (which is commercial software) and Microsoft Visual Studio Express (which is free of charge). Forgoing the large amounts of programming codes found in most database programming books, Practical Database Programming with Visual Basic.NET shows students and professionals both how to develop professional and practical database programs in a Visual Basic.NET environment by using Visual Studio.NET Data Tools and Wizards related to ADO.NET 4.0, and how to apply codes that are auto-generated by solely using Wizards. The fully updated Second Edition: Covers both fundamentals and advanced database programming techniques Introduces three popular database systems with practical examples including MS Access, SQL Server 2008, and Oracle Features more than fifty sample projects with detailed illustrations and explanations to help students understand key techniques and programming technologies Includes downloadable programming codes and exercise questions This book provides undergraduate and graduate students as well as database programmers and software engineers with the necessary tools to handle the database programming issues in the Visual Studio.NET environment.

PROFESSIONAL ADO.NET PROGRAMMING BIPIN JOSHI □.2002-06-15

ADO.NET Examples and Best Practices for C# Programmers Peter D. Blackburn,William Vaughn.2002-04-01 Best-selling author Bill Vaughn gives practical advice that VB developers can use immediately to make their data access code faster and easier to write and understand.

Beginning ASP.NET Databases Using VB.NET John Kauffman,Fabio Claudio Ferracchiati,Brian Matsik,Eric N. Mintz,Jan D. Narkiewicz,Kent Tegels,Donald Xie,John West,Jesudas Chinnathampi,James Greenwood.2004-05-21 What is this book about? For a web site to offer its users an experience that improves on that of newspapers or textbooks, it needs a way to change the information it contains dynamically - and that means it needs access to a data source. Through the combination of ASP.NET and ADO.NET, Microsoft provides everything necessary to access, read from, and write to a database, and then allow web users to view and manipulate that data from a web browser. In this book, we'll show you how it's done. What does this book cover? Packed with clear explanations and hands-on examples, Beginning ASP.NET Databases contains everything you'll need on your journey to becoming a confident, successful programmer of data-driven web sites. In particular, we'll look at: Connecting to common data sources, including SQL Server and MS Access Reading data with data reader and dataset objects Creating and deleting records, and editing data Displaying data with ASP.NET's web server controls Writing and using stored procedures from VB.NET code Placing your data access code in reusable class libraries The book closes with a real-world case study that consolidates the tutorials throughout the book into a practical result. Who is this book for? To use this book, you need a computer running either Windows 2000 or Windows XP Professional Edition. The examples it contains will not run on Windows XP Home Edition. This book is for people who have some experience of programming ASP.NET with Visual Basic .NET, are familiar with the operation of the .NET Framework, and want to learn how to use ASP.NET to make data-centric web applications. No prior knowledge of database programming is necessary.

Distributed .NET Programming in VB .NET Tom Barnaby.2002-09-23 Barnaby describes how VB.NET developers can use the new .NET technologies to build fast, scalable, and robust distributed applications.

Professional ASP.NET 3.5 SP1 Edition Bill Evjen,Scott Hanselman,Devin Rader.2011-01-07 Professional ASP.NET 3.5 SP1 In C# and VB ASP.NET 3.5 brings the power of Visual Studio 2008 along with the multitude of language improvements in C# 2008 and Visual Basic 2008 as well as powerful new technology called LINQ, together with the ASP.NET 2.0 Framework you already know and love. Packed with valuable coverage of ASP.NET 3.5 SP1, this essential resource offers both C# and VB examples throughout the book, and shares new and updated content on the ADO.NET Entity Framework, ADO.NET Dynamic Data, and ADO.NET Data Services. While ASP.NET 3.5 boasts server controls like the ListView and the incredibly flexible GridView, it also includes advancements in AJAX technology combined with JavaScript debugging features in Visual Studio 2008. With this book, a stellar author team covers the new controls in the AJAX toolbox, the back button history, and script combining, and they also examine the new capabilities of WCF including changes to DataContractSerializer. In addition, the accompanying CD-ROM features the entire book in PDF format. What you will learn from this book The concepts underlying the server control and its pivotal role in ASP.NET

development How to create templated ASP.NET pages using the master page feature How to work with data from enterprise databases including SQL Server Ways to debug, package, and deploy ASP.NET applications, monitor their health and performance, and handle errors How to retrieve, update, and delete data quickly and logically using LINQ with side-by-side examples comparing LINQ to existing techniques Ways to localize your web site in multiple languages for a world-wide audience Methods for adding AJAX capabilities to your ASP.NET applications The many benefits of the new data access additions Ways to use and extend the Provider Model for accessing data stores, processes, and more What freeware tools you need in Scott Hanselman's ASP.NET Ultimate Developer Tools appendix Who this book is for This book is for programmers and developers who are looking to make the transition to ASP.NET 3.5 SP1 with Visual Studio 2008 and either C# 3.0 (2008) or Visual Basic 9 (2008). CD-ROM includes the full book in PDF format and a selection of 7 Wrox Blox mini e-books including: Internet Explorer 8 and Its Impact on Your ASP.NET Web Sites Jumping from ASP.NET to Silverlight 2 Leverage LINQ in ASP.NET 3.5 Projects Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

SQL Server Database Programming with Visual Basic.NET Ying Bai.2020-06-01 A guide to the practical issues and applications in database programming with updated Visual Basic.NET SQL Server Database Programming with Visual Basic.NET offers a guide to the fundamental knowledge and practical techniques for the design and creation of professional database programs that can be used for real-world commercial and industrial applications. The author—a noted expert on the topic—uses the most current version of Visual Basic.NET, Visual Basic.NET 2017 with Visual Studio.NET 2017. In addition, he introduces the updated SQL Server database and Microsoft SQL Server 2017 Express. All sample program projects can be run in the most updated version, Visual Basic.NET 2019 with Visual Studio.NET 2019. Written in an accessible, down-to-earth style, the author explains how to build a sample database using the SQL Server management system and Microsoft SQL Server Management Studio 2018. The latest version of ASP.NET, ASP.NET 4.7, is also discussed to provide the most up-to-date Web database programming technologies. This important book: Offers illustrative practical examples and detailed descriptions to aid in comprehension of the material presented Includes both fundamental and advanced database programming techniques Integrates images into associated database tables using a DevExpress UI tools -WindowsUI Written for graduate and senior undergraduate students studying database implementations and programming courses, SQL Server Database Programming with Visual Basic.NET shows how to develop professional and practical database programs in Visual Basic.NET 2017/Visual Basic.NET 2019.

Professional C# 4.0 and .NET 4 Christian Nagel,Bill Evjen,Jay Glynn,Karli Watson,Morgan Skinner.2010-06-17 This is the ultimate guide to C# 4 and the .NET 4 framework. Updated with more coverage of intermediate and advanced features, new examples, and detailed discussions of recent language and framework additions, this book covers everything you will need to know about C# and putting it to work. You will also find in-depth reviews of various topics including traditional Windows programming, working in Visual Studio 2010 with C#, base Class Libraries, and communication with Enterprise Services among others.

Professional ADO.NET 2 Prog. With Sql Server 2005 Wallace B McClure,Gregory A. Beamer.2005-12-16

Beginning Visual Web Programming in VB .NET Chris Hart,James Greenwood,Daniel Cazzulino,Victor Garcia Aprea.2007-07-30 * How to create dynamic web pages with ASP.NET web forms and web server controls * How to display and manipulate data using ADO.NET and Visual Studio .NET components * How to persist state in different ways, within the stateless web environment * How to create XML files and XML schema, and how to use them for data transfer * How to integrate your web applications with others, through web services * How to make your application more secure, via the security features in ASP.NET and IIS * How to eliminate bugs and unexpected failures, through effective debugging and exception-handling techniques * How to improve the performance of your application and prepare it for release NOTE: There is an Apress title called Programming the Web with Visual Basic .NET (Torkelson, Peterson, Torkelson) but this title is aimed at a higher-level audience and is more of a 'transition' book than an inspirational skills improvement book.

Professional C# 2005 Christian Nagel,Bill Evjen,Jay Glynn,Karli Watson,Morgan Skinner,Allen Jones.2005-12-07 Professional C# 2005 prepares you to program in C#, and it provides the necessary background information on how the .NET architecture works. It provides examples of applications that use a variety of related technologies, including database access, dynamic web pages, advanced graphics, and directory access. The only requirement is that you are familiar with at least one other high-level language used on Windows—either C++, VB, or J++. It starts with a tutorial on C# and the .NET framework. This introduction assumes no prior knowledge of .NET, but it does move rapidly, on the assumption that the reader is an experienced programmer. Once this background knowledge is established, the book starts to sweep through the vast .NET class library, showing how you can use C# to solve various tasks. This comprehensive coverage is one of the key selling points of previous versions of the book, and is maintained and enhanced with this new edition by adding new chapters on Generics, ObjectSpaces, Yukon, and Indigo. Some reference material is included either as appendices or is available to download from the Wrox website. After the introduction and initial chapter, the book is divided into a number of sections that cover both the C# language and its application in a variety of areas. Coverage includes: Writing Windows applications and Windows services Writing web pages and web services with ASP.NET Manipulating XML using C# 2005 Understanding .NET Assemblies Using ADO.NET to access databases Integration with COM, COM+, and Active Directory Distributed applications with .NET Remoting Generating graphics using C# 2005 Accessing files and the Registry, and controlling .NET security

Beginning VB .NET 1.1 Databases Dan Maharry.2006-11-02 * Written by best selling author Peter Wright, and marks a return to his best form as he writes with a mission again. 'Beginning VB6' by Peter Wright sold circa 100k copies, and he followed up with Beginning VB6 Objects which sold circa 30k copies on a more niche topic. * A personal journey with an expert in VB.NET database programming, this is a book that stands out from the crowd. * A complete tutorial involving the reader in all the key areas of VB.NET database programming that they need to progress their skill set in VB.NET. * All the skills are covered that a novice programmer will need to meet the database programming challenges they may meet in their programming career. * 2 months free subscription to ASP.Today for readers of this title.

Beginning ASP.NET in VB .NET Matthew MacDonald.2008-01-01 * Comprehensive book— includes discussion of the key database, and XML principles you need to know in order to be effective with ASP.NET * Teaches correct techniques such as the use of object orientation and code behind from the beginning rather than fake it with simplified techniques that won't work well in real life; Emphasizes best practices at all times * Most up to date and comprehensive Beginning ASP NET book out there

Professional VB 2005 with .NET 3.0 Bill Evjen,Billy Hollis,Bill Sheldon,Kent Sharkey,Tim McCarthy.2007-08-27 This comprehensive book offers you everything you'll need to make the transition to the newest version of the world's most popular programming language. You'll get detailed information on how to use VB 2005 in the ever-expanding .NET world using both essential explanations of the topics and key code demonstrations and you'll learn how to build everything from traditional console applications to ASP.NET applications and XML Web Services so you can take your abilities to new levels.

Professional ASP.NET 4 in C# and VB Bill Evjen,Scott Hanselman,Devin Rader.2010-03-08 This book was written to introduce you to the features and capabilities that ASP.NET 4 offers, as well as to give you an explanation of the foundation that ASP.NET provides. We assume you have a general understanding of Web technologies, such as previous versions of ASP.NET, Active Server Pages 2.0/3.0, or JavaServer Pages. If you understand the basics of Web programming, you should not have much trouble following along with this book's content. If you are brand new to ASP.NET, be sure to check out Beginning ASP.NET 4: In C# and VB by Imar Spaanjaars (Wiley Publishing, Inc., 2010) to help you understand the basics. In addition to working with Web technologies, we also assume that you understand basic programming constructs, such as variables, For Each loops, and object-oriented programming. You may also be wondering whether this book is for the Visual Basic developer or the C# developer. We are happy to say that it is for both! When the code differs substantially, this book provides examples in both VB and C#. This book explores the 4 release of ASP.NET. It covers each major new feature included in ASP.NET 4 in detail. The following list tells you something about the content of each chapter. Chapter 1, "Application and Page Frameworks." The first chapter covers the frameworks of ASP.NET applications as well as the structure and frameworks provided for single ASP.NET

pages. This chapter shows you how to build ASP.NET applications using IIS or the built-in Web server that comes with Visual Studio 2010. This chapter also shows you the folders and files that are part of ASP.NET. It discusses ways to compile code and shows you how to perform cross-page posting. This chapter ends by showing you easy ways to deal with your classes from within Visual Studio 2010. Chapters 2, 3, and 4. These three chapters are grouped together because they all deal with server controls. This batch of chapters starts by examining the idea of the server control and its pivotal role in ASP.NET development. In addition to looking at the server control framework, these chapters delve into the plethora of server controls that are at your disposal for ASP.NET development projects. Chapter 2, "ASP.NET Server Controls and Client-Side Scripts," looks at the basics of working with server controls. Chapter 3, "ASP.NET Web Server Controls," covers the controls that have been part of the ASP.NET technology since its initial release and the controls that have been added in each of the ASP.NET releases. Chapter 4, "Validation Server Controls," describes a special group of server controls: those for validation. Chapter 5, "Working with Master Pages." Master pages provide a means of creating templated pages that enable you to work with the entire application, as opposed to single pages. This chapter examines the creation of these templates and how to apply them to your content pages throughout an ASP.NET application. Chapter 6, "Themes and Skins." The Cascading Style Sheet files you are allowed to use in ASP.NET 1.0/1.1 are simply not adequate in many regards, especially in the area of server controls. This chapter looks at how to deal with the styles that your applications require and shows you how to create a centrally managed look-and-feel for all the pages of your application by using themes and the skin files that are part of a theme. Chapter 7, "Data Binding." One of the more important tasks of ASP.NET is presenting data, and this chapter looks at the underlying capabilities that enable you to work with the data programmatically before issuing the data to a control. Chapter 8, "Data Management with ADO.NET." This chapter presents the ADO.NET data model provided by ASP.NET, which allows you to handle the retrieval, updating, and deleting of data quickly and logically. Chapter 9, "Querying with LINQ." The .NET Framework 4 includes a nice access model language called LINQ. LINQ is a set of extensions to the .NET Framework that encompass language-integrated query, set, and transform operations. This chapter introduces you to LINQ and how to effectively use this feature in your Web applications today. Chapter 10, "Working with XML and LINQ to XML." The .NET Framework and ASP.NET 4 have many capabilities built into their frameworks that enable you to easily extract, create, manipulate, and store XML. This chapter takes a close look at the XML technologies built into ASP.NET and the underlying .NET Framework. Chapter 11, "Introduction to the Provider Model." The provider model is built into ASP.NET to make the lives of developers so much easier and more productive than ever before. This chapter gives an overview of this provider model and how it is used throughout ASP.NET 4. Chapter 12, "Extending the Provider Model." After an introduction of the provider model, this chapter looks at some of the ways to extend the provider model found in ASP.NET 4. This chapter also reviews a couple of sample extensions to the provider model. Chapter 13, "Site Navigation." Most developers do not simply develop single pages—they build applications. One of the application capabilities provided by ASP.NET 4 is the site navigation system covered in this chapter. Chapter 14, "Personalization." Developers are always looking for ways to store information pertinent to the end user. After it is stored, this personalization data has to be persisted for future visits or for grabbing other pages within the same application. The ASP.NET team developed a way to store this information—the ASP.NET personalization system. The great thing about this system is that you configure the entire behavior of the system from the web.config file. Chapter 15, "Membership and Role Management." This chapter covers the membership and role management system developed to simplify adding authentication and authorization to your ASP.NET applications. This chapter focuses on using the web.config file for controlling how these systems are applied, as well as on the server controls that work with the underlying systems. Chapter 16, "Portal Frameworks and Web Parts." This chapter explains Web Parts—a way of encapsulating pages into smaller and more manageable objects. Chapter 17, "HTML and CSS Design with ASP.NET." Visual Studio 2010 places a lot of focus on building a CSS-based Web. This chapter takes a close look at how you can effectively work with HTML and CSS design for your ASP.NET applications. Chapter 18, "ASP.NET AJAX." AJAX is an acronym for Asynchronous JavaScript and XML. In Web application development, it signifies the capability to build applications that make use of the XMLHttpRequest object. Visual Studio 2010 contains the ability to build AJAX-enabled ASP.NET applications from the default install of the IDE. This chapter takes a look at this way to build your applications. Chapter 19, "ASP.NET AJAX Control Toolkit." Along with the capabilities to build ASP.NET applications that make use of the AJAX technology, a series of controls is available to make the task rather simple. This chapter takes a good look at the ASP.NET AJAX Control Toolkit and how to use this toolkit with your applications today. Chapter 20, "Security." This chapter discusses security beyond the membership and role management features provided by ASP.NET 4. This chapter provides an in-depth look at the authentication and authorization mechanics inherent in the ASP.NET technology, as well as HTTP access types and impersonations. Chapter 21, "State Management." Because ASP.NET is a request-response-based technology, state management and the performance of requests and responses take on significant importance. This chapter introduces these two separate but important areas of ASP.NET development. Chapter 22, "Caching." Because of the request-response nature of ASP.NET, caching (storing previous generated results, images, and pages) on the server becomes rather important to the performance of your ASP.NET applications. This chapter looks at some of the advanced caching capabilities provided by ASP.NET, including the SQL cache invalidation feature which is part of ASP.NET 4. This chapter also takes a look at object caching and object caching extensibility. Chapter 23, "Debugging and Error Handling." This chapter tells you how to properly structure error handling within your applications. It also shows you how to use various debugging techniques to find errors that your applications might contain. Chapter 24, "File I/O and Streams." This chapter takes a close look at working with various file types and streams that might come into your ASP.NET applications. Chapter 25, "User and Server Controls." Not only can you use the plethora of server controls that come with ASP.NET, but you can also use the same framework these controls use and build your own. This chapter describes building your own server controls and how to use them within your applications. Chapter 26, "Modules and Handlers." This chapter looks at two methods of manipulating the way ASP.NET processes HTTP requests: HttpModule and IHttpHandler. Each method provides a unique level of access to the underlying processing of ASP.NET, and each can be a powerful tool for creating Web applications. Chapter 27, ASP.NET MVC. ASP.NET MVC is the latest major addition to ASP.NET and has generated a lot of excitement from the development community. ASP.NET MVC supplies you with the means to create ASP.NET using the Model-View-Controller models that many developers expect. ASP.NET MVC provides developers with the testability, flexibility, and maintainability in the applications they build. It is important to remember that ASP.NET MVC is not meant to be a replacement to the ASP.NET everyone knows and loves, but instead is simply a different way to construct your applications. Chapter 28, "Using Business Objects." Invariably, you are going to have components created with previous technologies that you do not want to rebuild but that you do want to integrate into new ASP.NET applications. If this is the case, the .NET Framework makes incorporating your previous COM components into your applications fairly simple and straightforward. This chapter also shows you how to build .NET components instead of turning to the previous COM component architecture. Chapter 29, "ADO.NET Entity Framework." The inclusion of the ADO.NET Entity Framework in ASP.NET makes mapping objects from the database to the objects within your code significantly simpler. Using Visual Studio 2010, you are able to visually design your entity data models and then very easily access these models from code allowing the ADO.NET Entity Framework to handle the connections and transactions to the underlying database. Chapter 30, "ASP.NET Dynamic Data." This feature in ASP.NET 4 allows you to quickly and easily put together a reporting and data entry application from your database. You are also able to take these same capabilities and incorporate them into a pre-existing application. Chapter 31, "Working with Services." This chapter reveals the ease not only of building XML Web services, but consuming them in an ASP.NET application. This chapter then ventures further by describing how to build XML Web services that utilize SOAP headers and how to consume this particular type of service. Another feature in ASP.NET, ADO.NET Data Services, allows you to create a RESTful service layer using an Entity Data Model. Using this capability, you can quickly set up a service layer that allows you to expose your content as AtomPub or JSON, which will allow the consumer to completely interact with the underlying database. Chapter 32, "Building Global Applications." ASP.NET provides an outstanding way to address the internationalization of Web applications. Changes to the API, the addition of capabilities to the server controls, and even Visual Studio itself equip you to do the extra work required to more easily bring your application to an international audience. This chapter looks at some of the important items to consider when building your Web applications for the world. Chapter 33, "Configuration." This chapter teaches you to modify the capabilities and behaviors of ASP.NET using the

various configuration files at your disposal. Chapter 34, "Instrumentation." ASP.NET gives you greater capability to apply instrumentation techniques to your applications. The ASP.NET Framework includes performance counters, the capability to work with the Windows Event Tracing system, possibilities for application tracing (covered in Chapter 23 of this book), and the most exciting part of this discussion—a health monitoring system that allows you to log a number of different events over an application's lifetime. This chapter takes an in-depth look at this health monitoring system. Chapter 35, "Administration and Management." This chapter provides an overview of the GUI tools that come with ASP.NET today that enable you to manage your Web applications easily and effectively. Chapter 36, "Packaging and Deploying ASP.NET Applications." So you have built an ASP.NET application—now what? This chapter takes the building process one step further and shows you how to package your ASP.NET applications for easy deployment. Many options are available for working with the installers and compilation model to change what you are actually giving your customers. Appendix A, "Migrating Older ASP.NET Projects." This appendix focuses on migrating ASP.NET 1.x, 2.0, or 3.5 applications to the 4 Framework. Appendix B, "ASP.NET Ultimate Tools." Based on Scott Hanselman's annual Tools pick blog posting, many of the tools here will expedite your development process and, in many cases, make you a better developer. Appendix C, "Silverlight 3 and ASP.NET." Silverlight is a means to build fluid applications using XAML. This technology enables developers with really rich vector-based applications. Appendix D, Dynamic Types and Languages. As of the release of ASP.NET 4, you can now build your Web applications using IronRuby and IronPython. This appendix takes a quick look at using dynamic languages in building your Web applications. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Database Programming with Visual Basic .NET Carsten Thomsen.2003 Although this volume can be used as a reference book--thanks to its many listings and tables--it's really intended for any serious VB programmer who needs to do database programming. Microsoft MVP author Thomsen takes developers through all the data access aspects of Visual Studio.NET with sample code in VB.NET.

Murach's ADO.NET 4 Database Programming with VB 2010 Anne Boehm,Ged Mead.2011 Now in its 4th Edition, this book shows Visual Basic developers how to use Visual Studio and ADO.NET to develop database applications the way the best professionals do. You will learn how to: Quickly create Windows and web applications by dragging-and-dropping data controls in Visual Studio 2010; Code your own presentation, business, and database classes with ADO.NET 4 to build 3-layer applications . . . the route the professionals take for flexibility and control; Display and manipulate data in web applications by using ASP.NET data controls designed specifically for that purpose, like GridView and DetailsView; Work with XML-specific features of ADO.NET and SQL Server to read, write, and manipulate XML data in your applications; Create local reports using Visual Studio's Report Designer and Report Viewer to display data easily . . . and clearly! . . . in tables, matrices, lists, and charts; Use the Entity Framework to create an entity data model that maps business objects to database objects, then retrieve and maintain data through that model; Use LINQ to query datasets, SQL Server databases, and entity data. Practice exercises at the end of every chapter and complete database applications throughout help you master every skill along the way. And Murach's distinctive paired-pages format . . . where each skill is presented with examples and advice in a single 2-page spread . . . is great for both targeted learning and reference.

ADO.NET and ADO Examples and Best Practices for VB Programmers William Vaughn.2008-01-01 ADO.NET and ADO Examples and Best Practices for VB Programmers, Second Edition brings the popular first edition up to date with fresh insights and tips on COM-based ADO and adds a voluminous section on the new ADO.NET technology. Written specifically for COM-based ADO developers retooling for ADO.NET, this is a developer's book, packed with practical advice on how to make code run faster, yet be easier to write and understand. Veteran author William Vaughn guides you through the data access maze with working examples and numerous discussions of what works and what doesn't. Derived from years of experience working with data access developers, Vaughn's Best Practices are a set of techniques proven to drastically reduce overhead, problems, and confusion—for the developer, the system, and the entire team. While some are quite simple to implement, others require considerable knowledge and forethought to enable.

Professional ADO.NET 2 Wallace B. McClure,Gregory A. Beamer,John J. Croft, IV,J. Ambrose Little,Bill Ryan,Phil Winstanley,David Yack,Jeremy Zongker.2005-12-05 ADO.NET revolutionized the way data was accessed through SQL Server, Oracle, and MySQL. With Microsoft's release of ADO.NET 2, ADO and the .NET Framework are integrated with SQL Server for the first time-enabling you to program .NET applications directly within the SQL Server database. Packed with sample code and recommended best practices for using ADO.NET 2, this code-intensive book explores the new data types that are available in the 2.0 Framework and discusses the appropriate time and way to use them. You'll learn how to make repetitive, mundane tasks much simpler and you'll walk away with a solid foundation for developing database-driven applications. What you will learn from this book The basics of creating a connection, executing a query, and returning a result Best uses for Oracle in the ADO.NET Framework The many new features that are available for XML How to use the full text search capabilities of Microsoft(r) SQL Server 2005 Methods for retrieving data and presenting it in various ways Why MySQL is a viable option for data storage Who this book is for This book is for experienced database developers who want to learn the latest release of ADO.NET 2.0. Knowledge of ADO.NET 1.0, general .NET development, and Microsoft SQL Server is necessary. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

ADO and ADO.NET Programming Mike Gunderloy.2006-02-20 ADO, or ActiveX Data Objects, is Microsoft's key technology for data access in client/server and Web applications. This book covers both ADO and ADO.NET in one volume, allowing a programmer to select the appropriate technology for their database application. The material is good for not only VB.NET and C# programmers but also those using VBA, Access, and older versions of the Microsoft programming tools. It includes numerous examples showing various combinations of servers and clients, including SQL Server, Jet, and Oracle on the server side, and VB, Access, ASP.NET, and VB.NET on the client side. The book also covers more advanced topics, such as disconnected recordsets, XML integration, schema modification, and multidimensional aggregation. The companion CD-ROM includes all the sample code and applications from the book, plus a collection of third-party ADO utilities. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Pragmatic ADO.NET Shawn Wildermuth.2003 Developers need a way to interact with all data platforms in a uniform way, and Microsoft has attempted time and again to meet this need with its Universal Data Access strategy. In developing ADO.NET, Microsoft has made their additions of support for XML and disconnected data sets easier to use. This tutorial will guide the reader through ADO.NET from the top down, showing readers the hows and whys of using ADO.NET with lots of examples they can mold into their own projects right away. It is intended to be an introduction to ADO.NET for developers with some knowledge of data access. While it will show readers how ADO.NET follows on its predecessors, it will be written to avoid repeating any remedial instruction in databases and storage theory.

Professional Visual Basic 2012 and .NET 4.5 Programming Bill Sheldon,Billy Hollis,Rob Windsor,David McCarter,Gastón C. Hillar,Todd Herman.2012-12-13 Explore Visual Basic 2012 and .NET 4.5 with this fully updated resource After a quick review of the of introductory topics of VisualBasic 2012 and .NET 4.5, this book moves quickly into advanced topics such as data access with ADO.NET, security, ASP.NET webprogramming with Visual Basic, Windows workflow, and threading.You'll explore the essential Visual Basic 2012 functions you need,including .NET features such as LINQ, WCF, and more. Plus, you'll examine exception handling and debugging, Visual Studio features,and deployment. Puts the new Async keyword and Iterators to work Explores new options and interfaces presented by Windows 8development and WinRT Continues strong coverage of core language elements and toolsand creating componentized applications This updated version of Professional Visual Basic 2012 and .NET 4.5 retains its expert author team, including one of the best-known and respected Microsoft Visual Basic MVPs, Bill Sheldon,and Microsoft Regional Director "Software Legend" BillyHollis.

Beginning C# Databases Scott Allen,Syed Fahad Gilani,Jacob Hammer Pedersen,James Huddleston,Jon Reid,Ranga Raghuram.2007-03-01 *The first edition of this book is well respected in the programming community; received all five-star reviews. *C# database programming is a leading area of book sales; this edition fully updated for .NET 1.1 and ADO. *Leads readers from beginning topics, to acquiring skills they'll need in their C#

programming careers. Plus, current wave of C# adoption in programming community, especially from programmers using VB6—this book is suited for such new readership.

Professional Visual Basic 2010 and .NET 4 Bill Sheldon, Billy Hollis, Kent Sharkey, Jonathan Marbutt, Rob Windsor, Gastón C. Hillar. 2010-07-15 Intermediate and advanced coverage of Visual Basic 2010 and .NET 4 for professional developers. If you've already covered the basics and want to dive deep into VB and .NET topics that professional programmers use most, this is your book. You'll find a quick review of introductory topics—always helpful—before the author team of experts moves you quickly into such topics as data access with ADO.NET, Language Integrated Query (LINQ), security, ASP.NET web programming with Visual Basic, Windows workflow, threading, and more. You'll explore all the new features of Visual Basic 2010 as well as all the essential functions that you need, including .NET features such as LINQ to SQL, LINQ to XML, WCF, and more. Plus, you'll examine exception handling and debugging, Visual Studio features, and ASP.NET web programming. Expert author team helps you master the tools and techniques you need most for professional programming. Reviews why Visual Basic 2010 will be synonymous with writing code in Visual Studio 2010. Focuses on .NET features such as LINQ, LINQ to SQL, LINQ to XML, WPF, workflow, and more. Discusses exception handling and debugging, data access with ADO.NET, Visual Studio features for Visual Basic developers, Windows programming with Windows Forms, ASP.NET web programming with VB, communication interfaces, Windows workflow, and threading. This Wrox guide presents you with updated coverage on topics you need to know now.

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() SQO 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's 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 HTML 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 (CRUD) 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.

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Table of Contents Professional Ado Net Programming

1. Understanding the eBook Professional Ado Net Programming
 - The Rise of Digital Reading Professional Ado Net Programming
 - Advantages of eBooks Over Traditional Books
2. Identifying Professional Ado Net Programming
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Professional Ado Net Programming
 - User-Friendly Interface
4. Exploring eBook Recommendations from Professional Ado Net Programming
 - Personalized Recommendations
 - Professional Ado Net Programming User Reviews and Ratings
 - Professional Ado Net Programming and Bestseller Lists
5. Accessing Professional Ado Net Programming Free and Paid eBooks
 - Professional Ado Net Programming Public Domain eBooks
 - Professional Ado Net Programming eBook Subscription Services
6. Navigating Professional Ado Net Programming eBook Formats
 - Professional Ado Net Programming Budget-Friendly Options
 - ePub, PDF, MOBI, and More
 - Professional Ado Net Programming Compatibility with Devices
 - Professional Ado Net Programming Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Professional Ado Net Programming
 - Highlighting and Note-Taking Professional Ado Net Programming
 - Interactive Elements Professional Ado Net Programming
8. Staying Engaged with Professional Ado Net Programming
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Professional Ado Net Programming
9. Balancing eBooks and Physical Books Professional Ado Net Programming
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Professional Ado Net Programming
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Professional Ado Net Programming
 - Setting Reading Goals Professional Ado Net Programming

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Professional Ado Net Programming
 - Fact-Checking eBook Content of Professional Ado Net Programming
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Professional Ado Net Programming Introduction

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