
Microsoft Ado Net Entity Framework Step By Step Step By Step Developer

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Microsoft ADO.NET Entity Framework Step by Step Apress

Beginning ASP.NET 4.5 Databases introduces you to the world of building data-driven Web sites using ASP.NET, ADO.NET and the Entity Framework using C#. Since ASP.NET developers need to access databases quickly and efficiently, this book teaches the best practices and methods to help developers achieve professional ASP.NET and database solutions. Beginning ASP.NET 4.5 Databases is a comprehensive introduction on how you can connect a Web site to many different data sources - not just databases - and use the data to create dynamic page content. It also shows you how to build a relational database, use SQL to communicate with it, and understand how they differ from each other. With in-depth, on-target coverage of the new data access features of .NET Framework 4.5, this book is your guide to using ASP.NET to build responsive, easy-to-update data-driven Web sites. What you'll learn Design for code-first, model-first and database-first data access paradigms Use different data sources for building data-driven Web sites Discover enhancements in SQL Server 2012 as a relational database Understand concepts of non-relational databases and why you need them Develop strategies for building Entity Data Models using Entity Framework 4.1 Begin to use the new data-access features in ASP.NET 4.5 like strongly typed controls, model binding and dynamic data Who this book is for Beginning ASP.NET 4.5 Databases is for the web developer who is beginning to get into the world of web development using ASP.NET, ADO.NET and C#. The book is an excellent choice for developers who are still using previous versions of the .NET Framework and who are looking to learn the new data access features in .NET Framework 4.5.

C# 6.0 and the .NET 4.6 Framework "O'Reilly Media, Inc."

Summary Entity Framework 4 in Action is an example-rich tutorial for .NET developers with full coverage of EF 4 features. The book begins with a review of the core ideas behind the ORM model and shows through detailed examples and larger case studies how Entity Framework offers a smooth transition from a traditional ADO.NET approach. About the Technology Entity Framework builds on the ADO.NET persistence model and the language features of LINQ to create a powerful persistence mechanism that bridges the gap between relational databases and object-oriented languages. About the Book Entity Framework 4 in Action is an example-rich tutorial that helps .NET developers learn and master the subject. It begins by explaining object/relational mapping and then shows how you can easily transition to EF from ADO.NET. Through numerous focused examples and two larger case studies, the book unfolds the EF story in a clear, easy-to-follow style. Infrastructure and inner workings of EF are discussed when you need them to understand a particular feature. This book is written for .NET developers. Knowledge of ADO.NET is helpful but not required. 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. What's Inside Full coverage of EF 4 features Layer separation, Data Layer, and Domain Model Best practices Table of Contents PART 1 REDEFINING YOUR DATA-ACCESS STRATEGY Data access reloaded: Entity Framework Getting started with Entity Framework PART 2 GETTING STARTED WITH ENTITY FRAMEWORK Querying the object model: the basics Querying with LINQ to Entities Domain model mapping Understanding the entity lifecycle Persisting objects into the database Handling concurrency and transactions PART 3 MASTERING ENTITY FRAMEWORK An alternative way of querying: Entity SQL Working with stored procedures Working with functions and views Exploring EDM metadata Customizing code and the designer

Programming Entity Framework Mike Murach & Associates

Ace preparation for the skills measured by MCTS Exam 70-516--and on the job--with this official Microsoft study guide. Users work at their own pace through a series of lessons and reviews that fully cover each exam objective. Then, they reinforce and apply what they've learned through real-world case scenarios and practice exercises. Includes CD.

ADO.NET Entity Framework Simon and Schuster

Entity Framework 6 Recipes provides an exhaustive collection of ready-to-use code solutions for Entity Framework, Microsoft's model-centric, data-access platform for the .NET Framework and ASP.NET development. With this book, you will learn the core concepts of Entity Framework through a broad range of clear and concise solutions to everyday data access tasks. Armed with this experience, you will be ready to dive deep into Entity Framework, experiment with new approaches, and develop ways to solve even the most difficult data access challenges. If you are a developer who likes to learn by example, then this is the right book for you. Gives ready-to-use, real-world recipes to help you with everyday tasks Places strong focus on DbContext and the Code First approach Covers new features such as Async Query and Save, Codebased Configuration, Connection Resiliency, Dependency Resolution, and much more What you'll learn Implement basic data access design patterns using Entity Framework. Seamlessly model your solutions across both code and data. Provide data access to Windows 8 and Metro applications. Integrate with WCF Data Services Improve data access performance. Simplify and reduce your code through data binding. Who this book is for Entity Framework 6 Recipes is for anyone learning Microsoft's Entity Framework--Microsoft's primary data access platform in the .NET Framework. If you have ever struggled to learn a new technology, programming model, or way of doing something, you know how helpful simple and real-world examples can be. For the

beginning developer, this book provides concrete examples for common data access tasks. For developers having experience with previous Microsoft data access platforms, this book provides a task-by-task mapping between previous approaches and the patterns used in Entity Framework. Table of Contents Getting Started with Entity Framework Entity Data Modeling Fundamentals Querying an Entity Data Model Using Entity Framework in ASP.NET Loading Entities and Navigation Properties Beyond the Basics with Modeling and Inheritance Working with Object Services Plain Old CLR Objects Using the Entity Framework in N-Tier Applications Stored Procedures Functions Customizing Entity Framework Objects Improving Performance Concurrency

Pro Entity Framework 4.0 John Wiley & Sons

Build your ASP.NET 4.5.1 skills with real-world instruction In this comprehensive guide to getting started with ASP.NET 4.5.1, best-selling author Imar Spaanjaars provides a firm foundation for coders new to ASP.NET and key insights for those not yet familiar with the important updates in the 4.5.1 release. Readers learn how to build full-featured ASP.NET websites using Visual Studio Express 2013 for Web, Microsoft's free development tool for ASP.NET web applications. Beginning ASP.NET 4.5.1 guides you through the process of creating a fully functional, database-driven website, from creation of the most basic site structure all the way down to the successful deployment of the website to a production environment. Beginning ASP.NET 4.5.1: in C# and VB: Explains how to get started with ASP.NET 4.5.1, including an introduction to Microsoft's Visual Studio Express 2013 for Web Features helpful examples for designing websites with CSS and HTML and how to overcome common formatting problems Shares techniques for managing server controls in ASP.NET, including standard controls, HTML controls, and data controls Provides real-world tips for creating consistent page layouts throughout your websites Covers practical functionality issues like validating user input, sending e-mail from your website, and processing data at the server Details what the ASP.NET state engine is and why it is important Shows how to access and modify data in a SQL Server database Includes coverage of jQuery, LINQ, and the Entity Framework Explores measures to take for optimal security

Programming Entity Framework Mike Murach & Associates

Teaches how to use LINQ to DataSet to query the data in typed or untyped datasets. This book also teaches how to use LINQ to SQL, which allows you to generate an object model from the objects in a SQL Server database that can then be used to access and update the database data.

Programming Microsoft LINQ in .NET Framework 4 CRC Press

ADO.NET--the data-access component of the Microsoft .NET Framework--works with any component on any platform that understands XML. Get a solid handle on ADO.NET and learn how to exploit the database functionality of Microsoft Visual Basic .NET and Microsoft Visual C# .NET with this step-by-step primer. You'll be working in ADO.NET right away with easy-to-grasp examples drawn from the real-world challenges developers face every day. Learn about the ADO.NET object model and how to use it to develop data-bound Windows Forms and Web Forms. See how ADO.NET interacts with XML and how to access older versions of ADO from the .NET environment. Throughout, you'll find insightful tips and expert explanations for rapid acceleration of development productivity, faster applications, and more powerful results. Topics covered include: Getting started with ADO.NET Creating connections The Data command and DataReader Accessing data with the DataAdapter Working with DataSets Working with DataTables Controlling table views with DataViews Editing and updating data Data-binding in Windows Forms Data-binding in Web Forms Using the XML Designer to modify data structure Reading and writing XML with ADO.NET Using ADO from the .NET Framework CD features: * Examples of real-world solutions developed with ADO.NET, including sample code in Visual Basic .NET and Visual C# .NET For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

Beginning ASP.NET 4.5.1: in C# and VB Pearson Education

Your hands-on guide to Entity Framework fundamentals Expand your expertise--and teach yourself the fundamentals of the Microsoft ADO.NET Entity Framework 5. If you have previous programming experience but are new to the Entity Framework, this tutorial delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to: Access data in a managed way--using minimal code Apply three workflows supported by the Entity Framework Perform essential tasks with full automation in place Manipulate data with both LINQ and Entity SQL Create examples that rely on Table-Valued Functions Determine the remedies for Entity-specific exceptions Explore the use of optimistic and pessimistic concurrency Define mappings between your applications and data sources

Entity Framework Tutorial Second Edition Packt Publishing Ltd

Intermediate to advanced technique coverage, updated for C# 2012 and .NET 4.5 This guide is geared towards experienced programmers looking to update and enhance their skills in writing Windows applications, web apps, and Metro apps with C# and .NET 4.5. Packed with information about intermediate and advanced features, this book includes everything professional developers need to know about C# and putting it to work. Covers challenging .NET features including Language Integrated Query (LINQ), LINQ to SQL, LINQ to XML, WCF, WPF, Workflow, and Generics Puts the new Async keyword to work and features refreshers on .NET architecture, objects, types, inheritance, arrays, operators, casts, delegates, events, strings, regular expressions, collections, and memory management Explores new options and interfaces presented by Windows 8 development, WinRT, and

Metro style apps Includes traditional Windows forms programming, ASP.NET web programming with C#, and working in Visual Studio 2012 with C# Professional C# 2012 and .NET 4.5 is a comprehensive guide for experienced programmers wanting to maximize these technologies.

[Murach's ADO.NET 3.5 Apress](#)

Written by experts on the Microsoft® .NET programming platform, ADO.NET in a Nutshell delivers everything .NET programmers will need to get a jump-start on ADO.NET technology or to sharpen their skills even further. In the tradition of O'Reilly's In a Nutshell Series, ADO.NET in a Nutshell is the most complete and concise source of ADO.NET information available. ADO.NET is the suite of data access technologies in the .NET Framework that developers use to build applications services accessing relational data and XML. Connecting to databases is a fundamental part of most applications, whether they are web, Windows®, distributed, client/server, XML Web Services, or something entirely different. But ADO.NET is substantially different from Microsoft's previous data access technologies—including the previous version of ADO—so even experienced developers need to understand the basics of the new disconnected model before they start programming with it. Current with the .NET Framework 1.1, ADO.NET in a Nutshell offers one place to look when you need help with anything related to this essential technology, including a reference to the ADO.NET namespaces and object model. In addition to being a valuable reference, this book provides a concise foundation for programming with ADO.NET and covers a variety of issues that programmers face when developing web applications or Web Services that rely on database access. Using C#, this book presents real world, practical examples that will help you put ADO.NET to work immediately. Topics covered in the book include: An Introduction to ADO.NET Connections, Commands and DataReaders Disconnected Data Advanced DataSets Transactions DataViews and Data Binding XML and the DataSet Included with the book is a Visual Studio .NET add-in that integrates the entire reference directly into your help files. When combining ADO.NET in a Nutshell with other books from O'Reilly's .NET In a Nutshell series, you'll have a comprehensive, detailed and independent reference collection that will help you become more productive.

[Microsoft ADO.NET 4 Step by Step Pearson Education](#)

A comprehensive guide to the Entity Framework with insight into its latest features and optimizations for responsive data access in your projects About This Book Create Entity data models from your database and use them in your applications Learn about the Entity Client data provider and write statements in Entity SQL to perform CRUD operations Explore ADO.NET Data Services and how they work with the Entity Framework Who This Book Is For If you are a C# developer who wants to learn a new way of querying data and utilizing it in applications efficiently for data binding or other operations, then this book is for you. Basic knowledge of ADO.NET is assumed. What You Will Learn Explore the features of the ADO.NET Entity Framework Understand the concepts of entities and their relationships Create an Entity Data Model using the ADO.NET Entity Data Model Designer and the EdmGen tool Extend existing Entity Types to create your own Entity Types Write programs against the Entity Data Model to perform CRUD operations Discover ADO.NET Data Services and learn how they can be used with the Entity Framework Familiarize yourself with WCF Data Services (formerly ADO.NET Data Services) Apply Code First, Model First and Database First approaches In Detail The ADO.NET Entity Framework from Microsoft is a new ADO.NET development framework that provides a level of abstraction for data access strategies and solves the impedance mismatch issues that exist between different data models. This book explores Microsoft's Entity Framework and explains how it can be used to build enterprise level applications. It will also teach you how you can work with RESTful Services and Google's Protocol Buffers with Entity Framework and WCF. You will explore how to use Entity Framework with ASP.NET Web API and also how to consume the data exposed by Entity Framework from client applications of varying types, i.e., ASP.NET MVC, WPF and Silverlight. You will familiarize yourself with the new features and improvements introduced in Entity Framework including enhanced POCO support, template-based code generation, tooling consolidation and connection resiliency. By the end of the book, you will be able to successfully extend the new functionalities of Entity framework into your project. Style and approach This book is a step-by-step tutorial providing hands-on code examples with detailed explanations. The book aims to explain the concepts of the Entity Framework and illustrate how you can use these in applications with a tutorial based approach.

[WCF Multi-layer Services Development with Entity Framework - Fourth Edition Apress](#)

Presenting cutting-edge insights from industry practitioners, .NET 4 for Enterprise Architects and Developers supplies in-depth coverage of the various server-side features of Microsoft .NET Framework 4 that can be leveraged in Enterprise Application development. It provides a fundamental understanding of the technical aspects of implementation and

[Entity Framework 6 Recipes "O'Reilly Media, Inc."](#)

Annotation Code first is an additional means of building a model to be used with the Entity Framework and is creating a lot of excitement in the .NET development community. The reader will begin with an overview of what code first is, why it was created, how it fits into the Entity Framework and when to use it over the alternatives.

[Accessing Data with Microsoft® .NET Framework 4 Pearson Education](#)

The introduction of SQL Server 2005 began the process which has seen .NET become an integral part of the SQL Server database technology. SQL Server 2008 is the next evolutionary step in that story. Alongside the more traditional database enhancements in the new release, there is an increasing focus upon a greater and more challenging integration with .NET 3.5. This book shows how to take advantage of this tight integration and how developers and DBAs can manipulate data more easily than ever before.

[Microsoft ADO.NET Step by Step Apress](#)

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.

[Pro Entity Framework Core 2 for ASP.NET Core MVC John Wiley & Sons](#)

This comprehensive book teaches you how to build data-rich business applications with Silverlight 2 that draw on multiple sources of data. Packed with reusable examples, Data-Driven Services with Silverlight 2 covers all of the data access and web service tools you need, including data binding, the LINQ data querying component, RESTful and SOAP web service support, cross-domain web service calls, and Microsoft's new ADO.NET Data Services and the ADO.NET Entity Framework. With this book, you will: Know when and how to use LINQ to JSON, LINQ to XML, and LINQ to Objects Learn how Silverlight 2 applications bind, pass, read, save, query, and present data Discover how your application can call web services to work with SOAP, REST, RSS, AtomPub, POX and JSON Design REST, ASMX, and WCF web services that communicate with Silverlight 2 Harness RESTful web services such as Digg, Amazon, and Twitter Retrieve and save data using the new Entity Framework and WCF Work with RESTful ADO.NET Data Services and its Silverlight client library to move data between your Silverlight application and a database Data-Driven Services with Silverlight 2 offers many tips and tricks for building data-rich business applications, and covers the scenarios you're most likely to encounter. Complete examples in C# and VB can be downloaded from the book's companion website.

[Entity Framework Tutorial Pearson Education](#)

Beginning ASP.NET 4.5 Databases introduces you to the world of building data-driven Web sites using ASP.NET, ADO.NET and the Entity Framework using C#. Since ASP.NET developers need to access databases quickly and efficiently, this book teaches the best practices and methods to help developers achieve professional ASP.NET and database solutions. Beginning ASP.NET 4.5 Databases is a comprehensive introduction on how you can connect a Web site to many different data sources — not just databases — and use the data to create dynamic page content. It also shows you how to build a relational database, use SQL to communicate with it, and understand how they differ from each other. With in-depth, on-target coverage of the new data access features of .NET Framework 4.5, this book is your guide to using ASP.NET to build responsive, easy-to-update data-driven Web sites.

[Entity Framework 4 in Action Packt Pub Limited](#)

Language Integrated Query (LINQ), as well as the C# 3.0 and VB 9.0 language extensions to support it, is the most import 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 an array 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 on manipulating the Object Services API's ObjectContext. 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.

Programming Entity Framework John Wiley & Sons

Learn how to leverage the features of the new Entity Framework Core APIs and use them to build pure .NET Core applications. About This Book Learn how to effectively manage your database to make it more productive and maintainable. Write simplified queries using LINQ to acquire the desired data easily Raise the abstraction level from data to objects so teams can function independently, resulting in easily maintainable code Who This Book Is For This book is for .NET Core developers who would like to integrate EF Core in their application. Prior knowledge of .NET Core and C# is assumed. What You Will Learn Create databases and perform CRUD operations on them Understand and build relationships (related to entities, keys, and properties) Understand in-built, custom, and remote validation (both client and server side) You will learn to handle concurrency to build responsive applications You will handle transactions and multi-tenancy while also improving performance In Detail Being able to create and maintain data-oriented applications has become crucial in modern programming. This is why Microsoft came up with Entity Framework so architects can optimize storage requirements while also writing efficient and maintainable application code. This book is a comprehensive guide that will show how to utilize the power of the Entity Framework to build efficient .NET Core applications. It not only teaches all the fundamentals of Entity Framework Core but also demonstrates how to use it practically so you can implement it in your software development. The book is divided into three modules. The first module focuses on building entities and relationships. Here you will also learn about different mapping techniques, which will help you choose the one best suited to your application design. Once you have understood the fundamentals of the Entity Framework, you will move on to learn about validation and querying in the second module. It will also teach you how to execute raw SQL queries and extend the Entity Framework to leverage Query Objects using the Query Object Pattern. The final module of the book focuses on performance optimization and managing the security of your application. You will learn to implement failsafe mechanisms using concurrency tokens. The book also explores row-level security and multitenant databases in detail. By the end of the book, you will be proficient in implementing Entity Framework on your .NET Core applications. Style and approach This book is filled with various examples that will help you use Entity Framework Core 2.0 to write efficient software.

Professional C# 2012 and .NET 4.5 Apress

This book is written as a tutorial, leading you through examples to illuminate the main theory and get you working with the Entity Framework as quickly as possible. This book is for C# developers who want an easier way to create their data access layer. You will need to be comfortable with ADO.NET, but you don't need to know anything about the Entity Framework. Along the way we will create some ASP.NET applications, so being familiar with this will also help.