
Microsoft ADO.NET Entity Framework Step By Step Step By Step Developer

Mastering Entity Framework Core 2.0
Microsoft ADO.NET Entity Framework Step by Step
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Entity Framework Core in Action

Pro ASP.Net 3.5 in C# 2008: Includes Silverlight 2 and the ADO.NET Entity Framework, Third Edition

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Mastering Entity Framework Core 2.0 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 Entity Framework Step by Step CRC Press

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.

Entity Framework Tutorial Second Edition 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.

Microsoft ADO.NET 4 Step by Step Pearson Education

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 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'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 theObjectContext", 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.

Entity Framework 4 in Action John Wiley & Sons

If you are a C#, VB.NET, or C++ developer and want to get started with WCF and Entity Framework, then this book is for you. Competence in Entity Framework will be needed to follow the examples in the book, but experience in creating WCF services using Entity Framework is not necessary. Developers and architects evaluating SOA implementation technologies for their company will find this book useful.

Modern Data Access with Entity Framework Core Pearson Education

This new 7th edition of Pro C# 6.0 and the .NET 4.6 Platform has been completely revised and rewritten to reflect the latest changes to the C# language specification and new advances in the .NET Framework. You'll find new chapters covering all the important new features that make .NET 4.6 the most comprehensive release yet, including: A Refined ADO.NET Entity Framework Programming Model Numerous IDE and MVVM Enhancements for WPF Desktop Development Numerous updates to the ASP.NET Web APIs This comes on top of award winning coverage of core C# features, both old and new, that have made the previous editions of this book so popular. Readers will gain a solid foundation of object-oriented development techniques, attributes and reflection, generics and collections as well as numerous advanced topics not found in other texts (such as CIL opcodes and emitting dynamic assemblies). The mission of this book is to provide you with a comprehensive foundation in the C# programming language and the core aspects of the .NET platform plus overviews of technologies built on top of C# and .NET (ADO.NET and Entity Framework, Windows Communication Foundation (WCF), Windows Presentation Foundation (WPF), ASP.NET (WebForms, MVC, WebAPI).). Once you digest the information presented in these chapters, you'll be in a perfect position to apply this knowledge to your specific programming assignments, and you'll be well equipped to explore the .NET universe on your own terms. What You Will Learn: Be the first to understand the .NET 4.6 platform and C# 6. Discover the ins and outs of the leading .NET technology. Learn from an award-winning author who has been teaching the .NET world since version 1.0. Find complete coverage of XAML, .NET 4.6 and Visual Studio 2015 together with

discussion of the new Windows Runtime.

Data-Driven Services with Silverlight 2 Apress

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

Beginning ASP.NET 4.5 Databases John Wiley & Sons

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

.NET 4 for Enterprise Architects and Developers Simon and Schuster

Model, map, and access data effectively with Entity Framework Core 2, the latest evolution of Microsoft's object-relational mapping framework. You will access data utilizing .NET objects via the most common data access layer used in ASP.NET Core MVC 2 projects. Best-selling author Adam Freeman explains how to get the most from Entity Framework Core 2 in MVC projects. He begins by describing the different ways that Entity Framework Core 2 can model data and the different types

of databases that can be used. He then shows you how to use Entity Framework Core 2 in your own MVC projects, starting from the nuts and bolts and building up to the most advanced and sophisticated features, going in-depth to give you the knowledge you need. Chapters include common problems and how to avoid them. What You'll Learn Gain a solid architectural understanding of Entity Framework Core 2 Create databases using your MVC data model Create MVC models using an existing database Access data in an MVC application using Entity Framework Core 2 Use Entity Framework in RESTful Web Services Who This Book Is For ASP.NET Core MVC 2 developers who want to use Entity Framework Core 2 as the data access layer in their projects
[Entity Framework Tutorial](#) Pearson Education

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.

Professional C# 2012 and .NET 4.5 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.

ADO.NET in a Nutshell Pearson Professional

If you use Entity Framework in Visual Studio 2008 and .NET 3.5, this is the book you want.

Programming Entity Framework, 1st Edition offers experienced developers a thorough introduction to Microsoft's core framework for modeling and interacting with data in .NET applications. This hands-on tour provides a deep understanding of Entity Framework's architecture and APIs, and explains how to use the framework in a variety of applications built with Visual Studio 2008 and .NET 3.5. From the Entity Data Model (EDM) and Object Services to EntityClient and the Metadata Workspace, this highly acclaimed first edition covers it all. Understand the core concepts you need to make the best use of the Entity Framework (EF) in your applications Learn to query your data, using either LINQ to Entities or Entity SQL Create Windows Forms, WPF, and ASP.NET applications Build ASMX web services and WCF services Use Object Services to work directly with your entity objects Delve into model customization, relationship management, change tracking, data concurrency, and more One important note: while many of the lessons from this book will continue to be valuable as you move to .NET 4, the thoroughly revised second edition of *Programming Entity Framework* (August 2010) specifically targets Visual Studio 2010 and .NET 4 -- where there have been many advancements and additions to the framework.

[Beginning ASP.NET 4.5 Databases](#) Apress

"The most comprehensive reference for EF Core that does—or ever will—exist." - Stephen Byrne, Intel Corporation *Entity Framework Core in Action, Second Edition* teaches you to write flawless database interactions for .NET applications. Summary *Entity Framework Core in Action, Second Edition* is an in-depth guide to reading and writing databases with EF Core. Revised from the bestselling original edition, it's filled with over 100 diagrams, code snippets, and examples—including building and scaling your own bookselling web application. Learn from author Jon Smith's extensive experience working with EF Core in production, as you discover time-saving patterns and best practices for security, performance tuning, and unit testing. All of the book's code is available on GitHub. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Entity Framework radically simplifies data access in .NET applications. This easy-to-use object-relational mapper (ORM) lets you write database code in pure C#. It automatically maps classes to database tables and enables queries with standard LINQ commands. It even generates SQL, so you don't have to! About the book *Entity Framework Core in Action, Second Edition* teaches you to write flawless database interactions for .NET applications. Following relevant examples from author Jon Smith's extensive experience, you'll progress quickly from EF basics to advanced techniques. In addition to the latest EF features, this book addresses performance, security, refactoring, and unit testing. This updated edition also contains new material on NoSQL databases. What's inside Configure EF to define every table and column Update your schema as your app grows Integrating EF with existing C# application Write and test business logic for database access Applying a Domain-Driven Design to EF Core Getting the best performance out of EF Core About the reader For .NET developers familiar with relational databases. About the author Jon P. Smith is a freelance software developer and architect with a

special focus on .NET and Azure. Table of Contents PART 1 1 Introduction to Entity Framework Core 2 Querying the database 3 Changing the database content 4 Using EF Core in business logic 5 Using EF Core in ASP.NET Core web applications 6 Tips and techniques for reading and writing with EF Core PART 2 7 Configuring nonrelational properties 8 Configuring relationships 9 Handling database migrations 10 Configuring advanced features and handling concurrency conflicts 11 Going deeper into the DbContext PART 3 12 Using entity events to solve business problems 13 Domain-Driven Design and other architectural approaches 14 EF Core performance tuning 15 Master class on performance-tuning database queries 16 Cosmos DB, CQRS, and other database types 17 Unit testing EF Core applications

Beginning ASP.NET 4.5.1: in C# and VB 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 Asynch 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

Programming Microsoft LINQ in .NET Framework 4 "O'Reilly Media, Inc."

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.

Entity Framework Tutorial Packt Publishing Ltd

The ADO.NET Entity Framework is radically different from earlier versions of ADO.NET: even experienced ADO.NET programmers will have to master completely new skillsets to make the most of it. When you do, however, you will be rewarded with remarkable power and flexibility in how you use data in your applications. In just 24 step-by-step lessons of one hour or less, Sams Teach Yourself the ADO.NET Entity Framework will help you start using the ADO.NET Entity Framework to solve real-world business problems. This friendly, accessible book covers the entire framework, without ever becoming overwhelming or intimidating. You will learn how to build and query entity data models; perform advanced querying with Entity SQL and LINQ to Entities; create relationships, stored procedures, and transactions; integrate with WinForms, ASP.NET, and WCF Services; and even use native views, multiple entity sets, and IPOCO. Step-by-step instructions walk you through your most common questions, issues, and tasks... Q and As, Quizzes, and Exercises help you test your knowledge... "Did You Know?" tips offer insider advice and shortcuts... and "Watch Out!" alerts help you avoid problems. ADO.NET Entity Framework offers unprecedented power in accessing data, but requires radically new skills: this book is the fastest, easiest way to master those skills Covers everything from building Entity Data Models to advanced techniques such as native views and IPOCO A complete tutorial package: step-by-step instructions, QandAs, quizzes, exercises, tips, shortcuts, and more

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.

C# 6.0 and the .NET 4.6 Framework Apress

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.

Microsoft ADO.NET John Wiley & Sons

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.

Entity Framework 4.0 Recipes Apress

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

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