

# ADO NET ENTITY FRAMEWORK

MARCO DE SANCTIS,STEFANO MOSTARDA,DANIELE BOCHICCHIO


📖 **MICROSOFT ADO.NET ENTITY FRAMEWORK STEP BY STEP** JOHN PAUL MUELLER, 2013-08-15 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** JOYDIP KANJILAL, 2008


📖 **ENTITY FRAMEWORK TUTORIAL** JOYDIP KANJILAL, 2015-08-24 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 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.


📖 **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 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 LINQDATA SOURCE, 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 LINQDATA SOURCE 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 LINQDATA VIEWS 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 CONSTRUCTS 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 THEIR 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 THE OBJECTCONTEXT, METADATASPACE, 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 METADATASPACE 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 (CUD) OPERATIONS ON ENTITYSETS AND MANAGE OPTIMISTIC CONCURRENCY CONFLICTS. IT STARTS WITH A DETAILED DESCRIPTION OF THE OBJECTCONTEXT.OBJECTSTATEMANAGER AND ITS CHILD OBJECTS, WHICH PERFORM OBJECT IDENTIFICATION AND CHANGE TRACKING OPERATIONS WITH ENTITYKEYS. THIS ALSO COVERS VALIDATION OF CREATE AND UPDATE OPERATIONS, OPTIMIZING THE DATACONTEXT LIFETIME, PERFORMING UPDATES WITH STORED PROCEDURES, AND WORKING WITH COMPLEX TYPES. BINDING DATA CONTROLS TO THE OBJECTCONTEXT, DESCRIBES CREATING DESIGN-TIME DATA SOURCES FROM OBJECTCONTEXT.ENTITYSET INSTANCES, DRAG-AND-DROP ADDITION OF BINDINGNAVIGATOR, BINDINGSOURCE, BOUND TEXTBOX, AND DATAGRIDVIEW CONTROLS TO WINDOWS FORMS. YOU ALSO LEARN HOW TO UPDATE ENTITYREFERENCE AND ENTITYSET VALUES WITH COMBOBOX COLUMNS IN DATAGRIDVIEW CONTROLS. (YOU CAN'T UPDATE ENTITYSET VALUES DIRECTLY; YOU MUST DELETE AND ADD A NEW MEMBER HAVING THE REQUIRED VALUE). THIS CONCLUDES WITH A DEMONSTRATION OF THE USE OF THE ASP.NET ENTITYDATASOURCE CONTROL BOUND TO GRIDVIEW AND DROPDOWNLIST CONTROLS. USING THE ENTITY FRAMEWORK AS A DATA SOURCE, CONCENTRATES ON USING EF AS A DATA SOURCE FOR THE ADO.NET DATA SERVICES FRAMEWORK (THE FORMER CODENAME PROJECT ASTORIA REMAINS IN COMMON USE), WHICH IS THE PREFERRED METHOD FOR DEPLOYING EF V1 AS A WEB SERVICE PROVIDER. (EF V2 IS EXPECTED TO BE ABLE TO SUPPORT N-TIER DATA ACCESS WITH WINDOWS COMMUNICATION FOUNDATION [WCF] DIRECTLY). A WINDOWS FORM EXAMPLE USES ASTORIA'S .NET 3.5 CLIENT LIBRARY TO DISPLAY AND UPDATE ENTITY INSTANCES WITH THE ATOM PUBLICATION (ATOMPUB OR APP) WIRE FORMAT. THE WEB FORM PROJECT USES THE AJAX CLIENT LIBRARY AND JAVASCRIPT OBJECT NOTATION (JSON) AS THE WIRE FORMAT.


 **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


 **ADO.NET ENTITY FRAMEWORK** PAUL KIMMEL, 2010-06-30 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


 **PRO ENTITY FRAMEWORK 4.0** SCOTT KLEIN, 2010-04-29 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.

 **PROGRAMMING ENTITY FRAMEWORK** JULIA LERMAN, ROWAN MILLER, 2011-11-25 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 TUTORIAL SECOND EDITION** JOYDIP KANJILAL, 2015-08-24 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 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 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

 **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.

 **ENTITY FRAMEWORK 4 IN ACTION** MARCO DE SANCTIS, STEFANO MOSTARDA, DANIELE BOCHICCHIO, 2011-04-30 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

📖 **PROGRAMMING ENTITY FRAMEWORK** JULIA LERMAN,2009-01-29 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.

📖 **ENTITY FRAMEWORK CORE IN ACTION, SECOND EDITION** Jon P. Smith,2021-07-13 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

📖 **Pro ADO.NET Data Services** John Shaw,Gary Evans,2009-01-29 Pro ADO.NET Data Services: Working with RESTful Data is aimed at developers interested in taking advantage of the REST-style data services that ADO.NET Data Services (formerly code-named Astoria) provides. The book shows how to incorporate ADO.NET Data Services into a wide range of common environments, including BizTalk, Ajax and Silverlight client applications. The material is intended for professional developers who are comfortable with the .NET 3.5 framework but are coming to ADO.NET Data Services for the first time and want to understand how to integrate it into their own applications and enterprise solutions. The book is packed full with extensive real-world solutions and exercises, ensuring you walk away with a deep understanding of how to use ADO.NET Data Services to your best advantage.

📖 **MODERN DATA ACCESS WITH ENTITY FRAMEWORK CORE** Holger Schwichtenberg,2018-06-27 C# developers, here's your opportunity to learn the ins-and-outs of Entity Framework Core, Microsoft's recently redesigned object-relational mapper. Benefit from hands-on learning that will teach you how to tackle frustrating database challenges, such as workarounds to missing features in Entity Framework Core, and learn how to optimize the performance of your applications, head-on! Modern Data Access with Entity Framework Core teaches best practices, guidance, and shortcuts that will significantly reduce the amount of resources you internally dedicate to programming data access code. The proven methods and tools taught in this book, such as how to get better performance, and the ability to select the platform of your choice, will save you valuable time and allow you to create seamless data access. Dive into succinct guidance that covers the gamut - from installing Entity Framework Core, reverse engineering, forward engineering (including schema migrations), and data reading and modification with LINQ, Dynamic LINQ, SQL, stored procedures, and table valued functions- to using third-party products such as LINQPad, Entity Developer, Entity Framework Profiler, EFPlus, and AutoMapper. You'll also appreciate excerpts of conceptual software architecture discussion around Entity Framework Core that might otherwise take years to learn. What you'll learn Understand the core concepts of Entity Framework Core, as well process models for existing databases (reverse engineering) and the generation of database schemas from object models (forward engineering) Study real-world case studies for hands-on EF Core instruction Get up to speed with valuable database access scenarios and code samples Discover workarounds to augment missing features in Entity Framework Core Use Entity Framework Core to write mobile apps Bonus online appendix covers Entity Framework Core 2.1 release updates Who this book is for Software developers who have basic experience with .NET and C#, as well as some understanding of relational databases. Knowledge of predecessor technologies such as ADO.NET and the classic ADO.NET Entity Framework is not necessary to learn from this book.

📖 **ENTITY FRAMEWORK 4.0 RECIPES** Larry Tenny,Zeeshan Hirani,2010-07-30 Entity Framework 4.0 Recipes provides an exhaustive collection of ready-to-use code solutions for Entity Framework, Microsoft's vision for the future of data access. Entity Framework is a model-centric data access platform with an ocean of new concepts and patterns for developers to learn. 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 Provides guideposts for learning core concepts Maps out key landmarks for experimenting with your own solutions

📖 **ENTITY FRAMEWORK CORE IN ACTION, SECOND EDITION** Jon Smith,2021-06-08 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.

📖 **BUILDING DATA-CENTRIC .NET APPLICATIONS WITH PROGRAMMING ENTITY FRAMEWORK** Moubachir Madani Fadoul,2020-06-03 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. 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(R), 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, 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 data readers-Disconnected data-datatables-dataviews and data binding-XML and the DataSet-SQL server connectivity -Web form examples-MVC examples etc . This tutorial guide has been prepared for beginners and professionals to help them in understanding the basic concepts related ADO.NET framework. The book tutorial gives you enough understanding on ADO.NET framework from where you can take yourself to a higher level of expertise.

📖 **PROGRAMMING ENTITY FRAMEWORK** Julia Lerman,Rowan Miller,2012 In addition to Code First, EF 4.1 introduces simpler EF coding patterns with the DbContext, DbSet, ChangeTracker and Validation APIs. This mini-book will take the reader on a tour of these features and how to take advantage of them.

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ADO NET ENTITY FRAMEWORK INTRODUCTION

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