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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

Pro JPA 2, Second Edition introduces, explains, and demonstrates how to use the new Java Persistence API (JPA) 2.1 from the perspective of one of the specification creators. A one-of-a-kind resource, it provides both theoretical and extremely practical coverage of JPA usage for both beginning and advanced developers. Authors Mike Keith and Merrick Schincariol take a hands–on approach, based on their wealth of experience and expertise, by giving examples to illustrate each concept of the API and showing how it is used in practice. The examples use a common model from an overriding sample application, giving readers a context from which to start and helping them to understand the examples within an already familiar domain. After completing the book, you will have a full understanding of JPA and be able to successfully code applications using its annotations and APIs. The book also serves as an excellent reference guide during initial and later JPA application experiences. Hands-on examples for all aspects of the JPA specification Expert insight about various aspects of the API and when they are useful Portability hints to provide increased awareness of the potential for non–portable JPA code What you'll learn How to get started with enterprise applications using JPA 2.1 Simple

and advanced object–relational mapping techiques How to use the complete Entity Manager API How to create queries using the query language (JP QL) and the Criteria API Locking, concurrency, and other advanced concepts How to use XML mapping files and descriptors How to package and deploy your Java Persistence applications How to test your Java Persistence applications Who this book is for The book generally targets enterprise and persistence developers who fall in one of three categories: Those who are new to persistence; we will offer an introduction to persistence and to the basic concepts so these readers can have solid base from which to become proficient at JPA. Those who know and/or use existing ORM persistence products such as Hibernate or TopLink/EclipseLink. Those who have already used JPA and want to learn about newer features introduced by JPA 2.1, or have a good reference book to consult when they develop JPA applications. In general, we assume that the reader is knowledgeable with Java, SQL, and JDBC, and has a little knowledge of Java EE. Table of Contents Introduction Getting Started Enterprise Applications Object Relational Mapping Collection Mapping Entity Manager Using Queries Java Persistence Query Language Criteria Advanced Object Relational Mapping Advanced Queries Advanced Topics XML Mapping Files Packaging and Deployment Testing

In recent years, several knowledge bases have been built to enable large-scale knowledge sharing, but also an entity-centric Web search, mixing both structured data and text querying. These knowledge bases offer machine-readable descriptions of real-world entities, e.g., persons, places, published on the Web as Linked Data. However, due to the different information extraction tools and curation policies employed by knowledge bases, multiple, complementary and sometimes conflicting descriptions of the same real-world

entities may be provided. Entity resolution aims to identify different descriptions that refer to the same entity appearing either within or across knowledge bases. The objective of this book is to present the new entity resolution challenges stemming from the openness of the Web of data in describing entities by an unbounded number of knowledge bases, the semantic and structural diversity of the descriptions provided across domains even for the same real-world entities, as well as the autonomy of knowledge bases in terms of adopted processes for creating and curating entity descriptions. The scale, diversity, and graph structuring of entity descriptions in the Web of data essentially challenge how two descriptions can be effectively compared for similarity, but also how resolution algorithms can efficiently avoid examining pairwise all descriptions. The book covers a wide spectrum of entity resolution issues at the Web scale, including basic concepts and data structures, main resolution tasks and workflows, as well as state-of-the-art algorithmic techniques and experimental trade-offs.

This book provides an overview of crowdsourced data management. Covering all aspects including the workflow, algorithms and research potential, it particularly focuses on the latest techniques and recent advances. The authors identify three key aspects in determining the performance of crowdsourced data management: quality control, cost control and latency control. By surveying and synthesizing a wide spectrum of studies on crowdsourced data management, the book outlines important factors that need to be considered to improve crowdsourced data management. It also introduces a practical crowdsourced-database-system design and presents a number of crowdsourced operators. Self-contained and covering theory, algorithms, techniques and applications, it is a valuable reference resource for researchers and students new to crowdsourced data management with a basic

knowledge of data structures and databases.
This two-volume set LNCS 11446 and LNCS 11447
constitutes the refereed proceedings of the 24th International
Conference on Database Systems for Advanced Applications,
DASFAA 2019, held in Chiang Mai, Thailand, in April 2019.
The 92 full papers and 64 short papers were carefully
selected from a total of 501 submissions. In addition, 13
demo papers and 6 tutorial papers are included. The full
papers are organized in the following topics: big data;
clustering and classification; crowdsourcing; data integration;
embedding; graphs; knowledge graph; machine learning;
privacy and graph; recommendation; social network; spatial;
and spatio-temporal. The short papers, demo papers, and
tutorial papers can be found in the volume LNCS 11448,
which also includes the workshops of DASFAA 2019.
This book constitutes the refereed proceedings of the 15th
International Conference on Web-Age Information
Management, WAIM 2014, held in Macau, China, in June
2014. The 48 revised full papers presented together with 35
short papers were carefully reviewed and selected from
numerous submissions. The papers are organized in topical
sections on information retrieval; recommender systems;
query processing and optimization; data mining; data and
information quality; information extraction; mobile and
pervasive computing; stream, time-series; security and
privacy; semantic web; cloud computing; new hardware;
crowdsourcing; social computing.
Programming Entity FrameworkBuilding Data Centric Apps
with the ADO.NET Entity Framework"O'Reilly Media, Inc."
This book constitutes the refereed proceedings of the 10th
IEEE International Conference Beyond Databases,
Architectures, and Structures, BDAS 2014, held in Ustron,
Poland, in May 2014. This book consists of 56 carefully
revised selected papers that are assigned to 11 thematic

groups: query languages, transactions and query optimization; data warehousing and big data; ontologies and semantic web; computational intelligence and data mining; collective intelligence, scheduling, and parallel processing; bioinformatics and biological data analysis; image analysis and multimedia mining; security of database systems; spatial data analysis; applications of database systems; Web and XML in database systems.

Completely updated for C# 6.0, the new edition of this bestseller offers more than 150 code recipes to common and not-so-common problems that C# programmers face every day. More than a third of the recipes have been rewritten to take advantage of new C# 6.0 features. If you prefer solutions to general C# language instruction and quick answers to theory, this is your book.C# 6.0 Cookbook offers new recipes for asynchronous methods, dynamic objects, enhanced error handling, the Rosyln compiler, and more. Here are some of topics covered: Classes and generics Collections, enumerators, and iterators Data types LINQ and Lambda expressions Exception handling Reflection and dynamic programming Regular expressions Filesystem interactions Networking and the Web XML usage Threading, Synchronization, and Concurrency Each recipe in the book includes tested code that you can download from oreilly.com and reuse in your own applications, and each one includes a detailed discussion of how and why the underlying technology works. You don't have to be

an experienced C# or .NET developer to use C# 6.0 Cookbook. You just have to be someone who wants to solve a problem now, without having to learn all the related theory first.

The professional's guide to C# 7, with expert guidance on the newest features Professional C# 7 and .NET Core 2.0 provides experienced programmers with the information they need to work effectively with the world's leading programming language. The latest C# update added many new features that help you get more done in less time, and this book is your ideal guide for getting up to speed quickly. C# 7 focuses on data consumption, code simplification, and performance, with new support for local functions, tuple types, record types, pattern matching, non-nullable reference types, immutable types, and better support for variables. Improvements to Visual Studio will bring significant changes to the way C# developers interact with the space, bringing .NET to non-Microsoft platforms and incorporating tools from other platforms like Docker, Gulp, and NPM. Guided by a leading .NET expert and steeped in real-world practicality, this guide is designed to get you up to date and back to work. With Microsoft speeding up its release cadence while offering more significant improvement with each update, it has never been more important to get a handle on new tools and features quickly. This book is designed to do just that, and

more—everything you need to know about C# is right here, in the single-volume resource on every developer's shelf. Tour the many new and enhanced features packed into C# 7 and .NET Core 2.0 Learn how the latest Visual Studio update makes developers' jobs easier Streamline your workflow with a new focus on code simplification and performance enhancement Delve into improvements made for localization, networking, diagnostics, deployments, and more Whether you're entirely new to C# or just transitioning to C# 7, having a solid grasp of the latest features allows you to exploit the language's full functionality to create robust, high -quality apps. Professional C# 7 and .NET Core 2.0 is the one-stop guide to everything you need to know.

When you're programming C# 4.0 and need a little help, this tightly focused and practical book tells you exactly what you need to know -- without long introductions or bloated examples. It's ideal as a succinct quick reference or as a guide to get you rapidly up to speed if you already know Java, C++, or an earlier version of C#. Written by the authors of the acclaimed C# 4.0 in a Nutshell (O'Reilly), this book covers the entire C# 4.0 language -- without skimping on the details -- including: Features new to C# 4.0, such as dynamic binding, optional and named parameters, and type parameter variance All of C#'s fundamentals Advanced topics, including

operator overloading, custom conversions, type constraints, covariance and contravariance, lambda expressions and closures, iterators, nullable types, and operator lifting LINQ, starting with sequences, lazy execution, and standard query operators; finishing with a complete reference to query expressions Unsafe code and pointers, custom attributes, preprocessor directives, and XML documentation

AccordingtoFrancoisBancillonandWonKim[SIGMOD RECORD,Vol.19,No. 4, December 1990], object-oriented databases started in around 1983. Twen-seven years later this publication contains the proceedings of the Third Inter- tional Conference on Object-Oriented Databases (ICOODB 2010). Two questions arise from this – why only the third, and what is of interest in the ?eld of object-oriented databases in 2010? The ?rst question is easy – in the 1980s and 1990s there were a number of conferences supporting the c- munity – the International Workshops on Persistent Object Systems started by Malcolm Atkinson and Ron Morrison, the EDBT series, and the International Workshop on Database Programming Languages. These database-oriented c- ferences complimented other OO conferences including OOPSLA and ECOOP, but towards the end of the last century they dwindled in popularity and ev- tually died out. In 2008 the First International Conference on Object

Databases was held in Berlin. In 2009 the second ICOODB conference was held at the ETH in Zurich as a scienti?c peer-reviewed conference. What is particular about ICOODB is that the conference series was est- lished to address the needs of both industry and researcherswho had an interest in object databases, in innovative ways to bring objects and databases together and in alternatives/extensions to relational databases. The ?rst conference set the mould for those to follow – a combination of theory and practice with one day focusing on the theory of object databases and the second focusing on their practical use and implementation.

When you need answers for programming with C# 5.0, this practical and tightly focused book tells you exactly what you need to know—without long introductions or bloated samples. Easy to browse, it's ideal as quick reference or as a guide to get you rapidly up to speed if you already know Java, C++, or an earlier version of C#. Written by the authors of C# 5.0 in a Nutshell, this book covers the entire C# 5.0 language, including: All of C#'s fundamentals Advanced topics such as operator overloading, type constraints, covariance & contravariance, iterators, nullable types, operator lifting, lambda expressions & closures LINQ, starting with sequences, lazy execution and standard query operators, and finishing with a complete reference to query

expressions Dynamic binding and C# 5.0's new asynchronous functions Unsafe code & pointers, custom attributes, preprocessor directives, and XML documentation

When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate

and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.

Learn the fundamentals, practical applications, and latest features of C# 8.0 and .NET Core 3.0 from expert teacher Mark J. Price. Key Features Build modern, cross-platform applications with .NET Core 3.0 Get up to speed with C#, and up to date with all the latest features of C# 8.0 Start creating professional web applications with ASP.NET Core 3.0 Book Description In C# 8.0 and .NET Core 3.0 – Modern Cross-Platform Development, Fourth Edition, expert teacher Mark J. Price gives you everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with new chapters on Content Management Systems (CMS) and machine learning with ML.NET. The book covers all the topics you need. Part 1 teaches the

fundamentals of C#, including object-oriented programming, and new C# 8.0 features such as nullable reference types, simplified switch pattern matching, and default interface methods. Part 2 covers the .NET Standard APIs, such as managing and querying data, monitoring and improving performance, working with the filesystem, async streams, serialization, and encryption. Part 3 provides examples of cross-platform applications you can build and deploy, such as web apps using ASP.NET Core or mobile apps using Xamarin.Forms. The book introduces three technologies for building Windows desktop applications including Windows Forms, Windows Presentation Foundation (WPF), and Universal Windows Platform (UWP) apps, as well as web applications, web services, and mobile apps. What you will learn Build cross-platform applications for Windows, macOS, Linux, iOS, and Android Explore application development with C# 8.0 and .NET Core 3.0 Explore ASP.NET Core 3.0 and create professional web applications Learn object-oriented programming and C# multitasking Query and manipulate data using LINQ Use Entity Framework Core and work with relational databases Discover Windows app development using the Universal Windows Platform and XAML Build mobile applications for iOS and Android using Xamarin.Forms Who this book is for Readers with

some prior programming experience or with a science, technology, engineering, or mathematics (STEM) background, who want to gain a solid foundation with C# 8.0 and .NET Core 3.0. 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

This two-volume set, LNCS 11317 and 12318, constitutes the thoroughly refereed proceedings of the 4th International Joint Conference, APWeb-WAIM 2020, held in Tianjin, China, in September 2020. Due to the COVID-19 pandemic the conference was organizedas a fully online conference. The 42 full papers presented together with 17 short papers, and 6 demonstration papers were carefully reviewed and selected from 180 submissions. The papers are organized around the following topics: Big Data Analytics; Graph Data and Social Networks; Knowledge Graph; Recommender Systems; Information Extraction and Retrieval; Machine Learning; Blockchain; Data Mining; Text Analysis and Mining; Spatial, Temporal and Multimedia Databases; Database Systems; and Demo.

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.

Shows how to perform set operations with the DbSet class, control change tracking, fix concurrency conflicts, and confirm changes made to data.

A comprehensive guide for beginners to learn the key concepts, real-world applications, and latest features of C# 9 and .NET 5 with hands-on exercises using VS Code Key Features Explore the newest additions to C# 9, the .NET 5 class library, Entity Framework Core and Blazor Strengthen your command of ASP.NET Core 5.0 and create professional websites and services Build cross-platform apps for Windows, macOS, Linux, iOS, and Android Book Description In C# 9 and .NET 5 – Modern Cross-Platform Development, Fifth Edition, expert teacher Mark J. Price gives you everything you need to start programming C# applications. This latest edition uses the popular Visual Studio Code editor to work across all major operating systems. It is fully updated and expanded with a new chapter on the Microsoft Blazor framework. The book's first part teaches the fundamentals of C#, including object-oriented programming and new C# 9 features such as top-level programs, target-typed new object instantiation, and immutable types using the record keyword. Part 2 covers the .NET APIs, for performing tasks like managing and

querying data, monitoring and improving performance, and working with the file system, async streams, serialization, and encryption. Part 3 provides examples of cross-platform apps you can build and deploy, such as websites and services using ASP.NET Core or mobile apps using Xamarin.Forms. By the end of the book, you will have acquired the understanding and skills you need to use C# 9 and .NET 5 to create websites, services, and mobile apps. What you will learn Build your own types with object-oriented programming Query and manipulate data using LINQ Build websites and services using ASP.NET Core 5 Create intelligent apps using machine learning Use Entity Framework Core and work with relational databases Discover Windows app development using the Universal Windows Platform and XAML Build rich web experiences using the Blazor framework Build mobile applications for iOS and Android using Xamarin.Forms Who this book is for This book is best for C# and .NET beginners, or programmers who have worked with C# in the past but feel left behind by the changes in the past few years. This book doesn't expect you to have any C# or .NET experience; however, you should have a general understanding of programming. Students and professionals with a science, technology, engineering, or mathematics (STEM) background can certainly benefit from this book. This book constitutes the proceedings of the 25th European Conference on Advances in Databases and Information Systems, ADBIS 2021, held in Tartu, Estonia, in August 2021. The 18 full papers presented together with 3 keynotes were carefully reviewed and

selected from 70 submissions. The selected papers span a wide spectrum of topics in databases and related technologies, tackling challenging problems and presenting inventive and efficient solutions. They are organized in 5 sessions: patterns and events, social media and text mining, indexes, queries and constraints, high-dimensional data and data streams, and data integration.

Complete coverage of all key .NET 4 and Visual Studio 2010 languages and technologies .NET 4 is Microsoft's latest version of their core programming platform, and Visual Studio 2010 is the toolset that helps write .NET 4 applications. This comprehensive resource offers one-stop shopping for all you need to know to get productive with .NET 4. Experienced author and .NET guru Mitchel Sellers reviews all the important new features of .NET 4, including .NET charting and ASP.NET charting, ASP.NET dynamic data and jQuery, and the addition of F# as a supported package language. The expansive coverage is divided into six distinctive parts for easy navigation, and addresses: Visual Studio 2010, .NET 4, ASP.NET, the C# language, the VB.NET language, and the new F# language. A practical approach and complete examples round out this much-needed reference. Focuses on the new and important features of the latest version Microsoft's core programming platform-.NET 4-as well as Visual Studio 2010, which allows you to write .NET 4 applications Provides comprehensive coverage divided into six parts: Visual Studio 2010, .NET 4, ASP.NET, the C# language, the VB.NET language, and the new F# language Discusses Visual Studio

snippets and templates, .NET charting components, the .NET framework and WPF, LINQ, and the Entity framework Explores various aspects of Visual Basic 2010, such as multi-line lambdas, auto-implemented properties, nullable optional parameters, and more This investigative look at .NET 4 and Visual Studio 2010 will help you identify and isolate key elements that can benefit you immediately.

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

LINQ's full power. In addition to covering core concepts and hands-on LINQ development in C# with LINQ to Objects, LINQ to XML, LINQ to SQL, and LINQ to Entities, they also present advanced topics and new LINQ implementations developed by the LINQ community. This book • Explains the entire lifecycle of a LINQ project: design, development, debugging, and much more • Teaches LINQ from both a practical and theoretical perspective • Leverages C# language features that simplify LINQ development • Offers developers powerful LINQ query expressions to perform virtually any data-related task • Teaches how to query SQL databases for objects and how to modify those objects • Demonstrates effective use stored procedures and database functions with LINQ • Shows how to add business logic that reflects the specific requirements of your organization • Teaches developers to create, query, and transform XML data with LINQ • Shows how to transform object, relational, and XML data between each other • Offers best patterns and practices for writing robust, easy-to-maintain LINQ code
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 This book constitutes the refereed post-conference proceedings of the 4th International Symposium on Algorithmic Aspects of Cloud Computing, ALGOCLOUD 2018, held in Helsinki, Finland, in August 2018. The 11 revised full papers were carefully reviewed and selected from 29 submissions. The aim of the symposium is to present research activities and results on topics related to algorithmic, design, and development aspects of modern cloud-based systems.
This, the 38th issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems, contains extended and revised versions of six papers selected from the 68 contributions presented at the 27th International Conference on Database and Expert Systems Applications, DEXA 2016, held in Porto, Portugal, in September 2016. Topics covered include query personalization in databases, data anonymization, similarity search, computational methods for entity resolution, array-based computations in big data analysis, and pattern mining.

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

The ASP.NET MVC 5 Framework is the latest evolution of Microsoft's ASP.NET web platform. It provides a high-productivity programming model that promotes cleaner code architecture, test-driven development, and powerful extensibility, combined with all the benefits of ASP.NET. ASP.NET MVC 5 contains a number of advances over previous versions, including the ability to define routes using C# attributes and the ability to override filters. The user experience of building MVC applications has also been substantially improved. The new, more tightly integrated, Visual Studio 2013 IDE has been created specifically with MVC application development in mind and provides a full suite of tools to improve development times and assist in reporting, debugging and deploying your code. The popular Bootstrap JavaScript library has also now been included natively within MVC 5 providing you, the developer, with a wider range of multi-platform CSS and HTML5 options than ever before without the penalty of having to load-in third party libraries.

When you need answers for programming with C# 6.0, this practical and tightly focused book tells you exactly what you need to know—without long introductions or bloated samples. Easy to browse, it's ideal as a quick reference or as a guide to get you rapidly up to speed if you already know Java, C++, or an earlier version of C#. Written by the author of C# 6.0 in a Nutshell, this book covers the entire C# 6.0 language, including: All of C#'s fundamentals Advanced topics such as operator overloading, type constraints, covariance and contravariance, iterators, nullable types, operator lifting, lambda expressions, and closures LINQ, starting with sequences, lazy execution and standard query operators, and finishing with a complete reference to query expressions Dynamic binding and asynchronous functions Unsafe code & pointers, custom attributes, preprocessor directives, and XML documentation

On behalf of the Organizing Committee, we would like to welcome you to the proceedings of the 10th International Conference on Database Systems for Advanced Applications (DASFAA 2005).

The two volume set LNCS 12506 and 12507 constitutes the proceedings of the 19th International Semantic Web Conference, ISWC 2020, which was planned to take place in Athens, Greece, during November 2-6, 2020. The conference changed to a virtual format due to the COVID-19 pandemic. The papers included in this volume deal with the latest advances in fundamental research, innovative technology, and applications of the Semantic Web, linked data, knowledge graphs, and knowledge processing on the Web. They were carefully reviewed and selected for inclusion in the proceedings as follows: Part I: Features 38 papers from the research track which were accepted from 170 submissions; Part II: Includes 22 papers from the resources track which were accepted from 71 submissions; and 21 papers in the in-

use track, which had a total of 46 submissions.
This guide has the detail needed to grasp Microsoft's new querying technology, and concise explanations to help users learn it quickly. For those already applying LINQ, the book serves as an on-the-job reference.
This book constitutes the thoroughly refereed post-conference proceedings of the 2nd International Conference on Object Databases, ICOODB 2009, held in Zurich, Switzerland, in July 2009. The 6 revised full papers presented together with 3 invited papers were carefully reviewed and selected from the presentations at the research track during two rounds of reviewing and improvement. These papers address a wide range of issues related to object databases, including topics such as applications, methodologies, design tools, frameworks and standards as well as core object database technologies.
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

Summary Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. Following the crystal-clear explanations, real-world examples, and around 100 diagrams, you'll discover time-saving patterns and best practices for security, performance tuning, and unit testing. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology There's a mismatch in the way OO programs and relational databases represent data. Entity Framework is an object-relational mapper (ORM) that bridges this gap, making it radically easier to query and write to databases from a .NET application. EF creates a data model that matches the structure of your OO code so you can query and write to your database using standard LINQ commands. It will even automatically generate the model from your database schema. About the Book Using crystal-clear explanations, real-world examples, and around 100 diagrams, Entity Framework Core in Action teaches you how to access and update relational data from .NET applications. You'l start with a clear breakdown of Entity Framework, long with the mental model behind ORM. Then you'll discover time-saving patterns and best practices for security, performance tuning, and even unit testing. As you go, you'll address common data access challenges and learn how to handle them with Entity Framework. What's Inside Querying a relational database with LINQ Using

EF Core in business logic Integrating EF with existing C# applications Applying domain-driven design to EF Core Getting the best performance out of EF Core Covers EF Core 2.0 and 2.1 About the Reader For .NET developers with some awareness of how relational databases work. About the Author Jon P Smith is a full-stack developer with special focus on .NET Core and Azure. Table of Contents Part 1 - Getting started Introduction to Entity FrameworkCore Querying the database Changing the database content Using EF Core in business logic Using EF Core in ASP.NET Core web applications Part 2 - Entity Framework in depth Configuring nonrelational properties Configuring relationships Configuring advanced features and handling concurrency conflicts Going deeper into the DbContext Part 3 - Using Entity Framework Core in real-world applications Useful software patterns for EF Core applications Handling database migrations EF Core performance tuning A worked example of performance tuning Different database types and EF Core services Unit testing EF Core applications Appendix A - A brief introduction to LINQ Appendix B - Early information on EF Core version 2.1

Prepare for Microsoft Certification Exam 70-483: Programming in C#. The "What, Why, and How" of each concept is presented along with quick summaries, code challenges, and exam questions to review and practice key concepts. You will learn how to use: Lambda expressions to write LINQ query expressions Asynchronous programming with the Async and Await keywords to maximize performance of slow applications

Regular expressions to validate user input Reflection to create and handle types at runtime and much more The source code in the book will be available in the form of iCanCSharp notebooks and scripts that allow you to try out examples and extend them in interesting ways. What You Will Learn Understand the necessary knowledge and skill set to prepare for Microsoft Exam 70-483 Study the code challenges and practice questions on C# that are relevant to the exam Master the C# programming language Who This Book Is For Experienced C# and .NET programmers and developers who are ready to take and pass the exam in order to get certified Effective techniques and experienced insights to maximize your C# 6 and 7 programming skills Key Features Written by C# legend and top StackOverflow contributor Jon Skeet Unlock the new features of C# 6 and 7 Insights on the future of the C# language Master asynchronous functions, interpolated strings, tuples, and more Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. ”An excellent overview of C# with helpful and realistic examples that make learning the newest features of C# easy.” —Meredith Godar About The Book C# is the foundation of .NET development. New features added in C# 6 and 7 make it easier to take on big data applications, cloud-centric web development, and cross-platform software using .NET Core. Packed with deep insight from C# guru Jon Skeet, this book takes you deep into concepts and features other C# books ignore. C# in Depth, Fourth Edition is an authoritative and engaging guide that reveals the full potential of the

language, including the new features of C# 6 and 7. It combines deep dives into the C# language with practical techniques for enterprise development, web applications, and systems programming. As you absorb the wisdom and techniques in this book, you'll write better code, and become an exceptional troubleshooter and problem solver. What You Will Learn Comprehensive guidance on the new features of C# 6 and 7 Important legacies and greatest hits of C# 2–5 Expression-bodied members Extended pass-by-reference functionality Writing asynchronous C# code String interpolation Composition with tuples Decomposition and pattern matching This Book Is Written For For intermediate C# developers. About The Author Jon Skeet is a senior software engineer at Google. He studied mathematics and computer science at Cambridge, is a recognized authority in Java and C#, and maintains the position of top contributor to Stack Overflow. Table of Contents 1. Survival of the sharpest 2. C# 2 3. C# 3: LINQ and everything that comes with it 4. C# 4: Improving interoperability 5. Writing asynchronous code 6. Async implementation 7. C# 5 bonus features 8. Super-sleek properties and expression-bodied members 9. Stringy features 10. A smörgåsbord of features for concise code 11. Composition using tuples 12. Deconstruction and pattern matching 13. Improving efficiency with more pass by reference 14. Concise code in C# 7 15. C# 8 and beyond PART 1 C# IN CONTEXT PART 2 C# 2–5 PART 3 C# 6 PART 4 C# 7 AND BEYOND

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 resolution is an essential tool in processing and analyzing data in order to draw precise conclusions from the information being presented. Further research in entity resolution is necessary to help promote information quality and improved data reporting in multidisciplinary fields requiring accurate data representation. Innovative Techniques and Applications of Entity Resolution draws upon interdisciplinary research on tools, techniques, and applications of entity resolution. This research work provides a detailed analysis of entity resolution applied to various types of data as well as appropriate techniques and applications and is appropriately designed for students, researchers, information professionals, and system developers.

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