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Java Persistence with Hibernate Simon and Schuster Summary *Java Persistence with Hibernate, Second Edition* explores Hibernate by developing an application that ties together hundreds of individual examples. In this revised edition, authors Christian Bauer, Gavin King, and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2.1 standard (JSR 338). All examples have been updated for the latest Hibernate and Java EE specification versions. About the Technology Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Persistence—the ability of data to outlive an instance of a program—is central to modern applications. Hibernate, the most popular Java persistence tool, offers automatic and transparent object/relational mapping, making it a snap to work with SQL databases in Java applications. About the Book *Java Persistence with Hibernate, Second Edition* explores Hibernate by developing an application that ties together hundreds of individual examples. You'll immediately dig into the rich programming model of Hibernate, working through mappings, queries, fetching strategies, transactions, conversations, caching, and more. Along the way you'll find a well-illustrated discussion of best practices in database design and optimization techniques. In this revised edition, authors Christian Bauer, Gavin King, and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2.1 standard (JSR 338). All examples have been updated for the latest Hibernate and Java EE specification versions. What's Inside Object/relational mapping concepts Efficient database application design Comprehensive Hibernate and Java Persistence reference Integration of Java Persistence with EJB, CDI, JSF, and JAX-RS * Unmatched breadth and depth About the Reader The book assumes a working knowledge of Java. About the Authors Christian Bauer is a member of the Hibernate developer team and a trainer and consultant. Gavin King is the founder of the Hibernate project and a member of the Java Persistence expert group (JSR 220). Gary Gregory is a principal software engineer working on application servers and legacy integration. Table of Contents PART 1 GETTING STARTED WITH ORM Understanding object/relational persistence Starting a project Domain models and metadata PART 2 MAPPING STRATEGIES Mapping persistent classes Mapping value types Mapping inheritance Mapping collections and entity associations Advanced entity association mappings Complex and legacy schemas PART 3 TRANSACTIONAL DATA PROCESSING Managing data Transactions and concurrency Fetch plans, strategies, and profiles Filtering data PART 4 WRITING QUERIES Creating and executing queries The query languages Advanced query options Customizing SQL **Java Persistence with Hibernate** Manning Publications Summary *Java Persistence with Hibernate, Second Edition* explores Hibernate by developing an application that ties together hundreds of individual examples. In this revised edition, authors Christian Bauer, Gavin King, and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2.1 standard (JSR 338). All examples have been updated for the latest Hibernate and Java EE specification versions. About the Technology Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Persistence—the ability of data to outlive an instance of a program—is central to modern applications. Hibernate, the most popular Java persistence tool, offers automatic and transparent object/relational mapping, making it a snap to work with SQL databases in Java applications. About the Book *Java Persistence with Hibernate, Second Edition* explores Hibernate by developing an application that ties together hundreds of individual examples. You'll immediately dig into the rich programming model of Hibernate, working through mappings, queries, fetching strategies, transactions, conversations, caching, and more. Along the way you'll find a well-illustrated discussion of best practices in database design and optimization techniques. In this revised edition, authors Christian Bauer, Gavin King, and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2.1 standard (JSR 338). All examples have been updated for the latest Hibernate and Java EE specification versions. What's Inside Object/relational mapping concepts Efficient database application design Comprehensive Hibernate and Java Persistence reference Integration of Java Persistence with EJB, CDI, JSF, and JAX-RS * Unmatched breadth and depth About the Reader The book assumes a working knowledge of Java. About the Authors Christian Bauer is a member of the Hibernate developer team and a trainer and consultant. Gavin King is the founder of the Hibernate project and a member of the Java Persistence expert group (JSR 220). Gary Gregory is a principal software engineer working on application servers and legacy integration. Table of Contents PART 1 GETTING STARTED WITH ORM Understanding object/relational persistence Starting a project Domain models and metadata PART 2 MAPPING STRATEGIES Mapping persistent classes Mapping value types Mapping inheritance Mapping collections and entity associations Advanced entity association mappings Complex and legacy schemas PART 3 TRANSACTIONAL DATA PROCESSING Managing data Transactions and concurrency Fetch plans, strategies, and profiles Filtering data PART 4 WRITING QUERIES Creating and executing queries The query languages Advanced query options Customizing SQL **Java Persistence with Hibernate** Manning Publications A guide to using Hibernate and Java Persistence covers such topics as ORM, application architecture, and developer tools. **Spring Persistence with Hibernate** Apress Persistence is an important set of techniques and technologies for accessing and transacting data, and ensuring that data is mobile regardless of specific applications and contexts. In Java development, persistence is a key factor in enterprise, e-commerce, and other transaction-oriented applications. Today, the Spring framework is the leading out-of-the-box solution for enterprise Java developers; in it, you can find a number of Java Persistence solutions. This book gets you rolling with fundamental Spring Framework 3 concepts and integrating persistence functionality into enterprise Java applications using Hibernate, the Java™ Persistence API (JPA) 2, and the Grails Object Relational Mapping tool, GORM. Covers core Hibernate fundamentals, demonstrating how the framework can be best utilized within a Spring application context Covers how to use and integrate JPA 2, found in the new Java EE 6 platform Covers how to integrate and use the new Grails persistence engine, GORM **Hibernate Tips More than 70 solutions to common Hibernate problems** Thoughts on Java 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.

High-Performance Java Persistence Vlad Mihalcea A high-performance data access layer must resonate with the underlying database system. Knowing the inner workings of a relational database and the data access frameworks in use can make the difference between a high-performance enterprise application and one that barely crawls. This book is a journey into Java data access performance tuning. From connection management, to batch updates, fetch sizes and concurrency control mechanisms, it unravels the inner workings of the most common Java data access frameworks. The first part aims to reduce the gap between application developers and database administrators. For this reason, it covers both JDBC and the database fundamentals that are of paramount importance when reducing transaction response times. In this first part, you'll learn about connection management, batch updates, statement caching, result set fetching and database transactions. The second part demonstrates how you can take advantage of JPA and Hibernate without compromising application performance. In this second part, you'll learn about the most efficient Hibernate mappings (basic types, associations, inheritance), fetching best practices, caching and concurrency control mechanisms. The third part is dedicated to JOOQ and its powerful type-safe querying capabilities, like window functions, common table expressions, upsert, stored procedures and database functions.

Harnessing Hibernate "O'Reilly Media, Inc." Describes the features and functions of Hibernate, covering such topics as performing object/relational mapping, working with groups, using Hibernate Query Language, connecting Hibernate to MySQL, and installing Maven.

Spring Persistence with Hibernate Apress Learn how to use the core Hibernate APIs and tools as part of the Spring Framework. This book illustrates how these two frameworks can be best utilized. Other persistence solutions available in Spring are also shown including the Java Persistence API (JPA). *Spring Persistence with Hibernate, Second Edition* has been updated to cover Spring Framework version 4 and Hibernate version 5. After reading and using this book, you'll have the fundamentals to apply these persistence solutions into your own mission-critical enterprise Java applications that you build using Spring. Persistence is an important set of techniques and technologies for accessing and using data, and ensuring that data is mobile regardless of specific applications and contexts. In Java development, persistence is a key factor in enterprise, e-commerce, and other transaction-oriented applications. Today, the agile and open source Spring Framework is the leading out-of-the-box, open source solution for enterprise Java developers; in it, you can find a number of Java persistence solutions. What You'll Learn Use Spring Persistence, including using persistence tools in Spring as well as choosing the best Java persistence frameworks outside of Spring Take advantage of Spring Framework features such as Inversion of Control (IoC), aspect-oriented programming (AOP), and more Work with Spring JDBC, use declarative transactions with Spring, and reap the benefits of a lightweight persistence strategy Harness Hibernate and integrate it into your Spring-based enterprise Java applications for transactions, data processing, and more Integrate JPA for creating a well-layered persistence tier in your enterprise Java application Who This Book Is For This book is ideal for developers interested in learning more about persistence framework options on the Java platform, as well as fundamental Spring concepts. Because the book covers several persistence frameworks, it is suitable for anyone interested in learning more about Spring or any of the frameworks covered. Lastly, this book covers advanced topics related to persistence architecture and design patterns, and is ideal for beginning developers looking to learn more in these areas.

Spring Boot Persistence Best Practices Optimize Java Persistence Performance in Spring Boot Applications Apress This book is a collection of developer code recipes and best practices for persisting data using Spring, particularly Spring Boot. The book is structured around practical recipes, where each recipe discusses a performance case or performance-related case, and almost every recipe has one or more applications. Mainly, when we try to accomplish something (e.g., read some data from the database), there are several approaches to do it, and, in order to choose the best way, you have to know the implied trades-off from a performance perspective. You'll see that in the end, all these penalties slow down the application. Besides presenting the arguments that favor a certain choice, the application is written in Spring Boot style which is quite different than plain Hibernate. Persistence is an important set of techniques and technologies for accessing and using data, and this book demonstrates that data is mobile regardless of specific applications and contexts. In Java development, persistence is a key factor in enterprise, ecommerce, cloud and other transaction-oriented applications. After reading and using this book, you'll have the fundamentals to apply these persistence solutions into your own mission-critical enterprise Java applications that you build using Spring. What You Will Learn Shape *-to-many associations for best performances Effectively exploit Spring Projections (DTO) Learn best practices for batching inserts, updates and deletes Effectively fetch parent and association in a single SELECT Learn how to inspect Persistent Context content Dissect pagination techniques (offset and keyset) Handle queries, locking, schemas, Hibernate types, and more Who This Book Is For Any Spring and Spring Boot developer that wants to squeeze the persistence layer performances.

Hibernate in Action Manning Publications A guide to using Hibernate covers such topics as ORM, application architecture, and developer tools.

Beginning Hibernate 6 Java Persistence from Beginner to Pro Apress Get started with Hibernate, an open source Java persistence layer and gain a clear introduction to the current standard for object-relational persistence in Java. This updated edition includes the new Hibernate 6.0 framework which covers new configuration, new object relational mapping changes, and enhanced integration with the more general Spring, Boot and Quarkus and other Java frameworks. The book keeps its focus on Hibernate without wasting time on nonessential third-party tools, so you'll be able to immediately start building transaction-based engines and applications. Experienced authors Joseph Ottinger with Dave Minter and Jeff Linwood provide more in-depth examples than any other book for Hibernate beginners. They

present their material in a lively, example-based manner—not a dry, theoretical, hard-to-read fashion. What You'll Learn Build enterprise Java-based transaction-type applications that access complex data with Hibernate Work with Hibernate 6 using a present-day build process Integrate into the persistence life cycle Search and query with the new version of Hibernate Keep track of versioned data with Hibernate Envers Who This Book Is For Programmers experienced in Java with databases (the traditional, or connected, approach), but new to open-source, lightweight Hibernate. **Spring Persistence with Hibernate** Packt Pub Limited Spring Persistence with Hibernate is an easy-to-follow, step-by-step, and example-rich guide to using Spring and Hibernate to build robust and effective Java applications. Furthermore, the book can be used as reference in areas where developers need help. All the topics explained in the book are demonstrated with practical examples and uncomplicated figures. The book is primarily for Spring developers and users who want to persist using the popular Hibernate persistence framework. Java, Hibernate, JPA, Spring, and open source developers in general will also find the book useful. **Just Spring Data Access Covers JDBC, Hibernate, JPA and JDO** "O'Reilly Media, Inc." JDBC has simplified database access in Java applications, but a few nagging wrinkles remain—namely, persisting Java objects to relational databases. With this book, you'll learn how the Spring Framework makes that job incredibly easy with dependency injection, template classes, and object-relational-mapping (ORM). Through sample code, you'll discover how Spring streamlines the use of JDBC and ORM tools such as Hibernate, the Java Persistence API (JPA), and Java Data Objects (JDO). If you're a Java developer familiar with Spring (perhaps through O'Reilly's Just Spring tutorial) and want to advance your data access skills, this book shows you how. Learn how to use Spring's basic and advanced data access tools Work with Spring's JdbcTemplate class to separate non-critical code from business code Eliminate placeholder variables in your queries with the NamedParameterJdbcTemplate class Use Spring's template classes to perform batch executions Operate inserts on database tables without writing any SQL statements Learn about Spring's support for Hibernate as an object-relational-mapping tool Use JPA as a standards-based ORM—alone or with Spring support Move data from a relational to a non-relational database with JDO **Hibernate Search in Action** Simon and Schuster Enterprise and web applications require full-featured, "Google-quality" searchcapabilities, but such features are notoriously difficult to implement and maintain.Hibernate Search builds on the Lucene feature set and offers an easy-to-implement interface that integrates seamlessly with Hibernate—the leading data persistence solution for Java applications. Hibernate Search in Action introduces both the principles of enterprise search and the implementation details a Java developer will need to use Hibernate Search effectively. This book blends the insights of the Hibernate Search lead developer with the practical techniques required to index and manipulate data, assemble and execute search queries, and create smart filters for better search results. Along the way, the reader masters performance-boosting concepts like using Hibernate Search in a clustered environment and integrating with the features already in your applications. This book assumes you're a competent Java developer with some experience using Hibernate and Lucene. 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. **Hibernate Made Easy Simplified Data Persistence with Hibernate and JPA (Java Persistence API) Annotations** Pulp Java McKenzie brings to light the idea that a technology that is fun and easy to use should also be fun and easy to learn. Building upon simple, straightforward examples, this book explores the key concepts needed to leverage the Hibernate framework. (Computer Books) **Just Hibernate A Lightweight Introduction to the Hibernate Framework** "O'Reilly Media, Inc." If you're looking for a short, sweet, and simple introduction (or reintroduction) to Hibernate, this is the book you want. Through clear real-world examples, you'll learn Hibernate and object-relational mapping from the ground up, starting with the basics. Then you'll dive into the framework's moving parts to understand how they work in action. Storing Java objects in relational databases is usually a challenging and complex task for any Java developer, experienced or not. This book, like others in the Just series, delivers a concise, example-driven tutorial for Java beginners. You'll gain enough knowledge and confidence to start working on real-world projects with Hibernate. Compare how JDBC and Hibernate work with object persistence Learn how annotations are used to create Hibernate applications Understand how to persist and retrieve Java data structures Focus on the fundamentals of associations and their mappings Delve into advanced concepts such as caching, inheritance, and types Walk through the Hibernate Query Language API, with examples Develop Java Persistence API applications, using Hibernate as the provider Work hands-on with code snippets to understand the technology **Beginning Hibernate For Hibernate 5** Apress Get started with the Hibernate 5 persistence layer and gain a clear introduction to the current standard for object-relational persistence in Java. This updated edition includes the new Hibernate 5.0 framework as well as coverage of NoSQL, MongoDB, and other related technologies, ranging from applications to big data. Beginning Hibernate is ideal if you're experienced in Java with databases (the traditional, or connected, approach), but new to open-source, lightweight Hibernate. The book keeps its focus on Hibernate without wasting time on nonessential third-party tools, so you'll be able to immediately start building transaction-based engines and applications. Experienced authors Joseph Ottinger with Dave Minter and Jeff Linwood provide more in-depth examples than any other book for Hibernate beginners. They present their material in a lively, example-based manner—not a dry, theoretical, hard-to-read fashion. What You'll Learn Build enterprise Java-based transaction-type applications that access complex data with Hibernate Work with Hibernate 5 using a present-day build process Use Java 8 features with Hibernate Integrate into the persistence life cycle Map using Java's annotations Search and query with the new version of Hibernate Integrate with MongoDB using NoSQL Keep track of versioned data with Hibernate Envers Who This Book Is For Experienced Java developers interested in learning how to use and apply object-relational persistence in Java and who are new to the Hibernate persistence framework. **Java Persistence with Jpa 2.1** This book is the second edition to my previous book: Java Persistence with JPA (Outskirts Press, Denver, March 2010, ISBN: 978-1-4327-5585-0). It adds the new features of JPA 2.1, reorganizes some existing chapters, and updates code examples and tools. The goal of this book is to provide a concise and comprehensive coverage of JPA 2.1, which is part of Java EE 7 but can be used in Java SE as well. Concepts are illustrated through code examples for easy understanding. It may serve as an introductory text for Java developers who do not know anything about JPA, and a reference book for experienced JPA developers who may look up for concepts and code snippets while they develop complex JPA applications. This book covers Java Persistence API 2.1, the latest Java technology on persisting Java objects to relational databases. This is a new Java persistence standard based on object-relational mapping and utilizing object-oriented features of Java. It is expected to gradually replace JDBC and proprietary object-relational mapping frameworks and libraries for most Java applications with database access. JPA makes software development fun and leads to improved productivity. The book introduces concepts, techniques, and application trade-offs in a manner that is easy to understand and provides many code examples for an online book ordering system. The Java source code and database DDL scripts

are freely downloadable from the author's web site. The book contains instructions on how to run the code examples so that the reader can easily learn the concepts through running the code. The book is suitable for Java developers and architects who want to learn this new and standard technology, but may not have prior knowledge of JPA. This book is also aimed at experienced JPA developers who may use this book as a reference, by providing complete coverage of JPA 2.1. It has a special chapter on JPA design patterns and performance tuning. This book will prove to be valuable for novice a **Beginning Hibernate From Novice to Professional** Apress This book is written for users experienced in using Java with databases but inexperienced in the use of the open source, lightweight Hibernate, the most popular de-facto object-relational mapping and database-oriented application development framework. The book has plentiful examples and handy reference sections, including a comprehensive reference for Hibernate O/R mapping strategies. **Beginning Hibernate 3** is packed with brand-new information on the latest release of the Hibernate persistence layer and provides a clear introduction to the de facto standard for object relational persistence in Java. Readers will get started right away with building transaction-based engines and applications. **Spring Data** "O'Reilly Media, Inc." You can choose several data access frameworks when building Java enterprise applications that work with relational databases. But what about big data? This hands-on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop. Through several sample projects, you'll learn how Spring Data provides a consistent programming model that retains NoSQL-specific features and capabilities, and helps you develop Hadoop applications across a wide range of use-cases such as data analysis, event stream processing, and workflow. You'll also discover the features Spring Data adds to Spring's existing JPA and JDBC support for writing RDBMS-based data access layers. Learn about Spring's template helper classes to simplify the use of database-specific functionality Explore Spring Data's repository abstraction and advanced query functionality Use Spring Data with Redis (key/value store), HBase (column-family), MongoDB (document database), and Neo4j (graph database) Discover the GemFire distributed data grid solution Export Spring Data JPA-managed entities to the Web as RESTful web services Simplify the development of HBase applications, using a lightweight object-mapping framework Build example big-data pipelines with Spring Batch and Spring Integration **Java Transaction Design Strategies** Lulu.com Understanding how transaction management works in Java and developing an effective transaction design strategy can help to avoid data integrity problems in your applications and databases and ease the pain of inevitable system failures. This book is about how to design an effective transaction management strategy using the transaction models provided by Java-based frameworks such as EJB and Spring. Techniques, best practices, and pitfalls with each transaction model will be described. In addition, transaction design patterns will bring all these concepts and techniques together and describe how to use these models to effectively manage transactions within your EJB or Spring-based Java applications. The book covers: - The local transaction model - The programmatic transaction model - The declarative transaction model - XA Transaction Processing - Transaction Design Patterns **Hibernate Recipes A Problem-Solution Approach** Apress Hibernate continues to be the most popular out-of-the-box framework solution for Java Persistence and data/database accessibility techniques and patterns. It is used for e-commerce-based web applications as well as heavy-duty transactional systems for the enterprise. Gary Mak, the author of the best-selling Spring Recipes, now brings you Hibernate Recipes. This book contains a collection of code recipes and templates for learning and building Hibernate solutions for you and your clients. This book is your pragmatic day-to-day reference and guide for doing all things involving Hibernate. There are many books focused on learning Hibernate, but this book takes you further and shows how you can apply it practically in your daily work. **Pro JPA 2** Apress 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 techniques 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 **Web Development with Java Using Hibernate, JSPs and Servlets** Springer Science & Business Media This book jumps to the "good stuff" from the outset, allowing students to quickly start writing real applications. It introduces readers to a 3-tiered, Model-View-Controller architecture by using Hibernate, JSPs, and Java Servlets. This book uses existing powerful technologies such as JSP, JavaBeans, Annotations, JSTL, Java 1.5, Hibernate, Apache Velocity and Tomcat. It also presents Model 1 architectures using Servlets and JSP as alternatives to Perl and PHP. Written for novice developers, this book provides an introductory course in web development for undergraduates as well as web developers. **Mastering Hibernate** Packt Publishing Ltd Learn how to correctly utilize the most popular Object-Relational Mapping tool for your Enterprise application About This Book Understand the internals of Hibernate and its architecture, and how it manages Entities, Events, Versioning, Filters, and Cache Observe how Hibernate bridges the gap between object-oriented concepts and relational models Discover how Hibernate can address architectural concerns such as Transaction, Database Multi-tenancy, Clustering, and Database Shards Who This Book Is For Mastering

Hibernate is intended for those who are already using or considering using Hibernate as the solution to address the problem of Object Relational Mapping. If you are already using Hibernate, this book will help you understand the internals and become a power user of Hibernate. What You Will Learn Understand the internals of a Hibernate session and how Entities are managed Declare better mapping between entity classes and database tables Manage entity associations and collections Fetch data not just by entity ID, but also using HQL, Criteria Objects, Filters, and Native SQL Observe the first and second level caches and find out how to manage them Collect statistics and metrics data for further observation Make your application work with multi-tenant databases In Detail Hibernate has been so successful since its inception that it even influenced the Java Enterprise Edition specification in that the Java Persistence API was dramatically changed to do it the Hibernate way. Hibernate is the tool that solves the complex problem of Object Relational Mapping. It can be used in both Java Enterprise applications as well as .Net applications. Additionally, it can be used for both SQL and NoSQL data stores. Some developers learn the basics of Hibernate and hit the ground quickly. But when demands go beyond the basics, they take a reactive approach instead of learning the fundamentals and core concepts. However, the secret to success for any good developer is knowing and understanding the tools at your disposal. It's time to learn about your tool to use it better This book first explores the internals of Hibernate by discussing what occurs inside a Hibernate session and how Entities are managed. Then, we cover core topics such as mapping, querying, caching, and we demonstrate how to use a wide range of very useful annotations. Additionally, you will learn how to create event listeners or interceptors utilizing the improved architecture in the latest version of Hibernate. Style and approach This book takes a close look at the core topics, and helps you understand the complex topics by showing you examples and giving you in-depth discussions. **Hibernate A Developer's Notebook** "O'Reilly Media, Inc." This guide walks the reader through the ins and outs of using Hibernate, from installation and configuration, to complex associations and composite types. **Spring Data Standard Guide** Packt Publishing Ltd Implement JPA repositories and harness the performance of Redis in your applications. **Hibernate Quickly** Manning Publications Company A concise introduction to Hibernate's many configuration and design options distills the open source object/relational persistence and query service into digestible pieces with many code examples, practical usage scenarios, and coverage of the tools available. Original. (Advanced) **Hibernate and Java Persistence API (JPA) Fundamentals** "In this Hibernate and Java Persistence API (JPA) Fundamentals training course, expert author Kevin Bowersox will teach you the goals of these technologies, as well as the benefits they provide. This course is designed for users that already have experience working with the JDBC. You will start by learning about object relational mapping and Hibernate, then jump into learning about the Hibernate basics. From there, Kevin will teach you basic mapping annotations, mapping composite and collection types, and entity associations. This video tutorial also covers Hibernate API, JPA API, advanced mapping and configurations, and criteria API. Finally, you will learn about the Hibernate query language and Java Persistence query language. Once you have completed this computer based training course, you will be able to simplify and clarify the persistence tier of your applications using Hibernate and Java Persistence, granting you productivity improvements and easing future maintenance. Working files are included, allowing you to follow along with the author throughout the lessons."--Resource description page. **Java Persistence With Hibernate** Dreamtech Press Java Persistence with Hibernate explores Hibernate by developing an application that ties together hundreds of individual examples. You'll immediately dig into the rich programming model of Hibernate 3.2 and Java Persistence, working through queries, fetching strategies, caching, transactions, conversations, and more. You'll also appreciate the well-illustrated discussion of best practices in database design, object/relational mapping, and optimization techniques. **Pro JPA 2 in Java EE 8 An In-Depth Guide to Java Persistence APIs** Apress Learn to use the Java Persistence API (JPA) and other related APIs as found in the Java EE 8 platform from the perspective of one of the specification creators. A one-of-a-kind resource, this in-depth book provides both theoretical and practical coverage of JPA usage for experienced Java developers. Authors Mike Keith, Merrick Schincariol and Massimo Nardone 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 overarching sample application, giving you a context from which to start and helping you to understand the examples within an already familiar domain. After completing Pro JPA 2 in Java EE 8, 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. What You Will Learn Use the JPA in the context of enterprise applications Work with object relational mappings (ORMs), collection mappings and more Build complex enterprise Java applications that persist data long after the process terminates Connect to and persist data with a variety of databases, file formats, and more Use queries, including the Java Persistence Query Language (JPQL) Carry out advanced ORM, queries and XML mappings Package, deploy and test your Java persistence-enabled enterprise applications Who This Book Is For Experienced Java programmers and developers with at least some prior experience with J2EE or Java EE platform APIs. **Spring Batch in Action** Simon and Schuster Summary Spring Batch in Action is an in-depth guide to writing batch applications using Spring Batch. Written for developers who have basic knowledge of Java and the Spring lightweight container, the book provides both a best-practices approach to writing batch jobs and comprehensive coverage of the Spring Batch framework. About the Technology Even though running batch jobs is a common task, there's no standard way to write them. Spring Batch is a framework for writing batch applications in Java. It includes reusable components and a solid runtime environment, so you don't have to start a new project from scratch. And it uses Spring's familiar programming model to simplify configuration and implementation, so it'll be comfortably familiar to most Java developers. About the Book Spring Batch in Action is a thorough, in-depth guide to writing efficient batch applications. Starting with the basics, it discusses the best practices of batch jobs along with details of the Spring Batch framework. You'll learn by working through dozens of practical, reusable examples in key areas like monitoring, tuning, enterprise integration, and automated testing. No prior batch programming experience is required. Basic knowledge of Java and Spring is assumed. 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 Batch programming from the ground up Implementing data components Handling errors during batch processing Automating tedious tasks Table of Contents PART 1 BACKGROUND Introducing Spring Batch Spring Batch concepts PART 2 CORE SPRING BATCH Batch configuration Running batch jobs Reading data Writing data Processing data Implementing bulletproof jobs Transaction management PART 3 ADVANCED SPRING BATCH Controlling execution Enterprise integration Monitoring jobs Scaling and parallel processing Testing batch applications **Java Persistence with Spring Data and Hibernate** Manning Master Java persistence using the industry-leading tools Spring Data and Hibernate. Java Persistence with Spring Data and Hibernate dives deep into persistence with the most popular available tools including Spring Data JPA, Spring Data

JDBC, Spring Data REST, JPA, and Hibernate. Begin with a hands-on introduction to object-relational mapping (ORM), then dive into mapping strategies for linking up objects and your database. You'll learn about the different approach to transactions for both Hibernate and Spring Data, and even how to deliver Java persistence with non-relational databases. Finally, you'll explore testing strategies for persistent applications to keep your code clean and bug free. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. **Java Persistence API и Hibernate** Litres Java Persistence – механизм, помогающий обеспечить сохранность данных после завершения программы, что является главной чертой современных приложений. Hibernate – наиболее популярный инструмент Java для работы с базами данных, предоставляющим автоматическое прозрачное объектно-реляционное отображение, что значительно упрощает работу с SQL-базами данных в приложениях Java. Данная книга описывает разработку приложения с использованием Hibernate, связывая воедино сотни отдельных примеров. Также вы найдете хорошо иллюстрированное обсуждение лучших методик проектирования баз данных и методов оптимизации. Издание предназначено разработчикам, знакомым с языком Java. **Java 11 Cookbook A definitive guide to learning the key concepts of modern application development, 2nd Edition** Packt Publishing Ltd Solutions for modular, functional, reactive, GUI, network, and multithreaded programming Key Features Explore the latest features of Java 11 to implement efficient and reliable code Develop memory-efficient applications, understanding new garbage collection in Java 11 Create restful webservices and microservices with Spring boot 2 and Docker Book Description For more than three decades, Java has been on the forefront of developing robust software that has helped versatile businesses meet their requirements. Being one of the most widely used programming languages in history, it's imperative for Java developers to discover effective ways of using it in order to take full advantage of the power of the latest Java features. Java 11 Cookbook offers a range of software development solutions with simple and straightforward Java 11 code examples to help you build a modern software system. Starting with the installation of Java, each recipe addresses various problem by explaining the solution and offering insights into how it works. You'll explore the new features added to Java 11 that will make your application modular, secure, and fast. The book contains recipes on functional programming, GUI programming, concurrent programming, and database programming in Java. You'll also be taken through the new features introduced in JDK 18.3 and 18.9. By the end of this book, you'll be equipped with the skills required to write robust, scalable, and optimal Java code effectively. What you will learn Set up JDK and understand what's new in the JDK 11 installation Implement object-oriented designs using classes and interfaces Manage operating system processes Create a modular application with clear dependencies Build graphical user interfaces using JavaFX Use the new HTTP Client API Explore the new diagnostic features in Java 11 Discover how to use the new JShell REPL tool Who this book is for The book is for intermediate-to-advanced Java programmers who want to make their applications fast, secure, and scalable. **Java Performance In-Depth Advice for Tuning and Programming Java 8, 11, and Beyond** O'Reilly Media Coding and testing are generally considered separate areas of expertise. In this practical book, Java expert Scott Oaks takes the approach that anyone who works with Java should be adept at understanding how code behaves in the Java Virtual Machine—including the tunings likely to help performance. This updated second edition helps you gain in-depth knowledge of Java application performance using both the JVM and the Java platform. Developers and performance engineers alike will learn a variety of features, tools, and processes for improving the way the Java 8 and 11 LTS releases perform. While the emphasis is on production-supported releases and features, this book also features previews of exciting new technologies such as ahead-of-time compilation and experimental garbage collections. Understand how various Java platforms and compilers affect performance Learn how Java garbage collection works Apply four principles to obtain best results from performance testing Use the JDK and other tools to learn how a Java application is performing Minimize the garbage collector's impact through tuning and programming practices Tackle performance issues in Java APIs Improve Java-driven database application performance **Real-World Cryptography** Simon and Schuster "A staggeringly comprehensive review of the state of modern cryptography. Essential for anyone getting up to speed in information security." - Thomas Doylend, Green Rocket Security An all-practical guide to the cryptography behind common tools and protocols that will help you make excellent security choices for your systems and applications. In Real-World Cryptography, you will find: Best practices for using cryptography Diagrams and explanations of cryptographic algorithms Implementing digital signatures and zero-knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem Real-World Cryptography reveals the cryptographic techniques that drive the security of web APIs, registering and logging in users, and even the blockchain. You'll learn how these techniques power modern security, and how to apply them to your own projects. Alongside modern methods, the book also anticipates the future of cryptography, diving into emerging and cutting-edge advances such as cryptocurrencies, and post-quantum cryptography. All techniques are fully illustrated with diagrams and examples so you can easily see how to put them into practice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Cryptography is the essential foundation of IT security. To stay ahead of the bad actors attacking your systems, you need to understand the tools, frameworks, and protocols that protect your networks and applications. This book introduces authentication, encryption, signatures, secret-keeping, and other cryptography concepts in plain language and beautiful illustrations. About the book Real-World Cryptography teaches practical techniques for day-to-day work as a developer, sysadmin, or security practitioner. There's no complex math or jargon: Modern cryptography methods are explored through clever graphics and real-world use cases. You'll learn building blocks like hash functions and signatures; cryptographic protocols like HTTPS and secure messaging; and cutting-edge advances like post-quantum cryptography and cryptocurrencies. This book is a joy to read—and it might just save your bacon the next time you're targeted by an adversary after your data. What's inside Implementing digital signatures and zero-knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem About the reader For cryptography beginners with no previous experience in the field. About the author David Wong is a cryptography engineer. He is an active contributor to internet standards including Transport Layer Security. Table of Contents PART 1 PRIMITIVES: THE INGREDIENTS OF CRYPTOGRAPHY 1 Introduction 2 Hash functions 3 Message authentication codes 4 Authenticated encryption 5 Key exchanges 6 Asymmetric encryption and hybrid encryption 7 Signatures and zero-knowledge proofs 8 Randomness and secrets PART 2 PROTOCOLS: THE RECIPES OF CRYPTOGRAPHY 9 Secure transport 10 End-to-end encryption 11 User authentication 12 Crypto as in cryptocurrency? 13 Hardware cryptography 14 Post-quantum cryptography 15 Is this it? Next-generation cryptography 16 When and where cryptography fails **Spring Boot: Up and Running** O'Reilly Media With over 75 million

downloads per month, Spring Boot is the most widely used Java framework available. Its ease and power have revolutionized application development from monoliths to microservices. Yet Spring Boot's simplicity can also be confounding. How do developers learn enough to be productive immediately? This practical book shows you how to use this framework to write successful mission-critical applications. Mark Heckler from VMware, the company behind Spring, guides you through Spring Boot's architecture and approach, covering topics such as debugging, testing, and deployment. If you want to develop cloud native Java or Kotlin applications with Spring Boot rapidly and effectively--using reactive programming, building APIs, and creating database access of all kinds--this book is for you. Learn how Spring Boot simplifies cloud native application development and deployment Build reactive applications and extend communication across the network boundary to create distributed systems Understand how Spring Boot's architecture and approach increase developer productivity and application portability Deploy Spring Boot applications for production workloads rapidly and reliably Monitor application and system health for optimal performance and reliability Debug, test, and secure cloud-based applications painlessly

Spring Persistence -- A Running Start Apress Published with the developer in mind, firstPress technical briefs explore emerging technologies that have the potential to be critical for tomorrow's industry. Apress keeps developers one step ahead by presenting key information as early as possible in a PDF of 150 pages or less. Explore the future through Apress with Spring Persistence—A Running Start. This firstPress title gets readers rolling with the various fundamental Spring Framework Java Persistence concepts and offerings, as well as proven design patterns for integrating Spring Persistence functionality for complex and transaction-based enterprise Java applications. The Java platform offers several options for saving “long-lived” information, including JPA (Java Persistence API), Hibernate, iBatis, JDBC, and even JCR (Java Content Repository—a standard for interfacing with a content management system). This book helps readers decide which persistence solution is the most ideal for their application requirements, and shows how Spring can be leveraged to simplify the integration of their selected persistence framework into their enterprise application.

EJB 3 in Action Simon and Schuster Summary Building on the bestselling first edition, EJB 3 in Action, Second Edition tackles EJB 3.2 head-on, through numerous code samples, real-life scenarios, and illustrations. This book is a fast-paced tutorial for Java EE 6 business component development using EJB 3.2, JPA 2, and CDI. Besides covering the basics of EJB 3.2, this book includes in-depth EJB 3.2 internal implementation details, best practices, design patterns, and performance tuning tips. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book The EJB 3 framework provides a standard way to capture business logic in manageable server-side modules, making it easier to write, maintain, and extend Java EE applications. EJB 3.2 provides more enhancements and intelligent defaults and integrates more fully with other Java technologies, such as CDI, to make development even easier. EJB 3 in Action, Second Edition is a fast-paced tutorial for Java EE business component developers using EJB 3.2, JPA, and CDI. It tackles EJB head-on through numerous code samples, real-life scenarios, and illustrations. Beyond the basics, this book includes internal implementation details, best practices, design patterns, performance tuning tips, and various means of access including Web Services, REST Services, and WebSockets. Readers need to know Java. No prior experience with EJB or Java EE is assumed. What's Inside Fully revised for EJB 3.2 POJO persistence with JPA 2.1 Dependency injection and bean management with CDI 1.1 Interactive application with WebSocket 1.0 About the Authors Debu Panda, Reza Rahman, Ryan Cuprak, and Michael Remijan are seasoned Java architects, developers, authors, and community leaders. Debu and Reza coauthored the first edition of EJB 3 in Action. Table of Contents PART 1 OVERVIEW OF THE EJB LANDSCAPE What's what in EJB 3 A first taste of EJB PART 2 WORKING WITH EJB COMPONENTS Building business logic with session beans Messaging and developing MDBs EJB runtime context, dependency injection, and crosscutting logic Transactions and security Scheduling and timers Exposing EJBs as web services PART 3 USING EJB WITH JPA AND CDI JPA entities Managing entities JPQL Using CDI with EJB 3 PART 4 PUTTING EJB INTO ACTION Packaging EJB 3 applications Using WebSockets with EJB 3 Testing and EJB