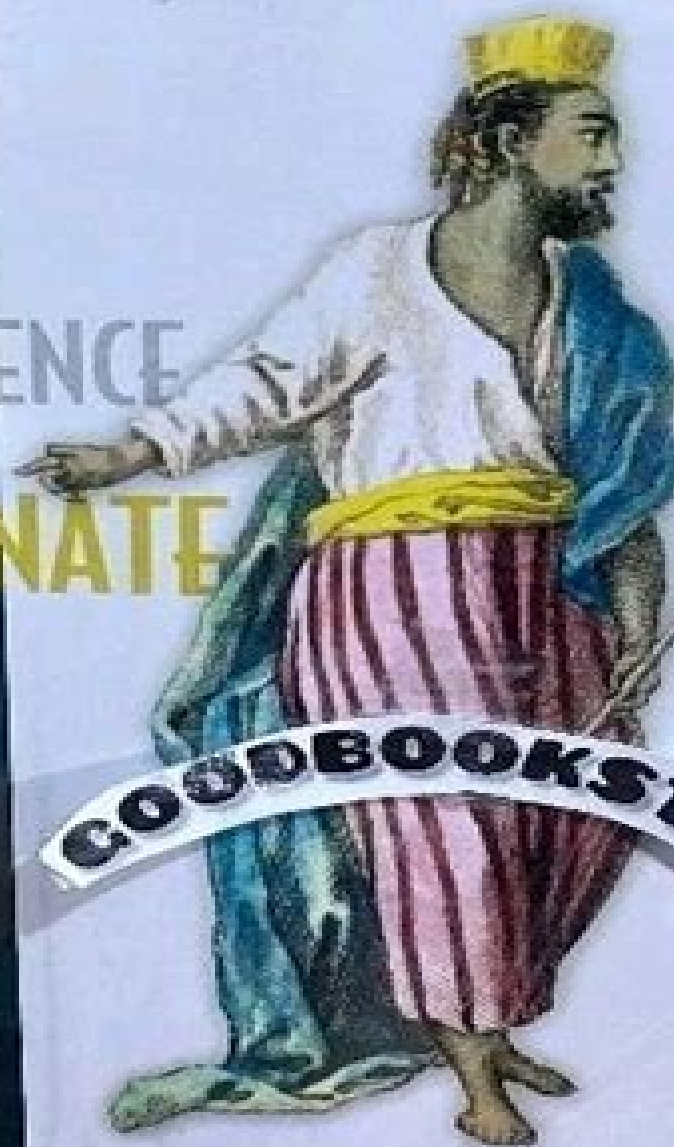


JAVA PERSISTENCE WITH HIBERNATE

SECOND EDITION

Christian Bauer
Gavin King
Gary Gregory
Foreword by Linda DeMichiel

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Java Persistence With Hibernate Second Edition

Daoqi Yang



Java Persistence With Hibernate Second Edition:

Java Persistence with Hibernate Gary Gregory,Christian Bauer,2015-10-27 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, Second Edition Gary Gregory,Christian Bauer,2015 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

Java Persistence with Spring Data and Hibernate Catalin Tudose, Christian Bauer (Computer scientist), Gavin King, 2023-02-28 Java Persistence with Spring Data and Hibernate teaches you the ins and outs of Java persistence with hands on examples using Spring Data JPA and Hibernate The book carefully analyzes the capabilities of the major Java persistence tools and guides you through the most common use cases By comparing and contrasting the alternatives you ll find it easy to choose the right tool choice for your applications You ll learn how to make and utilize mapping strategies about the different approach to transactions for both Hibernate and Spring Data and even how to efficiently test Java persistence applications The practical techniques are demonstrated with both relational and non relational databases

[Spring Persistence with Hibernate](#) Paul Fisher, Brian D. Murphy, 2011-02-01 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

Troubleshooting Java, Second Edition Laurentiu Spilca, 2025-11-18 Learn how to quickly work out what your Java code is doing so you can understand when and why it misbehaves Searching for bugs detangling messy legacy code or evaluating your codebase for new features sucks up much of a developer s time Effectively reading and understanding existing code is a true superpower Troubleshooting Java Second Edition teaches you to efficiently analyze and debug Java applications using time tested tools and new AI powered techniques In Troubleshooting Java Second Edition you ll learn Efficiently use debuggers to quickly understand complex code Utilize AI driven tools to automate log analysis trace execution and predict problems Correctly implement and interpret application logs Identify performance bottlenecks and optimize slow execution paths Profile SQL queries to diagnose and optimize database interactions Evaluate heap dumps to detect and fix memory leaks Analyze thread dumps to resolve deadlocks and concurrency issues Navigate the intricacies of service oriented and microservices systems In Troubleshooting Java Second Edition Java veteran Laurentiu Spilca shares techniques for reading profiling debugging and optimizing Java code that he s honed over years working with high stakes systems This fully revised second edition updates coverage for new Java tools and adds methods for saving time and effort using AI You ll master techniques to identify memory leaks optimize database queries and resolve threading issues with ease The code samples are in Java but the skills you learn in this guide can be applied to any JVM language About the technology

Whether you're working with legacy systems or using AI to generate fresh programs you'll spend more time reading and fixing code than writing it from scratch. Troubleshooting is a messy art and efficient profiling, logging, debugging, and optimization will save you hours of time and countless headaches. About the book: *Troubleshooting Java*, Second Edition, teaches practical techniques to diagnose, debug, and optimize Java applications. You'll learn to uncover hidden dependencies, diagnose crashes, and resolve performance issues using tools like IntelliJ IDEA, Debugger VisualVM, and Heap Dump Analyzer. This revised and updated second edition introduces AI-powered troubleshooting tools along with techniques for modern Java and cloud-native apps. What's inside: Use debuggers to quickly understand complex code. Automate code analysis with AI tools. Implement and interpret application logs. Identify performance bottlenecks. About the reader: For intermediate Java developers. About the author: Laurentiu Spilca is a skilled Java and Spring developer and an experienced technology instructor. He is the author of *Spring Start Here* and *Spring Security in Action*. Table of Contents: Part 1: 1. Starting to know your apps. 2. Understanding your app's logic through debugging techniques. 3. Finding problem root causes using advanced debugging techniques. 4. Making the most of logs. Auditing an app's behavior. Part 2: 5. Identifying resource consumption problems using profiling techniques. 6. Finding hidden problems using profiling techniques. 7. Investigating locks in multithreaded architectures. 8. Investigating deadlocks with thread dumps. Part 3: 9. Profiling memory-related problems. 10. Investigating memory problems with heap dumps. 11. Analyzing potential JVM problems with GC logs. Part 4: 12. Uncovering system-level failures and service communication problems. 13. Measuring data consistency and transactions. A. Tools you'll need. B. Opening a project. C. Recommended further reading. D. Understanding Java threads. E. Memory management in Java apps. Get a free eBook, PDF, or ePub from Manning, as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book. **Pro Spring 3** Rob Harrop, Clarence

Ho, 2012-06-13. The agile, lightweight, open-source Spring Framework continues to be the de facto leading enterprise Java application development framework for today's Java programmers and developers. It works with other leading open-source agile and lightweight Java technologies like Hibernate, Groovy, MyBatis, and more. Spring now also works with Java EE and JPA 2 as well. **Pro Spring 3** updates the bestselling **Pro Spring** with the latest that the Spring Framework has to offer: version 3.1. At 1000 pages, this is by far the most comprehensive Spring book available, thoroughly exploring the power of Spring. With **Pro Spring 3**, you'll learn Spring basics and core topics and gain access to the authors' insights and real-world experiences with remoting, Hibernate, and EJB. Beyond the basics, you'll learn how to leverage the Spring Framework to build various tiers or parts of an enterprise Java application, like transactions, the web, and presentations tiers, deployment, and much more. A full sample application allows you to apply many of the technologies and techniques covered in this book and see how they work together. After reading this definitive book, you'll be armed with the power of Spring to build complex Spring applications, top to bottom. *Seam in Action* Dan Allen, 2008-08-31. JBoss Seam is an exciting new application framework based on the Java

EE platform that is used to build rich web based business applications Seam is rapidly capturing the interest of Java enterprise developers because of its focus on simplicity ease of use transparent integration and scalability Seam in Action offers a practical and in depth look at JBoss Seam The book puts Seam head to head with the complexities in the Java EE architecture The author presents an unbiased view of Seam from outside the walls of RedHat JBoss focusing on such topics as Spring integration and deployment to alternative application servers to steer clear of vendor lock in By the end of the book you should expect to not only gain a deep understanding of Seam but also come away with the confidence to teach the material to others To start off you will see a working Java EE compliant application come together by the end of the second chapter As you progress through the book you will discover how Seam eliminates unnecessary layers and configurations solves the most common JSF pain points and establishes the missing link between JSF EJB 3 and JavaBean components The author also shows you how Seam opens doors for you to incorporate technologies you previously have not had time to learn such as business processes and stateful page flows jBPM Ajax remoting PDF generation asynchronous tasks and more All too often developers spend a majority of their time integrating disparate technologies manually tracking state struggling to understand JSF wrestling with Hibernate exceptions and constantly redeploying applications rather than on the logic pertaining to the business at hand Seam in Action dives deep into thorough explanations of how Seam eliminates these non core tasks by leveraging configuration by exception Java 5 annotations and aspect oriented programming 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

NHibernate in Action Pierre Henri Kuate,Christian Bauer,Gavin King,2009-03-10 This book is a translation from Java to Net as well as an expansion of the bestselling Hibernate in Action All traces of Java have been carefully replaced by their Net equivalents in order to guide readers through complex business operations **Guide to Web Development with Java** Tim Downey,2021-04-12 This comprehensive Guide to Web Development with Java introduces the readers to the three tiered Model View Controller architecture by using Spring JPA JSPs and Spring MVC controllers These three technologies use Java so that a student with a background in programming will be able to master them with ease with the end result of being able to create web applications that use MVC validate user input and save data to a database Topics and features Presents web development topics in an accessible easy to follow style focusing on core information first and allowing the reader to gain basic understanding before moving forwards Contains many helpful pedagogical tools for students and lecturers such as questions and exercises at the end of each chapter detailed illustrations chapter summaries and a glossary Uses existing powerful technologies that are freely available on the web to speed up web development such as Spring Boot Spring MVC Spring JPA Hibernate JSP JSTL and Java 1 8 Discusses HTML HTML forms and Cascading Style Sheets Starts with the simplest technology for web development JSP and gradually introduces the reader to more complex topics Introduces core technologies from the outset such as the Model View Controller architecture Includes examples for accessing common web

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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

Beginning Hibernate Jeff Linwood,2010 Beginning Hibernate Second Edition is ideal if you re experienced in Java with databases the traditional or connected approach but new to open source lightweight Hibernate the de facto object relational mapping and database oriented application development framework This book packs in information about the release of the Hibernate 3 5 persistence layer and provides a clear introduction to the current standard for object relational persistence in Java And since the book keeps its focus on Hibernate without wasting time on nonessential third party tools you ll be able to immediately start building transaction based engines and applications Experienced authors Dave Minter and Jeff Linwood provide more in depth examples than any other book for Hibernate beginners The authors also present material in a lively example based manner not a dry theoretical hard to read fashion

Hibernate Made Easy Cameron McKenzie,2008 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

Java Persistence for Relational Databases Richard Sperko,2003-07 Java Persistence for Relational Databases is chock full of best practices and patterns for those of you who want to connect to databases using Java Coverage includes various database related APIs for Java like JDO JDBC including the newest 3 0 APIs and CMP Container Managed Persistence with EJB All those things you developers have wanted to know but were afraid to

ask are featured inside this book It offers a realistic and multi angled look at persisting Java objects Whether your environment requires you to use JDO CMP Castor or to hand code a persistence layer using JDBC the answers all lie inside this book Java Persistence With Hibernate Christian Bauer,Gavin King,2006-12 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 **Hibernate Search in Action** Emmanuel Bernard,John Griffin,2009-01-07 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 easyto implement interface that integrates seamlessly with Hibernate the leadingdata persistence solution for Java applications Hibernate Search in Action introduces both the principles of enterprise searchand the implementation details a Java developer will need to use HibernateSearch effectively This book blends the insights of the Hibernate Search leaddeveloper with the practical techniques required to index and manipulate data assemble and execute search queries and create smart filters for better searchresults Along the way the reader masters performance boosting concepts likeusing Hibernate Search in a clustered environment and integrating with thefeatures already in your applications This book assumes you re a competent Java developer with some experienceusing 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 *High-Performance Java Persistence* Vlad Mihalcea,2016-10-12 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 **Beginning Hibernate 6** Joseph B. Ottinger,Jeff Linwood,Dave Minter,2021-10-26 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

Hibernate Search in Action Emmanuel Bernard, John Griffin, 2008-12-20 Enterprise and web applications require full featured Google quality search capabilities 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

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Table of Contents Java Persistence With Hibernate Second Edition

1. Understanding the eBook Java Persistence With Hibernate Second Edition
 - The Rise of Digital Reading Java Persistence With Hibernate Second Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Java Persistence With Hibernate Second Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Java Persistence With Hibernate Second Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Java Persistence With Hibernate Second Edition
 - Personalized Recommendations
 - Java Persistence With Hibernate Second Edition User Reviews and Ratings
 - Java Persistence With Hibernate Second Edition and Bestseller Lists
5. Accessing Java Persistence With Hibernate Second Edition Free and Paid eBooks

- Java Persistence With Hibernate Second Edition Public Domain eBooks
- Java Persistence With Hibernate Second Edition eBook Subscription Services
- Java Persistence With Hibernate Second Edition Budget-Friendly Options
- 6. Navigating Java Persistence With Hibernate Second Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Java Persistence With Hibernate Second Edition Compatibility with Devices
 - Java Persistence With Hibernate Second Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Java Persistence With Hibernate Second Edition
 - Highlighting and Note-Taking Java Persistence With Hibernate Second Edition
 - Interactive Elements Java Persistence With Hibernate Second Edition
- 8. Staying Engaged with Java Persistence With Hibernate Second Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Java Persistence With Hibernate Second Edition
- 9. Balancing eBooks and Physical Books Java Persistence With Hibernate Second Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Java Persistence With Hibernate Second Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Java Persistence With Hibernate Second Edition
 - Setting Reading Goals Java Persistence With Hibernate Second Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Java Persistence With Hibernate Second Edition
 - Fact-Checking eBook Content of Java Persistence With Hibernate Second Edition
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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