MANNING

Java Persistence with Hibernate
Hibernate实战（第2版）

[德] Christian Bauer
[澳] Gavin King 著

杨春花 彭永康 俞黎敏 译

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Rob Harrop,Clarence Ho

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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,2023-04-18 Master Java persistence using the industry leading tools Spring Data and Hibernate In Java Persistence with Spring Data and Hibernate you will learn Mapping persistent classes value types and inheritance Mapping collections and entity associations Processing transactions with Spring Data and Hibernate Creating fetch plans strategies and profiles Filtering data Building Spring Data REST projects Using Java persistence with non relational databases Querying JPA with QueryDSL Testing Java persistence applications 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 Forewords by Dmitry Aleksandrov and Mohamed Taman About the technology Effectively managing application data is essential for any serious application Spring Data and Hibernate bridge the gap between object oriented code and relational data stores radically simplifying Java persistence By implementing the Java Persistence API JPA standard these powerful tools help you avoid common bugs related to state and application data storage About the book Java Persistence with Spring Data and Hibernate explores Java persistence using industry standard tools Hands on examples introduce object relational mapping and guide you through different mapping strategies to suit your needs Covering transactions persistent application testing and non relational databases this book is your go to resource for managing data in Java applications What s inside Mapping persistent classes value types and inheritance Creating fetch plans strategies and profiles Building Spring Data REST projects Querying JPA with QueryDSL About the reader For intermediate Java programmers About the author Catalin Tudose has more than 20 years of experience in the Java community Christian Bauer Gavin King and Gary Gregory are the authors of Java Persistence with Hibernate Second Edition on which this book is based Table of Contents PART 1 GETTING STARTED WITH ORM 1 Understanding object relational persistence 2 Starting a project 3 Domain models and metadata 4 Working with Spring Data JPA PART 2 MAPPING STRATEGIES 5 Mapping persistent classes 6 Mapping value types 7 Mapping inheritance 8 Mapping collections and entity associations 9 Advanced entity association mappings PART 3 TRANSACTIONAL DATA PROCESSING 10 Managing data 11 Transactions and concurrency 12 Fetch plans strategies and profiles 13 Filtering data PART 4 BUILDING JAVA PERSISTENCE APPLICATIONS WITH SPRING 14 Integrating JPA and Hibernate with Spring 15 Working with Spring Data JDBC 16 Working with Spring Data REST PART 5 BUILDING JAVA PERSISTENCE APPLICATIONS WITH SPRING 17 Working with Spring Data MongoDB 18 Working with Hibernate OGM PART 6 WRITING QUERIES AND TESTING JAVA

PERSISTENCE APPLICATIONS 19 Querying JPA with Querydsl 20 Testing Java persistence applications *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 JavaTM 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   *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   **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   *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 services Provides supplementary examples and tutorials   **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   **Hibernate Recipes** Gary Mak,Srinivas Guruzu,2010-08-11 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   *Java Persistence with Jpa 2.1* Daoqi Yang,2013-09 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   **Pro JPA 2** Mike Keith,Merrick Schincariol,2013-09-24 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   *Java Persistance 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   *GWT in Practice* Robert Cooper,Charlie Collins,2008-05-22 Google Web Toolkit in practice   *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   Proceedings ,2005   *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

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