

# JAVA PERSISTENCE WITH HIBERNATE

SECOND EDITION

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Foreword by Linda DeMichiel



# Java Persistence With Hibernate

**Rachel S Tattersall**



## **Java Persistence With Hibernate:**

*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 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

*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 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

**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

**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

**Advanced Java Persistence: Techniques and Best Practices with Hibernate** Adam Jones,2024-12-13 Unlock the full potential of Java persistence with Advanced Java Persistence Techniques and Best Practices with Hibernate This definitive guide offers an in depth exploration of Hibernate the leading ORM framework that has transformed Java application development With comprehensive coverage ranging from foundational concepts and configurations to advanced mappings query optimizations and performance tuning this book is meticulously crafted for Java developers architects and anyone eager to master Hibernate Advanced Java Persistence is structured to elevate your skills by detailing how to seamlessly integrate Hibernate into your Java projects for enhanced data handling and optimized application

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**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 [Rapid Java Persistence and Microservices](#) Raj Malhotra,2019-06-19 Gain all the essentials you need to create scalable microservices which will help you solve real challenges when deploying services into production This book will take you through creating a scalable data layer with polygot persistence You ll cover data access and query patterns in Spring and JPA in high performance environments As part of this topic you ll see the advantages of multiple persistence frameworks in Java and especially the easy persistence offered by NoSQL databases and reactive web solutions The last few chapters present advanced concepts that are useful for very high performance real time applications you ll implement applications using Spring s good support for Web sockets in their raw form as well as for connecting to message brokers such as RabbitMQ This can be useful for applications such as navigation systems and gaming platforms What You Will Learn Build end to end modern applications using microservices persistence essentials reactive web and other high performance concepts Master Spring s configuration options Secure microservices efficiently Monitor your services post deployment Who This Book Is For Java developers and architects interested in microservices **Jpa 101** Christopher Maki,2006-01-01 *Hibernate and Java Persistence API (JPA)*

*Fundamentals* Kevin Bowersox, 2015 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 mit Hibernate](#) Christian Bauer, Gavin King, 2007

[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 **Pro Spring Boot** Felipe Gutierrez, 2016-05-20 Quickly and productively develop complex Spring applications and microservices out of the box with minimal fuss on things like configurations This book will show you how to fully leverage the Spring Boot productivity suite of tools and how to apply them through the use of case studies Pro Spring Boot is your authoritative hands on practical guide for increasing your Spring Framework based enterprise Java and cloud application productivity while decreasing development time using the Spring Boot productivity suite of tools It's a no nonsense guide with case studies of increasing complexity throughout the book This book is written by Felipe Gutierrez a Spring expert consultant who works with Pivotal the company behind the popular Spring Framework What You Will Learn Write your first Spring Boot application Configure Spring Boot Use the Spring Boot Actuator Carry out web development with Spring Boot Build microservices with Spring Boot Handle databases and messaging with Spring Boot Test and deploy with Spring Boot Extend Spring Boot and its available plug ins Who This Book Is For Experienced Spring and Java developers

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**Pro Spring** Clarence Ho, Rob Harrop, Chris Schaefer, 2014-09-16 Pro Spring updates the perennial bestseller with the latest that the Spring Framework 4 has to offer Now in its fourth edition this popular book is by far the most comprehensive and definitive treatment of Spring available With Pro Spring you ll learn Spring basics and core topics and share 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 the various tiers or parts of an enterprise Java application transactions web and presentation 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 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 such as Hibernate Groovy MyBatis and more Spring now works with Java EE and JPA 2 as well After reading this definitive book you ll be armed with the power of Spring to build complex Spring applications top to bottom

*Just Hibernate* Madhusudhan Konda, 2014-06-05 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

**Pro Spring 5** Iuliana Cosmina, Rob Harrop, Chris Schaefer, Clarence Ho, 2017-10-11 Master Spring basics and core topics and share 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 the various tiers and parts of an enterprise Java application transactions web and presentation tiers deployment and much more A full sample application allows you to apply many of the technologies and techniques covered in Pro Spring 5 and see how they work together This book updates the perennial bestseller with the latest that the new Spring Framework 5 has to offer Now in its fifth edition this popular title is by far the most comprehensive and definitive treatment of Spring available It covers the new functional web framework and interoperability with Java 9 After reading this definitive book you ll be armed with the power of Spring to build complex Spring applications top to bottom 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 such as Hibernate, Groovy, MyBatis, and more. Spring now works with Java EE and JPA 2 as well. What You'll Learn: Discover what's new in Spring Framework 5. Use the Spring Framework with Java 9. Master data access and transactions. Work with the new functional web framework. Create microservices and other web services. Who This Book Is For: Experienced Java and enterprise Java developers and programmers. Some experience with Spring highly recommended.

**Beginning Hibernate**  
Joseph B. Ottinger, Jeff Linwood, Dave Minter, 2016-11-10. 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.

*Just Hibernate*  
Madhusudhan Konda, 2014. Annotation: 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 frameworks' 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.

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