

JAVA PERSISTENCE WITH HIBERNATE

SECOND EDITION

Christian Bauer
Gavin King
Gary Gregory

Foreword by Linda DeMichiel



Java Persistence With Hibernate Second Edition Meap

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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 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

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 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

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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 [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 [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 [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 **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 JPA* Daoqi Yang, 2010-03 This book introduces Java Persistence API 2.0 the latest Java technology on persisting Java objects into relational databases It is part of Java EE 6.0 standards but can be used in both Java SE and Java EE applications 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 for most Java applications with database access Using JPA Java Persistence API consists of two main tasks The first task is to map Java classes and their fields properties to relational database tables and columns The second task is to manipulate create read update and delete Java objects so that the underlying JPA implementation translates Java operations into JDBC calls and executes SQL statements behind the scene JPA provides many easy to use features such as optimistic locking pessimistic locking lazy loading object caching bean validation and listeners for transactional events which would be daunting tasks for a typical developer to implement when using JDBC JPA makes software development fun and leads to improved productivity The book is written for Java developers and architects who know Java programming but want to learn this new and standard technology It is also aimed at experienced JPA developers who may use this book as a reference This book tries to be easy to understand and provides many useful code examples Also it tries to be complete in JPA coverage It has a special chapter on JPA design patterns and performance tuning The author hopes to provide a valuable book for novice and experienced JPA developers <http://YangDaoqi.info> for information on source code download and errata *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 *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

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 techniques How to use the complete Entity Manager API How to create queries using the query language JPQL 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 Pro Jpa 2: Mastering The Java Persistence Api Mike Keith, Merrick Schincariol, 2010-01-06 Pro JPA 2 introduces explains and demonstrates how to use the new Java Persistence API JPA JPA provides Java developers with both the knowledge and insight needed to write Java applications that access relational databases through JPA All of 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 and be able to successfully code applications using JPA The book also serves as a reference guide during initial and later JPA application experiences *Java Persistence API u Hibernate* Кристиан Бауэр, Гэвин Кинг, Гэри Геропри, 2022-01-29 Java Persistence Hibernate Java SQL Java Hibernate Java **Java Persistence mit Hibernate** Christian Bauer, Gavin King, 2007 Mastering Hibernate Ramin Rad, 2016-05-16 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 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 JPA 2* Mike Keith, Merrick Schincariol, Jeremy Keith, 2011-01-28 Pro JPA 2 introduces explains and demonstrates how to use the Java Persistence API JPA JPA provides Java developers with both the knowledge and insight needed to write Java applications that access relational databases through JPA Authors Mike Keith and Merrick Schincariol take a hands on approach to teaching by giving examples to illustrate each concept of the API and showing how it is used in practice All of 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 and be able to successfully code applications using JPA The book also serves as a reference guide during initial and later JPA application experiences Hands on examples for all the aspects of the JPA specification based on the reference implementation of this specification A special section on migration to JPA 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

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