

Database Programming With Jdbc And Java

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Java Programming with Oracle JDBC -

Donald Bales 2002

JDBC is the key Java technology for relational database access. Oracle is arguably the most widely used relational database platform in the world. In this book, Donald Bales brings these two technologies together, and shows you how

to leverage the full power of Oracle's implementation of JDBC. You begin by learning the all-important mysteries of establishing database connections. This can be one of the most frustrating areas for programmers new to JDBC, and Donald covers it well with detailed information and examples showing how to make

database connections from applications, applets, Servlets, and even from Java programs running within the database itself. Next comes thorough coverage of JDBC's relational SQL features.

You'll learn how to issue SQL statements and get results back from the database, how to read and write data from large, streaming data types such as BLOBs, CLOBs, and BFILEs, and you'll learn how to interface with Oracle's other built-in programming language, PL/SQL. If you're taking advantage of the Oracle's relatively new ability to create object tables and column objects based on user-defined datatypes, you'll be pleased with Don's thorough treatment of this subject. Don shows you how to use JPublisher and JDBC to work seamlessly with Oracle database objects from within Java programs. You'll also learn how to access nested tables and arrays using JDBC. Donald concludes the book with a discussion of transaction management, locking, concurrency, and performance--topics that every professional JDBC programmer must be familiar with. If you

write Java programs to run against an Oracle database, this book is a must-have.

Oracle9i JDBC Programming - Jason Price 2002

Explains how to utilize JDBC (Java Database Connectivity) programs with Oracle 8i and Oracle 9i databases, describing Oracle extensions to JDBC, offering an overview of JDeveloper, introducing Oracle 9iAS Containers for Java, and providing a valuable overview of Oracle Java Tools and Java and Oracle Type Mappings. Original. (Advanced)

Database Design and Implementation - Edward Sciore 2020-02-27

This textbook examines database systems from the viewpoint of a software developer. This perspective makes it possible to investigate why database systems are the way they are. It is of course important to be able to write queries, but it is equally important to know how they are processed. We e.g. don't want to just use JDBC; we also want to know why the API contains the

classes and methods that it does. We need a sense of how hard is it to write a disk cache or logging facility. And what exactly is a database driver, anyway? The first two chapters provide a brief overview of database systems and their use. Chapter 1 discusses the purpose and features of a database system and introduces the Derby and SimpleDB systems. Chapter 2 explains how to write a database application using Java. It presents the basics of JDBC, which is the fundamental API for Java programs that interact with a database. In turn, Chapters 3-11 examine the internals of a typical database engine. Each chapter covers a different database component, starting with the lowest level of abstraction (the disk and file manager) and ending with the highest (the JDBC client interface); further, the respective chapter explains the main issues concerning the component, and considers possible design decisions. As a result, the reader can see exactly what services each component provides and how

it interacts with the other components in the system. By the end of this part, s/he will have witnessed the gradual development of a simple but completely functional system. The remaining four chapters then focus on efficient query processing, and focus on the sophisticated techniques and algorithms that can replace the simple design choices described earlier. Topics include indexing, sorting, intelligent buffer usage, and query optimization. This text is intended for upper-level undergraduate or beginning graduate courses in Computer Science. It assumes that the reader is comfortable with basic Java programming; advanced Java concepts (such as RMI and JDBC) are fully explained in the text. The respective chapters are complemented by “end-of-chapter readings” that discuss interesting ideas and research directions that went unmentioned in the text, and provide references to relevant web pages, research articles, reference manuals, and books. Conceptual and programming exercises

are also included at the end of each chapter. Students can apply their conceptual knowledge by examining the SimpleDB (a simple but fully functional database system created by the author and provided online) code and modifying it.

Java Data Access - Todd M. Thomas 2002-01-29
This hands-on guide shows Java developers how to access data with the new 3.0 Java Database Connectivity (JDBC) API, use LDAP-enabled directory services with Java Network Directory Services (JNDI), and manipulate XML data using Java APIs for XML Processing (JAXP). Pick up this book to acquire the skills needed to effectively create Java applications that can access a variety of data sources. Learn the basics of JDBC 3.0 and how it relates to the Java programming language as a whole. Then from this base, build your knowledge by reading about common advanced uses such as connection pooling, JSP implementations, and Enterprise JavaBeans. You will also gain an

awareness of several object oriented design patterns for implementing JDBC solutions, and gain a knowledge of JNDI and how to use it to store and retrieve data using LDAP.

Java Database Programming Bible - John O'Donahue 2002-08-16

Java Database Bible is a comprehensive approach to learning how to develop and implement a professional level Java 2 database program using the Java database connection API (JDBC 3.0). Includes an introduction to relational databases and designing database applications; covers interacting with a relational database using a Java program; and shows how to create and work with XML data storage using a Java program.

A Complete Java Database Training Course - Marc Loy 1997-08-17

Learn Web database programming the right way: hands-on!- Perfect for SQL programmers who need to provide access to a corporate database over the Web.- Covers both JDBC and

CGI.- Includes a copy of JDBC Developer's Resource by Art Taylor.- The interactive, multimedia CD-ROM course developed by the creators of Sun's own JDBC courseware!

Oracle Database Programming with Java -

Ying Bai 2022-08-08

Databases have become an integral part of modern life. Today's society is an information-driven society, and database technology has a direct impact on all aspects of daily life.

Decisions are routinely made by organizations based on the information collected and stored in databases. Database management systems such as Oracle are crucial to apply data in industrial or commercial systems. Equally crucial is a graphical user interface (GUI) to enable users to access and manipulate data in databases. The Apache NetBeans IDE with Java is an ideal candidate for developing a GUI with programming functionality. Oracle Database Programming with Java: Ideas, Designs, and Implementations is written for college students

and software programmers who want to develop practical and commercial database programming with Java and relational databases such as Oracle Database XE 18c. The book details practical considerations and applications of database programming with Java and is filled with authentic examples as well as detailed explanations. Advanced topics in Java Web like Java Web Applications and Java Web Services are covered in real project examples to show how to handle the database programming issues in the Apache NetBeans IDE environment. This book features: A real sample database, CSE _ DEPT, which is built with Oracle SQL Developer, provided and used throughout the book Step by step, detailed illustrations and descriptions of how to design and build a practical relational database Fundamental and advanced Java database programming techniques practical to both beginning students and experienced programmers Updated Java desktop and Web database programming techniques, such as Java

Enterprise Edition 7, JavaServer Pages, JavaServer Faces, Enterprise Java Beans, Web applications and Web services, including GlassFish and Tomcat Web servers More than 30 real database programming projects with detailed illustrations Actual JDBC APIs and JDBC drivers, along with code explanations Homework and selected solutions for each chapter to strengthen and improve students' learning and understanding of the topics they have studied

Expert Oracle JDBC Programming - R.M. Menon 2006-11-01

* First book on the market that covers building high-performance Java applications on the Oracle database—using the latest versions of both the Oracle database (10g) and the JDBC API (3.0). * Promotes and explains an "anti black box" approach to Oracle development complete with benchmark code) that will allow developers to write highly efficient, high performance Oracle JDBC applications. * A new book from the prestigious OakTable Press, which Apress will be

strongly promoting and supporting throughout 2004.

Oracle Database Programming Using Java and Web Services - Kuassi Mensah 2006

Provides a comprehensive handbook on Oracle database programming using Java and Web Services technologies, covering the latest features of Java, JDBC, SQLJ, Web Services, and Oracle Database 10g Release 2. Original.

(Advanced)

Step By Step Java GUI With JDBC & MySQL : Practical approach to build database desktop application with project based examples - Hamzan Wadi

This book comes as an answer for students, lecturers, or the general public who want to learn Java GUI programming starting from scratch. This book is suitable for beginner learners who want to learn Java GUI programming from the basic to the database level. This book is also present for JAVA learners who want to increase their level of making GUI-

based database applications for small, medium, or corporate businesses level. The discussion in this book is not wordy and not theoretical. Each discussion in this book is presented in a concise and clear brief, and directly to the example that implements the discussion. Beginner learners who want to learn through this book should not be afraid of losing understanding of the programming concepts, because this book in detail discusses the concepts of Java programming from the basic to the advanced level. By applying the concept of learning by doing, this book will guide you step by step to start Java GUI programming from the basics until you are able to create database applications using JDBC and MySQL. Here are the material that you will learn in this book.

CHAPTER 1 : This chapter will give you brief and clear introduction about how to create desktop application using Java GUI starting from how to setup your environments, create your first project, understand various control for your

form, and understand how to interact with your form using event handling. CHAPTER 2 : This chapter will discuss clearly about the concept and the implementatiton of data types and variables in Java GUI. CHAPTER 3 : This chapter will discuss in detail about how to make decisions or deal with a condition in the program. This chapter is the first step to deeper understanding of logics in programming. This chapter specifically discusses relational operators and logical operators, if statements, if-else statements, and switch-case statements, and how to implement all of these conditional statements using Java GUI. CHAPTER 4 : This chapter will discuss in detail the looping statements in Java including for statement, while statement, do-while statement, break statement, and continue statement. All of these looping statements will be implemented using Java GUI. CHAPTER 5 : This chapter will discuss how to use methods to group codes based on their fucitonality. This discussion will also be the

first step for programmers to learn how to create efficient program code. This chapter will discuss in detail the basics of methods, methods with return values, how to pass parameters to methods, how to overload your methods, and how to make recursive methods. CHAPTER 6 : This chapter will discuss in detail how to create and use arrays, read and write file operations, and how to display data stored in arrays or files in graphical form. CHAPTER 7 : This chapter will discuss in detail the basics of MySQL, how to access databases using JDBC and MySQL, and how to perform CRUD operations using JDBC and MySQL. CHAPTER 8 : In this chapter we will discuss more about Java GUI programming. This chapter will discuss in detail about how to make a program that consists of multi forms, how to create MDI application, and how to create report using iReport with data stored in a database.

JDBC - Art Taylor 2003

A comprehensive step-by-step tutorial for

mastering JDBC 3.0--a must have for database developers programming in Java. CD contains all sample code in the book.

JDBC API Tutorial and Reference - Maydene Fisher 2003

bull; A comprehensive tutorial AND useful rufescence in one volume bull; Includes multiple explanations and examples for the new features of the JDBC 3.0 specification bull; Written by the JDBC 3.0 architects, Maydene Fisher, Jon Ellis and Jonathan Bruce

JDBC 3.0 - Bernard Van Haecke 2002-01-29

This essential guide offers serious Java developers a focused resource on using JDBC 3 to build robust, enterprise-class applications for the Internet or intranet. This title provides a step-by-step tutorial on the JDBC 3 API, as well as many examples and discussions about advanced techniques. It also provides a complete reference of the API's packages and extensions. Powerful and enhanced new features are covered: Batch updates, DataSource object,

transaction savepoints, connection pooling, distributed transaction support, XA compatibility, types of ResultSets, holdable cursors, SQL99 types, scalar functions, CLOB, array, reference and datalink objects, customized type mapping, transform groups, ParameterMetaData API, auto generated keys, and more.

Java Programming with Oracle SQLJ - Jason Price 2001

If you're a Java programmer working in an Oracle environment, you're probably familiar with JDBC as a means of accessing data within an Oracle database. SQLJ takes you further, allowing you to access a database using embedded SQL statements. Java Programming with Oracle SQLJ shows you how to get the most out of SQLJ. Layered on top of JDBC, SQLJ greatly simplifies database programming. Rather than make several calls to the JDBC API just to execute a simple SQL statement, SQLJ executes that statement simply by embedding it within

the Java code. In this book, Jason Price explains SQLJ programming from a task-oriented point of view. You'll learn how to: Embed queries and other SQL statements within Java programs Deploy SQLJ code not only on client machines, but also to JServer--Oracle's Java engine built into the database Use advanced techniques for working with collections, streams, large objects, and database objects, all without leaving the comfort of the SQLJ environment Tune SQLJ programs for maximum performance Throughout the book, the exposition of SQLJ and SQLJ programming techniques reflects the author's many years of professional experience as a programmer and consultant. Examples are first-rate, enabling you to learn SQLJ in no time. If you're writing Java code to access an Oracle database, you can't afford not to know about SQLJ.

JDBC Recipes - Mahmoud Parsian 2005-09-14
* The only standard size JDBC "cookbook" in market with clear specification of problems and

ready-to-be-used working code solutions (in a cut-and-paste fashion) that work for at least two leading databases such as MySQL and Oracle. • Most existing JDBC-related books provide only generic solutions, which might not work on any vendor's database. This book shows the importance of "vendor" factor for solving JDBC problems. • Complete coverage of database and result set "metadata" (which is missing from most JDBC books).

SQL in a Nutshell - Kevin Kline 2004-09-24

SQL in a Nutshell applies the eminently useful "Nutshell" format to Structured Query Language (SQL), the elegant--but complex--descriptive language that is used to create and manipulate large stores of data. For SQL programmers, analysts, and database administrators, the new second edition of SQL in a Nutshell is the essential date language reference for the world's top SQL database products. SQL in a Nutshell is a lean, focused, and thoroughly comprehensive reference for those who live in a deadline-driven

world. This invaluable desktop quick reference drills down and documents every SQL command and how to use it in both commercial (Oracle, DB2, and Microsoft SQL Server) and open source implementations (PostgreSQL, and MySQL). It describes every command and reference and includes the command syntax (by vendor, if the syntax differs across implementations), a clear description, and practical examples that illustrate important concepts and uses. And it also explains how the leading commercial and open sources database product implement SQL. This wealth of information is packed into a succinct, comprehensive, and extraordinarily easy-to-use format that covers the SQL syntax of no less than 4 different databases. When you need fast, accurate, detailed, and up-to-date SQL information, SQL in a Nutshell, Second Edition will be the quick reference you'll reach for every time. SQL in a Nutshell is small enough to keep by your keyboard, and concise (as well as clearly

organized) enough that you can look up the syntax you need quickly without having to wade through a lot of useless fluff. You won't want to work on a project involving SQL without it.

R2DBC Revealed - Robert Hedgpeth

2021-04-15

Understand the newest trend in database programming for developers working in Java, Kotlin, Clojure, and other JVM-based languages. This book introduces Reactive Relational Database Connectivity (R2DBC), a modern way of connecting to and querying relational databases from Java and other JVM languages. The book begins by helping you understand not only what reactive programming is, but why it is necessary. Then building on those fundamentals, the book takes you into the world of databases and the newly released Reactive Relational Database Connectivity (R2DBC) specification. Examples in the book are worked using the freely available MariaDB database along with MariaDB's vendor-implementation of the R2DBC

service-provider interface (SPI). Following along with the examples and the provided example code helps prepare you to work with any of the growing number of R2DBC implementations for popular enterprise databases such as Oracle Database and SQL Server. You'll be well prepared for what is becoming the future of database access from Java and other languages built on the JVM. What You Will Learn Understand why R2DBC was created and how it utilizes the Reactive Streams API Understand the components of the R2DBC service-provider interface Create and manage reactive database connections and connection pools using an R2DBC client Programmatically execute queries on a relational database using an R2DBC client Effectively utilize transactions using an R2DBC client Build relational database-driven applications that are event-driven and non-blocking Who This Book Is For Software developers building solutions using JVM languages and the JVM ecosystem, and

developers who need an introduction to the R2DBC specification and reactive programming with relational databases and want to understand what Reactive Relational Database Connectivity is and why it came about. This book includes practical examples of using the R2DBC specification with Java and MariaDB that will provide developers with the knowledge they need to create their own solutions.

Java Database Best Practices - George Reese
2003

Enterprise applications are about data-whether it is information about a product, the details of a user's credit card, or the color that customers prefer for their auto purchases. And as the importance of data has grown, so has the complexity of accessing that data. Java programmers now must choose between an alphabet soup of APIS and technologies - EJB, JDO, JDBC, SQL, RDBMS, OOIDMBS, and more on the horizon. Until now, developers have been left on their own to determine which model best

suits their application, and how best to use their chosen API. *Java Database Best Practices* rescues developers from having to wade through books on each of the various APIS before they figure out which method to use! This comprehensive guide introduces each of the dominant APIs (Enterprise JavaBeans, Java Data Objects, the Java Database Connectivity API (JDBC) as well as other, lesser-known options), explores the methodology and design components that use those APIS, and then offers practices most appropriate for different types and makes of databases, as well as different types of applications. *Java Database Best Practices* also examines database design, from table and database architecture to normalization, and offers a number of best practices for handling these tasks. You'll learn how to move through the various forms of normalization, understand when to denormalize, and even get detailed instructions on optimizing your SQL queries to make the best use of your

database structure. Through it all, this book focuses on practical application of these techniques, giving you information that can immediately be applied to your own enterprise projects.

Practical Database Programming with Java - Ying Bai 2011-09-09

Covers fundamental and advanced Java database programming techniques for beginning and experienced readers This book covers the practical considerations and applications in database programming using Java NetBeans IDE, JavaServer Pages, JavaServer Faces, and Java Beans, and comes complete with authentic examples and detailed explanations. Two data-action methods are developed and presented in this important resource. With Java Persistence API and plug-in Tools, readers are directed step by step through the entire database programming development process and will be able to design and build professional data-action projects with a few lines of code in mere

minutes. The second method, runtime object, allows readers to design and build more sophisticated and practical Java database applications. Advanced and updated Java database programming techniques such as Java Enterprise Edition development kits, Enterprise Java Beans, JavaServer Pages, JavaServer Faces, Java RowSet Object, and JavaUpdatable ResultSet are also discussed and implemented with numerous example projects. Ideal for classroom and professional training use, this text also features: A detailed introduction to NetBeans Integrated Development Environment Java web-based database programming techniques (web applications and web services) More than thirty detailed, real-life sample projects analyzed via line-by-line illustrations Problems and solutions for each chapter A wealth of supplemental material available for download from the book's ftp site, including PowerPoint slides, solution manual, JSP pages, sample image

files, and sample databases Coverage of two popular database systems: SQL Server 2008 and Oracle This book provides undergraduate and graduate students as well as database programmers and software engineers with the necessary tools to handle the database programming issues in the Java NetBeans environment. To obtain instructor materials please send an email to: pressbooks@ieee.org
Managing & Using MySQL - George Reese 2002

Covers topics including installation, configuration, sorting, database design, transaction performance, security, Perl, PHP scripting, and Java.

Java 2 Database Programming For Dummies - James Edward Keogh 2001-10-15

Java 2 Database Programming For Dummies shows you how to design, develop, and interact with a database using the Java programming language. This is the perfect book for those who know the basics of Java programming but have

little or no experience creating and accessing a database in Java. The companion CD contains the source code for all the code fragments and examples in the book plus powerful tools, applets, drivers, and utilities.

MySQL in a Nutshell - Russell J.T. Dyer 2008-04-15

When you need to find the right SQL keyword or MySQL client command-line option right away, turn to this convenient reference, known for the same speed and flexibility as the system it covers so thoroughly. MySQL is packed with so many capabilities that the odds of remembering a particular function or statement at the right moment are pretty slim. With MySQL in a Nutshell, you get the details you need, day in and day out, in one concise and extremely well organized book. The new edition contains all the commands and programming information for version 5.1, including new features and language interfaces. It's ideal for anyone using MySQL, from novices who need to get up to

speed to advanced users who want a handy reference. Like all O'Reilly Nutshell references, it's easy to use and highly authoritative, written by the editor of the MySQL Knowledge Base at MySQL AB, the creator and owner of MySQL. Inside, you'll find: A thorough reference to MySQL statements, functions, and administrative utilities Several tutorial chapters to help newcomers get started Programming language APIs for PHP, Perl, and C Brief tutorials at the beginning of each API chapter to help anyone, regardless of experience level, understand and master unfamiliar territory New chapters on replication, triggers, and stored procedures Plenty of new examples of how MySQL is used in practice Useful tips to help you get through the most difficult subjects Whether you employ MySQL in a mission-critical, heavy-use environment or for applications that are more modest, this book puts a wealth of easy-to-find information at your fingertips, saving you hundreds of hours of trial

and error and tedious online searching. If you're ready to take advantage of everything MySQL has to offer, MySQL in a Nutshell has precisely what it takes.

Java Database Programming - Brian Jepson
1996-11-22

A complete guide to mastering the next generation of database programming technologies Java Database Programming teaches you the critical new Java database technologies and tools, including Sun Microsystems' Java Database Connectivity (JDBC) standard. You'll learn practical, step-by-step techniques with which you can harness the Java programming language. You will also learn how to create dynamic database applications and applets in both Internet and Intranet environments. Java Database Programming explains: How Java programs access online databases Integrating Java with networked database technologies Programming with JDBC How to develop JDBC drivers Java database tools

and code libraries Java Database Programming is the innovative and hands-on book that will enable you to apply Java to real-world Internet and Intranet development. On the Java Database Programming supporting Web site, you'll find: tinySQL, a generic and extendable SQL engine written in Java The tinySQL JDBC driver Customizable Java database code Visit our Web site at: [http://www.wiley.com/compbooks/JDBC Developer's Resource](http://www.wiley.com/compbooks/JDBC_Developer's_Resource) - Art Taylor 1997 The sixth title in the fast-selling "Resource Series" this "Developer's Resource" shows how to use and maximize the utility of the Java Programming language with relational databases. The CD-ROM contains Mojo, a rapid application development tool for Java, JDK 1.1, and JDBC/ODBC drivers from Visigenic.

Java Database Programming with JDBC - Pratik Patel 1996

This text presents the JDBC standard, Java's database connectivity environment, and provides information for using Java with JDBC for

accessing databases. The manual is designed for users who are learning database programming for the Internet or company In [LEARN JDBC THE HARD WAY: A Hands-On Reference to MySQL and SQL Server Driven Programming](#) - Vivian Siahaan 2019-11-23 This hands-on tutorial/reference/guide to MySQL and SQL Server is not only perfect for students and beginners, but it also works for experienced developers who aren't getting the most from MySQL and SQL Server. As you would expect, this book shows how to build from scratch two different databases: MySQL and SQL Server using Java. In designing a GUI and as an IDE, you will make use of the NetBeans tool. In the first chapter, you will learn: How to install NetBeans, JDK 11, and MySQL Connector/J; How to integrate external libraries into projects; How the basic MySQL commands are used; How to query statements to create databases, create tables, fill tables, and manipulate table contents is done. In the second chapter, you will study:

Creating the initial three table projects in the school database: Teacher table, TClass table, and Subject table; Creating database configuration files; Creating a Java GUI for viewing and navigating the contents of each table; Creating a Java GUI for inserting and editing tables; and Creating a Java GUI to join and query the three tables. In the third chapter, you will learn: Creating the main form to connect all forms; Creating a project will add three more tables to the school database: the Student table, the Parent table, and Tuition table; Creating a Java GUI to view and navigate the contents of each table; Creating a Java GUI for editing, inserting, and deleting records in each table; Creating a Java GUI to join and query the three tables and all six. In chapter four, you will study how to query the six tables. In chapter five, you will be taught how to create Crime database and its tables. In chapter six, you will be taught how to extract image features, utilizing BufferedImage class, in Java GUI. In

chapter seven, you will be taught to create Java GUI to view, edit, insert, and delete Suspect table data. This table has eleven columns: suspect_id (primary key), suspect_name, birth_date, case_date, report_date, suspect_status, arrest_date, mother_name, address, telephone, and photo. In chapter eight, you will be taught to create Java GUI to view, edit, insert, and delete Feature_Extraction table data. This table has eight columns: feature_id (primary key), suspect_id (foreign key), feature1, feature2, feature3, feature4, feature5, and feature6. In chapter nine, you will add two tables: Police_Station and Investigator. These two tables will later be joined to Suspect table through another table, File_Case, which will be built in the seventh chapter. The Police_Station has six columns: police_station_id (primary key), location, city, province, telephone, and photo. The Investigator has eight columns: investigator_id (primary key), investigator_name, rank, birth_date, gender, address, telephone,

and photo. Here, you will design a Java GUI to display, edit, fill, and delete data in both tables. In chapter ten, you will add two tables: Victim and File_Case. The File_Case table will connect four other tables: Suspect, Police_Station, Investigator and Victim. The Victim table has nine columns: victim_id (primary key), victim_name, crime_type, birth_date, crime_date, gender, address, telephone, and photo. The File_Case has seven columns: file_case_id (primary key), suspect_id (foreign key), police_station_id (foreign key), investigator_id (foreign key), victim_id (foreign key), status, and description. Here, you will also design a Java GUI to display, edit, fill, and delete data in both tables. Finally, this book is hopefully useful and can improve database programming skills for every Java/MySQL/SQL SERVER programmer. ORACLE 9I JAVA, - HOLM 2001-12-23

While the integration of a Java Virtual Machine into the Oracle database has provided a whole host of new opportunities and challenges to the

Oracle developer and DBA, it has also provoked much debate as to when it makes sense to exploit this feature. This book clearly demonstrates many practical, real-world applications that developers can put to immediate use in their day-to-day jobs. With Java and Oracle, the developer can now compress LOBs, use multicast sockets to automatically alert clients when data has changed, and run an FTP Java client in the database, to name but a few of the examples covered here. In addition, this book gives in-depth consideration to the question of when it is appropriate to use Java from a performance perspective, including benchmarks. Who is this book for? This book is for experienced Oracle developers looking to exploit Java. It will be of interest to DBAs who need to know how Java is likely to be used inside the database and how this affects them, and also to Java developers looking to apply their knowledge in the Oracle database. Knowledge of SQL, PL/SQL, and Oracle architecture is

assumed. If you are relatively new to Java, then the explanations in the text should allow you to grasp all of the fundamental issues discussed. This book is ideal for an Oracle developer migrating from C to Java. What does this book cover? Java messaging and image generation utilities; Solutions using PL/SQL and Java together; Use of operating system resources; Java application performance; Benchmarks for SQL execution in PL/SQL and Java; Oracle JDBC and SQLJ; A Java tutorial for PL/SQL programmers.

Java Database Best Practices - George Reese
2003-05-14

When creating complex Java enterprise applications, do you spend a lot of time thumbing through a myriad of books and other resources searching for what you hope will be the API that's right for the project at hand? Java Database Best Practices rescues you from having to wade through books on each of the various APIs before figuring out which method

to use! This comprehensive guide introduces each of the dominant APIs (Enterprise JavaBeans, Java Data Objects, the Java Database Connectivity API (JDBC) as well as other, lesser-known options), explores the methodology and design components that use those APIs, and then offers practices most appropriate for different types and makes of databases, as well as different types of applications. Java Database Practices also examines database design, from table and database architecture to normalization, and offers a number of best practices for handling these tasks as well. Learn how to move through the various forms of normalization, understand when to denormalize, and even get detailed instructions on optimizing your SQL queries to make the best use of your database structure. Through it all, this book focuses on practical application of these techniques, giving you information that can immediately be applied to your own enterprise projects. Enterprise applications in today's world

are about data-- whether it be information about a product to buy, a user's credit card information, or the color that a customer prefers for their auto purchases. And just as data has grown in importance, the task of accessing that data has grown in complexity. Until now, you have been left on your own to determine which model best suits your application, and how best to use your chosen API. Java Database Practices is the one stop reference book to help you determine what's appropriate for your specific project at hand. Whether it's choosing between an alphabet soup of APIs and technologies--EJB, JDO, JDBC, SQL, RDBMS, OODBMS, and more on the horizon, this book is an indispensable resource you can't do without.

JDBC - Gregory D. Speegle 2002

1 -- Introduction to JDBC -- 2 -- Presenting Information to Users -- 3 -- Querying the Database -- 4 -- Updating the Database -- 5 -- Advanced JDBC Topics -- 6 -- An eCommerce Example -- 7 -- How to Stay Current with JDBC --

8 -- Appendix.

IMS 11 Open Database - Paolo Bruni 2010-08-12
IMSTM Version 11 continues to provide the leadership in performance, reliability, and security that is expected from the product of choice for critical online operational applications. IMS 11 also offers new functions to help you keep pace with the evolving IT industry. Through the introduction of the new IMS Enterprise Suite application developers with minimal knowledge of IMS Connect can start developing client applications to communicate with IMS. With Open Database, IMS 11 also provides direct SQL access to IMS data from programs that run on any distributed platform, unlocking DL/I data to the world of SQL application programmers. In this IBM® Redbooks® publication, system programmers get the steps for installing the new IMS components, and the application programmer can follow scenarios of how client applications can take advantage of SQL to access IMS data.

We describe the installation of prerequisites, such as IMS Connect and the Structured Call Interface component of Common Service Layer address space and document the set up of the three new IMS drivers: - Universal DB resource adapter - Universal JDBC driver - Universal DL/I driver Our scenarios use the JDBC driver for type-4 access from Windows® to a remote DL/I database and DB2® tables and extend it to use IBM Mashup Center to provide an effective Web interface and to integrate with Open Database. Important: IMS Enterprise Suite V2.1 is the last release of the IMS Enterprise Suite that includes the DLIModel utility plug-in. Customers should migrate to using IMS Enterprise Suite V2.2 or later, which includes the IMS Enterprise Suite Explorer for Development. DLIModel utility projects can be imported into new IMS Explorer projects. In this book, any references to generating IMS metadata classes by using the DLIModel utility are comparable to the actions used to generate the classes using the IMS

Explorer for Development.

Java Enterprise in a Nutshell - Jim Farley 2006

A tutorial and reference to Java-based APIs for application software development covers such topics as XDoclet, JavaServer Faces, Hibernate API, Enterprise JavaBeans, and J2EE security.

MySQL and Java Developer's Guide - Mark Matthews 2003-03-14

Shows Java developers everything they need to know to build Java database applications with MySQL. Takes a hands-on, code-intensive approach in which readers will learn how to build a sophisticated Web database management application. Begins with a review of the fundamentals of MySQL. Explains using Java's JDBC with MySQL, as well as servlet and JSP programming with MySQL. Provides a code-rich tutorial on how to build the sample Java database application using EJBs. The companion Web site provides the full code examples plus links to useful sites.

Database Programming with JDBC and Java -

George Reese 2000

A guide to the java.sql package demonstrates variables, methods, client-server architecture, three-tier database access, JDBC, query optimization, and interface design.

JDBC Metadata, MySQL, and Oracle Recipes

- Mahmoud Parsian 2006-03

First book to market on metadata specific recipes related to JDBC and its use with MySQL and Oracle, databases standard to Java.

Compliant with the new Java EE 5. Provides cut and paste code templates that can be immediately customized and applied in each developer's application development.

Understanding SQL and Java Together - Jim Melton 2000

With the growth of Java and the rise of database-powered Web applications, the need to use Java with SQL is clear. Until now, authoritative coverage of the techniques available to meet these challenges and reap their benefits-both programming and career benefits-didn't exist.

Understanding SQL and Java Together examines all the standards for combining SQL and Java. It shows you exactly how to use their features to write efficient and effective code supporting Java access to SQL data in a variety of ways. You'll gain a thorough understanding of the relationship between SQL and Java, which will allow you to write static and dynamic SQL programs in Java, merge Java code with SQL databases and SQL code, and use other data management techniques wherever appropriate. * Covers all the technologies for using SQL and Java together, including JDBC, Java Blend, and SQLJ Parts 0, 1, and 2 * Explains how to embed SQL code in Java and take advantage of Java's ability to compile that code for a specific DBMS * Explains how to store and invoke Java routines in an SQL database-and how to store Java objects in an SQL database for seamless interchange among application layers * Covers dynamic SQL access techniques using JDBC and advantageous ways to combine static and

dynamic SQL * Comes with a CD-ROM containing Oracle's JDeveloper , Sybase's Adaptive Server Anywhere, Informix's Cloudscape, the complete database schema, and the complete text of most of the examples

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.

Java Database Programming - Brian Jepson 1997

Java Database Programming teaches you the critical new Java database technologies and tools, including Sun Microsystems' Java Database Connectivity (JDBC) standard. You'll

learn practical, step-by-step techniques with which you can harness the Java programming language. You will also learn how to create dynamic database applications and applets in both Internet and Intranet environments.

SQL Database Programming with Java - Bill McCarty 1998

This book will teach you what you need to know about JDBC and SQL, so that you can design and program database applications that can reach users around the world. Unlike other books aimed at systems programmers writing JDBC drivers, this book addresses the needs of the application developer.

JDBC Tutorials - Herong's Tutorial Examples - Herong Yang 2020-03-01

This JDBC tutorial book is a collection of notes and sample codes written by the author while he was learning JDBC technology himself. Topics include introduction to JDBC driver; installing JDK on Windows and other systems; Using Derby (Java DB) JDBC Driver; Using MySQL JDBC

Driver (MySQL Connector/J); Using Oracle JDBC Driver; Using SQL Server JDBC Driver; Using JDBC-ODBC Bridge Driver. Updated in 2020 (Version 3.10) with JDBC 4.3.

Oracle Database Programming using Java and Web Services - Kuassi Mensah 2011-04-08

The traditional division of labor between the database (which only stores and manages SQL and XML data for fast, easy data search and retrieval) and the application server (which runs application or business logic, and presentation logic) is obsolete. Although the book's primary focus is on programming the Oracle Database, the concepts and techniques provided apply to most RDBMS that support Java including Oracle, DB2, Sybase, MySQL, and PostgreSQL. This is the first book to cover new Java, JDBC, SQLJ, JPublisher and Web Services features in Oracle Database 10g Release 2 (the coverage starts with Oracle 9i Release 2). This book is a must-read for database developers audience (DBAs, database applications developers, data

architects), Java developers (JDBC, SQLJ, J2EE, and OR Mapping frameworks), and to the emerging Web Services assemblers. Describes pragmatic solutions, advanced database applications, as well as provision of a wealth of code samples. Addresses programming models which run within the database as well as programming models which run in middle-tier or client-tier against the database. Discusses languages for stored procedures: when to use proprietary languages such as PL/SQL and when to use standard languages such as Java; also running non-Java scripting languages in the database. Describes the Java runtime in the Oracle database 10g (i.e., OracleJVM), its architecture, memory management, security management, threading, Java execution, the Native Compiler (i.e., NCOMP), how to make

Java known to SQL and PL/SQL, data types mapping, how to call-out to external Web components, EJB components, ERP frameworks, and external databases. Describes JDBC programming and the new Oracle JDBC 10g features, its advanced connection services (pooling, failover, load-balancing, and the fast database event notification mechanism) for clustered databases (RAC) in Grid environments. Describes SQLJ programming and the latest Oracle SQLJ 10g features , contrasting it with JDBC. Describes the latest Database Web services features, Web services concepts and Services Oriented Architecture (SOA) for DBA, the database as Web services provider and the database as Web services consumer. Abridged coverage of JPublisher 10g, a versatile complement to JDBC, SQLJ and Database Web Services.