



**Java**

**JDBC**

A black double-headed horizontal arrow is positioned below the text 'JDBC', indicating a bidirectional relationship between the Java logo and the database icon.

**Database**

# Database Programming With Jdbc And Java

**Judd E. Hollander**



## **Database Programming With Jdbc And Java:**

**Database Programming with JDBC and Java** George Reese,2000 Java and databases make a powerful combination Getting the two sides to work together however takes some effort largely because Java deals in objects while most databases do not This book describes the standard Java interfaces that make portable object oriented access to relational databases possible and offers a robust model for writing applications that are easy to maintain It introduces the JDBC and RMI packages and uses them to develop three tier applications applications divided into a user interface an object oriented logic component and an information store The book begins with a quick overview of SQL for developers who may be asked to handle a database for the first time It then explains how to issue database queries and updates through SQL and JDBC It also covers the use of stored procedures and other measures to improve efficiency where these are available But the book s key contribution is a set of patterns that let developers isolate critical tasks like object creation information storage and retrieval and the committing or aborting of transactions The second edition includes more basics of JDBC and SQL with more examples and a deeper discussion about the architecture of a robust maintainable database application The second edition also explains the relationship between JDBC and Enterprise JavaBeans

[Database Programming with JDBC and Java](#) George Reese,2000 This book describes the standard Java interfaces that make portable object oriented access to relational databases possible and offers a robust model for writing applications that are easy to maintain The second edition has been completely updated for JDBC 2 0 and includes reference listings for JDBC and the most important RMI classes The book begins with a quick overview of SQL for developers who may be asked to handle a database for the first time and goes on to explain how to issue database queries and updates through SQL and JDBC

*Database Programming with JDBC and Java* George Reese,1997 Software Programming Languages *Java Database Programming with JDBC* Pratik Patel,Karl Moss,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

[Database Programming with JDBC & Java, Second Edition](#) George Reese,2000 Java and databases make a powerful combination Getting the two sides to work together however takes some effort largely because Java deals in objects while most databases do not This book describes the standard Java interfaces that make portable object oriented access to relational databases possible and offers a robust model for writing applications that are easy to maintain It introduces the JDBC and RMI packages and uses them to develop three tier applications applications divided into a user interface an object oriented logic component and an information store The book begins with a quick overview of SQL for developers who may be asked to handle a database for the first time It then explains how to issue database queries and updates through SQL and JDBC It also covers the use of stored procedures and other measures to improve efficiency where these are available But the book s key contribution is a set of patterns that let developers isolate critical tasks like object

creation information storage and retrieval and the committing or aborting of transactions The second edition includes more basics of JDBC and SQL with more examples and a deeper discussion about the architecture of a robust maintainable database application The second edition also explains the relationship between JDBC and Enterprise JavaBeans *Java Database Programming With Jdbc 2nd Edition* Pratik Patel, Karl Moss, Java database Programming with JDBC 2nd edition takes you project by project into the world of internet database programming using Java the hottest programming language today and the new Java Database Connectivity JDBC specification Essential for making Java and database programmers who want to enter the cutting edge field of Web development **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 **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 books 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

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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

**The Complete Guide to Java Database Programming** Matthew D. Siple, 1998 Presenting the complete in depth guide to JDBC Java Database Connectivity the key to creating a new generation of data rich Java applications and the new standard that database vendors

from Oracle to Sybase are lining up to support North explains the how to s of JDBC and covers its relationship with ODBC  
The CD contains sample code written to the JDBC and ODBC APIs SQL Database Programming with Java Bill  
McCarty,1998 Practical instruction is given on creating database applications with Java SQL and JDBC The book shows how  
to design and build Internet capable client server systems The CD ROM features complete Java programs that use SQL tools  
and resources for Web database developers plus shareware and freeware Java and SQL development tools *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 **Java Programming For  
Developers: The Definitive Guide to Learn JDBC And Database Applications** Vivian Siahaan,Rismon Hasiholan  
Sianipar,2019-11-28 This step by step guide to explore database programming using Java is ideal for people with little or no  
programming experience The goal of this concise book is not just to teach you Java but to help you think like a programmer  
Each brief chapter covers the material for one week of a college course to help you practice what you ve learned As you  
would expect this book shows how to build from scratch two different databases MariaDB and SQLite 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 the basics of cryptography  
using Java Here you will learn how to write a Java program to count Hash MAC Message Authentication Code store keys in a  
KeyStore generate PrivateKey and PublicKey encrypt decrypt data and generate and verify digital prints In the second  
chapter you will learn how to create and store salt passwords and verify them You will create a Login table In this case you  
will see how to create a Java GUI using NetBeans to implement it In addition to the Login table in this chapter you will also  
create a Client table In the case of the Client table you will learn how to generate and save public and private keys into a  
database You will also learn how to encrypt decrypt data and save the results into a database In the third chapter you will  
create an Account table This account table has the following ten fields account\_id primary key client\_id primarykey  
account\_number account\_date account\_type plain\_balance cipher\_balance decipher\_balance digital\_signature and  
signature\_verification In this case you will learn how to implement generating and verifying digital prints and storing the  
results into a database In the fourth chapter You create a table with the name of the Account which has ten columns  
account\_id primary key client\_id primarykey account\_number account\_date account\_type plain\_balance cipher\_balance  
decipher\_balance digital\_signature and signature\_verification In the fifth chapter you will create a Client\_Data table which  
has the following seven fields client\_data\_id primary key account\_id primary\_key birth\_date address mother\_name telephone  
and photo\_path In chapter six you will be shown how to create SQLite database and tables with Java In chapter seven you  
will be taught how to extract image features utilizing BufferedImage class in Java GUI Digital image techniques to extract

image features used in this chapter are grayscale, sharpening, inverting, blurring, dilation, erosion, closing, opening, vertical prewitt, horizontal prewitt, Laplacian, horizontal sobel, and vertical sobel. For readers, you can develop it to store other advanced image features based on descriptors such as SIFT and others for developing descriptor-based matching. In chapter eight, you will be taught to create a 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 nine, you will be taught to create a 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. All six fields except keys will have a BLOB data type so that the image of the feature will be directly saved into this table. In chapter ten, you will add two tables: Police\_Station and Investigator. These two tables will later be joined to the 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 eleven, you will add two tables: Victim and Case\_File. 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 Case\_File has seven columns: case\_file\_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, MariaDB, SQLite programmer.

**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>.

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 funcitonality 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

**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

**Journal of Database Management** ,1999 Teach Yourself Database Programming with JDBC in 21 Days Ashton Hobbs,1997 Teach Yourself

WWW Database Programming with Java in 21 Days shows you how to turn your web page into a robust interactive repository of information and services CD ROM includes valuable source code and powerful utilities *JDBC Database Access with Java* Rick Cattell,1997-06-01 JDBC a means of connecting Java and databases is a low level platform independent application programming interface that facilitates database development with Java by providing an interface to the most commonly used database environments Written by the developers of JDBC this text provides a description of the JDBC API It covers the goals and philosophies of JDBC scenarios for use security considerations database connections passing parameters and receiving results mapping SQL data types into Java asynchrony threading transactions cursors SQL extensions variants and extensions JDBC interface definitions dynamc database access and more The text also includes a tutorial to help readers learn to use JDBC more quickly *MySQL and MSQl* Randy Jay Yarger,George Reese,Tim King,1999 A guide to the SQL based database applications covers installation configuration interfaces and administration

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