

Databases Jdbc I

* 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). JDBC--the Java Database Connectivity specification--is a complex set of application programming interfaces (APIs) that developers need to understand if they want their Java applications to work with databases. JDBC is so complex that even the most experienced developers need to refresh their memories from time to time on specific methods and details. But, practically speaking, who wants to stop and thumb through a weighty tutorial volume each time a question arises? The answer is the JDBC Pocket Reference, a data-packed quick reference that is both a time-saver and a lifesaver. The JDBC Pocket Reference offers quick look-ups for all methods of the standard JDBC classes. These include concise reviews of the procedures for common JDBC tasks such as connecting to a database, executing stored procedures, executing DDL and the like. You'll find documentation of the connect string formats for the most common databases, including Oracle, SQL-Server, and PostgreSQL. You'll even find information on working with large objects, and on using SQL99 user defined datatypes to work with object-relational data. Searching for this sort of material through large tutorials is frustrating and a waste of time, but this pocket-sized book is easy to take anywhere and

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makes finding the information you need a snap. O'Reilly's Pocket References have become a favorite among developers everywhere. By providing a wealth of important details in a concise, well-organized format, these handy books deliver just what you need to complete the task at hand. When you've reached a sticking point and need to get to the answer quickly, the new JDBC Pocket Reference is the book you'll want close at hand.

A hands-on tutorial walks readers through the steps necessary to publish table-based information on the WWW, covering database concepts and fundamentals, design issues, publishing databases, security, and performance. Original. (All Users).

From the creators of the JDBC API at JavaSoft, here is the definitive guide to this vital new technology. Appropriate for Java programmers of all skill levels, this book provides explanations of JDBC and Java fundamentals, a step-by-step tutorial to bring you up to speed, and an extensively annotated reference to all JDBC classes and interfaces.

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.

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

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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, dynamic database access, and more. The text also includes a tutorial to help readers learn to use JDBC more quickly.

Build, deploy, and manage robust Web-enabled database applications with Java! Integrate J2EE, Oracle, Linux, and legacy databases. Covers JDBC, RMI, Swing, Apache JServ, and much more. Practical techniques for enhancing reusability and day-to-day manageability. Need to build, enhance, integrate, or manage an enterprise-class Java-based distributed database system? Tired of "toy examples"? Want to see how everything fits together in a live, breathing system? Here's your chance. Stewart Birnam shows experienced professionals all they need to create and administer robust database applications leveraging Java technologies, and running on today's key platforms-Oracle 8.x and Linux. You won't just learn a laundry list of APIs and technologies: you'll master real-world strategies for integrating them in reliable, deployable systems-and discover proven solutions for the problems that stand in your way. Understand every issue associated with building scalable, efficient, multi-tier Java code, including server configuration, brokers, client interaction, and maximizing system price/performance. Make the most of Java's database APIs; and master powerful database access techniques, from queuing to complex joins, multimedia content delivery to Oracle-specific features. Learn how to build and administer RMI servers; streamline deployment and distribution of enterprise applications; maximize code reusability; and manage your distributed application as efficiently as possible. Stewart Birnam is a Senior Database/Systems Developer at a

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leading visual effects and computer animation company in northern California.

* 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.

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 :

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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 implementation 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 functionality. 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.

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.

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.

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.

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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.

JDBC API is a Java API that can access any kind of tabular data, especially data stored in a Relational Database. JDBC works with Java on a variety of platforms, such as Windows, Mac OS, and the various versions of UNIX. Why to Learn JDBC? JDBC stands for Java Database Connectivity, which is a standard Java API for database-independent connectivity between the Java programming language and a wide range of databases. This book is designed for Java programmers who would like to understand the JDBC framework in detail along with its architecture and actual usage. Before proceeding with this book, you should have a good understanding of Java programming language. As you are going to deal with RDBMS, you should have prior exposure to SQL and Database concepts. This title takes software developers through database

systems while covering the traditional database system concepts from a systems perspective. The chapters are organized according to the components of a database, starting from low-level disk access and ending at the query planner.

Describes how to read and manage data from relational databases such as MySQL and SQL Server using the Java Database Connectivity (JDBC) API in applications programmed with Java.

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

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

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.

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.

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. This book introduces the concept of Java Database Connectivity (JDBC). I felt, there is need to provide java database connectivity knowledge to students and programmer which will help to develop their applications. The book contents basic topics like database, SQL and java database connectivity in depth. This book has intended for student and developers of Java Database Connectivity-based applications. It describe how to make a bridge between front end and back end using java connectivity with introducing several features. It has also written for Java programmers who would like to understand the JDBC framework in detail along with its architecture.

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.

MySQL is a popular and robust open source database product that supports key subsets of SQL on both Linux and Unix systems. MySQL is free for nonprofit use and costs a small amount for commercial use. Unlike commercial databases, MySQL is affordable and easy to use. This book includes introductions to SQL and to relational database theory. If you plan to use MySQL to build web sites or other Linux or Unix applications, this book teaches you to do that, and it will remain useful as a reference once you understand the basics. Ample tutorial material and examples are included throughout. This book has all you need to take full advantage of this powerful database management system. It takes you through the whole process from installation and configuration to programming interfaces and database administration. This second edition has a greatly enhanced administration chapter that includes information on administrative tools, server configuration, server startup and shutdown, log file management, database backup and restore, and database administration and repair. In addition, a new chapter on security describes data, server, and client-server security, while a chapter on extending MySQL provides an overview of MySQL internals and describes the use of MySQL user-defined functions. If you know C/C++, Java, Perl, PHP, or Python, you can write programs to

interact with your MySQL database. In addition, you can embed queries and updates directly in an HTML file so that a web page becomes its own interface to the database. *Managing and Using MySQL* includes chapters on the programming language interfaces, and it also includes a complete reference section with specific function calls for each language. Also included in the reference section are references to the SQL language, and details of the MySQL system variables, programs, and utilities. New to the second edition is a reference to the internal MySQL tables, which will be of particular interest to those who want to work extensively with MySQL security.

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. Whether developers want to build mobile device apps for Android or web-based or desktop-based applications with the core Java SDK from Oracle, they must contend with the fact that many dynamic applications need to integrate data from a relational database. In this course, Frank Moley helps you get up to speed with the Java Database Connectivity (JDBC) API, showing how to use it to read and manage data from relational databases such as Postgres, Oracle Database, MySQL, and SQL Server in applications programmed with Java. Frank

begins by going over key JDBC terminology, the basics of configuring a PostgreSQL database, and how to create the course project. He then provides detailed instructions on how to select and update data, work with transactions, handle exceptions, and more.

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)

This book provides the definitive description of the JDBC API, the technology that enables universal data access for the Java programming language.

This new edition has been updated and expanded to cover all of the JDBC 2.0 API, including the JDBC 2.0 core API and the JDBC Standard Extension API, the package that facilitates building server-side applications. Containing in-depth explanations that go beyond the specification, this complete resource pairs a step-by-step tutorial with a comprehensive reference to all of the classes and interfaces. For those new to Java technology, this book includes an introduction to the Java programming language and to SQL. It builds on this basic knowledge to walk you through creating a JDBC application - from setting up a database and establishing a connection to

retrieving values from result sets and using prepared statements. In addition, the authors provide many examples along the way that demonstrate how to execute common tasks. It then proceeds to more advanced topics, focusing on the new features of the JDBC 2.0 API, including scrollable and updatable result sets, batch updates, SQL3 data types, custom mapping, and more.

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.

Learn how to read and manage data from relational databases such as Postgres, Oracle Database, MySQL, and SQL Server using Java Database Connectivity (JDBC) in applications programmed with Java.

A guide to the `java.sql` package demonstrates variables, methods, client-server architecture, three-

tier database access, JDBC, query optimization, and interface design.

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/>

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

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Taylor.- The interactive, multimedia CD-ROM course developed by the creators of Sun's own JDBC courseware! 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

This hands-on introduction to 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: MySQL 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: 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 shown how to create SQLite database and tables with Java. In chapter six, 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 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. 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 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 Case_File. The File_Case table will connect four other tables:

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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/MySQL/SQLite programmer.

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

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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.

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: PostgreSQL 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: How to install NetBeans, JDK 11, and the PostgreSQL connector; How to integrate external libraries into projects; How the basic PostgreSQL commands are used; How to query statements to create databases, create tables, fill tables, and manipulate table contents is done. In the first chapter, you will learn: How

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to install NetBeans, JDK 11, and the PostgreSQL connector; How to integrate external libraries into projects; How the basic PostgreSQL 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 learn querying data from the postgresql using jdbc including establishing a database connection, creating a statement object, executing the query, processing the resultset object, querying data using a statement that returns multiple rows, querying data using a statement that has parameters, inserting data into a table using jdbc, updating data in postgresql database using jdbc, calling postgresql stored function using jdbc, deleting data from a postgresql table using jdbc, and postgresql jdbc transaction. In chapter three, you will create a PostgreSQL database, named School, and its tables. In chapter four, 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 chapter five, 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 six, you will study how to query the six tables. In chapter seven, you will be shown how to create SQLite database and tables with Java. In chapter eight, 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

chapted are grascaling, sharpening, invertering, 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 nine, 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 ten, 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. 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 eleven, 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 twelve, 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),

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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/PostgreSQL/SQLite programmer.

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