

## Oracle Database Programming Using Java And Web Services

A hands-on book for Java developers who want to learn how use Oracle and integrate it with their Java applications. It assumes an intermediate knowledge of Java and no knowledge of Oracle. .3

Expert Oracle and Java Security: Programming Secure Oracle Database Applications with Java provides resources that every Java and Oracle database application programmer needs to ensure that they have guarded the security of the data and identities entrusted to them. You'll learn to consider potential vulnerabilities, and to apply best practices in secure Java and PL/SQL coding. Author David Coffin shows how to develop code to encrypt data in transit and at rest, to accomplish single sign-on with Oracle proxy connections, to generate and distribute two-factor authentication tokens from the Oracle server using pagers, cell phones (SMS), and e-mail, and to securely store and distribute Oracle application passwords. Early chapters lay the foundation for effective security in an Oracle/Java environment. Each of the later chapters brings example code to a point where it may be applied as-is to address application security issues. Templates for applications are also provided to help you bring colleagues up to the same secure application standards. If you are less familiar with either Java or Oracle PL/SQL, you will not be left behind; all the concepts in this book are introduced as to a novice and addressed as to an expert. Helps you protect



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plugins Discover how to utilize the new Kibana UI for advanced analytics See how to work with the Elastic Stack using other advanced configurations Customize the Elastic Stack and plugin development for each of the component Work with the Elastic Stack in a production environment Explore the various components of X-Pack in detail. In Detail Even structured data is useless if it can't help you to take strategic decisions and improve existing system. If you love to play with data, or your job requires you to process custom log formats, design a scalable analysis system, and manage logs to do real-time data analysis, this book is your one-stop solution. By combining the massively popular Elasticsearch, Logstash, Beats, and Kibana, elastic.co has advanced the end-to-end stack that delivers actionable insights in real time from almost any type of structured or unstructured data source. If your job requires you to process custom log formats, design a scalable analysis system, explore a variety of data, and manage logs, this book is your one-stop solution. You will learn how to create real-time dashboards and how to manage the life cycle of logs in detail through real-life scenarios. This book brushes up your basic knowledge on implementing the Elastic Stack and then dives deeper into complex and advanced implementations of the Elastic Stack. We'll help you to solve data analytics challenges using the Elastic Stack and provide practical steps on centralized logging and real-time analytics with the Elastic Stack in production. You will get to grip with advanced techniques for log analysis and visualization. Newly announced features such as Beats and X-Pack

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are also covered in detail with examples. Toward the end, you will see how to use the Elastic stack for real-world case studies and we'll show you some best practices and troubleshooting techniques for the Elastic Stack. Style and approach This practical guide shows you how to perform advanced analytics with the Elastic stack through real-world use cases. It includes common and some not so common scenarios to use the Elastic stack for data analysis.

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.

Take Your PL/SQL Programming Skills to the Next Level Build robust database-centric PL/SQL applications quickly and effectively. Oracle Database 12c PL/SQL Advanced Programming Techniques shows you how to write and deploy Java libraries inside Oracle Database 12c, use the `utl_file` and `DBMS_SCHEDULER` packages, and create external tables and external procedures. Application security, performance tuning, and Oracle Database In-Memory are also covered in this Oracle Press guide. Configure, deploy, and troubleshoot Java libraries for Oracle object types Use the `utl_file` package to manage unstructured and structured data Develop and deploy Java I/O libraries and wrap them with PL/SQL Create and use external tables Implement high-

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speed data transfer Harden database systems and develop secure applications Manage complex schedules and jobs with the DBMS\_SCHEDULER package Optimize PL/SQL for use in performance tuning Create and deploy external procedures Implement the Oracle Database In-Memory column store feature Programming with Oracle Developer is packed with expert advice, detailed explanations, and complete solutions that show you how to produce robust, precise, Internet-ready applications for developers. You'll get step-by-step guidance from prototyping through delivering a high-powered Internet application. After reading this book, the reader will Understand the nuts and bolts of building applications, including how to choose an appropriate application development life cycle Master design and prototyping issues including the new wizards and GUI design features of Developer forms, reports, and graphics Extend the reusability and optimize the security of your applications Deploy Internet applications and integrate them with other tools Create robust, Web-enabled Oracle applications

Considered the best Oracle PL/SQL programming guide by the Oracle community, this definitive guide is precisely what you need to make the most of Oracle's powerful procedural language. The sixth edition describes the features and capabilities of PL/SQL up through Oracle Database 12c Release 1. Hundreds of thousands of PL/SQL developers have benefited from this book over the last twenty years; this edition continues that tradition. With extensive code examples and a lively sense of humor, this book explains language

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fundamentals, explores advanced coding techniques, and offers best practices to help you solve real-world problems. Get PL/SQL programs up and running quickly, with clear instructions for executing, tracing, testing, debugging, and managing code Understand new 12.1 features, including the ACCESSIBLE\_BY clause, WITH FUNCTION and UDF pragma, BEQUEATH CURRENT\_USER for views, and new conditional compilation directives Take advantage of extensive code samples, from easy-to-follow examples to reusable packaged utilities Optimize PL/SQL performance with features like the function result cache and Oracle utilities such as PL/Scope and the PL/SQL hierarchical profiler Build modular, easy-to-maintain PL/SQL applications using packages, procedures, functions, and triggers Oracle Database Programming using Java and Web Services Digital Press

Grid architecture is Oracle's strategy for high-end computing and RAC is the stepping stone into this arena. This book focuses on current technology including all valid RAC features up through Oracle Database 10g Release 2, with a primary focus on deploying it in a high-end grid environment. The book discusses this technology at length which users will find beneficial when researching, implementing or monitoring a RAC environment. The author covers workshop implementation of services and the distribution of workload across instances, with threshold definitions and the new load balancing algorithms. In addition it includes detailed discussions on ASM that complements the implementation of RAC in Oracle Grid strategy. The book

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also includes discussions on new Oracle Clusterware, its components and its integration with RAC. Oracle 10g RAC focuses on RAC-specific topics including ASM, operating system configuration, installation and configuration of RAC and much more. Coverage includes network configuration for high availability, FAN, TAF, ONS, implementation of maximum availability architecture (MAA), EM Grid Control, AWR, ADDM and other performance-related tools. The author includes several scripts for performance tuning and implementation that the reader can use to configure a RAC environment either on a 2, 4, 8, 60 or 99 node configuration. Focuses on implementing, testing and tuning features of Real Application Clusters (RAC) database version 10g Release 2 Provides extensive coverage of usage, day-to-day functions and operations Includes tips and techniques such as script samples to illustrate various features of RAC A jumpstart into all the key features of 10g R2 RAC

Ramp Up Your PL/SQL Programming Skills Master PL/SQL through the hands-on exercises, extensive examples, and real-world projects inside this Oracle Press guide. Filled with best practices, Oracle Database 11g PL/SQL Programming Workbook covers all the latest features and enhancements of the language. Mastery checks at the end of each chapter reinforce the material covered, and sample code from the book is available for download. Even experienced Oracle professionals will benefit from this practical resource. Understand the Oracle development architecture and the mechanics of connections Work with data types,

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structures, blocks, cursors, and PL/SQL semantics Write, deploy, and use functions, procedures, and packages Manage transactions and more Use dynamic SQL statements in real-world applications Support online transaction processing and data warehousing applications with external tables Find syntax samples and best practices to solve problems Write, deploy, and use object types For a complete list of Oracle Press titles, visit [www.OraclePressBooks.com](http://www.OraclePressBooks.com)

\* 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. Servlets are Java's answer to CGI, set to revolutionize Web database design. Presenting state-of-the-art coverage of the new technologies, this book begins with detailed coverage of the most interesting features of servlets and JDBC, including security, communications, and multitasking.

Learn the best way of writing code to run inside a relational database. This book shows how a holistic and set-oriented approach to database programming can far exceed the performance of the row-by-row model that is too often used by developers who haven't been shown a better way. Two styles of programming are encountered

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in the database world. Classical programming as taught in many universities leads to an atomic, row-oriented, and procedural style inspired by the structured models of programming. In short, many application developers write in the relational database exactly like in the user interface. The other style of programming is holistic, data set oriented, and coded mainly in SQL. This is the style of the database developer. The set based and holistic style of development is not promoted enough in universities, and many application developers are not fully aware of it. There are many performance issues all over the world in relational databases due to the use of the atomic and inappropriate style of programming. This book compares the two styles, and promotes the holistic style of development as the most suitable one. Examples are given to demonstrate the superiority of a set-based and holistic approach. Compares the two styles of development Shows the performance advantages of set-based development Solves example problems using both approaches Who This Book Is For Two Styles of Database Development is aimed at application developers willing to adapt their programming styles in return for better-performing applications. It's for students and new developers wanting to position themselves as having database expertise and build a reputation for developing highly-performant database applications. The hands-on tutorial for Java developers who want to integrate their applications with the industry leading Oracle 8i and 9i databases. Provides an introduction to database design, including the essentials of SQL, to get Java programmers started with Oracle comfortably,

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confidently and quickly! Covers important Java database technologies, such as JDBC and JDO - step-by-step, with examples. Covers both Oracle 8i and 9i - including new 9i features, such as object-relational features, all highlighted with examples.

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

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.

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Oracle PL/SQL Recipes is your go to book for PL/SQL programming solutions. It takes a task-oriented approach to PL/SQL programming that lets you quickly look up a specific task and see the pattern for a solution. Then it's as simple as modifying the pattern for your specific application and implementing it. And you're done and home for dinner. Oracle PL/SQL Recipes is another in Apress' ongoing series of recipe books aimed at Oracle practitioners. The recipe format is ideal for the busy professional who just needs to get the job done. Covers the most common PL/SQL programming problems Presents solutions in ready-to-use format Stays short and to-the-point

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Demonstrates the skills, techniques, and tools required for programming and maintaining database applications in a Linux environment.

Master Oracle Database 12c PL/SQL Application Development Develop, debug, and administer robust database programs. Filled with detailed examples and expert strategies from an Oracle ACE, Oracle Database 12c PL/SQL Programming explains how to retrieve and process data, write PL/SQL statements, execute effective queries, incorporate PHP and Java, and work with dynamic SQL. Code testing,

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security, and object-oriented programming techniques are fully covered in this comprehensive Oracle Press guide. Explore new SQL and PL/SQL features in Oracle Database 12c Build control structures, cursors, and loop statements Work with collections, varrays, tables, and associative array collections Locate and repair errors and employ exception handlers Execute black box, white box, and integration tests Configure and manage stored packages and libraries Handle security with authentication and encryption Use LOBs to store text and multimedia content Write and implement PL/SQL and Java triggers Extend functionality using dynamic SQL statements Understand object types, nested tables, and unnesting queries

Quickly find solutions to dozens of common programming problems encountered while building Java applications. Content is presented in the popular problem-solution format. Look up the programming problem that you want to resolve. Read the solution. Apply the solution directly in your own code. Problem solved! This revised edition covers important new features such as Java 9's JShell and the new modularity features enabling you to separate code into independent modules that perform discrete tasks. Also covered are the new garbage collection algorithm and completely revamped process API. Enhanced JSON coverage is provided as well as a new chapter on JavaServer Faces development for web applications. What You'll Learn Develop Java SE applications using the latest in Java SE technology Exploit advanced features like modularity and lambdas Use JShell to quickly develop solutions Build dynamic web applications with JavaScript and Project Nashorn Create great-looking web interfaces with JavaServer Faces Generate graphics and work with media such as sound and video Add internationalization support to your Java applications Who This Book Is For Both beginning Java programmers and

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advanced Java developers

Design Feature-Rich PL/SQL Applications Deliver dynamic, client/server PL/SQL applications with expert guidance from an Oracle programming professional. With full coverage of the latest features and tools, Oracle Database 11g PL/SQL Programming lays out each topic alongside detailed explanations, cut-and-paste syntax examples, and real-world case studies. Access and modify database information, construct powerful PL/SQL statements, execute effective queries, and deploy bulletproof security. You'll also learn how to implement C, C++, and Java procedures, Web-enable your database, cut development time, and optimize performance. Create, debug, and manage Oracle-driven PL/SQL programs Use PL/SQL structures, delimiters, operators, variables, and statements Identify and eliminate errors using PLSQL\_WARNINGS and exception handlers Work with functions, procedures, packages, collections, and triggers Define and deploy varray, nested table, and associative array data types Handle external routines, object types, large objects, and secure files Communicate between parallel sessions using DBMS\_ALERT and DBMS\_PIPE Call external procedures through Oracle Net Services and PL/SQL wrappers Integrate internal and server-side Java class libraries using Oracle JVM Develop robust Web applications using PL/SQL Gateway and Web Toolkit Focusing on tried and true best practice techniques in cross-technology based Oracle embedded programming, this book provides authoritative guidance for improving your code compilation and execution. Geared towards IT professionals developing Oracle-based Web-enabled applications in PL/SQL, Java, C, C++, .NET, Perl, and PHP, it

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covers application development from concepts to customization, following a pragmatic approach to design, coding, testing, deployment, and customization—explaining how to maximize embedded programming practices. Oracle Embedded Programming and Application Development explains application development frameworks using 3GL and 4GL high-level language code as embedded code segments across .NET, Java, and Open Source technologies, in conjunction with SQL and/or PL/SQL and the Oracle RDBMS through version 11gR2. It also:

- Features pluggable code using parameterized constructs to promote code reuse
- Explains when to use a particular embedded language as a best fit for specific applications
- Highlights design considerations that reduce the probability of errors, enable quick resolution, and boost performance in terms of enabling a Fast-Actionable-Synchronized-Tested (FAST) solution implementation
- Provides best practice techniques that can enhance any application development code-design methodology for a better, easier, faster, cheaper, and pervasive solution that in turn helps achieve a Better Business Benefit (B-B-B)

This practical guide details techniques for constructing architecture and code design methodologies for live application development projects that can be generalized and standardized as application development and code

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design frameworks. Cover to cover, the text provides an understanding of how the designed, developed, and deployed solutions conform to emerging and next-generation trends. It also discusses the conformance and usage of Web 2.0-based RIA functionality and regulatory compliance practices involving auditing and security. Praise for: "Taking an Oracle-centric approach, Lakshman skillfully guides you through the maze of various popular programming languages and environments including .NET, C/C++, Perl, PHP, Java, and even SQL and PL/SQL – not only showing you how they interact with Oracle but also which language is the best fit for a given situation." —John Kanagaraj, Executive Editor, IOUG SELECT Journal

\* 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).

Understand the newest trend in database programming for developers working in Java, Kotlin, Clojure, and other JVM-based languages. This book

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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

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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.

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 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

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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

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versatile complement to JDBC, SQLJ and Database Web Services.

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.

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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.  
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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

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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](mailto:pressbooks@ieee.org)

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.

Oracle Database Programming with Visual Basic.NET Discover a detailed treatment of the practical considerations and applications of Oracle database programming with Visual

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Basic 2019 Oracle Database Programming with Visual Basic.NET: Concepts, Designs, and Implementations delivers a comprehensive exploration of the foundations of Oracle database programming using Visual Basic.NET. Using Visual Basic.NET 2019, Visual Studio.NET 2019, and Oracle 18c XE, the book introduces the Oracle database development system, Oracle SQL Developer and Modeler, and teaches readers how to implement a sample database solution. The distinguished author also demonstrates the use of dotConnect for Oracle to show readers how to create an effective connection to an Oracle 18c XE database. The current versions of the .NET framework, ASP.NET, and ASP.NET 4.7 are also explored and used to offer readers the most up to date web database programming techniques available today. The book provides practical example projects and detailed, line-by-line descriptions throughout to assist readers in the development of their database programming skill. Students will also benefit from the inclusion of: A thorough introduction to databases, including definitions, examples, descriptions of keys and relationships, and some database components in popular databases, like Access, SQL, and Oracle An exploration of ADO.NET, including its architecture and components, like the DataReader class, DataSet component, DataTable component, and the command and parameter classes A discussion of Language Integrated Query (LINQ), including its architecture and components, its relationship to objects, DataSet, Oracle, and Entities An explanation of how to access data in ASP.NET and ASP.NET Web Services with multiple real project examples. Perfect for college and university students taking courses related to database programming and applications, Oracle Database Programming with Visual Basic.NET will also earn a place in the libraries of programmers and software engineers seeking a comprehensive reference for

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database coding in Visual Basic.NET.

This is the third of three volumes of the Harnessing Java™ 7 book. It provides a comprehensive approach to learning the Java programming language for intermediate and advanced level Java programmers. If you are new to the Java programming language, you are suggested to read the first and second volumes of this title before this volume. This volume covers the advanced topics of Java programming language such as Swing, Network Programming, and JDBC. Each topic in the book starts with a discussion of the topic's background. A step-by-step process, with small snippets of Java code, provides easy to follow instructions. At the end of a topic, a complete and ready-to-run Java program is provided. This volume contains over 130 images and diagrams to help programmers visualize and better understand the topics. More than 130 complete programs, included in this volume, allow the readers to practice and quickly learn the topics. The chapter on Swing uses a unique approach to building an application with a graphical user interface (GUI). It discusses various aspects, from the very basic concepts of developing a Swing application, to the most advanced topics, such as decorating a Swing component with a JLayer, Drag-and-Drop features, Synth Skinnable L&F, etc. The chapter starts with an introduction to the GUI, using only one line of Java code, and builds to the most advanced concepts of GUI, one-step at a time. The chapter devotes over 55 pages to describe, at length, the different kinds of layout managers. At each step, it includes images to help the reader visualize how the application will look at runtime. Images at every step of the GUI building help the readers finish the chapter more quickly, with a vivid, detailed understanding of each topic. The chapter on network programming covers the basics of network technologies first, and then, the advanced topics of network programming, using

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Java class library. It covers IPv4 and IPv6, addressing schemes, subnetting, supernetting, multicasting, TCP/IP sockets, UPD sockets, asynchronous socket I/O, etc. The chapter on JDBC provides one of a kind coverage of database programming using the JDBC API. It provides the details of connecting and working with databases from all major database vendors such as Oracle, Microsoft, IBM, Sybase, etc. Wherever applicable, the chapter provides the database scripts to work with examples in the following databases: Oracle, SQL Server, MySQL, DB2, Java DB (Apache Derby), Sybase, Adaptive Server Anywhere, etc. It contains a complete discussion on processing a ResultSet and a RowSet. It discusses how to use the RowSetFactory, which is a new feature of Java™ 7, to obtain a RowSet object of a specific type. Working with Large Objects (LOBs), such as Blob, Clob, and NClob, is covered in detail with Java code examples and database scripts. The following topics are covered in this volume. Swing Applets Network Programming JDBC API Remote Method Invocation Java Native Interface It covers the following new features of Java™ 7 in detail. JLayer Swing Component Translucent Window Shaped Window Asynchronous Socket IO Multicast DatagramChannel RowSetFactory

Push your programming skills to the next level with the extensive information in this guide. Learn how to write dynamic PL/SQL programs; interface with Oracle databases; execute complex calculations; and handle error conditions using advanced techniques. --

This volume will take you from novice to master, covering not only how to use SQL but also the Oracle extensions to SQL. The examples feature the sample schemas available with Oracle Database 10g, and free code will be available for download.

Create dynamic client/server applications using PL/SQL and

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the comprehensive information contained in this authoritative volume. Expert Oracle insiders cover the features of PL/SQL, explain scripting semantics and syntax, and fully detail the PL/SQL functionality of Oracle Database 10g. You'll learn how to write powerful PL/SQL programs, interact with Oracle databases, perform complex calculations, and handle error conditions.

Written by Oracle insiders, this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume. Ideal for novice and experienced DBAs, developers, managers, and users, Oracle Essentials walks you through technologies and features in Oracle's product line, including its architecture, data structures, networking, concurrency, and tuning. Complete with illustrations and helpful hints, this fifth edition provides a valuable one-stop overview of Oracle Database 12c, including an introduction to Oracle and cloud computing. Oracle Essentials provides the conceptual background you need to understand how Oracle truly works. Topics include: A complete overview of Oracle databases and data stores, and Fusion Middleware products and features Core concepts and structures in Oracle's architecture, including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management, including Oracle Enterprise Manager 12c Security options, basic auditing capabilities, and options for meeting compliance needs Performance characteristics of disk, memory, and CPU tuning Basic principles of multiuser concurrency Oracle's online transaction processing (OLTP) Data warehouses, Big Data, and Oracle's business intelligence tools Backup and recovery, and high availability and failover solutions

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