

# Database Application Developer's Guide

## Delphi for Windows

### Chapter 1 Introduction

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Delphi enables you to create robust database applications quickly and easily. Delphi database applications can work directly with desktop databases like Paradox, dBASE, the Local InterBase Server, and ODBC data sources. The Delphi Client/Server edition also works with remote database servers such as Oracle, Sybase, Microsoft SQL Server, Informix, InterBase, and ODBC data sources. Delphi client applications can be scaled easily between mission critical network-based client/server databases, and local databases on a single machine.

This chapter introduces Delphi's database tools, including the Data Access and Data Controls component pages, the Fields Editor, the Database Desktop, and the Database Forms Expert.

### What you should know first

Building a database application is similar to building any other Delphi application. This book assumes you understand the basic application development techniques covered in the *Delphi User's Guide*, including:

- Creating and managing *projects*
- Creating *forms* and managing *units*
- Working with *components*, *properties*, and *events*
- Writing simple Object Pascal source code

You also need to have a working knowledge of the Database Management System (DBMS) your Delphi database applications access, whether it is a desktop database such as dBASE or Paradox, or an SQL server. For information specific to building client/server applications with Delphi, see Chapter 6, "Building a client/server application."

This book assumes you have a basic understanding of relational databases, database design, and data management. There are many third-party books covering these topics if you need to learn more about them.

# Oracle Database Application Developers Guide Ebook

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## **Oracle Database Application Developers Guide Ebook:**

Oracle Ulka Rodgers,1991 This volume covers all aspects of using the Oracle products from initial information systems planning tasks through to developing an application and implementing it in production The book utilizes instances of Oracle s own CASE Computer Aided Software Engineering tools

**Oracle Database Application Developer's Study Guide** Dr Noah,2018-11-26 Oracle Database Application Developer s Guide Fundamentals is intended for programmers developing new applications or converting existing applications to run in the Oracle Database environment This book will also be valuable to systems analysts project managers and others interested in the development of database applications To use this book you need a working knowledge of application programming and that you are acquainted with using the Structured Query Language SQL to access information in relational database systems Some sections of this guide assume a familiar with object oriented programming

**Advanced Oracle PL/SQL Developer's Guide** Saurabh K. Gupta,2016-02-15 Master the advanced concepts of PL SQL for professional level certification and learn the new capabilities of Oracle Database 12c About This Book Learn advanced application development features of Oracle Database 12c and prepare for the 1Z0 146 examination Build robust and secure applications in Oracle PL SQL using the best practices Packed with feature demonstrations and illustrations that will help you learn and understand the enhanced capabilities of Oracle Database 12c Who This Book Is For This book is for Oracle developers responsible for database management Readers are expected to have basic knowledge of Oracle Database and the fundamentals of PL SQL programming Certification aspirants can use this book to prepare for 1Z0 146 examination in order to be an Oracle Certified Professional in Advanced PL SQL What You Will Learn Learn and understand the key SQL and PL SQL features of Oracle Database 12c Understand the new Multitenant architecture and Database In Memory option of Oracle Database 12c Know more about the advanced concepts of the Oracle PL SQL language such as external procedures securing data using Virtual Private Database VPD SecureFiles and PL SQL code tracing and profiling Implement Virtual Private Databases to prevent unauthorized data access Trace analyze profile and debug PL SQL code while developing database applications Integrate the new application development features of Oracle Database 12c with the current concepts Discover techniques to analyze and maintain PL SQL code Get acquainted with the best practices of writing PL SQL code and develop secure applications In Detail Oracle Database is one of the most popular databases and allows users to make efficient use of their resources and to enhance service levels while reducing the IT costs incurred Oracle Database is sometimes compared with Microsoft SQL Server however Oracle Database clearly supersedes SQL server in terms of high availability and addressing planned and unplanned downtime Oracle PL SQL provides a rich platform for application developers to code and build scalable database applications and introduces multiple new features and enhancements to improve development experience Advanced Oracle PL SQL Developer s Guide Second Edition is a handy technical reference for seasoned professionals in the database development space This book starts with a

refresher of fundamental concepts of PL SQL such as anonymous block subprograms and exceptions and prepares you for the upcoming advanced concepts The next chapter introduces you to the new features of Oracle Database 12c not limited to PL SQL In this chapter you will understand some of the most talked about features such as Multitenant and Database In Memory Moving forward each chapter introduces advanced concepts with the help of demonstrations and provides you with the latest update from Oracle Database 12c context This helps you to visualize the pre and post applications of a feature over the database releases By the end of this book you will have become an expert in PL SQL programming and will be able to implement advanced concepts of PL SQL for efficient management of Oracle Database Style and approach The book follows the structure of the Oracle Certification examination but doesn't restrict itself to the exam objectives Advanced concepts have been explained in an easy to understand style supported with feature demonstrations and case illustrations

ODP.NET Developer's Guide Jagadish Chatarji Pulakhandam, Sunitha Paruchuri, 2007      **Oracle Mobile Application**

**Framework Developer Guide: Build Multiplatform Enterprise Mobile Apps** Luc Bors, 2014-10-06 Master Oracle Mobile Application Framework In Oracle Mobile Application Framework Developer Guide Oracle ACE Luc Bors explains how to use this powerful tool to create multiplatform mobile apps based on a single code base Detailed examples and ready to use code are provided throughout the book A complete step by step sample application highlights the robust functionality of Oracle Mobile Application Framework including data visualization UX patterns geographical maps push notifications and more Take full advantage of the visual and declarative development features of Oracle Mobile Application Framework with help from this Oracle Press resource Configure your IDE for Android and Apple iOS application development Build AMX pages and task flows for mobile applications Work with the binding layer and data controls Create application features and configure access to them in the springboard and navigation bar Call web services using a data control and create an on device database Implement device interaction services Debug test and secure Oracle Mobile Application Framework applications Build an interactive sample app that maximizes Oracle Mobile Application Framework capabilities      **Oracle Fusion Developer**

**Guide** Frank Nimphius, Lynn Munsinger, 2009-11-14 Master Oracle Fusion Middleware Successfully design rich enterprise web applications using the detailed information in this Oracle Press volume Oracle Fusion Developer Guide goes beyond the predominant drag and drop methods in Oracle JDeveloper 11g and provides a wealth of examples that address common development scenarios when using Oracle Fusion Middleware Work with Oracle JDeveloper 11g define navigation rules accept and validate user input build page layouts and skins and incorporate drag and drop functionality into web applications This authoritative resource also explains how to secure and internationalize your applications Understand the Oracle Application Development Framework and Oracle ADF Faces Rich Client lifestyle Construct Oracle ADF data controls task flows and dynamic regions Graphically represent information with Oracle ADF Faces DVT components Modularize applications using Oracle ADF libraries Oracle ADF task flows and other reusable components Define dynamic navigation

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**Oracle Business Intelligence 11g Developers Guide** Mark Rittman, 2012-09-22 Master Oracle Business Intelligence 11g Reports and Dashboards Deliver meaningful business information to users anytime anywhere on any device using Oracle Business Intelligence 11g Written by Oracle ACE Director Mark Rittman Oracle Business Intelligence 11g Developers Guide fully covers the latest BI report design and distribution techniques Find out how to execute effective queries build accurate models use scorecards and KPIs create dynamic reports set up dashboards and publish to smartphones and wireless devices This Oracle Press guide contains comprehensive details on Oracle Exalytics In Memory Machine the best in class preintegrated BI platform Install or upgrade to Oracle Business Intelligence 11g Develop and manage custom Oracle Business Intelligence repositories Access relational file and multidimensional data sources Design print quality reports with Oracle Business Intelligence Publisher Create web enabled analyses dashboards and visualizations Integrate with other applications using Oracle Business Intelligence 11g Action Framework Employ authentication authorization and row level security Configure and deploy Oracle Exalytics In Memory Machine **Oracle Developer's Guide** McClanahan David, 1997

**Oracle Database Ajax & PHP Web Application Development** Lee Barney, Michael McLaughlin, 2008-03-13 Design and Deploy Highly Responsive Data Driven Web 2.0 Applications Deliver next generation user capabilities and client side services in your Oracle based Web applications by combining the powerful features of AJAX and PHP Written by Web 2.0 programming experts Oracle Database AJAX PHP Web Application Development shows you how to design faster lighter more responsive Web applications while reducing code support and creation time You'll learn how to develop modular AJAX and PHP code add dynamically updated content and implement click to edit and drag and drop functionality You'll also get details on incorporating cutting edge mashup reporting and communication features Build robust Web applications that utilize the latest AJAX PHP and modularity techniques Construct AJAX and PHP objects controllers iframes and models Simplify programming with reusable modules open source libraries and templates Optimize scalability availability performance and security Auto refresh Web pages and execute XML calls using the HttpRequest object Add HTML drill down tables DOM drag and drop and click to edit features Retrieve data from external sources using Remote Procedure Calls and Pear based services Solve browser navigation button bookmarking and history tracking issues Allow end users to customize Web pages using tracking JSON and mashups Facilitate client side communication with VOIP IM targeted reporting and file sharing

*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 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 eight 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 nine 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 ten 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 eleven you will add two tables Victim and Case\_File The Case\_File 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 **Oracle Database 11g & MySQL 5.6 Developer Handbook** Michael McLaughlin,2011-09-30

Master Application Development in a Mixed Platform Environment Build powerful database applications in a mixed environment using the detailed information in this Oracle Press guide Oracle Database 11g MySQL 5.6 Developer Handbook lays out programming strategies and best practices for seamlessly operating between the two platforms Find out how to migrate databases port SQL dialects work with Oracle MySQL databases and configure effective queries Security monitoring and tuning techniques are also covered in this comprehensive volume Understand Oracle Database 11g and MySQL 5.6 architecture Convert databases between platforms and ensure transactional integrity Create tables sequences indexes views and user accounts Build and debug PL SQL SQL Plus SQL PSM and MySQL Monitor scripts Execute complex queries and handle numeric and date mathematics Merge data from source tables and set up virtual directories Advanced Oracle PL/SQL Developer's Guide - Second Edition Saurabh K. Gupta,2016-02-15 The OCP certification is the second milestone for the experienced associate level Oracle professionals which enhances one's credibility in work environment and catalyzes your employment opportunities The Packt's book Oracle Advanced PL SQL Developer Professional Guide helps you to master the advanced PL SQL concepts in Oracle 11g The book aims to be a sure selection for the experienced Oracle professionals aspiring for Professional level by writing Oracle certification exam 1Z0 146 Oracle Database 11g Advanced PL SQL The topics covered in the book are in line with the Oracle University prescription for 1Z0 146 certification which justify the version updates to be advanced and not complex The book has been reviewed by Oracle ACEs Kamran Agayev Ronald Rood Mohan Dutta and Marcel Hoefs The book covers the advanced features of PL SQL which are required to design and optimize the PL SQL code in database applications The features like collections external procedures server side result caching enforce row level security using VPD handling large objects and SecureFiles build up a concrete platform for a PL SQL professional Apart from the programming the book makes instrumental recommendations on the usage of development tool SQL Developer employing best practices in database environments and safeguarding the vulnerable areas in PL SQL code to avoid code injection Oracle JDeveloper 10g for Forms & PL/SQL Developers: A Guide to Web Development with Oracle ADF Peter Koletzke,Duncan Mills,2006-09-28 The most efficient way to learn J2EE programming techniques Two Oracle experts demonstrate techniques for working within J2EE and JDeveloper for the thousands of developers currently using Oracle

Forms and the PL SQL language Oracle is shifting their focus towards Java technologies so you will need to know how to use the Java based J2EE and JDeveloper The book includes explanations of the Application Development Framework ADF Throughout high level and low level Forms concepts are related to Java concepts so that you can become comfortable with the new terminology Covers the new components required when developing and deploying a J2EE application Special mentions in the text describe how JDeveloper techniques translate to PL SQL or Oracle Forms Covers JDeveloper 10 1 3 and ADF Faces All code and examples will be available online

**MySQL Workbench: Data Modeling & Development** Michael McLaughlin, 2013-05-06 The only Oracle Press guide to MySQL Workbench explains how to design and model MySQL databases MySQL Workbench Data Modeling and Development helps developers learn how to effectively use this powerful product for database modeling reverse engineering and interaction with the database without writing SQL statements MySQL Workbench is a graphical user interface that can be used to create and maintain MySQL databases without coding The book covers the interface and explains how to accomplish each step by illustrating best practices visually Clear examples instructions and explanations reveal in a single volume the art of database modeling This Oracle Press guide shows you how to get the tool to do what you want Annotated screen shots demonstrate all interactions with the tool and text explains the how what and why of each step Complete coverage Installation and Configuration Creating and Managing Connections Data Modeling Concepts Creating an ERD Defining the Physical Schemata Creating and Managing Tables Creating and Managing Relationships Creating and Managing Views Creating and Managing Routines Creating and Managing Routine Groups Creating and Managing User Creating and Managing SQL Scripts Generating SQL Scripts Forward Engineering a Data Model Synchronize a Model with a Database Reverse Engineering a Database Managing Differences in the Data Catalog Creating and Managing Model Notes Editing Table Data Editing Generated Scripts Creating New Instances Managing Import and Export Managing Security Managing Server Instances

**Oracle Mobile Cloud Service Developer's Guide** John Thomas, 2017-07-31 Create Modern Enterprise Mobile Apps with Oracle Mobile Cloud Service Create and deploy high performance enterprise mobile applications using the hands on information contained in this Oracle Press guide Written by a director of product management within Oracle s platform as a service group Oracle Mobile Cloud Service Developer s Guide features a start to finish case study application that clearly demonstrates key techniques and features Learn how to set up mobile back ends work with native SDKs build custom APIs and deliver best in class mobile services with Oracle Mobile Cloud Service Oracle Mobile Application Accelerator and enterprise mobile solutions are fully covered in this comprehensive resource Explore the features and benefits of Oracle Mobile Cloud Service Work from the command line within Oracle Mobile Cloud Service and native platform IDEs Visually describe business objects using REST API for Oracle Mobile Cloud Service Perform CRUD operations on the back end and client side Develop mobile applications using SDKs for iOS and Android Build a cross platform client with Oracle Mobile Application Accelerator Monitor and



administer Oracle Mobile Cloud Service in enterprises of all sizes      *Quick Start Guide to Oracle Fusion Development* Grant Ronald, 2010-09-05 Get Started with Oracle Fusion Development Written by a Group Product Manager at Oracle this Oracle Press guide gets you up and running quickly with your first Oracle Fusion applications Quick Start Guide to Oracle Fusion Development provides only the essential information you need to build applications in a matter of hours Rapidly learn the building blocks and functionality you ll use most of the time The progression of topics closely matches the application building process taking you through a typical developer scenario from start to completion Quick Start Guide to Oracle Fusion Development features Concise and friendly format providing the essentials needed to start building applications right away Chapters that build on each other to illustrate a typical development scenario from start to finish Unique author insights gained from hours of one on one meetings with customers and work in Oracle s usability labs The perfect entry point to Oracle Fusion development Introduction to Fusion and the Fusion Technologies Introduction to JDeveloper and Oracle ADF Finding your Way Around JDeveloper Building Business Services Introducing ADF Business Components The Role of the Entity A View of your Data The View Object The Application Module Implementing Business Service Validation More View Object Features Building the User Interface Introducing ADF Face Rich Client ADF Model Building Typical ADF Pages Building Application Flow Menus Toolbars and Buttons Advanced UI Techniques Data Visualization and Other Rich UI Components Application Look and Feel Common Coding Patterns Common Business Service Coding Examples Common View Coding Examples      *Oracle SQL Developer Handbook* Dan Hotka, 2006-10-31 There have been more than 100 000 downloads of Oracle SQL Developer SQL and PL SQL are the most popular development languages for the Oracle database

*Securing Oracle Database 12c: A Technical Primer eBook* Michelle Malcher, Scott Rotondo, Paul Needham, 2013-12-23 This Oracle Press eBook is filled with cutting edge security techniques for Oracle Database 12c It covers authentication access control encryption auditing controlling SQL input data masking validating configuration compliance and more Each chapter covers a single threat area and each security mechanism reinforces the others      *Oracle E-Business Suite Development & Extensibility Handbook* Anil Passi, Vladimir Ajvaz, 2009-10-06 Extend and Customize Oracle E Business Suite Transform your Oracle E Business Suite infrastructure to suit enterprise requirements using the comprehensive development methods in this Oracle Press guide Oracle E Business Suite Development Extensibility Handbook lays out each tool alongside reusable code and step by step examples Learn how to create multiorg objects integrate Java and PL SQL design custom user interfaces and use Oracle Application Framework and Oracle Workflow This detailed volume also explains how to work with Oracle XML Gateway publish dynamic business intelligence reports and tune your configuration Manage an efficient development platform with Oracle Application Object Library Develop concurrent programs customized forms and personalized graphical user interfaces Securely share data between organizations Distribute business communiqu s through Oracle Reports and Oracle Business Intelligence Publisher Develop Java extensions with Oracle JDeveloper and Oracle

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web nickname huck gender male family pap finn father mrs finn deceased mother huckleberry huck finn is a fictional character created by mark twain who first appeared in the book the adventures of tom sawyer 1876 and is the protagonist and narrator of its sequel adventures of huckleberry finn 1884

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web both books center on the pair of troublemaking friends tom sawyer and huckleberry finn tom sawyer presents the duo getting into various misadventures with tom as the hero and huck as

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web tom is thus the perfect foil for huck his rigid adherence to rules and precepts contrasts with huck s tendency to question authority and think for himself although tom s escapades are often funny they also show just how disturbingly and unthinkingly cruel society can be

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