



3 Selecting a Datatype

This chapter describes Oracle and third-party development applications. Topics include:

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- [Advanced Oracle Datatypes: Spatial, XML, and JSON](#)
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- [Representing an Interval Type Value](#)
- [Representing NULL Data](#)

More About

- [Oracle® Application Developer's Guide - Advanced Database Features](#), for information about advanced database features for spatial, XML, JSON, and JSONB data
- [Oracle® Application Developer's Guide - Large Object \(LOB\)](#), for information about LOB datatypes
- [PL/SQL User's Manual Database](#), for information about PL/SQL datatypes that third-party developers can use to connect to PL/SQL

Summary of Oracle Built-in Datatypes

A datatype declaration should not only specify the data values that can be stored in columns of a table or in some application's data structure. Taking programming as Oracle's first priority, it also defines different ways values of another datatype. For example, it describes additional values of numeric datatypes, numeric values of the string type.

Oracle Database Application Developers Guide

Steve Teixeira, Xavier Pacheco



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Developer's Guide to Web Application Security Michael Cross,2011-04-18 Over 75% of network attacks are targeted at the web application layer This book provides explicit hacks tutorials penetration tests and step by step demonstrations for security professionals and Web application developers to defend their most vulnerable applications This book defines Web application security why it should be addressed earlier in the lifecycle in development and quality assurance and how it differs from other types of Internet security Additionally the book examines the procedures and technologies that are essential to developing penetration testing and releasing a secure Web application Through a review of recent Web application breaches the book will expose the prolific methods hackers use to execute Web attacks using common vulnerabilities such as SQL Injection Cross Site Scripting and Buffer Overflows in the application layer By taking an in depth look at the techniques hackers use to exploit Web applications readers will be better equipped to protect confidential The Yankee Group estimates the market for Web application security products and services will grow to 1 74 billion by 2007 from 140 million in 2002 Author Michael Cross is a highly sought after speaker who regularly delivers Web Application presentations at leading conferences including Black Hat TechnoSecurity CanSec West Shmoo Con Information Security RSA Conferences and more

Oracle Database Problem Solving and Troubleshooting Handbook Tariq Farooq,Mike Ault,Paulo Portugal,Mohamed Houri,Syed Jaffar Hussain,Jim Czuprynski,Guy Harrison,2016-04-04 An Expert Guide for Solving Complex Oracle Database Problems Oracle Database Problem Solving and Troubleshooting Handbook

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Design and Implementation of a Database Programming Language for XML-based Applications Henrike Schuhart, 2006 This publication focuses on two main aspects the seamless integration of XML and persistency concepts into the object oriented programming language Java XML is the de facto standard data exchange format between arbitrary applications There have been many efforts to integrate XML into programming languages reaching from the simple document object model DOM to whole XML class generators These approaches are available in most popular programming languages The integration of persistency into programming languages has been done by database programming languages as well as by certain new popular frameworks like Hibernate or approaches like EJB Nevertheless these approaches suffer from certain limitations concerning in particular transparency and object orientation While existing database programming languages integrate the relational model Hibernate and EJB 3 x does not support polymorphism in general EJB 2 x does not even support inheritance In addition although they try to the approaches except by some database programming languages are not transparent In this work transparency means that arbitrary types may become persistent Moreover algorithms remain unchanged whether they are executed on transient or persistent objects Finally users can work with persistency on a very high level Since there are so many currently developed frameworks trying to solve the integration problem of XML and persistency into object oriented programming languages the need for a holistic and transparent object oriented database programming language seems to be there The starting point of XOBEDBPL which stands for XML OBjEcts Database Programming Language is the predecessor project XOB XOB concentrates on the integration of XML objects and XPath as the query language for these objects The most important feature of XOB is that each XML operation is statically type checked against the declared XML schema In XOBEDBPL the XML integration is extended regarding the manipulation of XML objects Before XML objects could only be queried but not updated The static

type checking idea is kept and enhanced to include updates While XOE s intentions lie on the development of web applications all objects can remain transient XOEEDBPL is supposed to deal with persistent objects as well

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