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# Database Object-Relational Developer's Guide

## What's New in Object-Relational Features?

This section describes the new object-relational features of Oracle 11g release 1 (11.1). New features information from previous releases is also retained to help users upgrading to the current release.

The following sections describe the new features in Oracle Object-Relational Features:

- [Oracle Database 11g Release 2 \(11.2\) New Features in Object-Relational Features](#) ([#CH06D0U0](#))
- [Oracle Database 11g Release 1 \(11.1\) New Features in Object-Relational Features](#) ([#CH06U0E0](#))
- [Oracle Database 10g Release 1 \(10.1\) New Features in Object-Relational Features](#) ([#CH06S0S0](#))

## Oracle Database 11g Release 2 (11.2) New Features in Object-Relational Features

### FORCE Option Added to CREATE OR REPLACE TYPE Statement

`CREATE OR REPLACE TYPE` statements now have a `FORCE` option, which enables you to replace the type even if it has type dependents. This does not work without the `FORCE` option.

#### See Also:

"Using `CREATE OR REPLACE TYPE` with Type and Table Dependencies" ([#CH06A2H0](#))

## Oracle Database 11g Release 1 (11.1) New Features in Object-Relational Features

### Support for Generalized Invocation

Generalized invocation syntax is now supported. Therefore, a member method in a subtype can statically invoke (dispatch) a member method in any supertype in the supertype hierarchy of the current subtype, including the subtype's immediate supertype. See "Generalized Invocation" ([#CH06F0D0](#)).

## Oracle Database 10g Release 1 (10.1) New Features in Object-Relational Features

New object-relational features for Oracle 10g release 1 (10.1) include the following collection enhancements:

### Nested Table and Varray Storage

New functionality for nested table and varray storage, including the evolution of varray size and specification of a tablespace when storing nested tables. See "Collection Data Types" ([#CH06J0S0](#)).

### Nested Table Comparisons and ANSI SQL Multiset Operations

New functionality for nested table comparisons and ANSI SQL multiset operations for nested tables. See "Operations on Collection Data Types" ([#CH06J0A0](#)).

# Oracle Database Application Developer Guide Object Relational Features

**David Gallardo**



## **Oracle Database Application Developer Guide Object Relational Features:**

**Encyclopedia of Database Technologies and Applications** Rivero, Laura C.,Doorn, Jorge Horacio,Ferraggine, Viviana E.,2005-06-30 Addresses the evolution of database management technologies and applications along with the progress and endeavors of new research areas P xiii      *Oracle Essentials* Rick Greenwald,Robert Stackowiak,Jonathan Stern,2004-02-11 Distilling a vast amount of knowledge into an easy to read volume covering the full range of Oracle s features and technologies this title includes an overview of Oracle 10g along with recent releases 9i and 8i It provides everything you should need to install and run the Oracle databases      *Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends* Ferraggine, Viviana E.,Doorn, Jorge Horacio,Rivero, Laura C.,2009-02-28 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher      *Expert One-on-One Oracle* Thomas Kyte,2006-11-10 Thomas Kyte has a simple philosophy You can treat Oracle as a black box and shove data inside of it or you can learn how Oracle works and exploit it as a powerful computing environment If you choose the latter you will see there are few information management problems you cannot solve quickly and elegantly Kyte has selected the most important features and techniques to discuss in *Expert One on One Oracle* which he teaches in a proof by example manner He discusses available features implementing software using these features and avoiding potential pitfalls      **Oracle Database Programming using Java and Web Services** Kuassi Mensah,2011-04-08 The traditional division of labor between the database which only stores and manages SQL and XML data for fast easy data search and retrieval and the application server which runs application or business logic and presentation logic is obsolete Although the books primary focus is on programming the Oracle Database the concepts and techniques provided apply to most RDBMS that support Java including Oracle DB2 Sybase MySQL and PostgreSQL This is the first book to cover new Java JDBC SQLJ JPublisher and Web Services features in Oracle Database 10g Release 2 the coverage starts with Oracle 9i Release 2 This book is a must read for database 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 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

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Abridged coverage of JPublisher 10g a versatile complement to JDBC SQLJ and Database Web Services **Professional**

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Chelliah, 2005-06-08 One of the only Oracle books to focus exclusively on database programming rather than administration

Oracle owns sixty percent of the commercial database market Provides full coverage of the latest Oracle version 10g

including new features such as regular expressions and the MODEL SQL clause as well as versions 8i and 9i The authors are well known as Oracle gurus Greenwald is the author of Oracle in a Nutshell and the coauthor with Stackowiak of Oracle 9

Essentials Shows how to use Oracle data and data structures to build robust scalable database applications using Java SQL

and PL SQL **Expert Oracle JDBC Programming** R.M. Menon, 2006-11-01 JDBC is the most commonly used API in Java to access and manipulate data in a database Oracle is one of the most popular and scalable databases in the world This book

is a must have for any developer building an application that employs JDBC on Oracle database Unlike other JDBC books this

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does not assume any prior knowledge of JDBC though it does assume basic knowledge of SQL and PL SQL It covers JDBC

with a focus on writing high performing scalable and secure applications for Oracle 10g and 9i **Effective Oracle by**

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designing and building high performance scalable Oracle applications The book covers schema design SQL and PL SQL

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components of the core product CD contains an electronic version of the book **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 rules in Oracle Fusion Middleware web applications Leverage Web 2.0 features using Oracle ADF Faces Rich Client components Control user access with Oracle WebLogic Server and Oracle ADF security For a complete list of Oracle Press titles visit [www.OraclePressBooks.com](http://www.OraclePressBooks.com) **C++ Builder 5 Developer's Guide** Jarrod Hollingworth, 2000 Written by high profiles representatives of the C Builder developer community this book provides insight into and how to use the new features developer to developer coverage of critical areas of software development a free set of components on the CD ROM and detailed coverage of C Builder specific development strategies library usage and interface features **OCA Oracle9i Associate DBA Certification Exam Guide** Jason S. Couchman, Sudheer N. Mariseti, 2002 Using the successful all in one approach for the OCA this title combines the existing books covering the exams into one complete book CD offering The book content was developed using Oracle's certification blueprints ensuring 100 percent coverage of official exam objectives **Journal of Object-oriented Programming**, 2000 **OCA/OCF Oracle Database 11g All-in-One Exam Guide** John Watson, Roopesh Ramklass, Bob Bryla, 2009-09-05 A Fully Integrated Study System for OCA Exams 1Z0 051 and 1Z0 052 and OCP Exam 1Z0 053 Prepare for the Oracle Certified Associate Administration I and SQL Fundamentals I exams and the Oracle Certified Professional Administration II exam with help from this exclusive Oracle Press guide In each chapter you'll find challenging exercises practice questions and a two minute drill to highlight what you've learned This authoritative guide will help you pass the test and serve as your essential on the job reference Get complete coverage of all objectives for exams 1Z0 051 1Z0 052 and 1Z0 053 including Instance management Networking and storage Security SQL Oracle Recovery Manager and Oracle Flashback Oracle Automatic Storage Management Resource manager Oracle Scheduler Automatic workload repository Performance tuning Three bonus exams available with free online registration **Oracle Database 11g PL/SQL Programming** Michael McLaughlin, 2008-04-19 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

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