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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](#) ([a0c060u0](#))
- [Oracle Database 11g Release 1 \(11.1\) New Features in Object-Relational Features](#) ([a0c0u0u0](#))
- [Oracle Database 10g Release 1 \(10.1\) New Features in Object-Relational Features](#) ([a0c0u0u0](#))

## 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" ([a0c0u0u0](#))

## 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" ([a0c0u0u0](#)).

## 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" ([a0c0u0u0](#)).

### 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" ([a0c0u0u0](#)).

# Oracle Database Application Developer Guide Object Relational Features

**Carol McCullough-Dieter**



## **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 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 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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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 8 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 book has been written to complement not rehash the contents of Oracle JDBC documentation and the JDBC specification The book teaches you not just how to write JDBC code but how to write effective JDBC code in a step by step fashion This book 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 Design** Thomas Kyte,2003-09-12 Tom Kyte of Oracle Magazine s Ask Tom column has written the definitive guide to designing and building high performance scalable Oracle applications The book covers schema design SQL and PL SQL tables and indexes and much more From the exclusive publisher of Oracle Press books this is a must have resource for all Oracle developers and DBAs

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*Journal of Object-oriented Programming*, 2000

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