

Oracle Database Application Developer Guide

Fundamentals

XML database

ISBN 978-0321826626 "XML Schema Storage and Query: Basic". Oracle XML DB Developer's Guide, 10g Release 2. Oracle Corporation. August 2005. Retrieved 17 March 2015

An XML database is a data persistence software system that allows data to be specified, and stored, in XML format. This data can be queried, transformed, exported and returned to a calling system. XML databases are a flavor of document-oriented databases which are in turn a category of NoSQL database.

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Relational database

"A Relational Database Overview". oracle.com. "A universal relation model for a nested database", The Nested Universal Relation Database Model, Lecture

A relational database (RDB) is a database based on the relational model of data, as proposed by E. F. Codd in 1970.

A Relational Database Management System (RDBMS) is a type of database management system that stores data in a structured format using rows and columns.

Many relational database systems are equipped with the option of using SQL (Structured Query Language) for querying and updating the database.

Cursor (databases)

Kyte: Expert One-On-One: Oracle, Apress, ISBN 1-59059-525-4 Kevin Loney: Oracle Database 10g: The Complete Reference, Oracle Press, ISBN 0-07-225351-7

In computer science, a database cursor is a mechanism that enables traversal over the records in a database. Cursors facilitate processing in conjunction with the traversal, such as retrieval, addition and removal of database records. The database cursor characteristic of traversal makes cursors akin to the programming language concept of iterator.

Cursors are used by database programmers to process individual rows returned by database system queries. Cursors enable manipulation of whole result sets at once. In this scenario, a cursor enables the sequential processing of rows in a result set.

In SQL procedures, a cursor makes it possible to define a result set (a set of data rows) and perform complex logic on a row by row basis. By using the same mechanics, a SQL procedure can also define a...

Comparison of relational database management systems

Retrieved 2017-11-01. "Oracle Database 23c: The Next Long Term Support Release". "Oracle Rdb Product Family Compatibility Matrix". oracle.com. Polyhedra Lite

The following tables compare general and technical information for a number of relational database management systems. Please see the individual products' articles for further information. Unless otherwise specified in footnotes, comparisons are based on the stable versions without any add-ons, extensions or external programs.

Database

system (DBMS), the software that interacts with end users, applications, and the database itself to capture and analyze the data. The DBMS additionally

In computing, a database is an organized collection of data or a type of data store based on the use of a database management system (DBMS), the software that interacts with end users, applications, and the database itself to capture and analyze the data. The DBMS additionally encompasses the core facilities provided to administer the database. The sum total of the database, the DBMS and the associated applications can be referred to as a database system. Often the term "database" is also used loosely to

refer to any of the DBMS, the database system or an application associated with the database.

Before digital storage and retrieval of data have become widespread, index cards were used for data storage in a wide range of applications and environments: in the home to record and store recipes...

API

became a part of the ANSI/SPARC framework for database management systems. This framework treated the application programming interface separately from other

An application programming interface (API) is a connection between computers or between computer programs. It is a type of software interface, offering a service to other pieces of software. A document or standard that describes how to build such a connection or interface is called an API specification. A computer system that meets this standard is said to implement or expose an API. The term API may refer either to the specification or to the implementation.

In contrast to a user interface, which connects a computer to a person, an application programming interface connects computers or pieces of software to each other. It is not intended to be used directly by a person (the end user) other than a computer programmer who is incorporating it into software. An API is often made up of different...

PeopleTools

proprietary application software originally developed by PeopleSoft Corporation, an Enterprise Resource Planning (ERP) software vendor acquired by Oracle Corporation

PeopleTools consists of proprietary application software originally developed by PeopleSoft Corporation, an Enterprise Resource Planning (ERP) software vendor acquired by Oracle Corporation in 2004. PeopleTools facilitates the deployment of both vendor-developed and custom-developed applications using an Internet-based architecture known as the PeopleSoft Internet Architecture (PIA).

Core vendor-developed PeopleTools applications include:

Financials and Supply Chain Management (FSCM)

Human Capital Management (HCM)

Campus Solutions (CS)

Customer Relationship Management (CRM)

Enterprise Performance Management (EPM)

As a result of the high level of abstraction used in PeopleTools, these applications can run in association with a variety of operating systems and databases and can provide...

Solution stack

full-stack developer is expected to be able to work in all the layers of the application (front-end and back-end). A full-stack developer can be defined

In computing, a solution stack, also called software stack and tech stack is a set of software subsystems or components needed to create a complete platform such that no additional software is needed to support applications. Applications are said to “run on” or “run on top of” the resulting platform.

For example, to develop a web application, the architect defines the stack as the target operating system, web server, database, and programming language. Another version of a software stack is operating system, middleware, database, and applications. Regularly, the components of a software stack are developed by different developers independently of one another.

Some components/subsystems of an overall system are chosen together often enough that the particular set is referred to by a name representing...

SQL

Oracle SQL: Data Types“;. Oracle Database SQL Language Reference 11g Release 2 (11.2). Oracle Database Documentation Library. Redwood City, CA: Oracle

Structured Query Language (SQL) (pronounced S-Q-L; or alternatively as "sequel")

is a domain-specific language used to manage data, especially in a relational database management system (RDBMS). It is particularly useful in handling structured data, i.e., data incorporating relations among entities and variables.

Introduced in the 1970s, SQL offered two main advantages over older read-write APIs such as ISAM or VSAM. Firstly, it introduced the concept of accessing many records with one single command. Secondly, it eliminates the need to specify how to reach a record, i.e., with or without an index.

Originally based upon relational algebra and tuple relational calculus, SQL consists of many types of statements, which may be informally classed as sublanguages, commonly: data query language...

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