ORACLE SQL DEVELOPER DATA MODELER

KEY FEATURES AND BENEFITS

A COMPLETE MODEL-TO-IMPLEMENTATION SOLUTION FOR DATA RELATED MODELING

FEATURES

- Create, browse, and edit database models
- Support for Barker and Bachman notation
- Synchronized forward and reverse engineering between Logical and Relational models
- Model compare and merge facilities
- Support for subviews
- Large model printing facilities
- Formatting options
- Name standardization
- Design rules

BENEFITS

- Supports developers using multiple platforms: Windows, Linux and MAC OS X
- Import DDL
- Import from data dictionary: Oracle, IBM DB2/390, IBM DB2 LUW, Microsoft SQL Server or ODBC/JDBC
- Import multi-dimensional Cube Views metadata and XMLA
- Import models from CA ERwin® Data Modeler and Oracle Designer

Oracle SQL Developer Data Modeler is a graphical tool that enhances productivity and simplifies data modeling tasks. Using Oracle SQL Developer Data Modeler users can create, browse and edit, logical, relational, physical, multi-dimensional, and data type models.

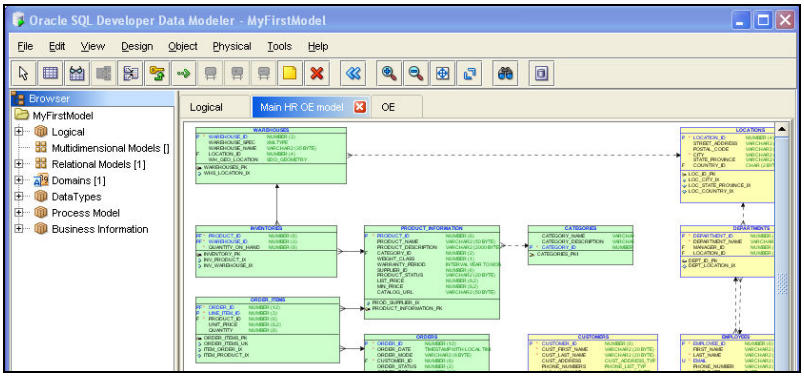

Figure 1. Oracle SQL Developer Data Modeler

Audience

Oracle SQL Developer Data Modeler is designed for all database data modelers, from business architects to DBAs and from database to application developers. The role of Oracle SQL Developer Data Modeler is to simplify data modeling development tasks and serves as a powerful communication tool between developers and business users.

Benefits

Oracle SQL Developer Data Modeler runs on Windows, Linux and Mac OS X. This is a great advantage to the increasing numbers of developers using multiple platforms. To install Oracle SQL Developer Data Modeler simply unzip the downloaded file.

With Oracle SQL Developer Data Modeler users can connect to Oracle Databases 9.2.0.1 and above, Oracle Database 10g and Oracle Database 11g. There is also support for IBM DB2 LUW V7 and V8, IBM DB2/390, Microsoft SQL Server 2000 and 2005 or a standard ODBC/JDBC driver for selective import of database objects and data browsing and migration.

Key Features

Oracle SQL Developer Data Modeler has a number of interrelated modeling techniques. The main, central diagram is the logical model for creating Entity

Relationship Diagrams (ERD) using either the Barker or Bachman notations. Linked to the logical model is the multi-dimensional model, used to model star schemas (facts, dimensions and levels). The data types model allows users to model structured types (SQL99), which can be used in the logical or relational models as data types. The relational model, supporting tables, columns and relationships, can be built from scratch or forward engineered from the logical model. Users can build one or more synchronized relational models from the central logical model. In turn each relational model supports one or more physical models. The advantage is that developers can generate different database or platform specific DDL scripts depending on the physical model selected. The physical model supports specific data constructs in Oracle databases, IBM DB2 and Microsoft SQL Server.

Creating Models

Users import existing logical models, multi-dimensional, or relational models or create them from scratch. Relational models are also created by importing script files (DDL) or by importing directly from the data dictionary. Oracle SQL Developer Data Modeler can import directly from the Oracle Designer repository or CA ERwin Data Modeler logical models. Multi-dimensional models can be imported using Cube Views or XMLA files, or created from Oracle SQL dimensions imported from database or DDL script. Data types models can also be created using import from database or DDL script, for Oracle and DB2/UDB.

Extensive and wizard-led engineering capabilities allow you to re-engineer a relational model to a logical model or to engineer a logical model to one or more relational models, where both models can be kept synchronized.

Generating Output from Models

Oracle SQL Developer Data Modeler generates DDL scripts for Oracle, DB2 and SQL Server, providing a number of export options. Users can generate:

- Database specific DDL scripts from the physical models
- Cube Views Metadata or XMLA files for multi-dimensional models
- XML files for Oracle OLAP or directly to create Oracle Analytical Workspace
- Compare and Merge

Oracle SQL Developer Data Modeler allows users to compare and optionally merge the two versions of the same relational model. This utility also supports the ability to create database update scripts.

Formatting, Sub views and Displays

Users can control colors, fonts and the dimensions of a single or collection of objects. A subview is a group of, often related, objects on a diagram. Any changes in the subview are reflected in the main model. A relational model subview is automatically created per database schema when several schemas are imported at once. Subviews make it easier to maintain larger models.

Naming Standardization

Naming rules can be defined and used with a glossary to check the logical and relational models for their compliance. The glossary can be built from scratch or

ORACLE SQL DEVELOPER DATA MODELER

Oracle SQL Developer Data Modeler enables database data modelers to simplify data modeling tasks and increase communications with developers and users.

RELATED PRODUCTS

- Oracle SQL Developer
- Oracle Application Express

imported.

Design Rules

Design rules can be run just before DDL generation or at any time during the design phase, and give warnings or indicate errors. Users can navigate directly from the design rules results window to the object displaying an error or warning to correct the issue.

Reports

Oracle SQL Developer Data Modeler supports a reporting repository, allowing users to save and run SQL queries to gather details of the designs. A set of predefined reports are available as an extension to Oracle SQL Developer, where users can run the reports against their designs or write their own SQL query reports.

Packaging

Oracle SQL Developer Data Modeler is a standalone, independent product, available for download from the Oracle Technology Network (OTN). An Oracle SQL Developer Data Modeler Viewer is also available for download from OTN. The viewer provides users with the ability to open and view models previously created in Oracle SQL Developer Data Modeler.

Getting Started

Download Oracle SQL Developer Data Modeler from OTN and unzip it into a directory of your choice.

Contact Us

For more information about Oracle SQL Developer Data Modeler, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

ORACLE