Key Features

- WYSIWYG diagram editor
- Database generation
- Reverse engineering
- Database modifications
- Compare data models
- Configurable report generation (HTML, MS Word and PDF)
- Reusable database objects
- Engineering for 20+ RDBMS
- XML based file format

DeZign for Databases V5

DeZign for Databases is an easy-to-use data modeling tool that help you design databases for desktop and client/server applications.

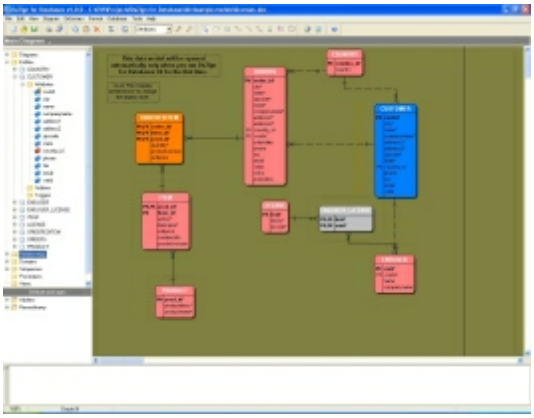
Visual data modeling

Entity Relationship Diagramming. DeZign for Databases uses entity relationship diagrams (ERDs) to graphically design databases. In your diagram you can visually make a design using entities, relationships, subcategories, group boxes and text blocks.

Entity symbols are used to define database table structures, including details about columns (attributes), primary keys, null, unique, foreign keys, domains, check constraints, ...

Relationships are drawn between entities and can include a name, abbreviation, description and the cardinalities (zero, one, many, ...). You can create identifying and non-identifying relationships.

The diagram editor user interface fully supports drag-and-drop of entities, relationships, subcategories, group boxes and text blocks. Moving an entity automatically results in a redrawing of your relationship lines.



Industry Standard Design Notations. You can draw your entity relationship diagram (ERD) based on data modeling notations defined by IDEF1X or Crow's Foot (Information Engineering).

Multiple Display Modes. DeZign for Databases will display model information at various levels. These display modes can be used at various stages of model development or can be used to convey model information in abstract or in varying depths of detail. You can display an entity with all attributes, keys only or no attributes but only the entity name. You can use indicators for key attributes. Another display option is to show the data types next to the attribute name.

ER-modeling. DeZign for Databases supports the ER-modeling techniques. Some advanced features like N:M-relationships (many-to-many relationships) and sub categories (inheritance) are also supported. "DeZign for Databases" will take care of the translation of the ER-Diagram (your database design) to the physical database (your physical tables or your SQL schema).

Database Lifecycle Support

Reverse Engineering. You can use DeZign for Databases' reverse engineering capabilities to create a data model diagram of your current database system. You can import an existing database by connecting to the database directly or by importing a SQL DDL script. Your complete database will be imported including tables, foreign keys, sequences, triggers, procedures and views. While reverse engineering, the software analyzes the database to find relationships not expressly defined to the database.

Forward Engineering. DeZign for Databases can generate databases directly from your data models (ER-diagrams). For SQL databases, the SQL DDL scripts to create your database will be generated. For non SQL databases, the physical database files will be generated directly. You can control what will be generated. Generate individual parts of your model. Generate tables, foreign keys, indexes, domains, sequences, procedures, triggers and views.

Database Modifications. You can update a database from a data model. DeZign for Databases allows you to apply design changes made to your data model to a database. DeZign for Databases compares differences between two versions of your data model and generates intelligent alteration code.

Update Model From Database. Connect to your database and view the differences between your database and your data model and selectively apply those differences/changes to the data model.

Better Database Designs

Model Validation. You can validate a model for errors any time during the design process. During validation, DeZign for Databases checks to make sure the elements in your model are correct and complete.

Automatic Foreign Key Migration. DeZign for Databases supports the logical and physical data-level from a single specification achieved by using automatic foreign key migration at design-time. A modification to a property of a relationship or to a primary key will automatically affect foreign keys.

Reusable Objects. Domains are reusable user-defined types or "attribute templates" that

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System Requirements

DeZign for Databases is available as a 32-bit application. The product is available for Microsoft Windows NT, 2000, XP and Vista. DeZign for Databases requires a minimum of 16MB RAM. Disk space requirements is 6 MB.

promote consistent domain definitions. You construct domains as you would attributes, specifying a name, datatype properties, default values and validation rules. Afterwards, you can reuse them in your data model by applying them to attributes.

Attribute packages are pre-defined, reusable sets of attributes that promote consistent attribute definitions. You can reuse these attribute packages in your data model by applying them to entities. You can share attribute packages between data models.

Name Templates. The name templates editor lets you create naming rules for entities, relationships and constraints that can be reused across the model.

Model Maintenance

Diagram Management. DeZign for Databases extends your modeling power with subdiagrams. You can break a large or complex model into smaller, easier to maintain subdiagrams.

Object Browser. The Object Browser provides an additional method for creating and modifying model objects. Rather than presenting a picture of the model in the traditional diagram window manner, the Object Browser provides an organized, ordered view of the model and its contents. You can create, navigate and modify a model in the Object Browser.

To-Do list. The To-Do list feature allows you to write a note for unfinished actions. You can attach a to-do item to all model objects (entities, relationships, attributes, sequences, triggers, procedures, views). You can print the complete to-do list or export the list to a CSV file.

Version Control

Using DeZign for Databases, you can save different versions of a model for archiving, comparisons or altering a database purposes. These versions are stored in the project file.

Manage Versions. You can archive your current model, delete versions or edit the version label or the version comments. You can always return to an older version of your data model.

Automatically Save Versions. DeZign for Databases can automatically create a version of your data model when you save your project to disc and when you generate a database or alter a database.

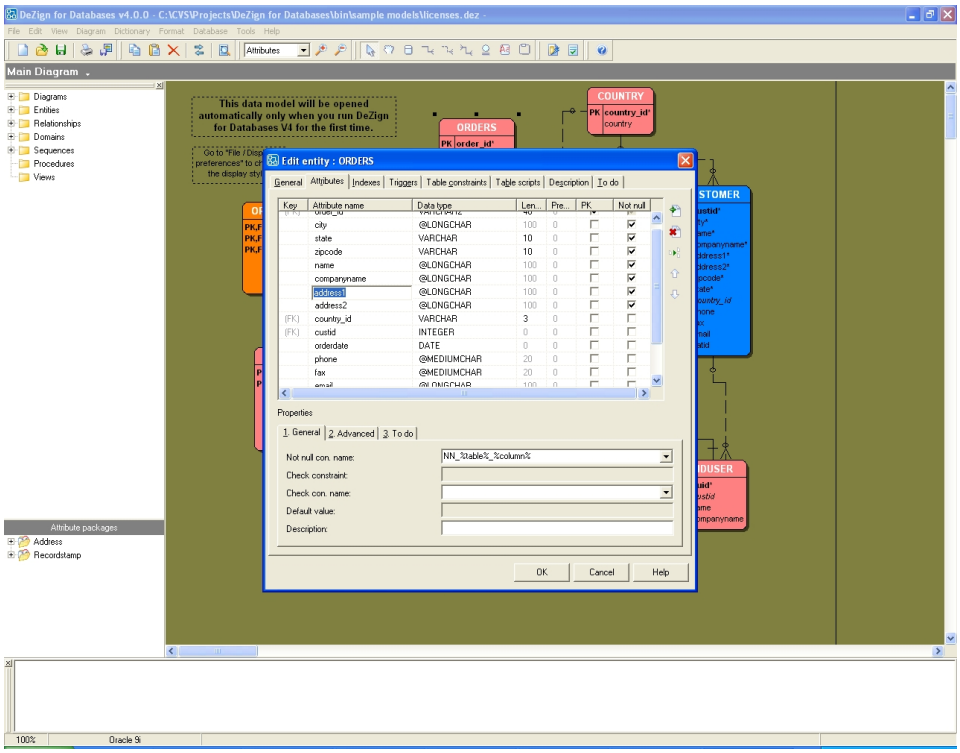
Compare Versions. DeZign for Databases offers advanced, bidirectional comparisons between two versions. Changes made to the data model will be made visible and DeZign for Databases can generate intelligent alteration to update your database.

Reporting

DeZign for Databases provides flexible, customizable reporting and printing capabilities.

HTML, MS Word and PDF reports. DeZign for Databases enables reporting and documentation of designs through generation of HTML, MS Word and PDF formatted reports with different levels of details for easy deployment of design information.

Export Diagram as Image. The diagram itself can be printed or exported as a bitmap, jpeg-image, gif-image or windows metafile.



Editing entity attributes.

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Supported Databases

Below the list of supported databases. Please note that Import database functionality is only available in the Professional and the Expert edition. Modify database and compare versions functionality is only available in the Expert edition

Database	Dia-gram-ming	Forward Enginee-ring	Reverse Engineering	Database Modifi-cations	Compare Data Models	Update Model
Clipper	Yes	Yes	Native connection	-	-	-
dBase	Yes	Yes	Native connection	-	-	-
DBISAM 4	Yes	Yes	Native connection	-	-	-
ElevateDB	Yes	Yes	Native connection	-	-	-
Firebird 1.5, 2	Yes	Yes	Native connection and SQL file import	Yes	Yes	Yes
FoxPro	Yes	Yes	Native connection	-	-	-
IBM DB2 Universal DB 7, 8	Yes	Yes	OLEDB connection and SQL file import	-	Yes	-
InterBase 5, 6, 7	Yes	Yes	Native connection and SQL file import	Yes	Yes	Yes
Informix 9	Yes	Yes	SQL file import	-	Yes	-
MS Access 95, 97, 2000 , 2003, 2007	Yes	Yes	ADO	Yes	Yes	Yes
MS SQL Server 6.5, 7 , 2000, 2005	Yes	Yes	ADO and SQL file import	Yes	Yes	Yes
MySQL 3, 4, 5	Yes	Yes	Native connection and SQL file import	Yes	Yes	Yes
NexusDB V1	Yes	Yes	Native connection	-	-	-
Oracle 7, 8, 9, 10, 11	Yes	Yes	Native connection and SQL file import	Yes	Yes	Yes
Paradox	Yes	Yes	BDE	-	-	-
Pervasive v8, PSQL v9	Yes	Yes	SQL file import	-	Yes	-
PostgreSQL 7, 8	Yes	Yes	Native connection and SQL file import	Yes	Yes	Yes
Sybase ASE 11, 12	Yes	Yes	SQL file import	-	Yes	-

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Compare DeZign for Databases V5 Editions

Std = Standard Edition
Pro = Professional Edition
Exp = Expert Edition

	Std	Pro	Exp
Visual Data Modeling			
Create database models (ER-diagramming)	Yes	Yes	Yes
IDEF1X Notation	Yes	Yes	Yes
Crow's Feet Notation	Yes	Yes	Yes
Subdiagrams	Yes	Yes	Yes
Autolayout diagram	Yes	Yes	Yes
Drag and drop database objects	Yes	Yes	Yes
Model validation	Yes	Yes	Yes
Data Dictionary			
Entities with attributes, indexes, constraints	Yes	Yes	Yes
Identifying and non-identifying relationships	Yes	Yes	Yes
Many-to-many relationships	Yes	Yes	Yes
Subcategories	Yes	Yes	Yes
Triggers	Yes	Yes	Yes
Views	Yes	Yes	Yes
Procedures/functions	Yes	Yes	Yes
Sequences/generators	Yes	Yes	Yes
Begin/End database and table scripts	Yes	Yes	Yes
Table options and index options	Yes	Yes	Yes
Reusable Objects			
Attribute packages	Yes	Yes	Yes
Domains	Yes	Yes	Yes
Reporting			
Print diagram	Yes	Yes	Yes
Configurable HTML, PDF, MS Word reports	Yes	Yes	Yes
Export diagram as image (JPG, GIF, BMP, WMF)	Yes	Yes	Yes
Miscellaneous			
Open file format (XML)	Yes	Yes	Yes
Internal editor with syntax highlighting	Yes	Yes	Yes
To-do list	Yes	Yes	Yes
Switch to another target database	Yes	Yes	Yes
Versions			
Archive current data model	Yes	Yes	Yes
Switch to an old version	Yes	Yes	Yes
Re-generate database for an old version	Yes	Yes	Yes
Compare data model versions	-	-	Yes
Automatically create/archive versions	-	-	Yes
Forward Engineering			
Generate database from data model	Yes	Yes	Yes
Generate drop script	Yes	Yes	Yes
Reverse Engineering			
Reverse engineer from many popular DBMS systems	-	Yes	Yes
Smart Relationship Finder to infer non declared relationships	-	Yes	Yes
Update model from database	-	Yes	Yes
Compare model with current database	-	Yes	Yes
Database Modification			
Update database based on changes made in the data model (generate intelligent alteration code)	-	-	Yes

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