

MEGA Database Builder

With MEGA Database Builder, you can align conceptual, logical, and physical data models and maintain consistency and traceability between them.

MEGA Database Builder Overview

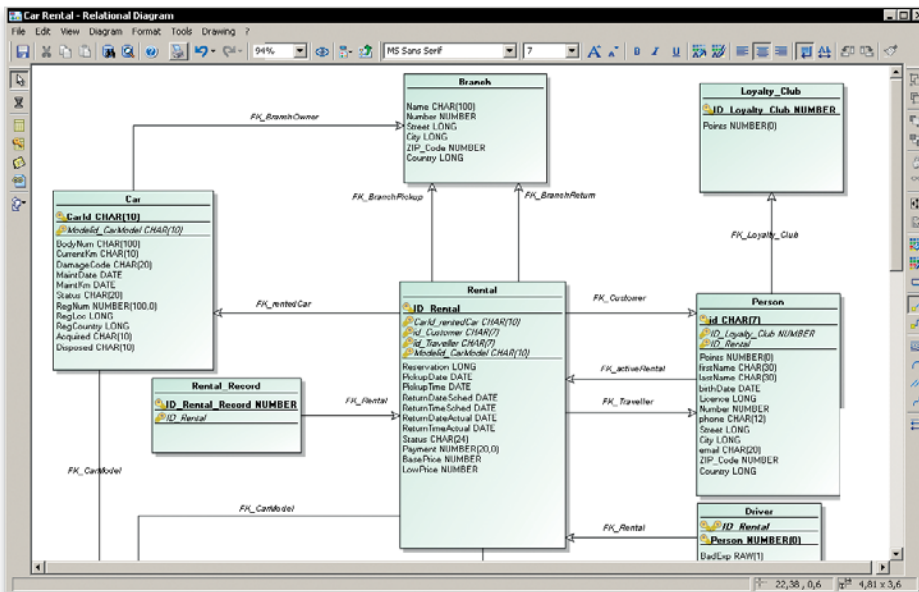
However fast your information systems evolve, data remains a key element of your business activities. MEGA Database Builder allows business analysts, data architects and database administrators to align various modeling layers.

MEGA Database Builder ensures the modeling of all levels of data architecture, from conceptual data models through to physical data models. It provides features to ensure the automatic transformation of one model into the other.

Coupled with MEGA System Blueprint, MEGA Database Builder provides natural links between service models, object models and data models.

KEY POINTS

- Supports the 3 levels of data models: conceptual, logical and physical.
- Guarantees consistency between the conceptual, logical and physical views.
- Signals modeling inconsistencies via consistency rules.
- Generates ready-to-use SQL scripts.
- Supports the integration of many standard notations, such as IDEF1X, IE and UML.
- Supports reverse engineering from many DBMSs.



MEGA Database Builder > Features

MEGA Database Builder is built on the MEGA Suite repository and benefits from its robustness and scalability. Ease and reusability are inherent services of this tool.

This product is part of the underlying MEGA Suite modeling tools. These tools support projects ranging from process analysis to risk and control mapping to application analysis and design.

Data Modeling

Corporate Data Models

- Data model to data model mapping editor
- Reusable data models
- Data model scope and responsibility
- Business data assets for enterprise architecture

Conceptual Data Models

- Conceptual data models
 - Database design
 - Application design
- Guided data modeling
 - Targeted diagrams with relevant modeling objects
 - Specifically designed meta model
- Multiple supported notations for interoperability, such as entity/association, IDEF1X, IE and UML

Extensive Database Support

Database Alignment

- Neutral and DBMS-specific data types
- SQL generation for the majority of relational DBMSs on the market, such as Oracle, DB2, SQL Server and MySQL
- Database schema reverse engineering for relational DBMSs
- Incremental generation

Interoperability

- Open generation toolkit
- Integration tools: Sybase PowerDesigner® importer, CA ERwin® importer, Oracle Designer importer

Database Modeling

Logical Models

- Relational diagrams to represent logical data models
- Standardized relational metamodel
- Intuitive database editor
- Automated transformation of data models into logical data models
- Mapping between data model objects and relational objects
- Denormalization wizards

Database Design

- Specialized editors for Views, Triggers and Stored Procedures
- DBMS-specific physical modeling
 - Full support of SQL grammar for Oracle, DB2, SQL Server and MySQL
 - Intelligent editor for implementation and optimization of the SQL

Consistency Rules

- Extensive sets of modeling consistency rules:
 - Data modeling
 - Database modeling
 - Database logical modeling
 - Database physical modeling
- Custom rules and regulations can be created
- Rule classifications: requirement, recommendation, suggestion
- Detailed validity reports



MEGA Suite

The MEGA Suite is comprised of four categories of products: modeling tools, control tools, transformation tools and communication tools.

The modeling tools support projects ranging from process analysis to risk and control mapping to application analysis and design. The MEGA Suite is modular, so each tool may be used independently or combined with other tools, depending on your project context. All products are based on a common repository and share the same platform services. The MEGA Suite also supports standard libraries and frameworks.



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