erwin® Data Modeler (erwin DM)

erwin®
the data governance company

AT A GLANCE

Data modeling is a proven technology for visualizing metadata and database schema to understand complex data sources, as well as design and deploy new ones. erwin has been the most trusted name in data modeling for more than 30 years and continues to enhance erwin DM based on customer input. Use it to discover and document any and all enterprise data assets from any location for consistency, clarity and artifact reuse across large-scale data integration, master data management, metadata management, Big Data, business intelligence and analytics initiatives – all while seeding data governance and intelligence efforts.

KEY BENEFITS/RESULTS

- Master hybrid data architectures and infrastructure to accelerate data-centric innovation.

- Increase data quality and consistency to reduce analysis, development and maintenance costs.

- Automate the documentation and migration of schema between database technologies and deployment platforms.

- Centralize model development for consistency and maximum reuse.

- Accelerate data source analysis and target schema design cycles in BI/analytics, master data management and data warehouse/data lake initiatives.

- Reduce data silos by implementing design and metadata management standards to simplify integration and improve enterprise collaboration.

KEY FEATURES

- Metadata and schema visualization for any enterprise data regardless of DBMS and whether it is deployed on premise or in the cloud

- Automated model and schema generation

- Rigorous standards definition and automation

- Model and database comparison and synchronization

- Model publication, ODBC query and metadata reporting

- Centralized model management and modeler collaboration services

- Model exchange (import/export) options to/from a wide variety of data management environments

- Interoperability with erwin Data Intelligence (erwin DI) for data catalog and data literacy capabilities

- Interoperability with erwin Evolve for enterprise architecture and business process modeling capabilities

SOLUTION OVERVIEW

erwin DM remains the gold standard in data modeling and comes in three versions to meet specific customer requirements.

erwin DM Standard Edition includes these key features:

- **Native, JDBC and ODBC connectivity —** Support a wide array of DBMS targets, including relational, big data and cloud databases.

- **Modern, configurable workspace —** Users can customize the modeling canvas and optimize access to the features and functionality they use most.

- **Visualization of complex data structures —** Automatically generate data models to visualize a wide range of enterprise sources through a single interface.

- **Database design generation —** Deploy database schema directly from visual models, increasing efficiency and reducing errors.

- **Schema migration —** Auto document and transform schema from one DBMS to another to support re-platforming and cloud database migrations (e.g., Snowflake, MariaDB, etc).

- **RE Scheduler —** Automate the offline reverse-engineering of databases into data models so modelers can focus on other activities.

- **Standards definition —** Increase quality and efficiency with reusable standards, including model templates, domains, automation macros, naming standards and datatype standards.

- **Model & database comparison —** The Complete Compare facility automates bidirectional synchronization of models, scripts and databases; compares one item with the other; displays any differences, and permits selective updates, generating ALTER scripts when necessary. Quick Compare templates automate and standardize comparison criteria for added efficiency and consistency.

- **Design transformation —** Customize and automate super-type/sub-type relationships between logical and physical models.

- **Model exchange —** Import/export models to/from a wide variety of data management environments for standardization and reuse across data management and governance efforts.

- **Reporting & publication —** The Report Designer's intuitive point-and-click interface and ODBC query tool create PDF, HTML and text-based reports for both diagrams and metadata.
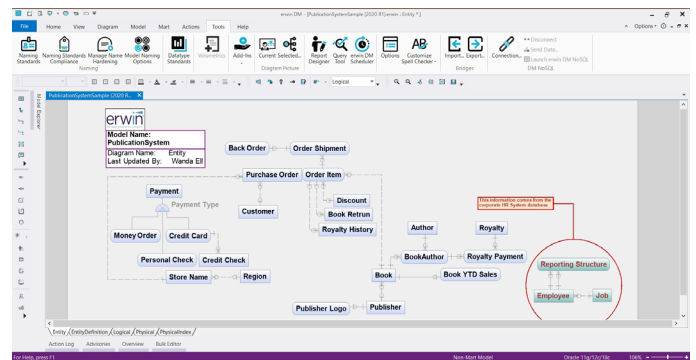
erwin DM Workgroup Edition adds the following model management and modeler collaboration features:

- **Centralized model management repository —** Store and provision data models, naming standards glossaries and standards templates in a shared repository for managed access, collaboration and cross-model analysis, and governing modeling practices and processes.

- **Collaborative modeling with conflict resolution —** Team members can work together more efficiently via concurrent model access with optional model locking, multi-user collision resolution, and independent model merge.

- **Change management & audit capabilities —** Controlling and tracking changes is critical to maintaining quality, consistency and audit compliance. Specific features include change impact analysis, version management and undo/redo capability over the life span of a model.

- **User permission & model security management —** Control model assets by managing user profiles and security settings, including authentication via LDAP.

- **Web-based model & repository administration —** An intuitive, web-based console allows administrators to manage marts, models, users, profiles, permissions, session locks, connections and more.

- **erwin DM Connect for DI —** Automatically harvest erwin data models and naming standards from the erwin DM Mart for ingestion and cataloging in erwin DI.

> erwin DM allows you to model and manage a wide range of complex data structures and includes a modern, customizable workspace.

erwin DM Navigator Edition provides read-only access for a wide range of roles for greater collaboration through the following key features:

- **Visualization and navigation of data models —** See data models in a secure, read-only environment for easy viewing and understanding of database structures and business definitions.

- **Impact analysis —** View and test the impact of changes to data models in a secure, read-only environment before changes are implemented.

- **Enterprise-wide view of data assets —** With access to the erwin DM Workgroup Edition model repository, users can obtain a central view of all enterprise data assets.

- **Reporting & publication —** The Report Designer's intuitive point-and-click interface can create PDF, HTML and text-based reports for both diagrams and metadata.

CRITICAL DIFFERENTIATORS

- **Visualization of any data from anywhere —** Unify enterprise data management by harmonizing platform inconsistencies for a single source of truth.

- **Modern, customizable modeling environment —** Automate complex and time-consuming tasks for more effective database design, standardization, deployment and maintenance. The configurable workspace enables users to customize the modeling canvas and optimize access to features and functionality to improve productivity.

- **Breadth of DBMS integrations & metadata bridges —** Design, auto document, engineer and transform schema for all major cloud and on-premise database platforms using models rich in metadata, thanks to built-in interfaces. erwin DM also provides out-of-the-box bridges for metadata exchange and transformation from other modeling environments, data management platforms and metadata exchange formats.

- **Model & database comparisons —** The Complete Compare facility, with Quick Compare templates, automates bidirectional synchronization of models, scripts and databases to keep model contents up to date. Without such automation, this task is time-consuming and error-prone.

- **Roundtrip engineering —** Forward- and reverse-engineering of database code, integration with erwin DM NoSQL and model exchange ensures efficiency, effectiveness and consistency in the design, standardization, documentation and deployment of data structures for comprehensive enterprise database management.

- **Data catalog & business glossary integration —** erwin DM is an essential source of metadata and the best way to view metadata. It's a critical enabler of data governance and intelligence, so we've enabled metadata from erwin data models to be auto harvested and then ingested into our data catalog and business glossary, part of the erwin DI Suite.

For more information, please visit www.erwin.com.