



## **Universal Data Models Repository For Investment and Securities Organizations**

*Save tremendous amounts of time and cost while increasing the quality of your data model and data warehouse design efforts.*

Universal Data Models offers a comprehensive best-practice data model repository for the financial services industry such as money manager, brokers, dealers, wealth management organizations, providing best practice models and saving modelers and designers thousands of hours.

The models covered within the financial services are:

- Parties involved such as issuing organizations, dealers, contra brokers and money managers, underwriters, financial institutions and financial advisors
- Financial objectives, needs and plans of investors
- Investment vehicle information such as equities, fixed income, mutual fund, derivatives, options, annuities and all forms of financial securities, as well as index information
- Financial investment product regulations and rules such as SEC regulatory requirements
- Agreement and contract information associated with accounts
- Financial account information such as holdings of securities, parties involved in the account and account performance.
- Details of the various financial account transactions such as buys, sells, purchase and redemptions
- Financial statement and account notification information
- Risk analysis models
- Analysis on performance, returns, assets managed, and activity of financial accounts (in star schema design)
- Transaction activity such as transactions and volumes for various types of transactions and types of securities (in star schema design)

Additionally, there are many generic Universal Data Models that apply to the investment and securities industry are included within and customized in this repository. These include models for:

- People, organizations, parties, roles, relationships and contact management
- Work requirements, work efforts, project management, time and expense tracking
- Invoicing, accounts receivable, accounts payable and banking
- Accounting, budgeting and asset management
- Human resources, position fulfillment and tracking, compensation, benefits, payroll, skills tracking, performance and termination
- Star schemas for sales analysis, human resources, financial analysis, work effort analysis, logistics analysis, purchase order analysis and inventory analysis

These models have full documentation not only in the repository but also in the best selling “The Data Model Resource Book, Volumes 1 and 2” (Wiley, 2001), enabling people using this repository to understand the data model design choices, alternatives and example data that could be used to populate the models. In a very short period of time, over 20,000 of these books have been sold worldwide and the industry model book is being translated into Chinese. The models in the repository are very similar to the models in the best selling book, except that they have been enhanced and improved over time as Universal Data Models continues to implement these models.

This repository has proven data model and data warehouse constructs which Len Silverston, lead author of the best-selling ‘The Data Model Resource Book’, has personally developed together with some of the leading data model experts in the industry.

Universal Data Models, LLC has successfully implemented these models in a great variety of small, medium and large organizations, helping them to build solid data architectures and saving tremendous amounts of money in the process.

Data objects stored in the repository include entities, entity definitions, attributes, attribute definitions, attribute characteristics (size, types, constraints, etc.), unique identifiers, relationships, domains, entity to table mappings, tables, table definitions, columns, column definitions, column characteristics (size, type, constraints), primary keys, indexes, and database constraints. The repository includes definitions for repository objects such as entities, attributes, tables, columns and subject data areas. These are designed to be a starting point for defining these objects and many can be easily tailored to meet the needs of your organization.

The Universal Data Model Repository has all the required elements to generate SQL immediately for the models included in the repository. Alternatively, one can make modifications to the data objects contained in the repository and generate new SQL, customized for your own organization.

The repository has 120 comprehensive, re-usable entity-relationship diagrams, 858 entities, 2709 attributes, with corresponding tables and columns for these entities and columns with definitions as well as domains and database constraints defining these data objects.

The current repository is maintained in Erwin software so that it can easily be maintained and/or transferred to other case tool formats.

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