

# Universal Data Models



## Accelerate Your Data Modeling Efforts

Developed by renowned author and modeling expert Len Silverston, these time-proven models have been continuously improved over the years and have been implemented by hundreds of companies that have benefitted from a complete set of data models that ensures quality, reduces development time and facilitates standardization of existing data models and definitions

### Achieving High Quality Models

The Universal Data Models (UDMs) have been developed by a team of experienced data modelers. The models have been refined based on hundreds of implementations and are laid out for easy navigation, including full attributes and detailed definitions for every attribute. They make enterprise data models more accessible to small & medium-sized businesses that previously had to forego them due to budget or IT constraints.

### Reduce Development Time and Ensure Quality

The UDMs reduce development time and ensure quality. Development time is reduced by using a powerful set of data models and data warehouse designs that serve as templates to jump-start database development projects. They include proven models for common business functions such as ordering and managing products, handling shipments, invoicing, accounting and budgeting, managing human resources, contact management and project management. New models can be laid out and categorized into subject data areas reducing data model development and maintenance time by an average of 60%, as well as improve the quality of existing data models. Users can save even more time with the industry-specific extensions for Healthcare, Telecommunications, Manufacturing, Banking, Investments & Financial Services, Insurance, Professional Services and Travel.

### Benefits

- Achieve high-quality models
- Reduce development time
- Improve consistency & standardization

### Reduce Development Time and Ensure Quality

The Universal Data Models enable users to be consistent with other organizations and improve quality assurance by referencing hundreds of integrated, "best practice" models. UDM customers can refer to a standard, proven source for models that are easily able to handle conflicting opinions regarding data modeling. All of the models contain a full set of entities, relationships, attributes and detailed definitions. The models are available for nine different subject areas as a complete and integrated general business model, and seven industry-specific add-ons. The models are also a great resource for enterprise data modeling, master data management, data warehouse, data governance, data quality, big data programs, canonical/semantic models, ontologies, and any effort where data models can help. Available in Erwin, SAP PowerDesigner, and ER/Studio formats.

[www.sandhillconsultants.com](http://www.sandhillconsultants.com)

 (905) 847-5882

 [info@sandhillconsultants.com](mailto:info@sandhillconsultants.com)



[linkedin.com/company/sandhill-consultants-na](https://www.linkedin.com/company/sandhill-consultants-na)



[@sandhillna](https://twitter.com/sandhillna)

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Features	Description
<b>General Business Data Models</b>	
General Business Data Models are subject area data models providing a framework and re-usable constructs for common corporate subject areas and are a jumpstart for any company working on specific modeling efforts or striving to define a common data model. Each entity includes primary keys, foreign keys (when applicable), and full descriptions for both entities and attributes.	
People & Organizations	Includes entities such as PARTY, PARTY ROLE, ORGANIZATION, PERSON, and POSTAL ADDRESS
Product	Includes entities such as PRODUCT, SERVICE, GOOD, FEATURE TYPE, and INVENTORY ITEM
Orders & Agreements	Includes entities such as ORDER, AGREEMENT, REQUIREMENT, QUOTE, and RFP
Shipments & Deliveries	Includes entities such as SHIPMENT, RECEIPT, ISSUANCE, SHIPPING DOCUMENT, and SHIPMENT ROUTE SEGMENT
Work Effort & Project Management	Includes entities such as WORK REQUIREMENT, WORK EFFORT, TIME ENTRY, and RATE TYPE
Invoice & Time Billing	Includes entities such as INVOICE, BILLING ACCOUNT, PAYMENT, and FINANCIAL ACCOUNT
Accounting & Budgeting	Includes entities such as GENERAL LEDGER ACCOUNT, ACCOUNTING TRANSACTION, BUDGET, BUDGET SCENARIO, and PLANNING TRANSACTION
Human Resources	Includes entities such as EMPLOYEE, POSITION, RESPONSIBILITY TYPE, SKILL TYPE, SALARY, and BENEFIT
Web and e-Commerce	Includes entities such as USER PREFERENCE, WEB ADDRESS, OBJECT CONTENT FRAME, SERVER HIT, and WEB VISIT

Features	Description
<b>Industry-Specific Data Models</b>	
The industry area data models provide a framework and re-usable constructs for various industry areas and are a jumpstart for any company working on a modeling effort within a particular industry. The models include all the subject area corporate models shown above that are integrated into the industry constructs. Each entity has primary keys, foreign keys (when applicable), and full descriptions for both entities and attributes.	
Banking, Investments, & Financial Services	Includes entities such as ACCOUNT, INVESTMENT VEHICLE, SECURITY, SAVINGS ACCOUNT, OBJECTIVE, RISK ANALYSIS, PERFORMANCE CHARACTERISTIC TYPE, YIELD TYPE, FINANCIAL POSITION, MORTGAGE, SCHEDULED PAYMENT DUE, FINANCIAL AGREEMENT, and ACCOUNT NOTIFICATION
Healthcare	Includes entities such as PATIENT, INSURED PARTY, INSURANCE PROVIDER, HOSPITAL, MEDICAL OFFICE, HEALTH CARE VISIT, HEALTH CARE EPISODE, CLAIM, and SETTLEMENT
Insurance	Includes entities such as INSURANCE AGENCY, PAYOR, INSURANCE PRODUCT, COVERAGE LEVEL, COVERAGE TYPE, ACTUARIAL ANALYSIS, RATE, APPLICATION, QUOTE, INSURANCE POLICY, PREMIUM SCHEDULE, and CLAIM
Manufacturing	Includes entities such as DISTRIBUTION CHANNEL, PART, RAW MATERIAL, PART SPECIFICATIONS, ENGINEERING CHANGES, MANUFACTURING BOM, MANUFACTURING ORDER, and PROCESS PLAN
Professional Services	Includes entities such as PROFESSIONAL RESOURCE REQUIREMENT, SKILL TYPE, RFI, RFQ, RFP, ENGAGEMENT, ENGAGEMENT RATE, PROFESSIONAL ASSIGNMENT, SERVICE ENTRY, and WORK EFFORT
Telecommunications	Includes entities such as TELECOMMUNICATIONS CARRIER, REGULATORY AGENCY, NETWORK COMPONENT, NETWORK ASSEMBLY, DEPLOYMENT, and SERVICE ORDER
Travel	Includes entities such as TRAVELER, TRAVEL PREFERENCES, TRAVEL RESERVATION, TICKET, SALE, SCHEDULED TRANSPORTATION, ACCOMMODATION CLASS, and TRAVEL EXPERIENCE
Education and Training	Includes entities such as STUDENT, EDUCATOR, STAFF, EDUCATIONAL EVENT, ASSESSMENT, ASSESSMENT QUESTION, ASSESSMENT RESULT, PROFICIENCY LEVEL, TEACHER SECTION ASSIGNMENT, CERTIFICATION

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