UDM Framework Core Domains

Universal Schema Domains and Data Models

Introduction

The UDM Framework organizes data into logical domains that represent universal business concepts. These domains are industry-agnostic, meaning they adapt to any business model while maintaining consistent patterns and relationships. This document details each core domain, its purpose, key entities, and cross-domain relationships.

Domain Architecture Overview

The Seven Core Domains

```
graph TB
   subgraph Sales["1. SALES DOMAIN"]
       Orders[Orders]
       Leads [Leads]
        Invoices[Invoices]
        Transactions [Transactions]
    end
    subgraph Finance["2. FINANCE DOMAIN"]
        Payments[Payments]
       Revenue [Revenue Recognition]
       Invoicing[Invoicing]
    end
    subgraph Product["3. PRODUCT DOMAIN"]
        Products[Products]
        ProductGroups[Product Groups]
        Offers[Offers]
    end
```

```
subgraph Contact["4. CONTACT DOMAIN"]
    Customers [Customers]
    Users[Users]
    Households[Households]
    Organizations[Organizations]
end
subgraph Marketing["5. MARKETING DOMAIN"]
    Campaigns[Campaigns]
    Channels[Channels]
    Publishers[Publishers]
    AdSpend[Ad Spending]
end
subgraph Reference["6. REFERENCE DOMAIN"]
    SourceSystem[SourceSystem]
    ColumnMapping[ColumnMapping]
    PropertyRef[PropertyReference]
    Lookups[Lookup Tables]
end
subgraph Fallout["7. FALLOUT DOMAIN"]
    FalloutTable[Fallout Table]
    ErrorCodes[Error Codes]
    Monitoring [Monitoring Views]
end
Sales --> Finance
Sales --> Product
Sales --> Contact
Sales --> Marketing
Finance --> Contact
Product --> Sales
Contact --> Sales
Marketing --> Sales
Reference -.->|Configures| Sales
Reference -.->|Configures| Finance
Reference -.->|Configures| Product
Reference -.->|Configures| Contact
Reference -.->|Configures| Marketing
```

```
Fallout -.->|Tracks Quality| Sales
Fallout -.->|Tracks Quality| Finance
Fallout -.->|Tracks Quality| Product

style Sales fill:#e3f2fd
style Finance fill:#e8f5e9
style Product fill:#fff3e0
style Contact fill:#f3e5f5
style Marketing fill:#fce4ec
style Reference fill:#fff9c4
style Fallout fill:#ffebee
```

1. Sales Domain

Purpose

The Sales domain captures all revenue-generating transactions and customer interactions that lead to sales. It's the heart of the business data warehouse, tracking orders, leads, invoices, and the entire sales lifecycle.

Key Entities

1.1 Orders

Primary Table: Sales.Order

Purpose: Core transactional records of customer purchases/orders

Key Columns:

```
CREATE TABLE [Sales].[Order](

[OrderId] [bigint] IDENTITY(1,1) NOT NULL, -- Surrogate key

[OrderNK] [nvarchar](100) NOT NULL, -- Natural key

[OrderDate] [datetime] NULL, -- When order pl

[CustomerId] [bigint] NULL, -- FK to Contact

[ProductId] [bigint] NULL, -- FK to Product

[CampaignId] [bigint] NULL, -- FK to Marketi

[OrderStatusId] [int] NULL, -- FK to OrderSt
```

```
[Amount] [decimal] (18,2) NULL, -- Order value

[ValidFromDate] [date] NULL, -- Timeslice state

[ValidToDate] [date] NULL, -- Timeslice end

[SourceSystemId] [bigint] NOT NULL, -- Source tracea

[SourceSystemIdentifier] [nvarchar] (100) NULL, -- Source PK

CONSTRAINT [PK_Order] PRIMARY KEY ([OrderId])
```

Companion Tables:

- Sales.OrderProperties: EAV for flexible order attributes
- Sales.OrderStatusHistory: Track status changes over time

Industry Examples:

- **E-Commerce**: Product purchases
- **Price Comparison**: Comparison service orders
- **Subscriptions**: Subscription activations
- **B2B**: Service contracts

1.2 Leads

Primary Table: Sales.Lead

Purpose: Potential customers or sales opportunities before conversion

Key Columns:

```
CREATE TABLE [Sales].[Lead] (
   [LeadId] [bigint] IDENTITY(1,1) NOT NULL,
    [LeadNK] [nvarchar] (100) NOT NULL,
    [LeadDate] [datetime] NULL,
    [ContactId] [bigint] NULL,
                                                           -- FK to Contact
    [ProductId] [bigint] NULL,
                                                           -- Product of in
    [LeadSourceId] [int] NULL,
                                                           -- Where lead ca
    [LeadStatusId] [int] NULL,
                                                           -- Current stati
    [ConvertedToOrderId] [bigint] NULL,
                                                           -- Conversion to
    [ValidFromDate] [date] NULL,
    [ValidToDate] [date] NULL,
    [SourceSystemId] [bigint] NOT NULL,
```

```
CONSTRAINT [PK_Lead] PRIMARY KEY ([LeadId])
```

Use Cases:

- Marketing funnel analysis
- Conversion rate tracking
- Lead scoring and qualification
- Sales pipeline management

1.3 Invoices

Primary Table: Sales.Invoice

Purpose: Billing documents and payment requests

Key Relationships:

- Links to Orders (one order → multiple invoices)
- Links to Customers
- Links to Finance domain for payment tracking

Attributes:

- Invoice number, date, due date
- Line items and amounts
- Tax calculations
- Payment terms
- Invoice status (sent, paid, overdue)

1.4 Order Status

Primary Table: Sales.OrderStatus

Purpose: Dimension table for order lifecycle states

Examples:

- Pending
- Confirmed
- Processing

- Shipped
- Delivered
- Completed
- Cancelled
- Refunded

Pattern: Type 2 SCD with timeslices for status definitions that change over time

Cross-Domain Relationships

Sales → Contact:

- Every order/lead links to a customer/user
- Enables customer lifetime value analysis

Sales → Product:

- Orders reference products purchased
- Product performance analysis

Sales → Marketing:

- Campaign attribution
- Channel effectiveness

Sales → Finance:

- Revenue recognition
- Payment reconciliation

2. Finance Domain

Purpose

The Finance domain manages financial data including payments, revenue tracking, invoicing, and accounting integration. It provides the financial view of business operations.

Key Entities

2.1 Payments

Primary Table: Finance.Payment

Purpose: Track customer payments and payment methods

Key Columns:

```
CREATE TABLE [Finance].[Payment](
    [PaymentId] [bigint] IDENTITY(1,1) NOT NULL,
    [PaymentNK] [nvarchar] (100) NOT NULL,
    [PaymentDate] [datetime] NULL,
    [InvoiceId] [bigint] NULL,
                                                        -- Link to invoid
    [CustomerId] [bigint] NULL,
                                                         -- Link to custor
    [Amount] [decimal] (18,2) NULL,
    [PaymentMethodId] [int] NULL,
                                                        -- Card, bank, et
    [PaymentStatusId] [int] NULL,
                                                        -- Success, faile
    [TransactionReference] [nvarchar](200) NULL,
                                                        -- External refer
    [ValidFromDate] [date] NULL,
    [ValidToDate] [date] NULL,
    [SourceSystemId] [bigint] NOT NULL,
    CONSTRAINT [PK Payment] PRIMARY KEY ([PaymentId])
```

Payment Methods:

- Credit/Debit Card
- Bank Transfer
- Digital Wallets (PayPal, Stripe, etc.)
- Cash
- Check

2.2 Revenue Recognition

Purpose: Track revenue according to accounting rules

Attributes:

- Recognition date
- Recognition method (upfront, amortized, usage-based)
- Recognized amount vs. invoiced amount
- Deferred revenue tracking

2.3 Invoicing

Integration with Sales:

- Invoice header (from Sales or Finance)
- Invoice line items
- Tax calculations
- Payment application

2.4 Financial Dimensions

Cost Centers: Organizational units for financial tracking

GL Accounts: General ledger account mapping

Business Units: Multi-entity accounting

Cross-Domain Relationships

Finance → **Sales**:

- Payments link to orders and invoices
- Revenue recognition based on sales

Finance → Contact:

- Customer payment history
- Credit management

3. Product Domain

Purpose

The Product domain maintains the catalog of products, services, or offerings that the business sells. It includes hierarchies, attributes, pricing, and product lifecycle management.

Key Entities

3.1 Products

Primary Table: Product.Product

Purpose: Core product catalog

Key Columns:

```
CREATE TABLE [Product].[Product](

[ProductId] [bigint] IDENTITY(1,1) NOT NULL,

[ProductNK] [nvarchar](100) NOT NULL,

[ProductDescription] [nvarchar](max) NULL,

[ProductGroupId] [bigint] NULL,

[SKU] [nvarchar](50) NULL,

[Price] [decimal](18,2) NULL,

[IsActive] [bit] NULL,

[ValidFromDate] [date] NOT NULL,

[ValidToDate] [date] NOT NULL,

[SourceSystemId] [bigint] NOT NULL,

CONSTRAINT [PK_Product] PRIMARY KEY ([ProductId])
```

Companion Tables:

- Product.ProductProperties: EAV for flexible product attributes
- Product.ProductImage: Product photos/media
- Product.ProductPricing: Price history and variations

Industry Adaptations:

- **E-Commerce**: Physical goods, variants (size, color)
- Price Comparison: Energy plans, insurance policies
- **SaaS**: Subscription tiers, features
- Mobile: Carrier plans, data packages

3.2 Product Groups / Categories

Primary Table: Product.ProductGroup

Purpose: Hierarchical product organization

Structure:

```
CREATE TABLE [Product].[ProductGroup](

[ProductGroupId] [bigint] IDENTITY(1,1) NOT NULL,

[ProductGroupNK] [nvarchar] (100) NOT NULL,

[ProductGroupName] [nvarchar] (200) NULL,

[ParentProductGroupId] [bigint] NULL,

[Level] [int] NULL,

[ValidFromDate] [date] NULL,

[ValidToDate] [date] NULL,

[SourceSystemId] [bigint] NOT NULL,

CONSTRAINT [PK_ProductGroup] PRIMARY KEY ([ProductGroupId])
```

Hierarchy Example:

```
Level 1: Electronics

Level 2: Computers

Level 3: Laptops

Level 3: Desktops

Level 2: Mobile Devices

Level 3: Smartphones

Level 3: Tablets
```

3.3 Offers

Primary Table: Product.Offer

Purpose: Special pricing, promotions, or bundled products

Attributes:

- Offer name and description
- Discount type (percentage, fixed amount)
- Valid date range
- Product applicability
- Terms and conditions

3.4 Suppliers / Vendors

Primary Table: Product.Supplier

Purpose: Track product sources for procurement

Relationships:

- Products link to suppliers
- Pricing variations by supplier
- Inventory management

Cross-Domain Relationships

Product → **Sales**:

- Orders reference products
- Product performance metrics

Product → **Marketing**:

- Campaigns promote specific products
- Product recommendations

Product → **Contact**:

- Product preferences per customer
- Personalization

4. Contact Domain

Purpose

The Contact domain manages all person and organization entities that interact with the business: customers, users, households, companies, and their relationships.

Key Entities

4.1 Customers

Primary Table: Contact.Customer

Purpose: Business relationship with an individual or organization

Key Columns:

```
CREATE TABLE [Contact].[Customer](

[CustomerId] [bigint] IDENTITY(1,1) NOT NULL,

[CustomerNK] [nvarchar](100) NOT NULL,

[CustomerName] [nvarchar](200) NULL,

[CustomerType] [nvarchar](50) NULL,

[Email] [nvarchar](200) NULL,

[Phone] [nvarchar](50) NULL,

[SegmentId] [int] NULL,

[IsActive] [bit] NULL,

[ValidFromDate] [date] NOT NULL,

[ValidToDate] [date] NOT NULL,

[SourceSystemId] [bigint] NOT NULL,

CONSTRAINT [PK_Customer] PRIMARY KEY ([CustomerId])
```

Companion Tables:

- Contact.CustomerProperties: EAV for custom attributes
- Contact.CustomerAddress: Multiple addresses per customer
- Contact.CustomerSegment: Segmentation rules

4.2 Users

Primary Table: Contact.User

Purpose: Individual people who interact with the business (may or may not be customers)

Distinction:

- **User**: Individual person with login, identity
- **Customer**: Business relationship, may represent household or organization
- Relationship: One customer can have multiple users; one user can belong to multiple customers

Attributes:

- User credentials (hashed, or reference to auth system)
- Personal information
- Preferences

Activity history

4.3 Households

Primary Table: Contact.Household

Purpose: Group related individuals (family units)

Use Cases:

- B2C businesses where purchasing decisions are household-level
- Utility services (energy, telecom)
- Insurance products
- Subscription services

Relationships:

- Multiple contacts belong to one household
- Household-level offers and marketing

4.4 Organizations

Primary Table: Contact.Organization

Purpose: Companies or institutions (B2B scenarios)

Attributes:

- Company name
- Industry
- Size (employees, revenue)
- Parent company (hierarchy)
- Account manager

4.5 Contact Relationships

Primary Table: Contact.ContactRelationship

Purpose: Map relationships between contacts

Relationship Types:

• Family member

- Business partner
- Referral
- Decision maker / influencer

Cross-Domain Relationships

Contact → **Sales**:

- Customers place orders
- Lead-to-customer conversion

Contact → **Finance**:

- Payment history
- Credit limits
- Billing information

Contact → **Marketing**:

- Campaign targeting
- Segmentation
- Communication preferences

5. Marketing Domain

Purpose

The Marketing domain tracks all marketing activities: campaigns, channels, publishers, ad spending, and attribution. It enables marketing performance analysis and ROI calculation.

Key Entities

5.1 Campaigns

Primary Table: Marketing.Campaign

Purpose: Marketing initiatives with specific goals and budgets

Key Columns:

```
CREATE TABLE [Marketing].[Campaign] (
    [CampaignId] [bigint] IDENTITY(1,1) NOT NULL,
    [CampaignNK] [nvarchar] (100) NOT NULL,
    [CampaignName] [nvarchar] (200) NULL,
    [CampaignType] [nvarchar] (50) NULL,
                                                         -- Email, Social,
    [StartDate] [date] NULL,
    [EndDate] [date] NULL,
    [Budget] [decimal] (18,2) NULL,
    [ChannelId] [bigint] NULL,
                                                          -- FK to Channel
    [ValidFromDate] [date] NOT NULL,
    [ValidToDate] [date] NOT NULL,
    [SourceSystemId] [bigint] NOT NULL,
   CONSTRAINT [PK Campaign] PRIMARY KEY ([CampaignId])
)
```

Campaign Types:

- Email marketing
- Social media (Facebook, Instagram, LinkedIn)
- Search engine marketing (Google Ads, Bing Ads)
- Display advertising
- Content marketing
- Affiliate marketing
- Influencer marketing

5.2 Channels

Primary Table: Marketing.Channel

Purpose: High-level marketing channels (aggregated view)

Examples:

- Organic Search (SEO)
- Paid Search (SEM)
- Direct
- Referral
- Social Media
- Email
- Affiliate

Display

Usage:

- Attribution modeling
- Channel mix optimization
- Budget allocation

5.3 Publishers

Primary Table: Marketing.Publisher

Purpose: Third-party sites/platforms where ads appear

Examples:

- Google Ads
- Facebook
- Affiliate networks
- Display ad networks
- Influencer channels

Attributes:

- Publisher name
- Publisher type
- Commission structure
- Performance metrics

5.4 Ad Spending

Primary Table: Marketing.AdSpend

Purpose: Track marketing costs at granular level

Key Columns:

```
CREATE TABLE [Marketing].[AdSpend](

[AdSpendId] [bigint] IDENTITY(1,1) NOT NULL,

[SpendDate] [date] NOT NULL,

[CampaignId] [bigint] NULL,

[ChannelId] [bigint] NULL,
```

```
[PublisherId] [bigint] NULL,
[Amount] [decimal](18,2) NULL,
[Clicks] [int] NULL,
[Impressions] [bigint] NULL,
[SourceSystemId] [bigint] NOT NULL,
CONSTRAINT [PK_AdSpend] PRIMARY KEY ([AdSpendId])
)
```

Metrics:

- Cost per click (CPC)
- Cost per thousand impressions (CPM)
- Click-through rate (CTR)

5.5 Attribution

Purpose: Link orders/revenue back to marketing touchpoints

Patterns:

- First-touch attribution
- Last-touch attribution
- Multi-touch attribution
- Time-decay models

Implementation:

- Orders include CampaignId, Channelld, PublisherId
- Attribution views calculate ROI by marketing dimension

Cross-Domain Relationships

Marketing → Sales:

- Campaign attribution on orders
- Conversion tracking

Marketing → Contact:

- Campaign targeting
- Customer acquisition source

Marketing → **Finance**:

- Marketing spend vs. revenue
- ROI calculation

6. Reference Domain

Purpose

The Reference domain contains framework metadata, configuration tables, and shared lookup values. It's the "glue" that holds the framework together and enables metadata-driven ETL.

Key Entities

6.1 SourceSystem

Primary Table: Reference.SourceSystem

Purpose: Master configuration for all data source mappings

See Framework Philosophy document for detailed structure

Usage:

- Defines source-to-target mappings
- Controls ETL behavior
- Enables dynamic pipeline generation

6.2 SourceColumnMapping

Primary Table: Reference.SourceColumnMapping

Purpose: Column-level mapping between source and target

Usage:

- Maps source column names to target aliases
- Enables Flow table generation
- Handles naming inconsistencies across sources

6.3 PropertyReference

Primary Table: Reference.PropertyReference

Purpose: Control which EAV properties are active

Workflow:

- 1. System discovers available properties from sources
- 2. Data stewards review and enable relevant properties
- 3. ETL automatically loads enabled properties

6.4 Lookup Tables

Common Lookups:

- Countries, states, cities
- Currencies
- Time dimensions (date, calendar)
- Business units
- Status codes

Pattern:

- Simple dimension tables
- Often manually populated or from external standards (ISO codes)
- Shared across domains

Framework Tables

Metadata Tables:

- Reference.SourceSystem
- Reference.SourceColumnMapping
- Reference.PropertyReference

Configuration Tables:

- Reference.ErrorCode (fallout error definitions)
- Reference.DataType (type mappings)

7. Fallout Domain

Purpose

The Fallout domain tracks data quality issues, ETL errors, and provides a resolution workflow. It's unique to the UDM Framework and critical for data governance.

Key Entities

7.1 Fallout

Primary Table: Fallout.Fallout

Purpose: Log data quality issues for resolution

See Framework Philosophy document for detailed structure

Key Columns:

• Falloutld: Unique identifier

• ErrorCodeld: Type of error

• SourceSystemId: Which source had the issue

• SourceSystemIdentifier: Specific record with issue

• InsertDate: When error occurred

SolveDate: When resolved (NULL if open)

7.2 ErrorCode

Primary Table: Fallout.ErrorCode

Purpose: Define types of data quality issues

Standard Error Codes:

• 11, 12, 13, etc.: Missing foreign keys (one per dimension)

• 20-29: Data type/format errors

• 30-39: Business rule violations

• 40-49: Duplicate detection

• 50-59: Data completeness issues

7.3 Fallout Views

VW_TotalFallout: Summary of open issues

```
CREATE VIEW [Fallout].[VW_TotalFallout] AS

SELECT

ss.SourceDescription,
ec.ErrorDescription,
COUNT(*) as FalloutCount,
MAX(f.InsertDate) as LatestFallout,
MIN(f.InsertDate) as OldestFallout

FROM Fallout.Fallout f

JOIN Reference.SourceSystem ss ON f.SourceSystemId = ss.SourceSystemId

JOIN Fallout.ErrorCode ec ON f.ErrorCodeId = ec.ErrorCodeId

WHERE f.SolveDate IS NULL

GROUP BY ss.SourceDescription, ec.ErrorDescription
```

Usage:

- Daily data quality dashboards
- SLA monitoring
- Root cause analysis

Fallout Resolution Workflow

- 1. **Detection**: ETL identifies issue, logs to Fallout
- 2. **Alert**: Monitoring system notifies data steward
- 3. Analysis: Review fallout records, identify root cause
- 4. Fix: Correct at source or adjust business rules
- 5. **Reprocess**: Re-run ETL for corrected records
- 6. **Close**: SolveDate updated automatically when record processes successfully

Additional Domains (Industry-Specific Extensions)

While the seven core domains are universal, implementations often add industry-specific domains:

Interaction Domain

Purpose: Customer interactions beyond purchases

Entities:

- Customer service calls
- Chat sessions
- Support tickets
- Website visits

Industries: Call centers, customer support, SaaS

Inventory Domain

Purpose: Stock levels, warehousing, fulfillment

Entities:

- Inventory levels
- Warehouses
- Stock movements
- Reorder points

Industries: Retail, e-commerce, manufacturing

ResultLog Domain

Purpose: Customer journey tracking (specific to Pricewise/CC)

Entities:

- User sessions
- Search queries
- Comparison actions
- Clicks and conversions

Industries: Price comparison, affiliate marketing

Cross-Domain Entity Relationship Diagram

Core Relationships

```
erDiagram
   Contact ||--o{ Order : "places"
   Product ||--o{ Order : "purchased in"
   Marketing | | --o{ Order : "attributed to"
   Order | | --o{ Invoice : "generates"
    Invoice ||--o{ Payment : "paid by"
   Contact {
       bigint CustomerId PK
       nvarchar CustomerNK UK
       nvarchar CustomerName
       nvarchar Email
       date ValidFromDate
       date ValidToDate
       bigint SourceSystemId FK
   Product {
       bigint ProductId PK
       nvarchar ProductNK UK
       nvarchar ProductName
       bigint ProductGroupId FK
       date ValidFromDate
       date ValidToDate
       bigint SourceSystemId FK
   Marketing {
       bigint CampaignId PK
       nvarchar CampaignNK UK
       nvarchar CampaignName
       bigint ChannelId FK
       date StartDate
       date EndDate
       bigint SourceSystemId FK
    }
   Order {
       bigint OrderId PK
       nvarchar OrderNK UK
        datetime OrderDate
```

```
bigint CustomerId FK
    bigint ProductId FK
    bigint CampaignId FK
    decimal Amount
    bigint SourceSystemId FK
Invoice {
    bigint InvoiceId PK
    nvarchar InvoiceNK UK
   bigint OrderId FK
    bigint CustomerId FK
    decimal Amount
    datetime InvoiceDate
   bigint SourceSystemId FK
Payment {
    bigint PaymentId PK
    nvarchar PaymentNK UK
    bigint InvoiceId FK
   bigint CustomerId FK
    decimal Amount
    datetime PaymentDate
   bigint SourceSystemId FK
}
Reference {
    bigint SourceSystemId PK
    nvarchar SourceDescription
   nvarchar SourceDatabase
   nvarchar SourceTable
   nvarchar TargetSchema
   nvarchar TargetTable
Fallout {
    int FalloutId PK
    int ErrorCodeId FK
    bigint SourceSystemId FK
    nvarchar SourceSystemIdentifier
    datetime InsertDate
```

```
Reference ||--o{ Contact : "configures"
Reference ||--o{ Product : "configures"
Reference ||--o{ Order : "configures"
Reference ||--o{ Invoice : "configures"
Reference ||--o{ Marketing : "configures"
Fallout ||--o{ Order : "tracks_quality"
Fallout ||--o{ Contact : "tracks_quality"
Fallout ||--o{ Product : "tracks_quality"
```

Key Relationship Patterns

Hub-and-Spoke:

- Sales.Order is the central hub
- Spokes to Contact, Product, Marketing, Finance

Hierarchies:

- Product.ProductGroup (self-referencing)
- Contact.Organization (parent company)
- Marketing.Channel (sub-channels)

Many-to-Many (via Bridge tables):

- Contact-to-Contact relationships
- Product bundles
- Campaign-to-Product associations

Temporal Relationships:

- All entities have ValidFromDate/ValidToDate
- Point-in-time joins require date range matching

Domain Design Principles

1. Normalized in DWH, Denormalized in Reporting

DWH Layer: Proper normalization

- Reduces redundancy
- Ensures data integrity
- Simplifies updates

Reporting Layer: Denormalized views

- Optimizes query performance
- Simplifies user queries
- Pre-joins dimensions

2. Consistent Patterns Across Domains

Every Entity Has:

- Surrogate key (Id)
- Natural key (NK)
- Valid date range (ValidFromDate, ValidToDate)
- Source traceability (SourceSystemId, SourceSystemIdentifier)

Every Domain Has:

- Core entity tables
- Property tables (EAV) where applicable
- Dimension tables for lookups
- Supporting tables for relationships

3. Flexible Extension Points

Property Tables: Add attributes without schema changes

Custom Schemas: Add industry-specific domains alongside core **Views**: Create custom reporting structures without altering DWH

Conclusion

The UDM Framework's domain architecture provides:

- 1. Universal Applicability: Core domains work across industries
- 2. Clear Organization: Logical grouping of related entities

- 3. **Consistent Patterns**: Same design principles throughout
- 4. **Flexibility**: EAV and custom domains for specific needs
- 5. **Traceability**: Source system tracking on every record
- 6. **Quality**: Built-in fallout tracking across all domains
- 7. **History**: Timeslices preserve complete timeline

These seven core domains—Sales, Finance, Product, Contact, Marketing, Reference, and Fallout—form the foundation of any UDM implementation, with industry-specific domains added as needed.

Next: <u>04 ETL Patterns.md</u> - Detailed ETL methodology and patterns