

Skills 101: erwin

Design Layers in Action

 Quest

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Today's Topics

Building robust models requires moving seamlessly between Conceptual, Logical, and Physical layers- and knowing how to maintain integrity across them. In this session, we'll show you how to derive Logical models from Conceptual foundations, enrich them with attributes, and produce Logical/Physical models across multiple data structures. You'll learn techniques for handling relationships, managing large models, and scaling design efforts for enterprise environments. By the end, your layered models will be as elegant and precise as a well-oiled DevOps pipeline.

- Designing Conceptual models that scale logically
- Deriving Logical models with attributes and relationships intact
- Transitioning to Physical models efficiently
- Handling multiple data structures without losing your mind



Design Layer Modeling

To support application development, you can create separate conceptual, logical, and physical data models.

Typically, a design layer consists of a logical or physical data model designed for a specific purpose. You can also add a conceptual model first to provide a high-level view of how key business entities relate to one another. This helps you understand the data structure before diving into technical details.

Design Layer Modeling

For example, the first design layer can be a conceptual model with basic entities and their relationships.

The second design layer is the logical model, which captures business requirements.

The third design layer is the physical model, which represents the database implementation and is derived from the logical model.

In each design layer, you can make design decisions that are relevant to the purpose of the data model. In a logical data model, decisions often follow normalization rules to minimize data redundancy. In a physical data model, you can denormalize the model to improve performance.

Design Layer Modeling

When working with design layers, you can link related models, keep them synchronized, and maintain a historical record of design decisions in each layer.

There are many tools in erwin DM to support this methodology, including wizard-based tools for deriving models, transformations, and historical tracking at the model and object levels.

Types of Design Layer Models

- **Conceptual Model:** Create an independent conceptual model, with unique notation and display options.
- **Logical Model:** Create an independent logical model, with unique notation and display options.
- **Physical Model:** Create an independent physical model with unique notation and display options.
- **Logical/Physical Model:** Create a new model with combined logical and physical components.

Design Layer Architecture (DLA)

A **design layer** represents a phase in the model development process. Using design layers, you can create separate models that are related and linked to one another.

Within each design layer, you can make design decisions that allow you to transition from one layer to another.

Design Layers and Model Derivation

The application development process typically begins with a High-level business concepts are captured and documented in the Conceptual model.

Then, to transition from one design layer to another, you *derive* a new model from an existing model.

The Conceptual model is then derived to an attributed Logical model.

In this scenario, each model represents a design layer in the application development process.

Design Layers and Model Derivation

The model that you open before you use the wizard is known as the source model. The source model contains all model objects that you can include in a derived, or target model.

When you derive a model, the source and target models are automatically linked.

Because the objects in the source and target model are linked, you can change the objects in either model, and at any time, synchronize the two models.

This allows you to maintain your design layer hierarchy.

Design Layers and Model Derivation

If you choose to maintain historical information, the history for each entity, attribute, table, and column in a derived model is maintained.

You can select a model object from a derived model and review the model objects used to create the object.

erwin DM Design Layer Architecture

Conceptual Data Model
(CDM)

Logical Data Model (LDM)



Logical_Physical Data Model (LPDM)

Let's go model...



→ Quest

Identifying Many-to-Many Annotation

Drawing

Clipboard

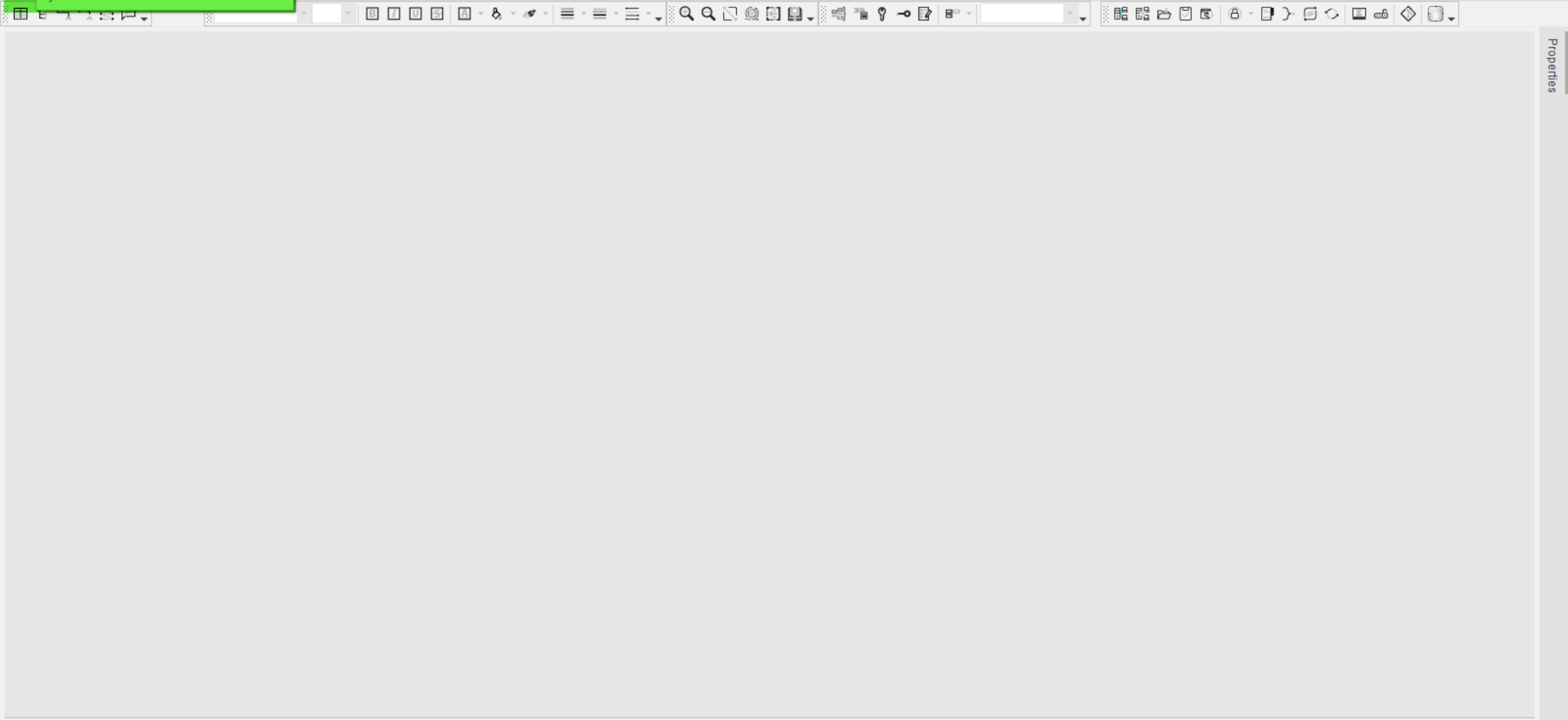
Editing

Data Vault 2.0

Options

File

Click here to see everything you can do with your document



Properties



New

Open

Close

Save

Save As

Recent

New Project

Open Project

Save Project

Close Project

Print

Page Setup

Exit

Recent File List























Mart://Mart/Advanced Models/Design Layer Architecture DLA/Layer 3_Publication System Azure Fabric Lakehouse Logical_Physical Data Model (LPDM)

Mart://Mart/Advanced Models/Design Layer Architecture DLA/Layer 2_Publication System Logical Data Model (LDM)

Mart://Mart/Advanced Models/Design Layer Architecture DLA/Layer 1_Publication System Conceptual Data Model (CDM)

Mart://Mart/Publication System ER360

Mart://Mart/Model_1DELETE

	Layer 3_Publication System Databricks Logical_Physical Data Model (LPDM).erwin C:\Users\AMcGover\OneDrive - Quest\erwin\erwin Data Modeler\Projects\Skills 101 - AMT\erwin DM Design Layer Architecture DLA\Models	04/14/2026 02:09 PM	1.75 MB	
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New Model

Type

Conceptual Logical Physical Logical/Physical Match template

Target Server

Match template target server

Database: Version:

Predefined List:

Template

<Default>

Preserve the template binding

AI data model

AI Execute

OK Cancel

New Model

Type

Conceptual Logical Physical Logical/Physical Match template

Target Server

Match template target server

Database: Version:

Predefined List:

Template

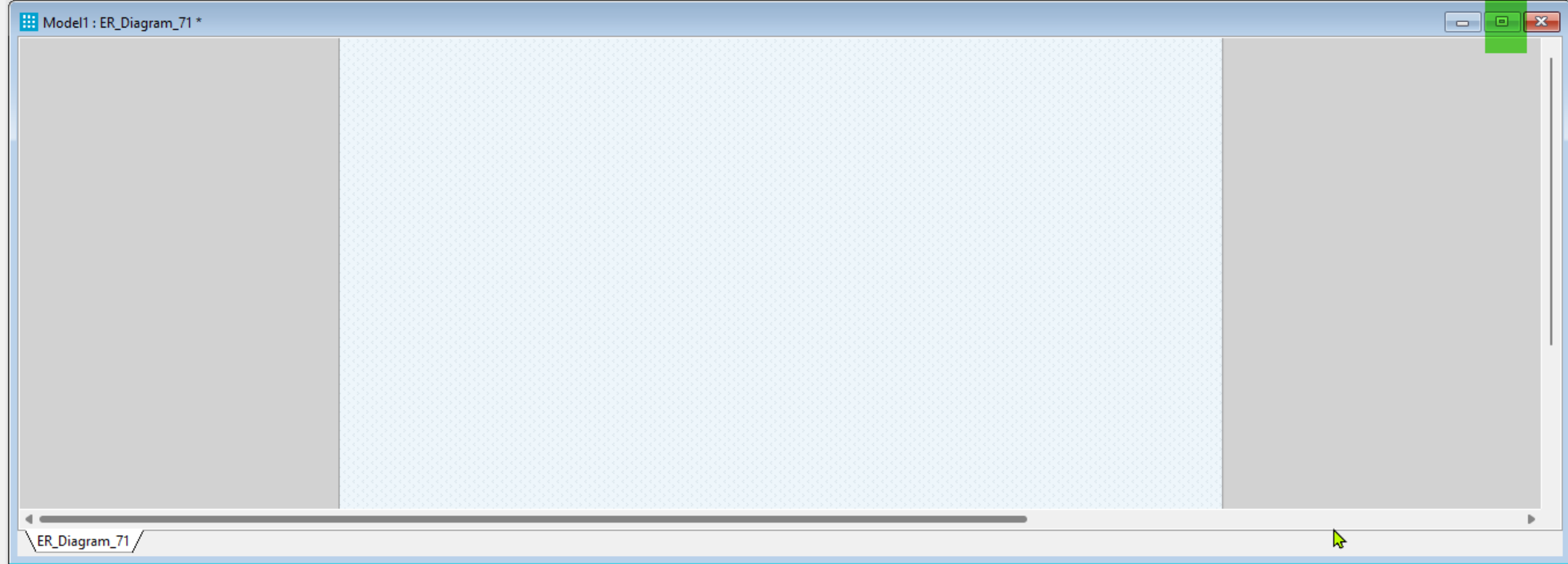
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Preserve the template binding

AI data model

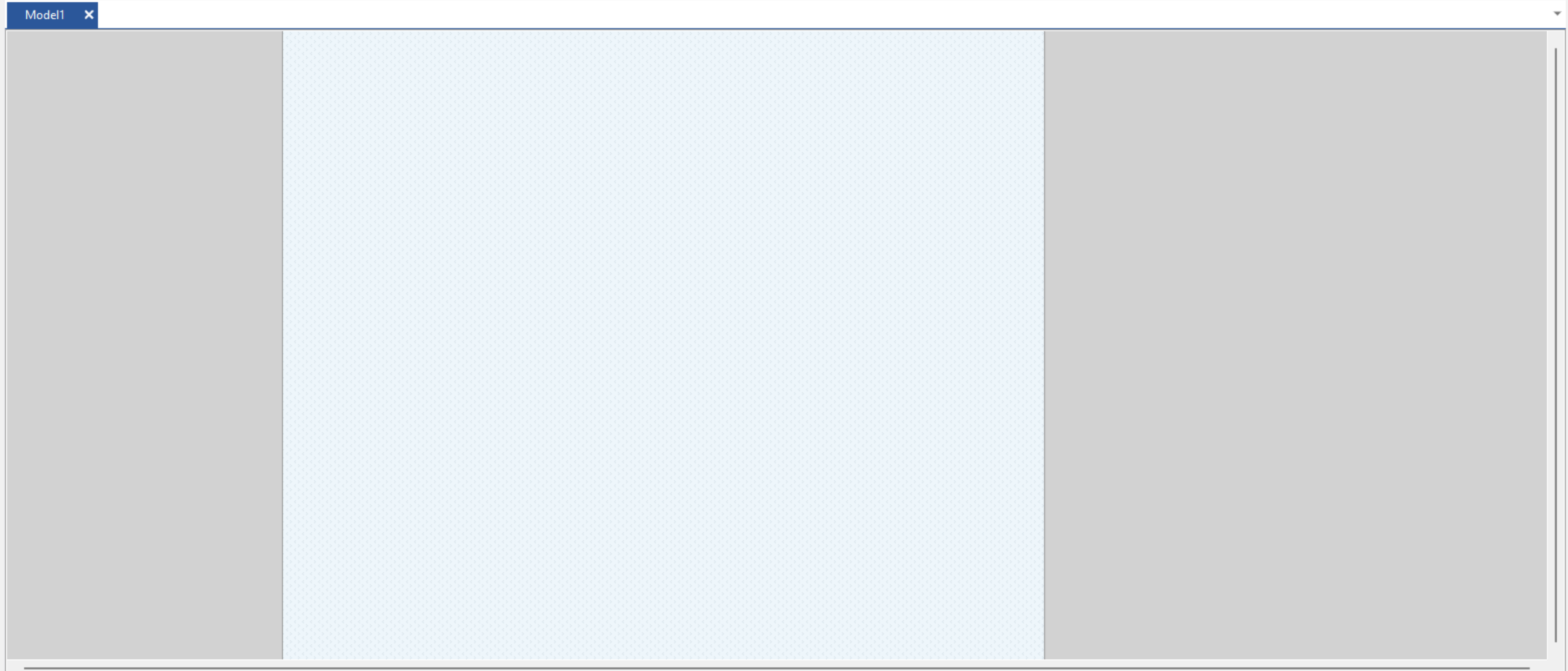
AI Execute

OK Cancel



Zoom Normal Themes Entity Panes StatusBar Shadows Page Grid Manage Windows Cascade Windows Horizontal Split Vertical Split

Conceptual



Properties

Zoom Normal Themes Entity Display Level

StatusBar
 Shadows
 Page Grid

Manage Windows Cascade Windows Horizontal Split Vertical Split

- Explorer Pane Ctrl+E
- Action Log Pane Ctrl+L
- Advisories Pane
- Overview Pane
- Bulk Editor Pane
- Properties Pane Ctrl+R
- Objects Count Pane Ctrl+J
- Project Explorer Pane

Show / Hide Model Explorer Pane (Ctrl+E)
Show / Hide Model Explorer Pane



Zoom Normal Themes Entity Panes Manage Windows Cascade Windows Horizontal Split Vertical Split

StatusBar
 Shadows
 Page Grid

Display Level Window

Conceptual

Model Explorer

- Model_1
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes

Model Subject Area

Model1

ER_Diagram_71

Properties

Zoom Normal Themes Entity Panes Manage Windows Cascade Windows Horizontal Split Vertical Split

StatusBar
 Shadows
 Page Grid

Display Level

Conceptual

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Model Subject Area

Model1

ER_Diagram_71

Properties

Zoom Normal Themes Entity Panes Manage Windows Cascade Windows Horizontal Split Vertical Split

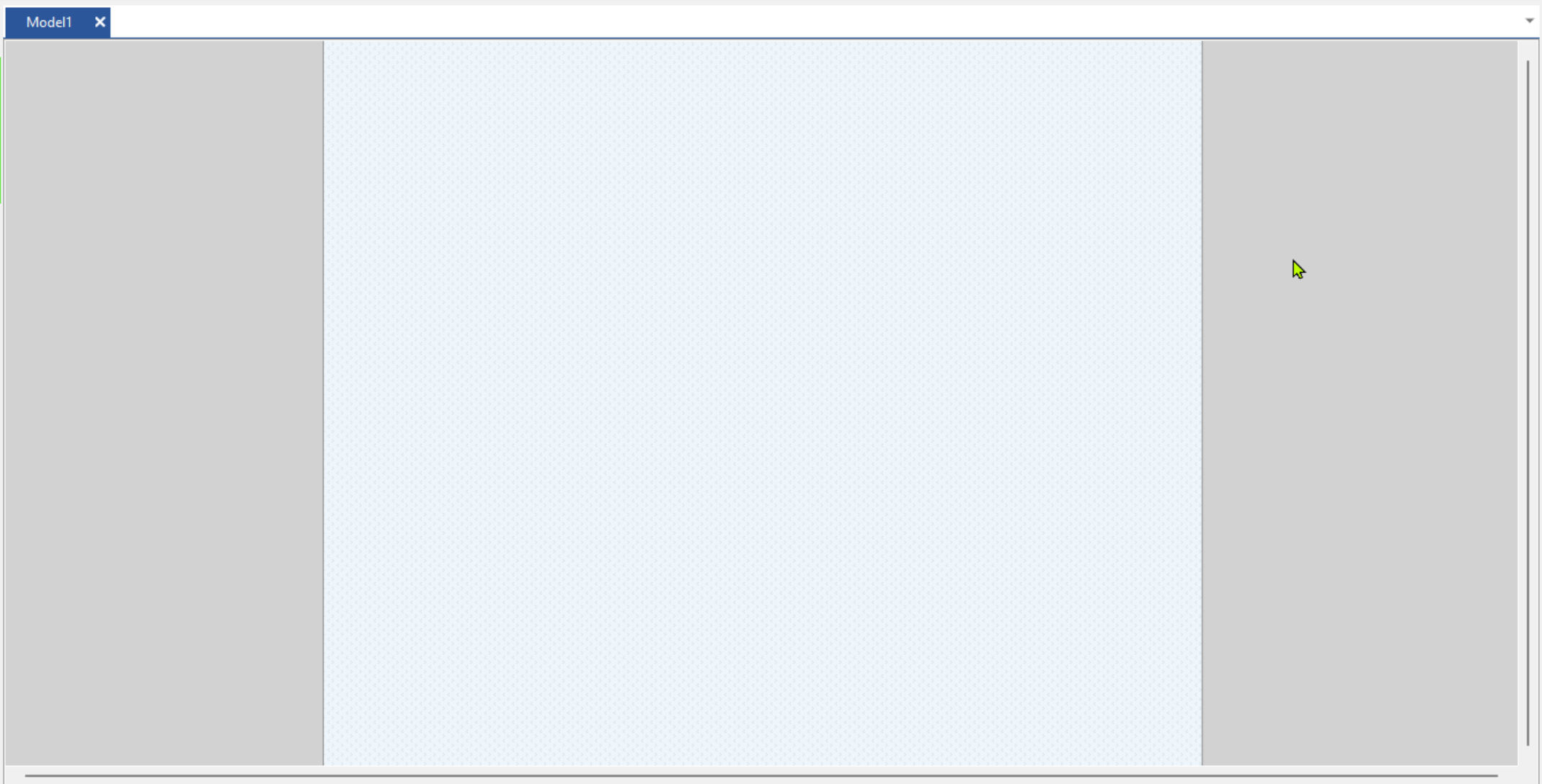
StatusBar
 Shadows
 Page Grid

Display Level

Conceptual

Model Explorer

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Properties

File Home View Diagram Project Explorer Model Mart Actions Tools Help

Model Templates Entity Identifying Non-Identifying Many-to-Many Annotation

Clipboard: Cut, Copy, Copy Family, Paste as Shortcut, Copy Neighborhood, Delete

Editing: Select, Go To..., Find, Replace

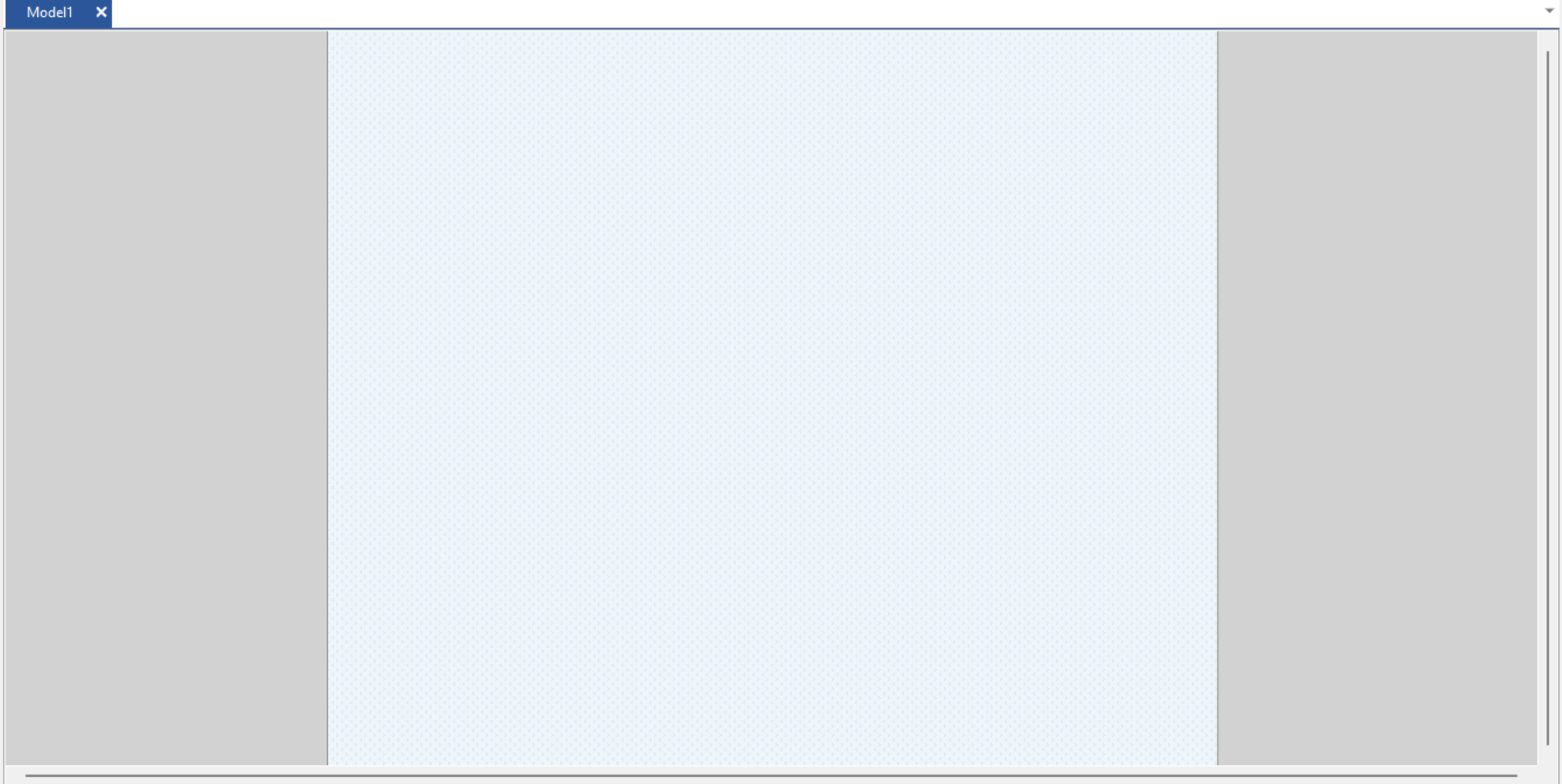
Data Vault 2.0: Hub, Link, Bridge, PIT, Reference, Satellite

Model Explorer Model1

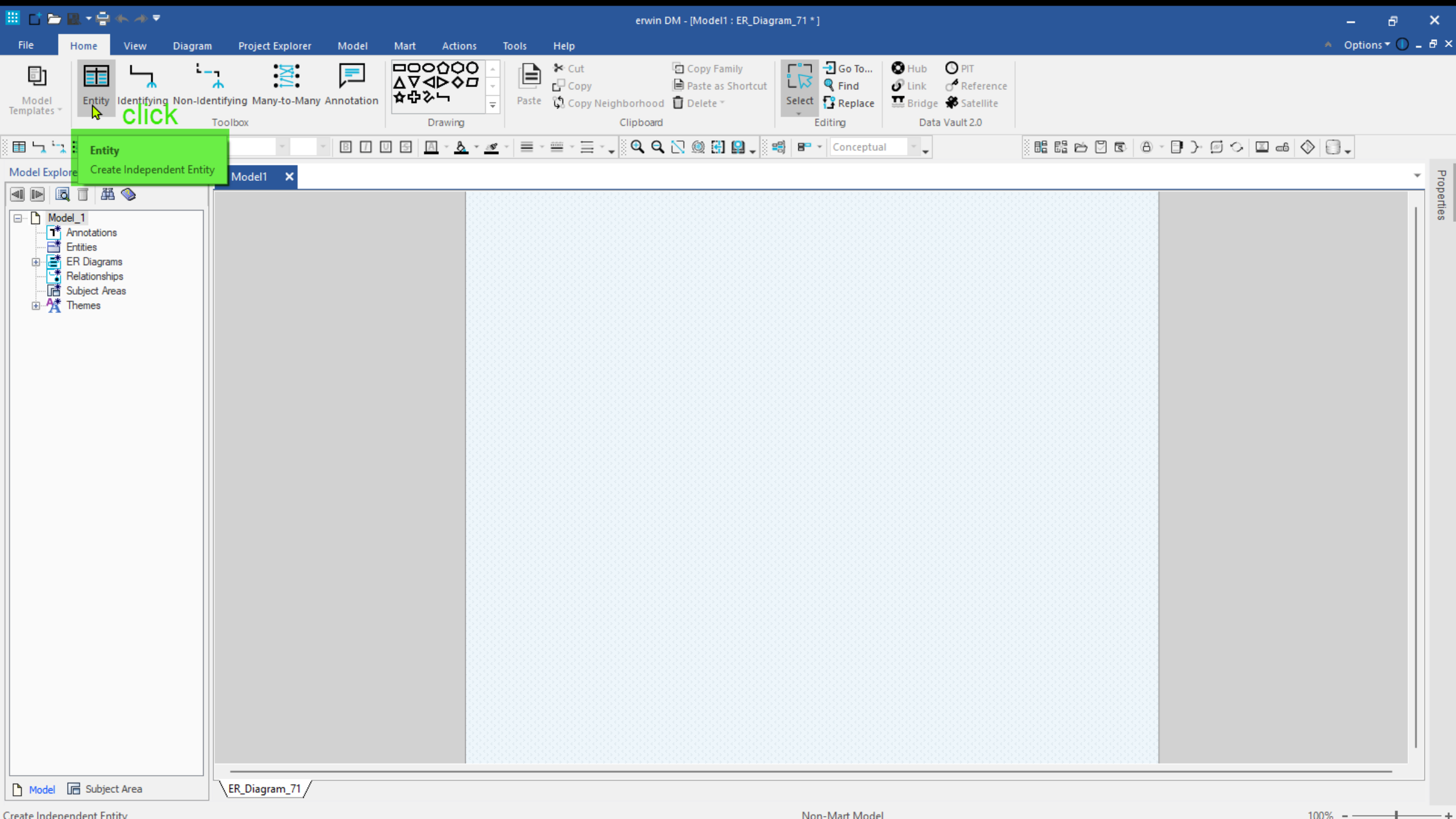
Conceptual

Model Explorer

- Model_1
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 - Subject Areas
 - Themes



Properties



File Home View Diagram Project Explorer Model Mart Actions Tools Help

Model Templates Entity Identifying Non-Identifying Many-to-Many Annotation

Toolbox Drawing

Paste Cut Copy Copy Family Paste as Shortcut Copy Neighborhood Delete

Clipboard Editing

Go To... Find Replace

Hub Link Bridge

PIT Reference Satellite

Data Vault 2.0

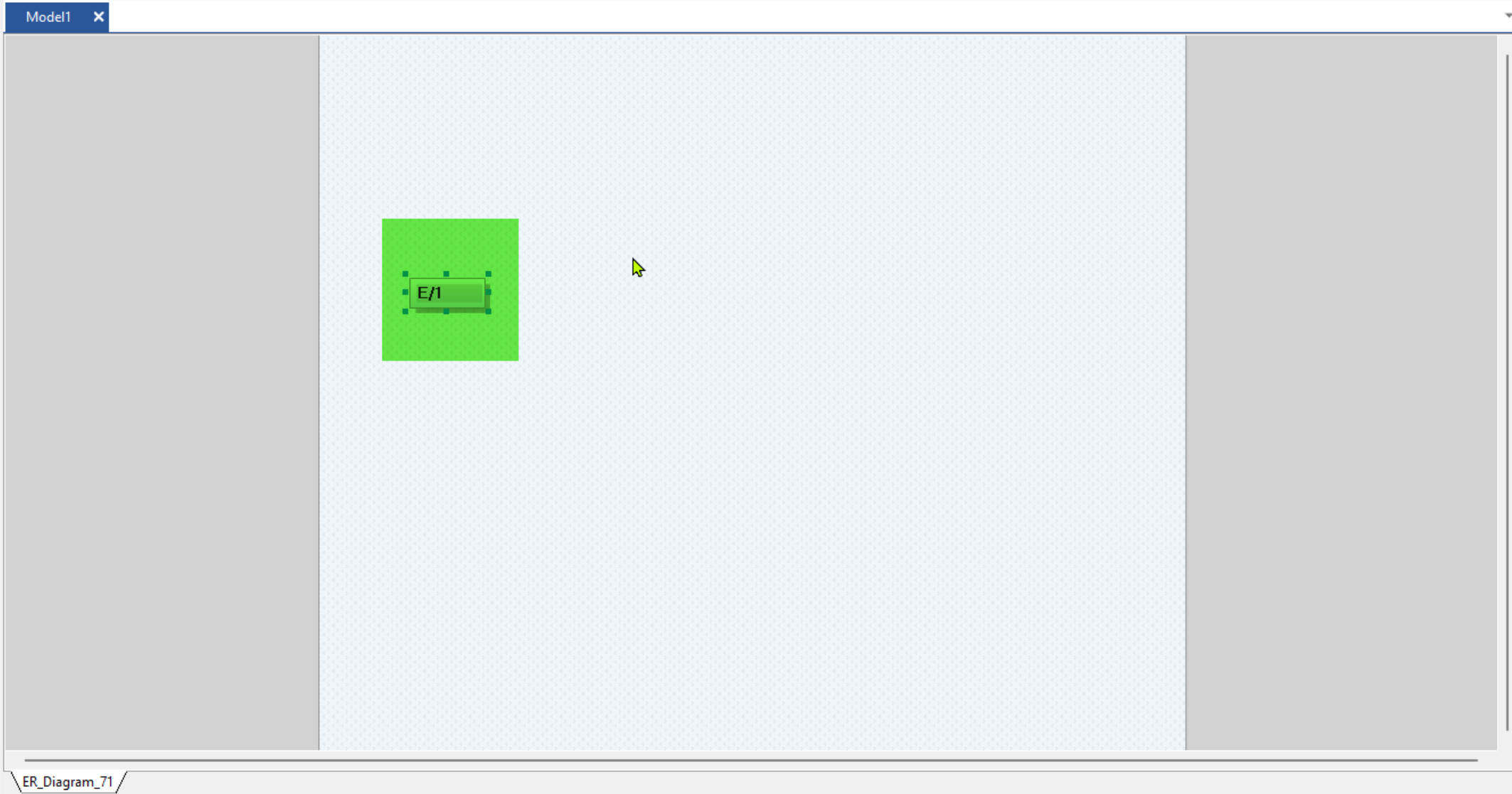
Microsoft Sans 10 B T U S A

Conceptual

Model Explorer

- Model_1
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes

Model Subject Area

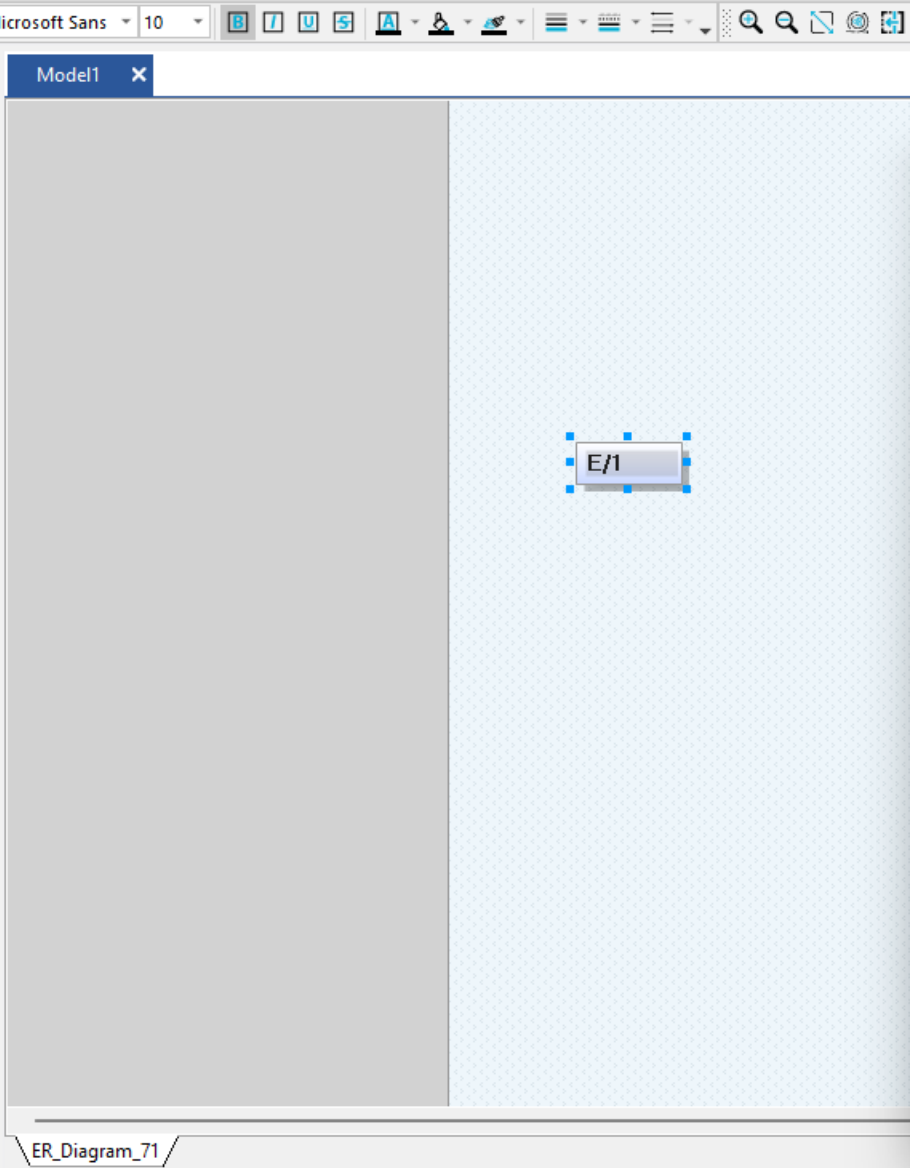


Properties

Model Explorer

- Model_1
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes

Model Subject Area



Entity 'E/1' Editor

Enter filter text

Name

Business Terms Mapping Shortcut Volumetrics Definition Style Icon Where Used UDP

Name	Definition	Description	SDI	SDI Clas
There are no items to show.				

Close Cancel

Details...

File Home View Diagram Project Explorer Model Mart Actions Tools Help

Model Templates Entity Identifying Non-Identifying Many-to-Many Annotation

Toolbox Drawing

Paste Cut Copy Copy Family Paste as Shortcut Copy Neighborhood Delete

Select Go To... Find Replace

Hub Link Bridge PIT Reference Satellite

Data Vault 2.0

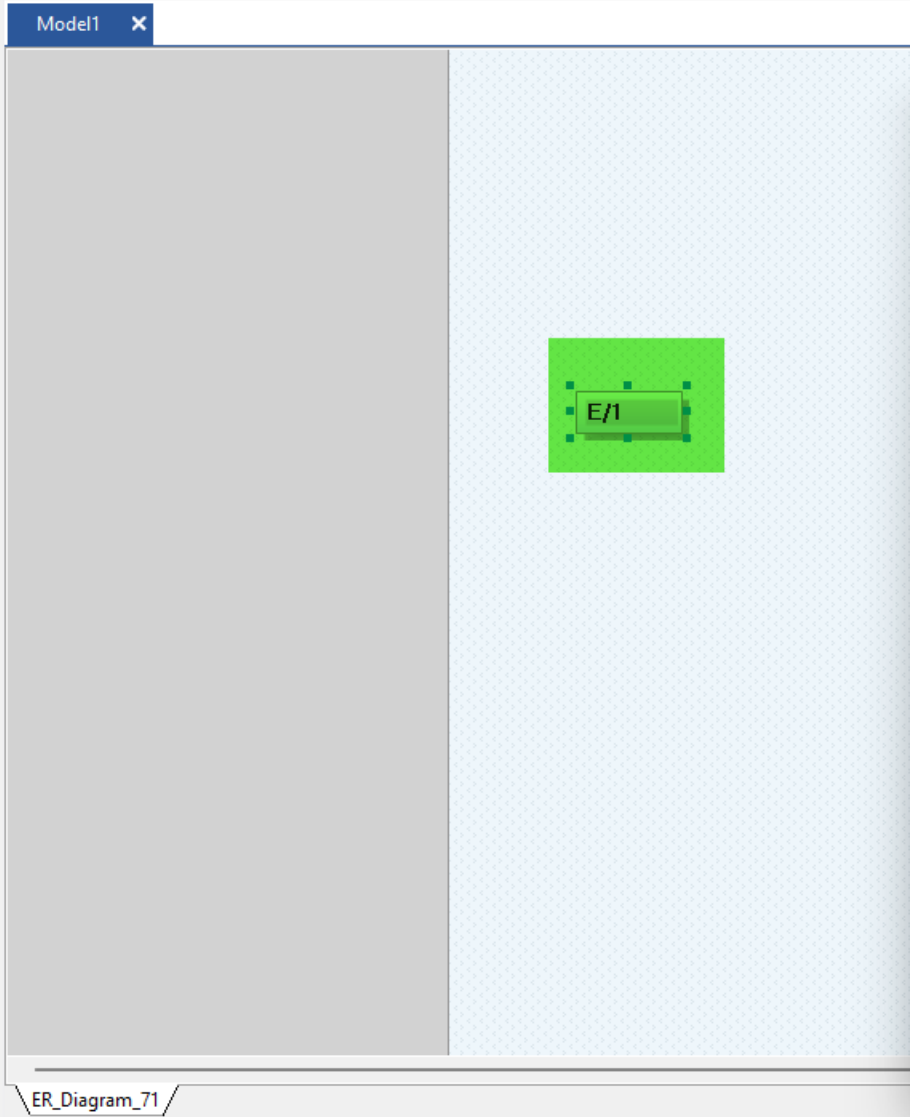
Microsoft Sans 10

Conceptual

Model Explorer

- Model_1
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes

Model Subject Area



Entity 'E/1' Editor

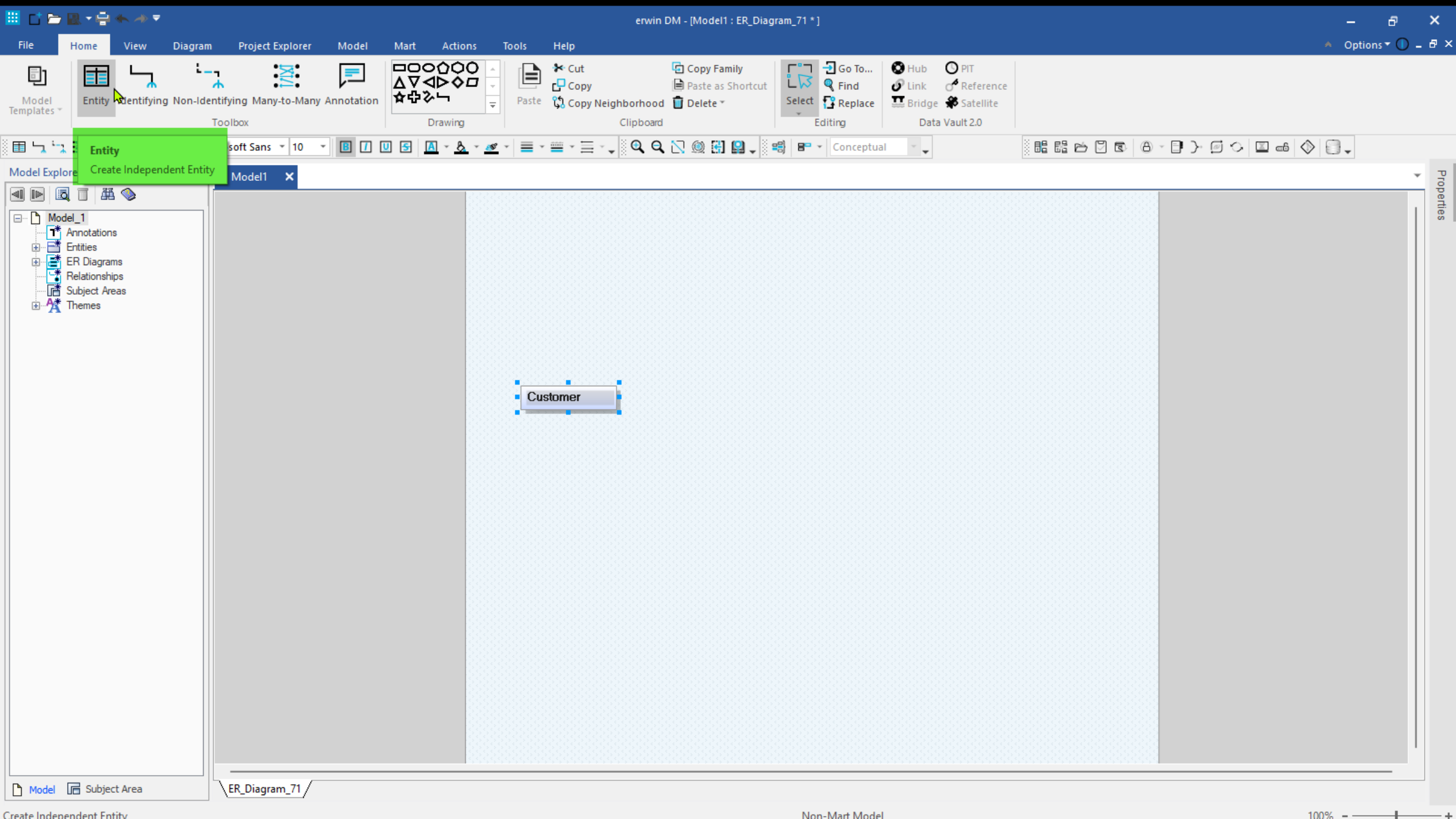
Enter filter text

Name
Customer

Business Terms Mapping Shortcut Volumetrics Definition Style Icon Where Used UDP

Name	Definition	Description	SDI	SDI Clas
There are no items to show.				

Close Cancel



Model Templates

Entity Identifying Non-Identifying Many-to-Many Annotation

Toolbox

Drawing

Clipboard

Editing

Data Vault 2.0

Entity

Create Independent Entity

Model Explorer

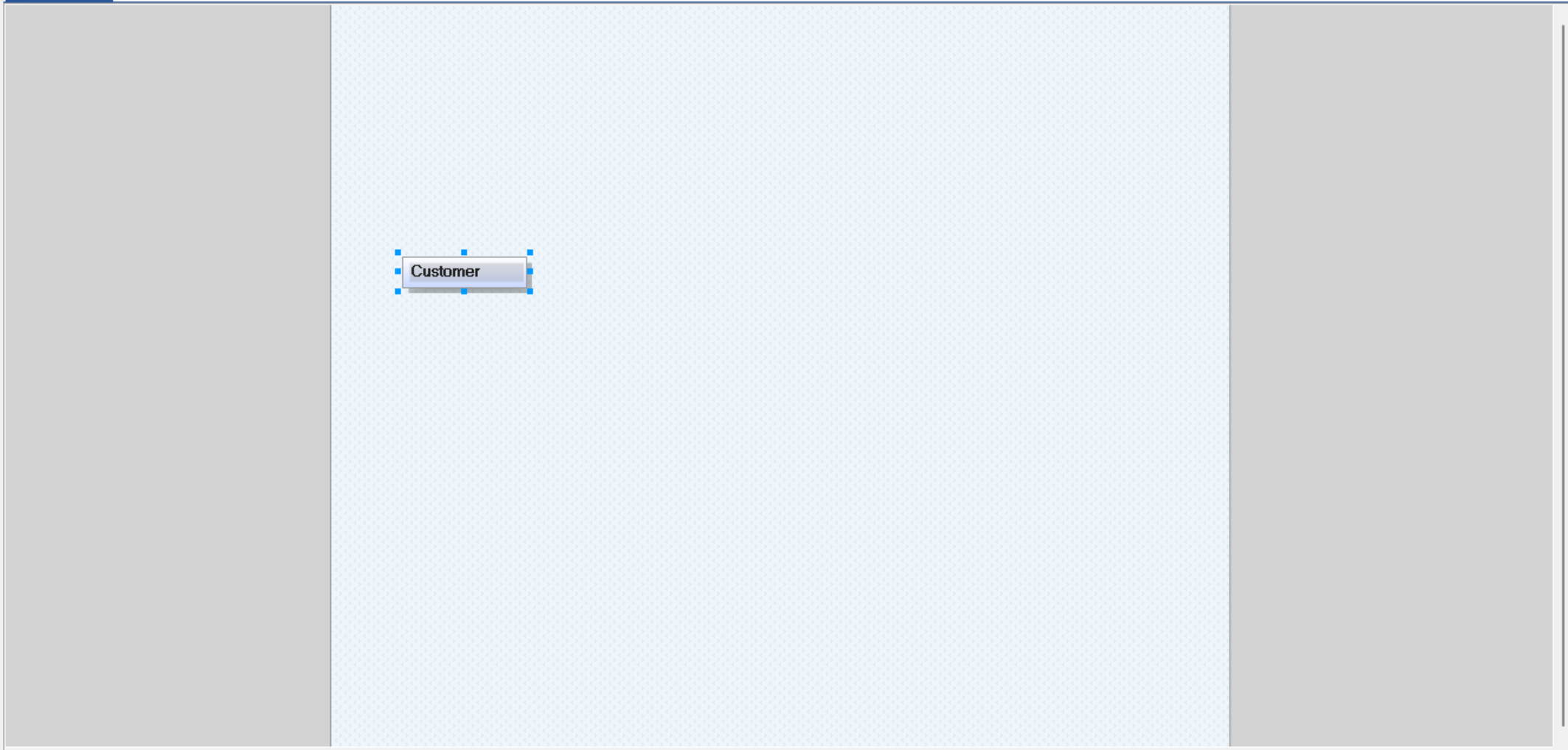
Model1

soft Sans 10

Conceptual

Model_1

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- Relationships
- Subject Areas
- Themes



File Home View Diagram Project Explorer Model Mart Actions Tools Help

Model Templates Entity Identifying Non-Identifying Many-to-Many Annotation

Toolbox Drawing

Paste Cut Copy Copy Family Paste as Shortcut Delete Copy Neighborhood

Clipboard Editing

Go To... Find Replace

Hub Link Bridge

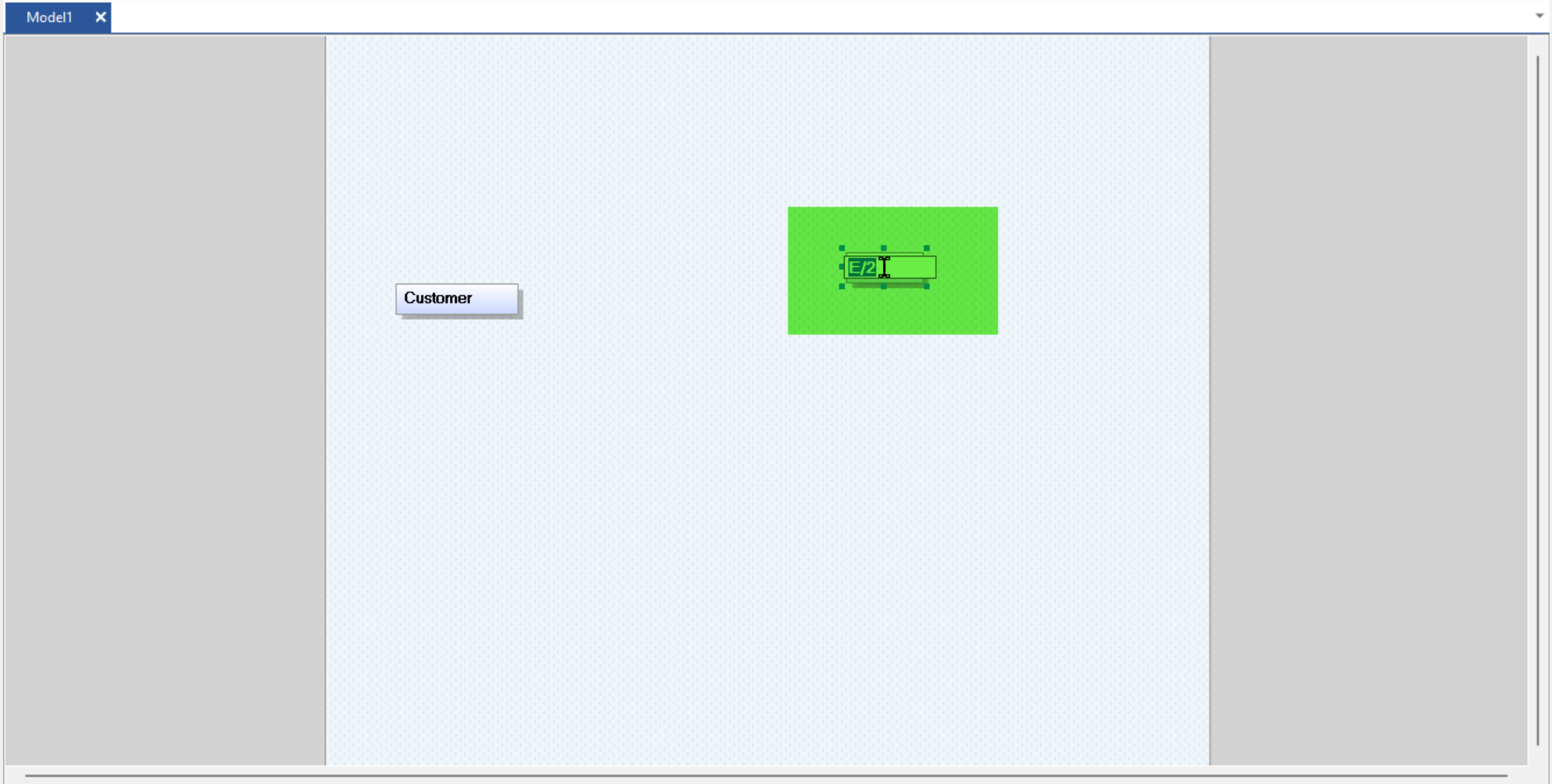
PIT Reference Satellite

Data Vault 2.0

Microsoft Sans 10 B T U S A [Color] [Background] [Stroke] [Fill] [Text] [Image] [Zoom] [Pan] [Fit] [Reset] [Undo] [Redo] [Print] [Save] [Close] [Refresh] [Help]

Model Explorer

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Clipboard Editing

Go To... Find Replace

Hub Link Bridge

PIT Reference Satellite

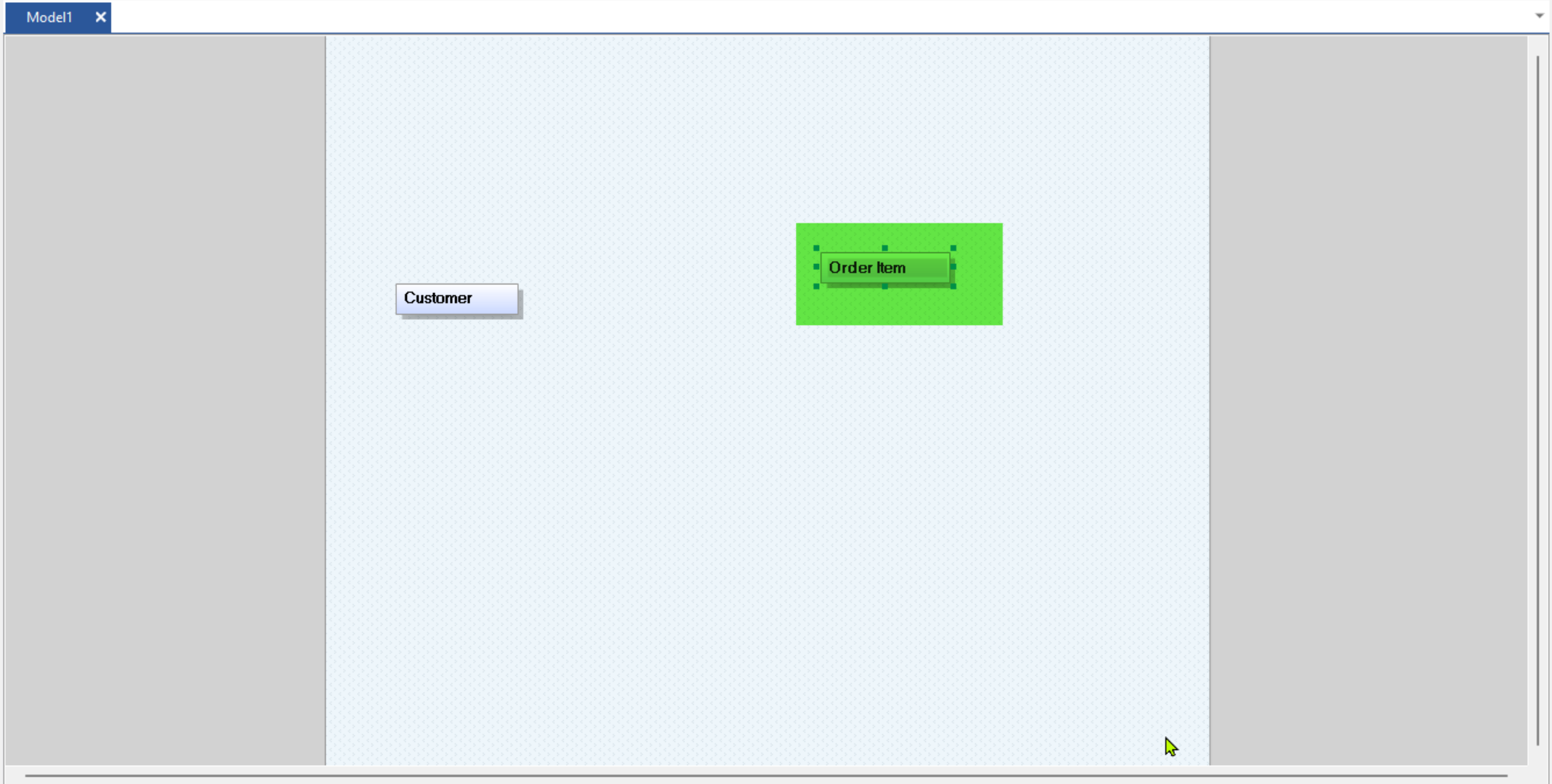
Data Vault 2.0

Microsoft Sans 10 B T U S A

Conceptual

Model Explorer

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 - Themes



Properties

Model Templates Entity Identifying Non-Identifying Many-to-Many Annotation

Clipboard: Cut, Copy, Copy Family, Paste as Shortcut, Copy Neighborhood, Delete

Editing: Select, Go To..., Find, Replace

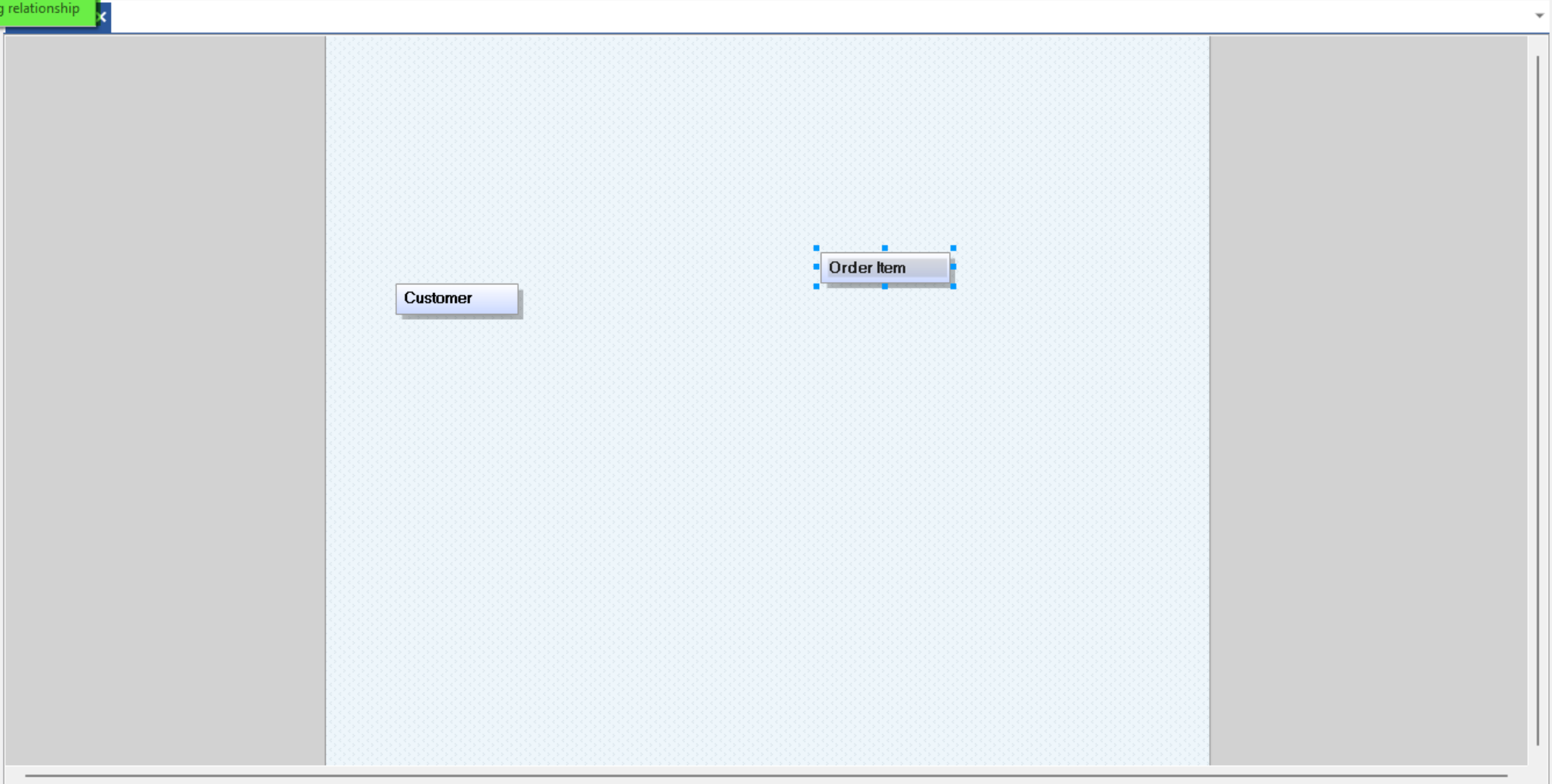
Data Vault 2.0: Hub, Link, Bridge, PIT, Reference, Satellite

Model Explorer: Identifying Create identifying relationship

Conceptual

Model Explorer

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Properties

File Home View Diagram Project Explorer Model Mart Actions Tools Help

Model Templates Entity Identifying Non-Identifying Many-to-Many Annotation

Toolbox Drawing

Paste Cut Copy Copy Family Paste as Shortcut Copy Neighborhood Delete

Clipboard Editing

Go To... Find Replace

Hub Link Bridge

PIT Reference Satellite

Data Vault 2.0

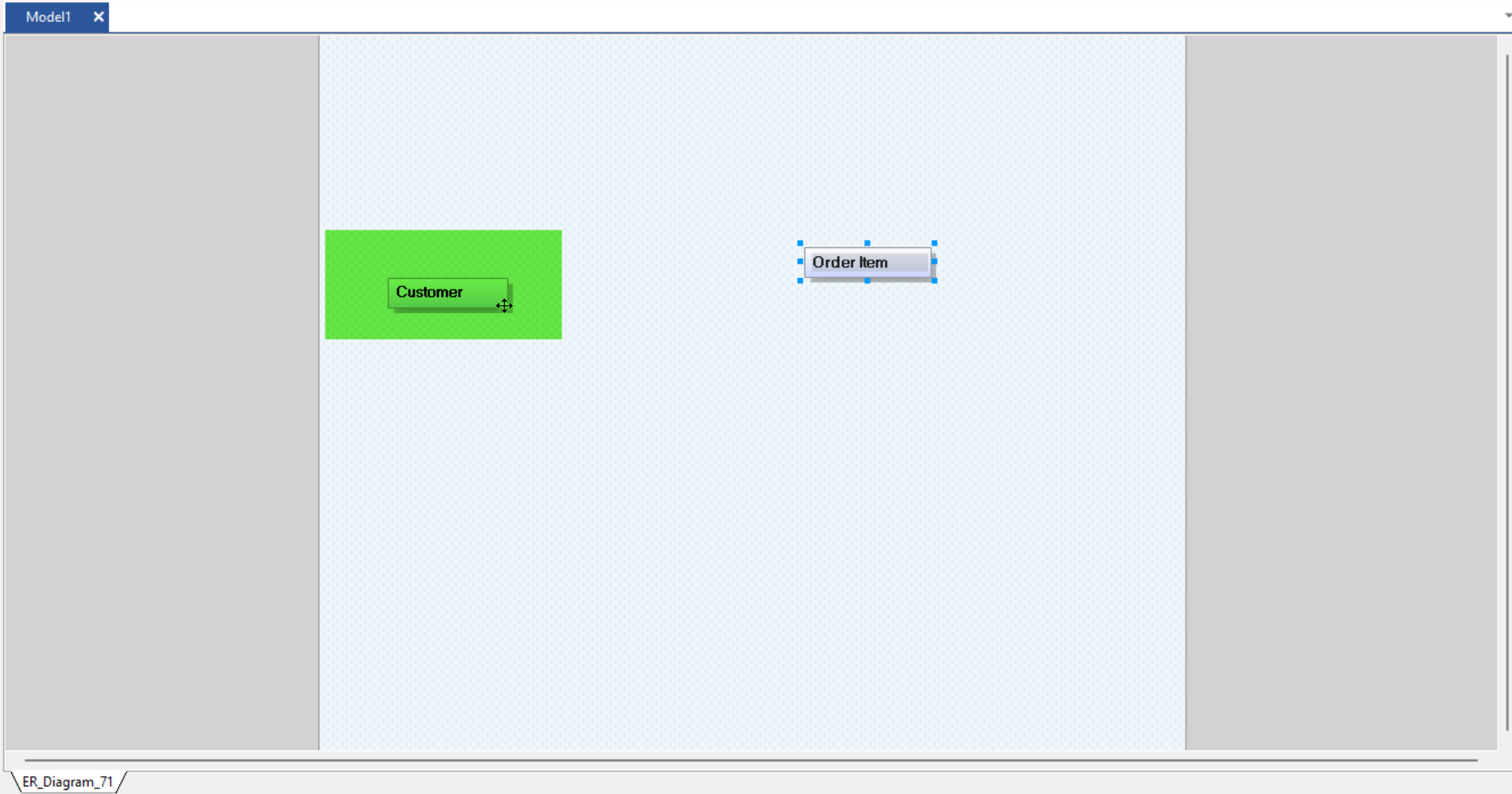
Microsoft Sans 10 B T U S A

Conceptual

Model Explorer

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 - Subject Areas
 - Themes

Model Subject Area



Properties

Model Templates Entity Identifying Non-Identifying Many-to-Many Annotation

Toolbox Drawing

Clipboard Copy Family Paste as Shortcut Copy Neighborhood Delete

Editing Select Go To... Find Replace

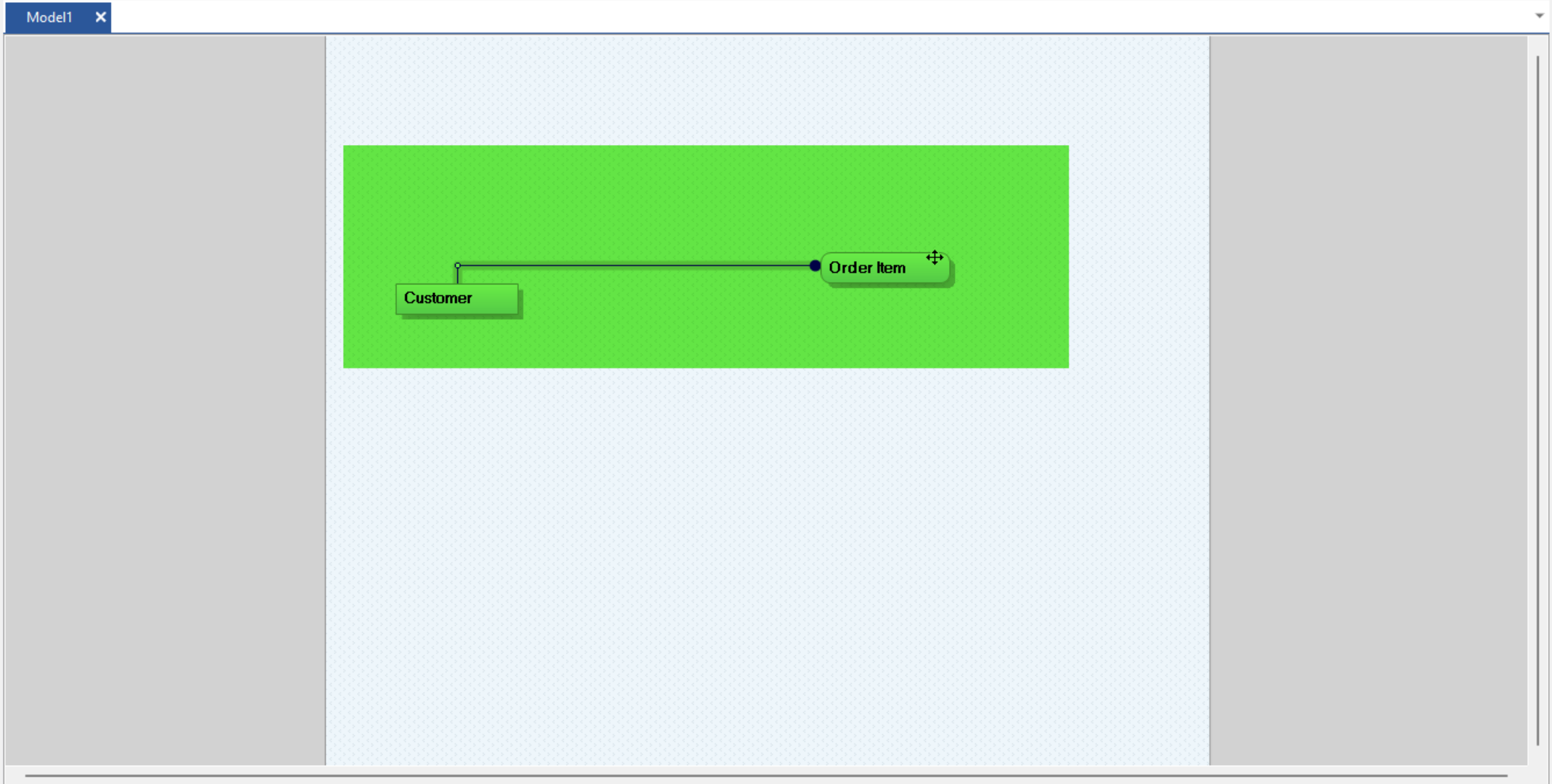
Data Vault 2.0 Hub Link Bridge PIT Reference Satellite

Microsoft Sans 10 B I U S A

Conceptual

Model Explorer

- Model_1
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 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes



Properties

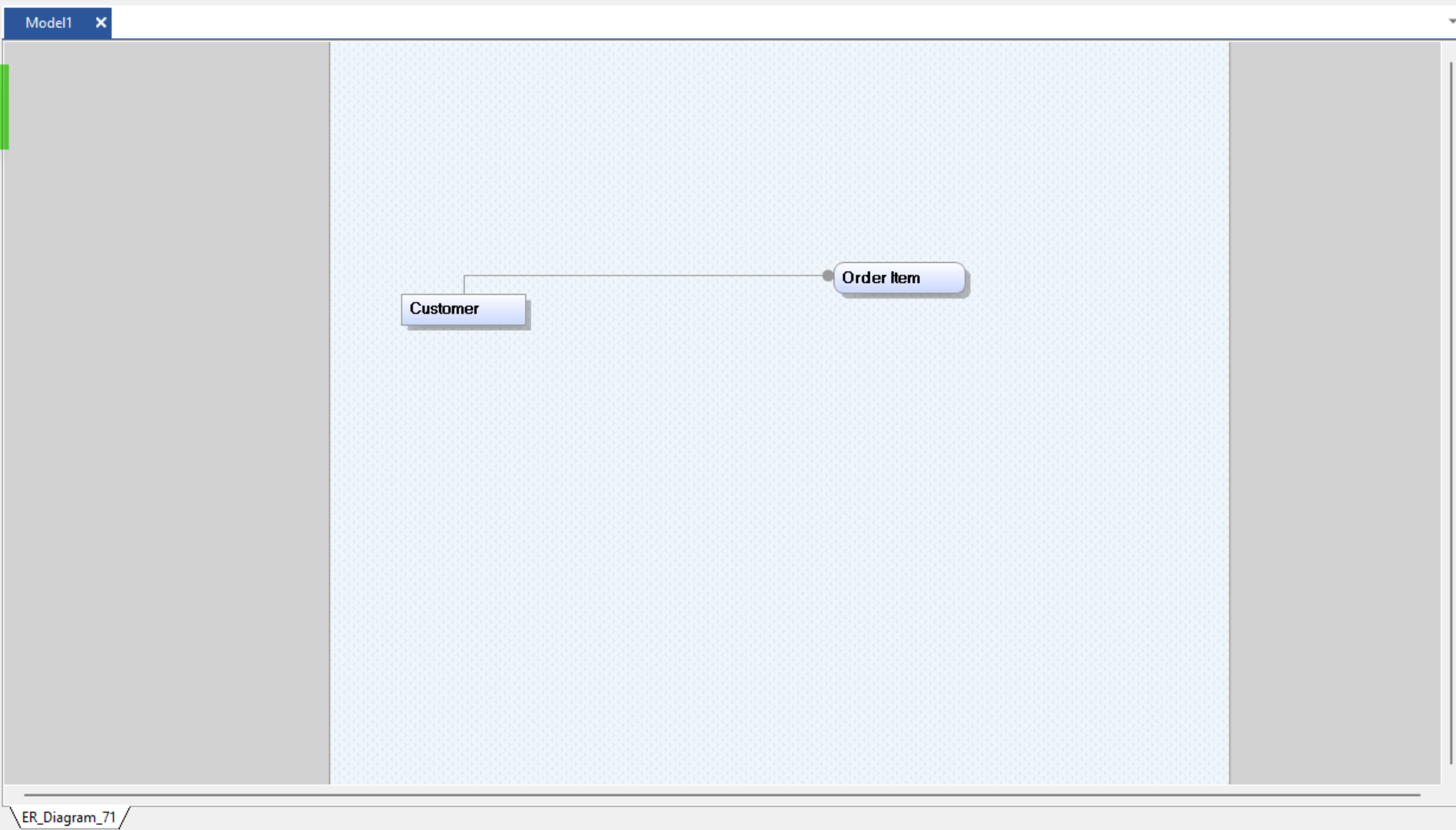
File Home View Diagram Project Explorer Model Mart Actions Tools Help

Connect Disconnect Open Save Save As No Lock Catalog Manager Merge Review Refresh Session Manager Password Manager Git Connections DBT Integration

Conceptual

Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations Switch to
 - ER Diagrams Properties...
 - Entities
 - Relationships
 - Subject Areas
 - Themes



Properties

Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes

Save

Catalog:

Name	Creator	Last Modifier	Modified On
Conceptual Model	erwinadmin	erwinadmin	3/17/2026 09:12:00
Logical Model	erwinadmin	erwinadmin	3/17/2026 09:27:00
Skills 101 AMT	erwinadmin	erwinadmin	2/10/2026 15:50:00
Skills 101 AMT Domain 99	erwinadmin	erwinadmin	2/11/2026 15:27:00
Skills 101 Model 1	erwinadmin	erwinadmin	2/10/2026 12:39:00
Skills 101 Model 1 - Season Two	erwinadmin	erwinadmin	2/10/2026 19:51:00
Skills 101 Model 1 AMT Applied	erwinadmin	erwinadmin	2/10/2026 16:00:00
Skills 101 New AMT	erwinadmin	erwinadmin	2/11/2026 08:26:00

Model Name: Skills 101 Conceptual Model (CDM) Show Templates only

Mark As Template Maintain Multiple Versions

Description

Save Cancel

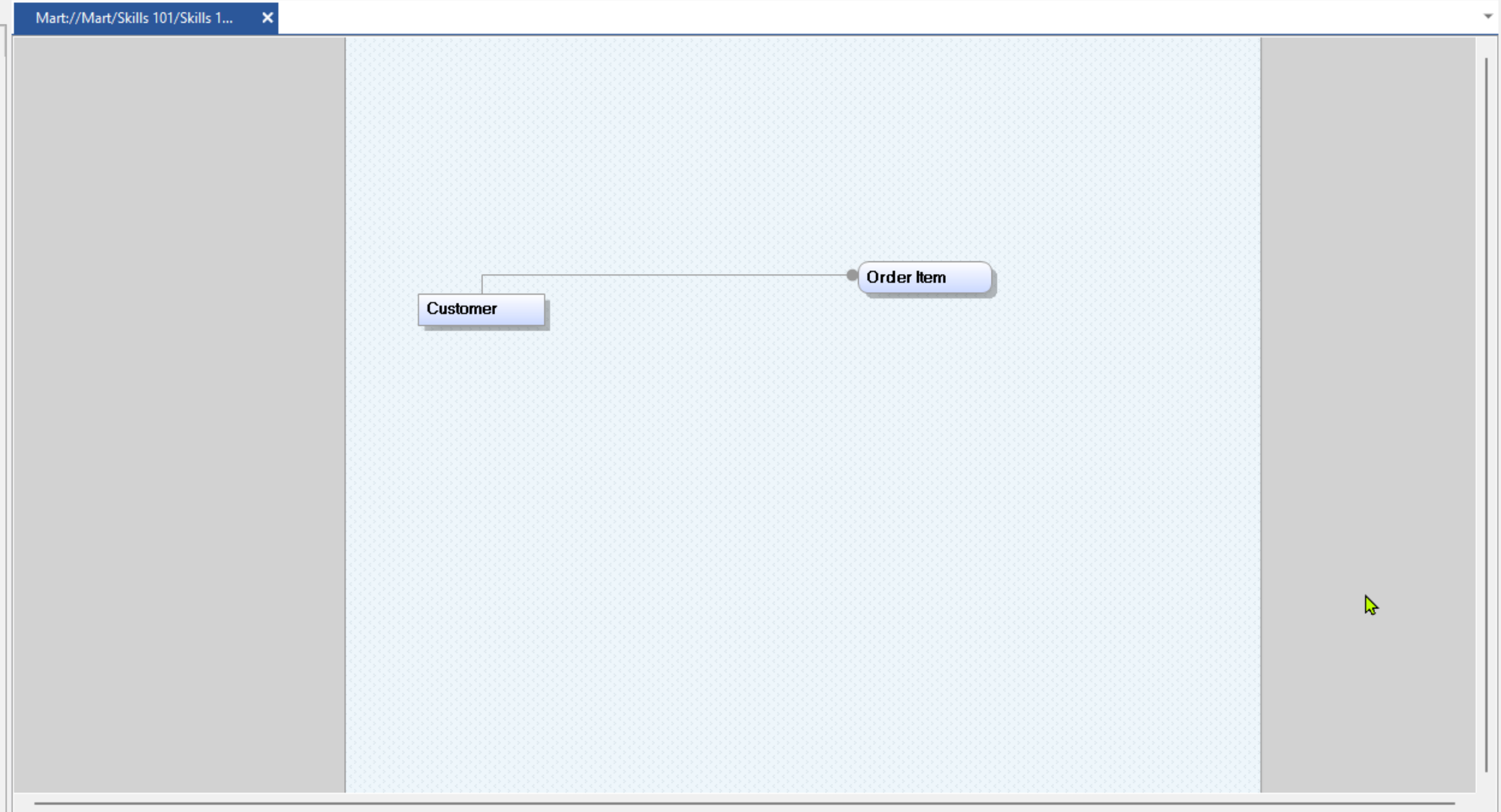
File Home View Diagram Project Explorer Model **Mart** Actions Tools Help

Connect Disconnect Open Save Save As No Lock Catalog Manager Merge Review Refresh Session Manager Password Manager Git Connections DBT Integration

Model Explorer Mart://Mart/Skills 101/Skills 1... Conceptual

Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes



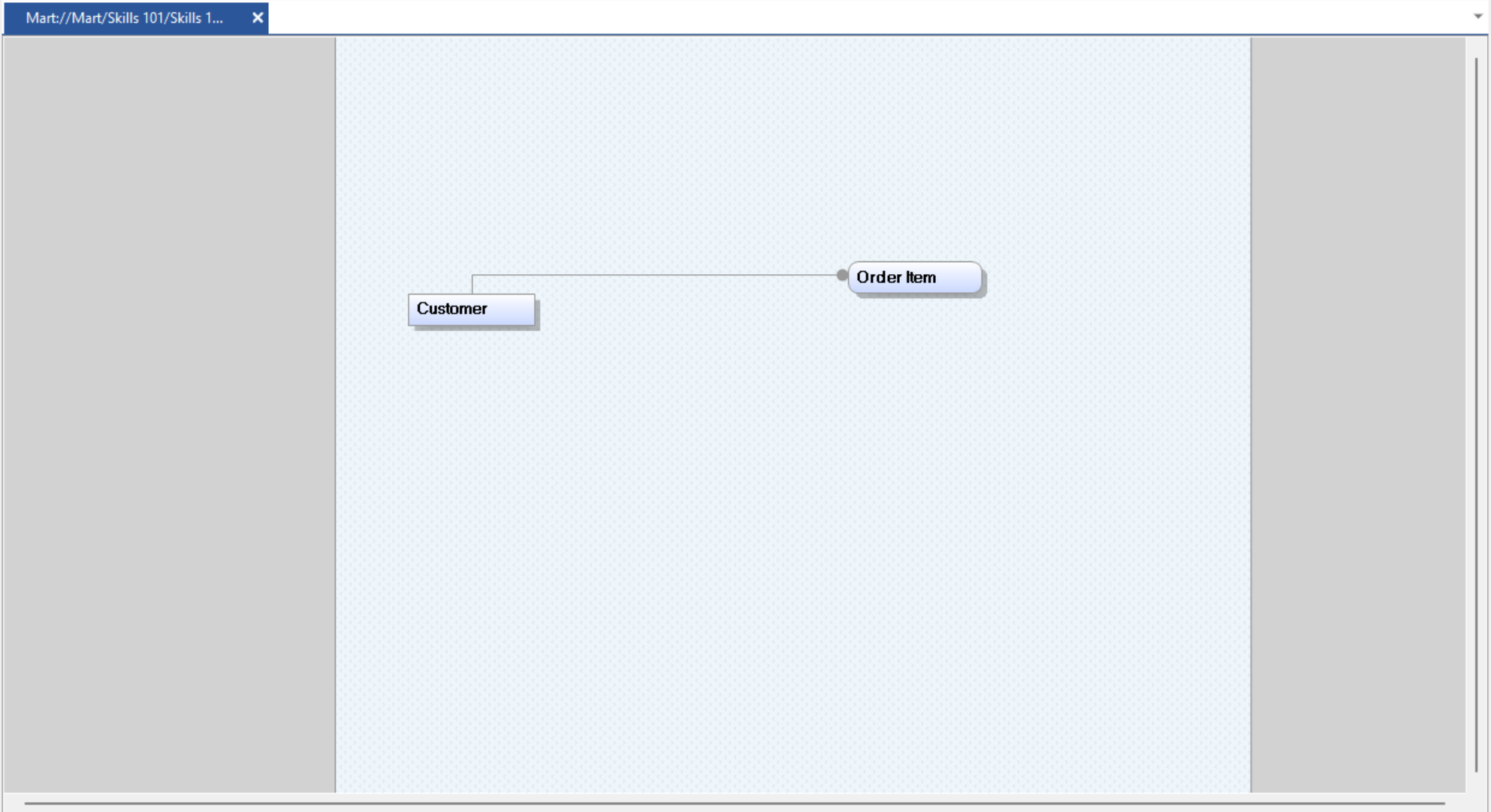
Properties

Transformations Complete Compare Manage Snapshots **Design Layers** Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema... Alter Script... Check Model Forward Engineer Hierarchical View Embedded View

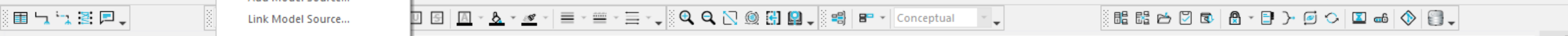
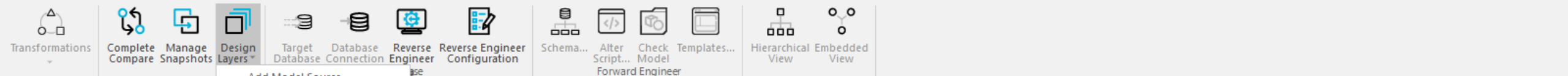
Model Explorer Mart://Mart/Skills 101/Skills 1... Conceptual

Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes



Properties

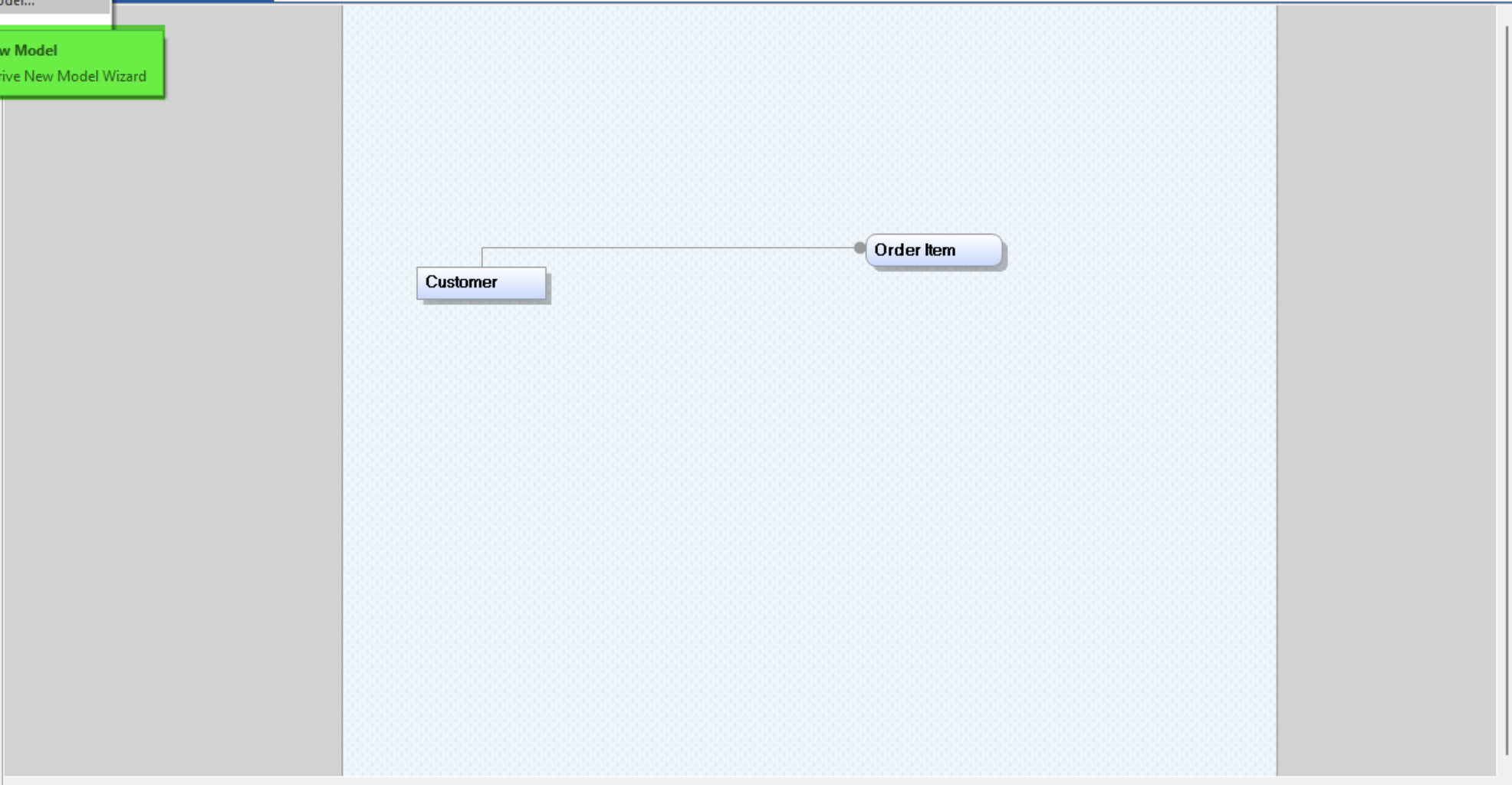


Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Entities
 - ER Diagrams
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 - Themes

- Add Model Source...
- Link Model Source...
- Sync with Model Source...
- Derive New Model...**
- Split Model...

Derive New Model
Launch Derive New Model Wizard



Properties

The Logical Model

A futuristic robot with a metallic, segmented body is running towards the right. The robot's head is a simple sphere with a circular sensor on top. Its arms are extended forward, and its legs are in a dynamic running pose. The background is a dark blue gradient filled with a dense field of small, glowing blue cubes and thin, intersecting lines, creating a sense of a complex digital or data environment. The overall lighting is cool and high-tech.

 Quest

Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes

Derive Model

Select the Target Model
Please select the options to create a new derived model

Compare Level: Unknown

New Model Type
 Conceptual Logical Physical Logical/Physical

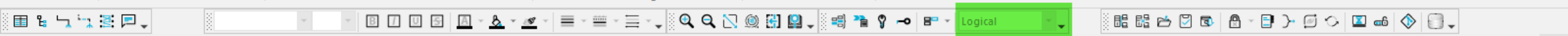
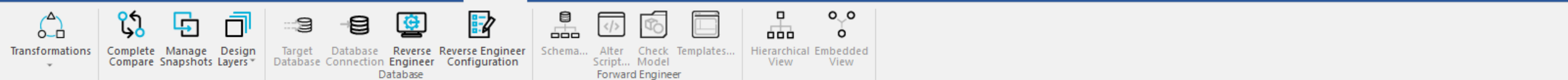
Create Using Template:
Blank Logical Model

Remove Browse File System... Browse Mart...

Creates a new logical-only model with all default settings.

< Back Next > Derive Close Help

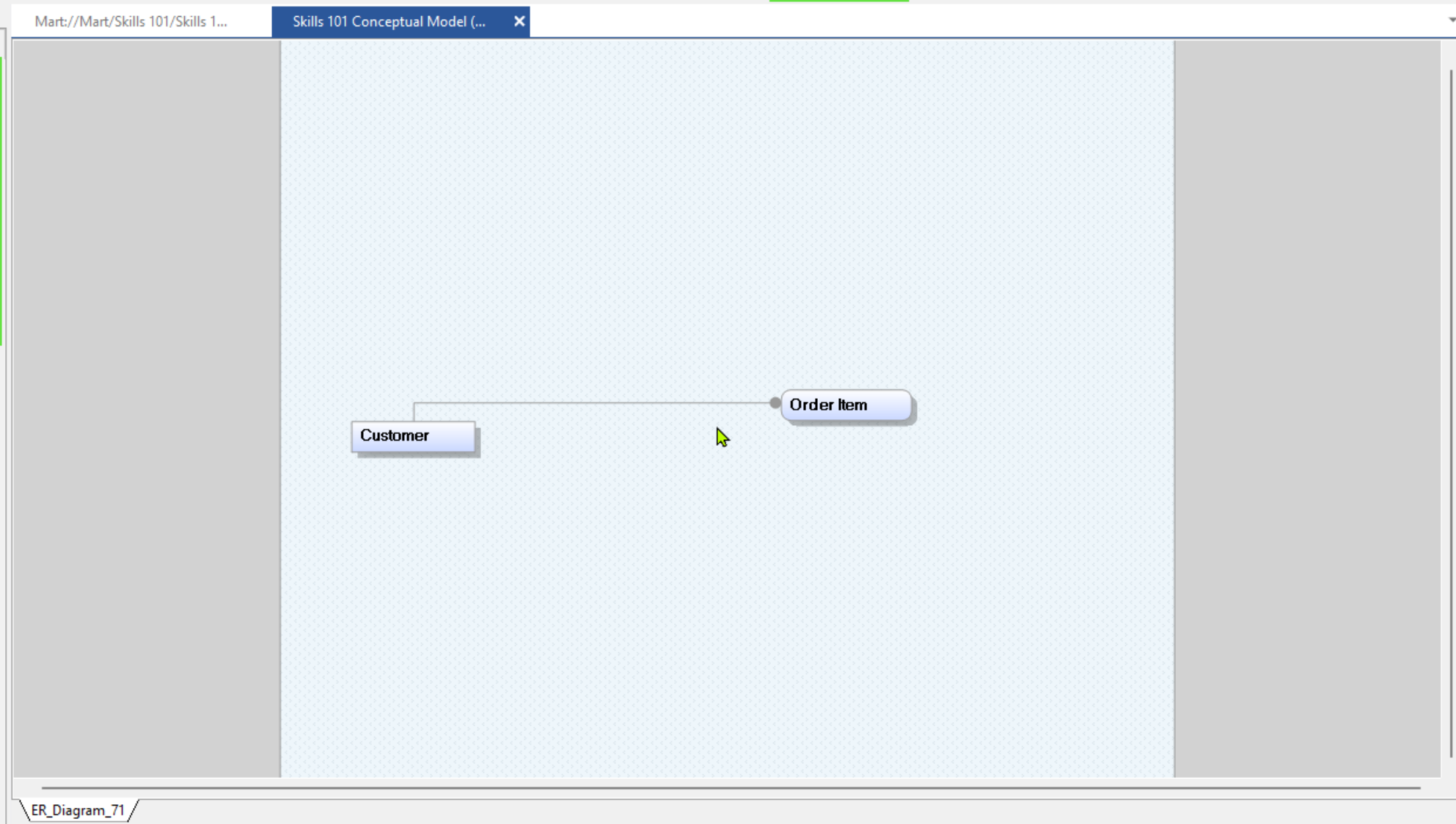
Properties



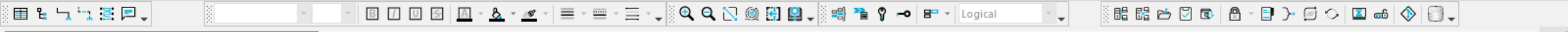
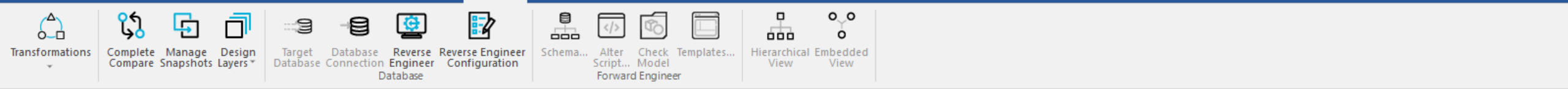
Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Model Subject Area



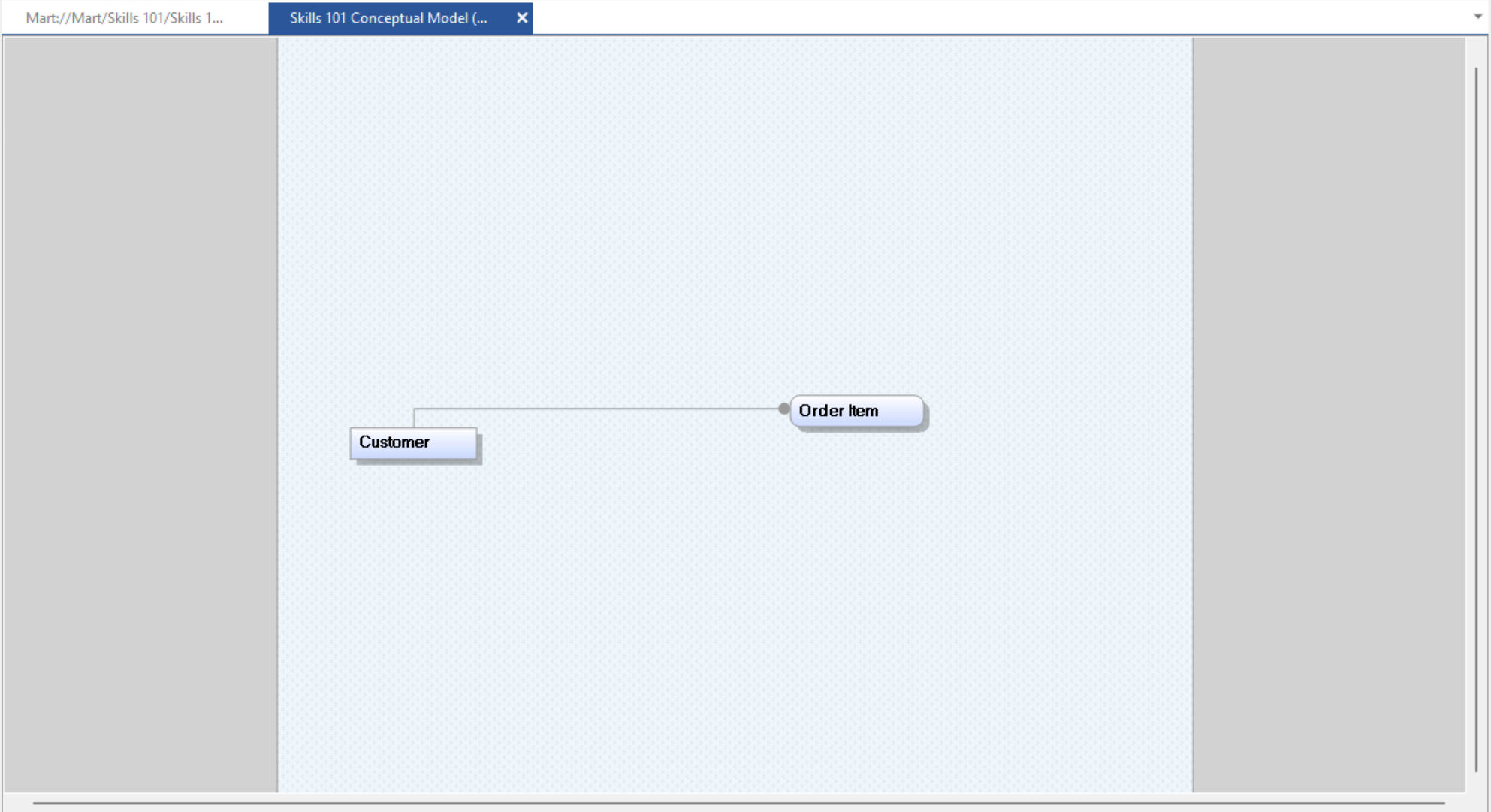
Properties



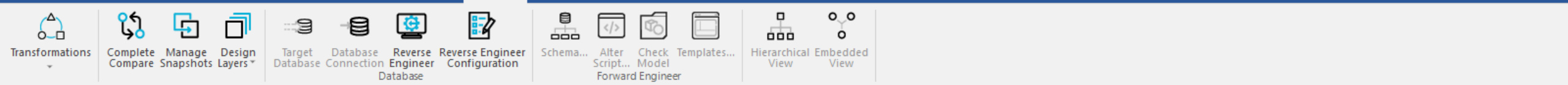
Model Explorer

- Skills 101 Conceptual
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 - Datatype Standan
 - Default Values
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 - Entities
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 - Themes
 - Validation Rules

Switch to
Properties...



Properties



Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Model 'Skills 101 Conceptual Model (CDM)' Editor

General Defaults RI Defaults History Options Definition UDP History Notes Extended Notes

Type: Logical

Model Information	
Name	Skills 101 Logical Model (LDM)
Author	
Integration Id	
Notation	
Logical Notation	IDEF1x
Modeling Features	
Data Vault 2.0	<input type="checkbox"/>

Close Cancel Details...

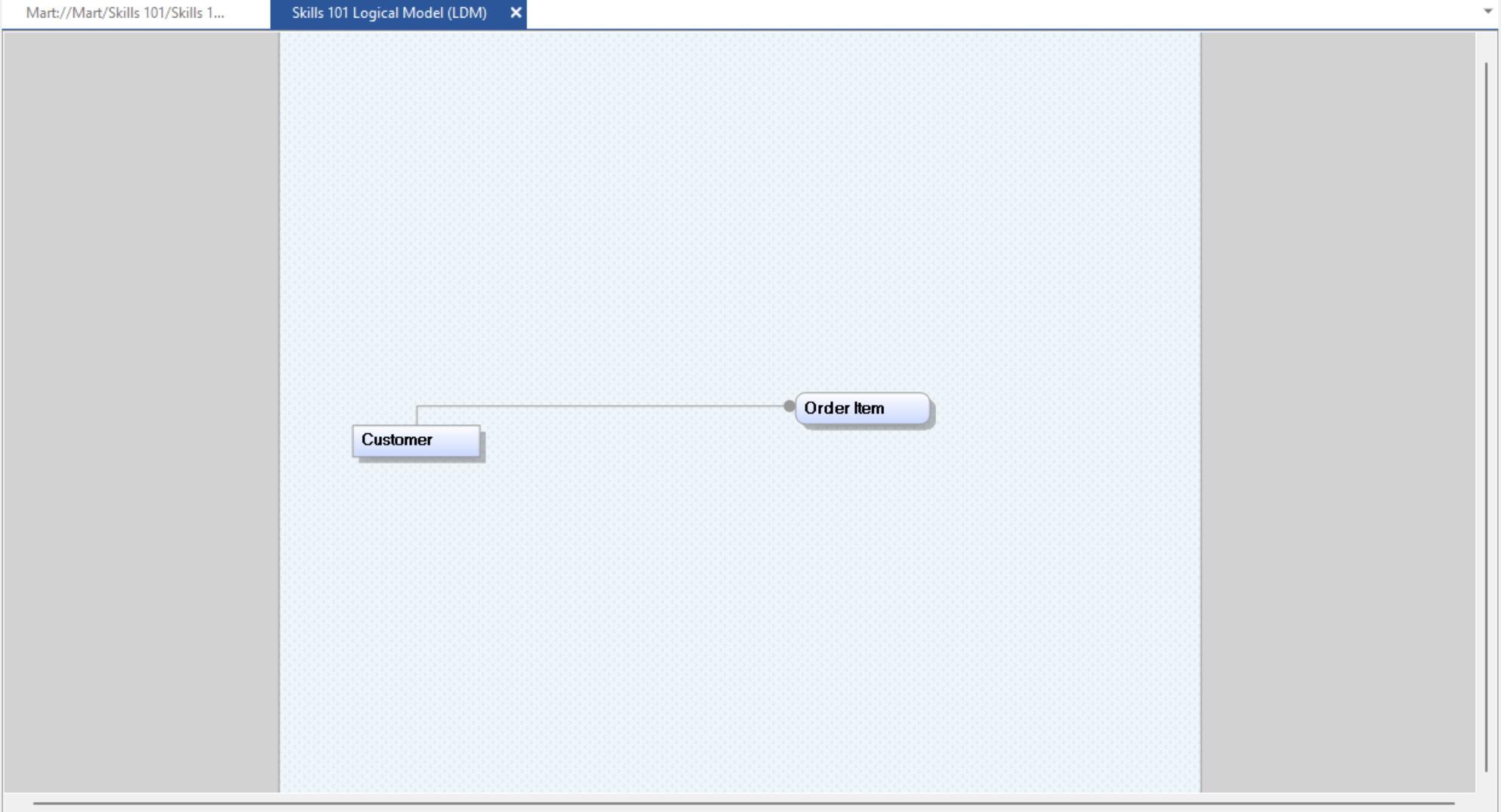
File Home View **Diagram** Project Explorer Model Mart Actions Tools Help

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Schema... Alter Script... Check Model Forward Engineer Hierarchical View Embedded View

Model Explorer Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM) Logical

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules



Properties

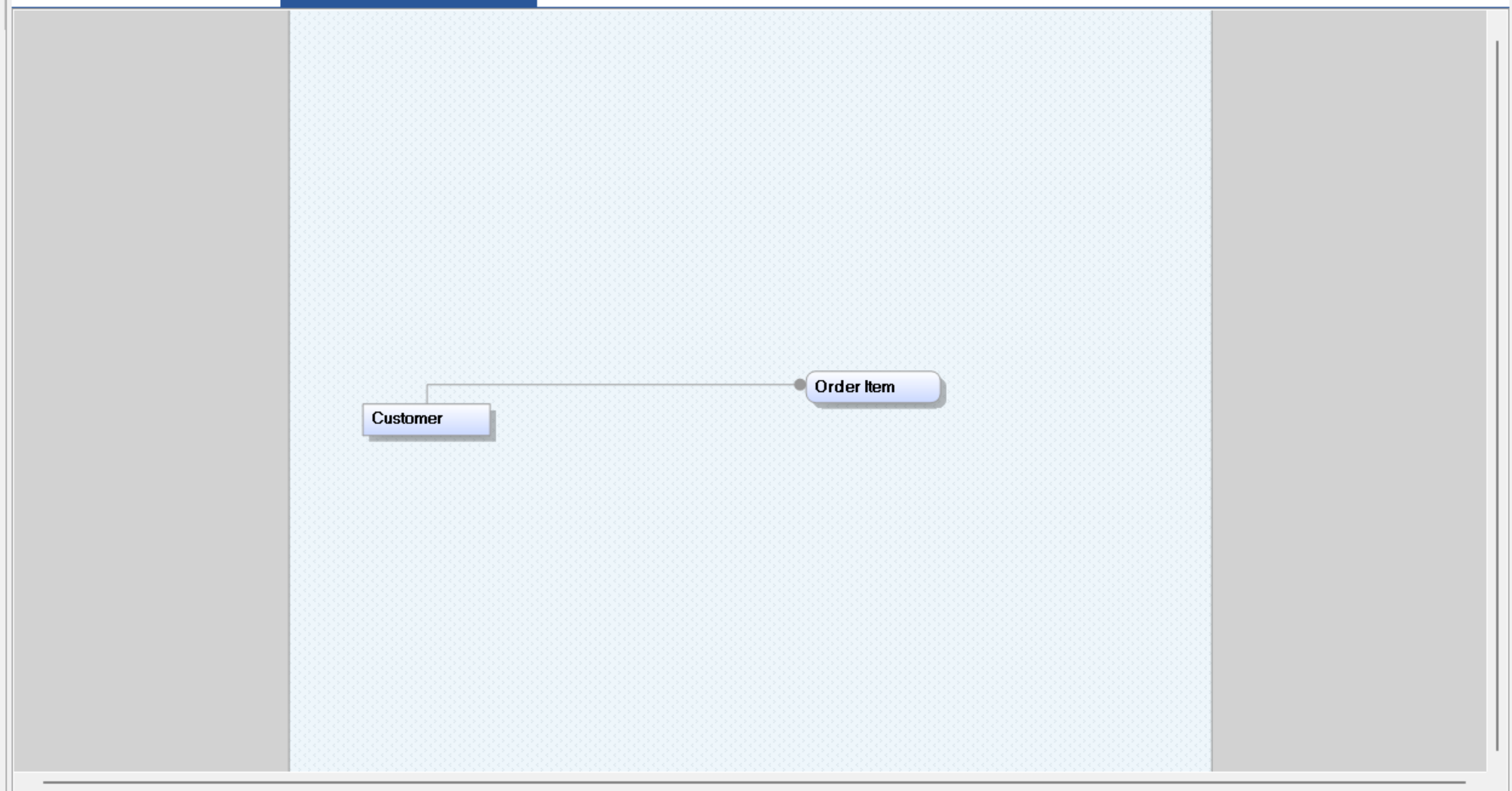
File Home View Diagram Project Explorer Model Mart Actions Tools Help

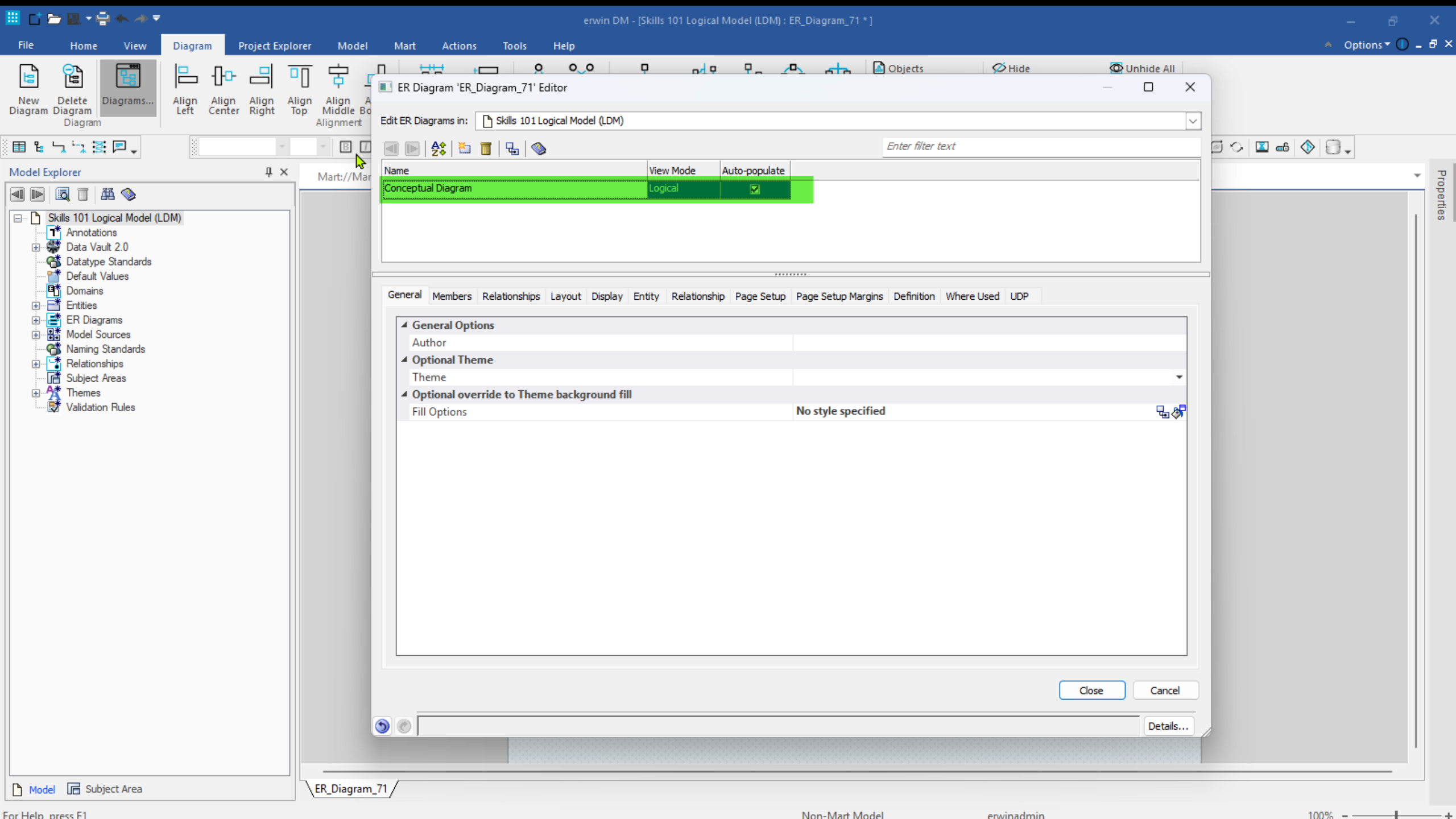
New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Alignment Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Diagrams... (Ctrl+Shift+M)
Launch the Diagram Editor

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules





New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Bottom

Model Explorer Mart://Mart

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

ER Diagram 'ER_Diagram_71' Editor

Edit ER Diagrams in: Skills 101 Logical Model (LDM)

Name	View Mode	Auto-populate
Conceptual Diagram	Logical	<input checked="" type="checkbox"/>

General Members Relationships Layout Display Entity Relationship Page Setup Page Setup Margins Definition Where Used UDP

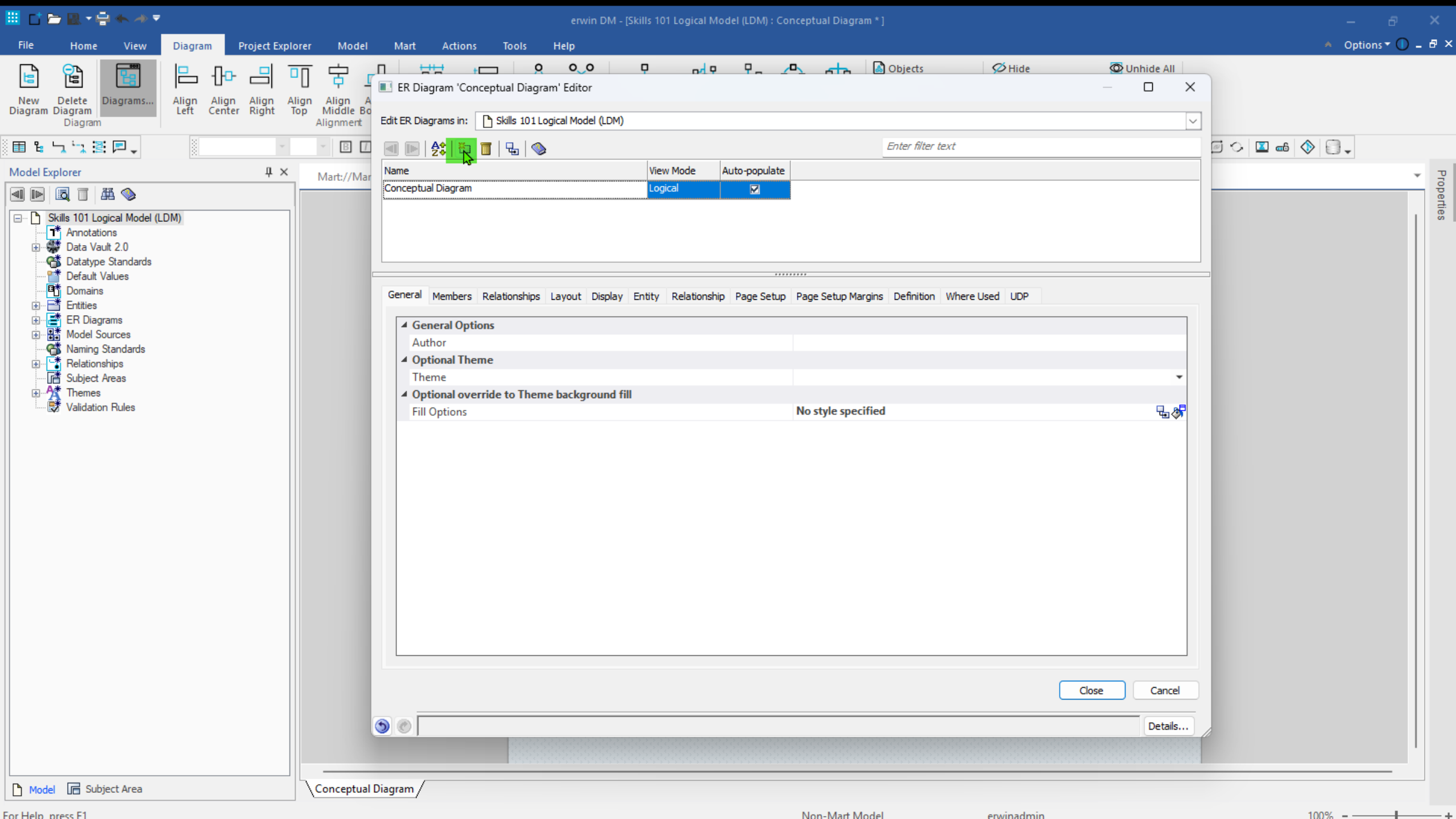
General Options
Author

Optional Theme
Theme

Optional override to Theme background fill
Fill Options: No style specified

Close Cancel

Details...



New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Bo Alignment

ER Diagram 'Conceptual Diagram' Editor

Edit ER Diagrams in: Skills 101 Logical Model (LDM)

Enter filter text

Name	View Mode	Auto-populate
Conceptual Diagram	Logical	<input checked="" type="checkbox"/>

General Members Relationships Layout Display Entity Relationship Page Setup Page Setup Margins Definition Where Used UDP

General Options
Author

Optional Theme
Theme

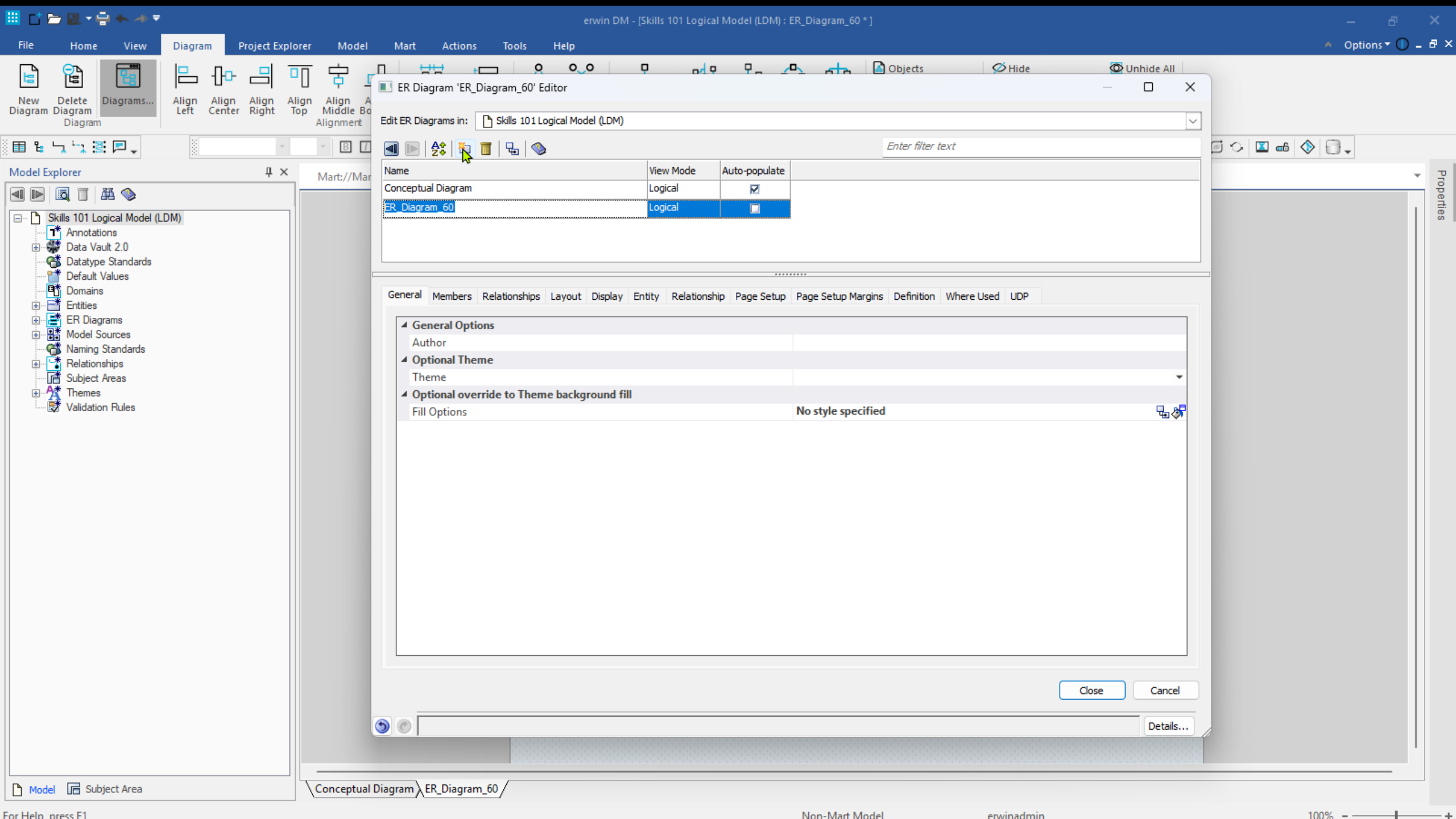
Optional override to Theme background fill
Fill Options No style specified

Close Cancel

Details...

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules



New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Bo Alignment

ER Diagram 'ER_Diagram_60' Editor

Edit ER Diagrams in: Skills 101 Logical Model (LDM)

Enter filter text

Name	View Mode	Auto-populate
Conceptual Diagram	Logical	<input checked="" type="checkbox"/>
ER_Diagram_60	Logical	<input type="checkbox"/>

General Members Relationships Layout Display Entity Relationship Page Setup Page Setup Margins Definition Where Used UDP

General Options
Author

Optional Theme
Theme

Optional override to Theme background fill
Fill Options **No style specified**

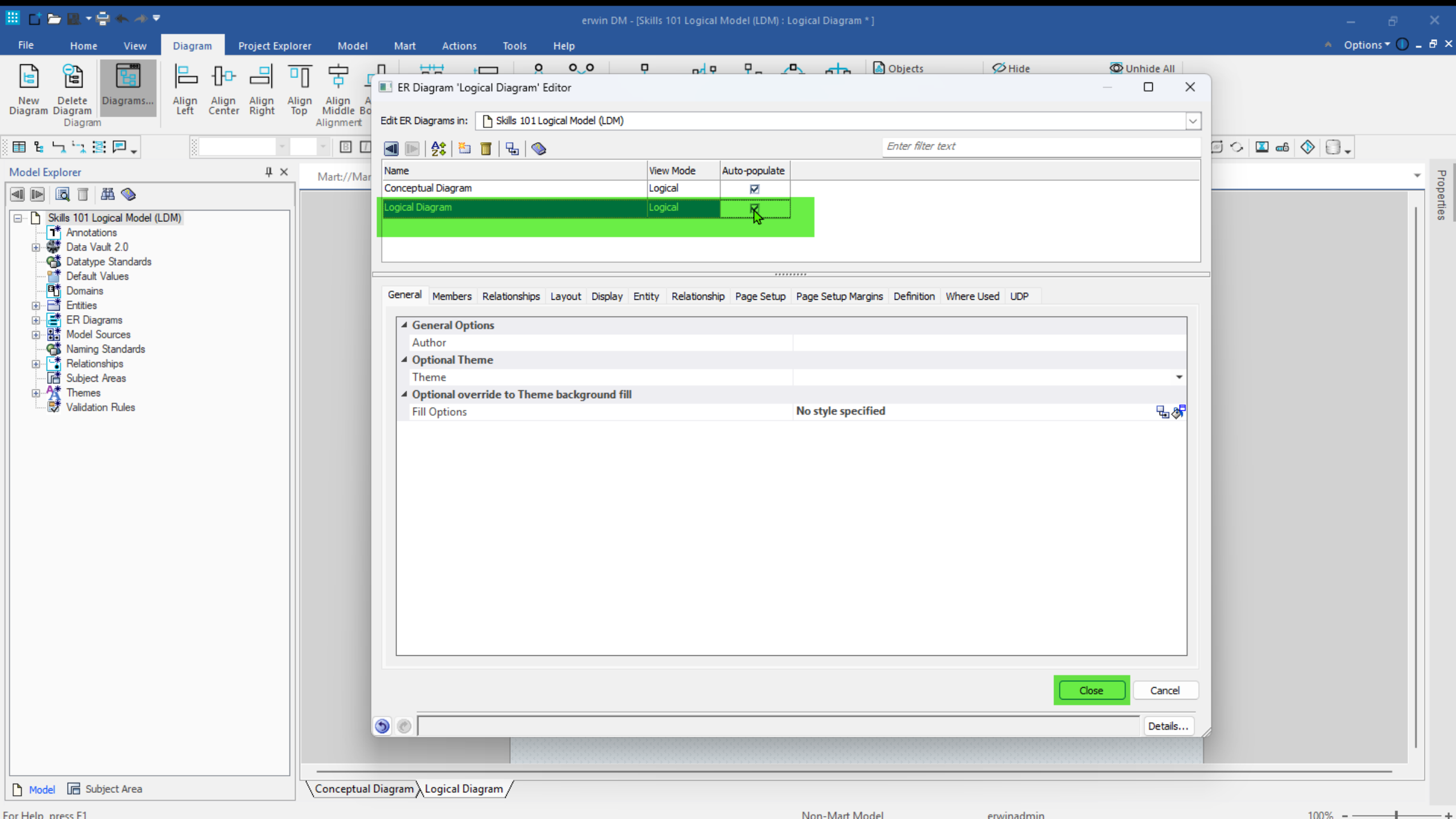
Close Cancel

Details...

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Properties



New Diagram Delete Diagram Diagrams...
Align Left Align Center Align Right Align Top Align Middle Bo Alignment

ER Diagram 'Logical Diagram' Editor

Edit ER Diagrams in: Skills 101 Logical Model (LDM)

Enter filter text

Name	View Mode	Auto-populate
Conceptual Diagram	Logical	<input checked="" type="checkbox"/>
Logical Diagram	Logical	<input type="checkbox"/>

General Members Relationships Layout Display Entity Relationship Page Setup Page Setup Margins Definition Where Used UDP

General Options
Author

Optional Theme
Theme

Optional override to Theme background fill
Fill Options No style specified

Close Cancel

Details...

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

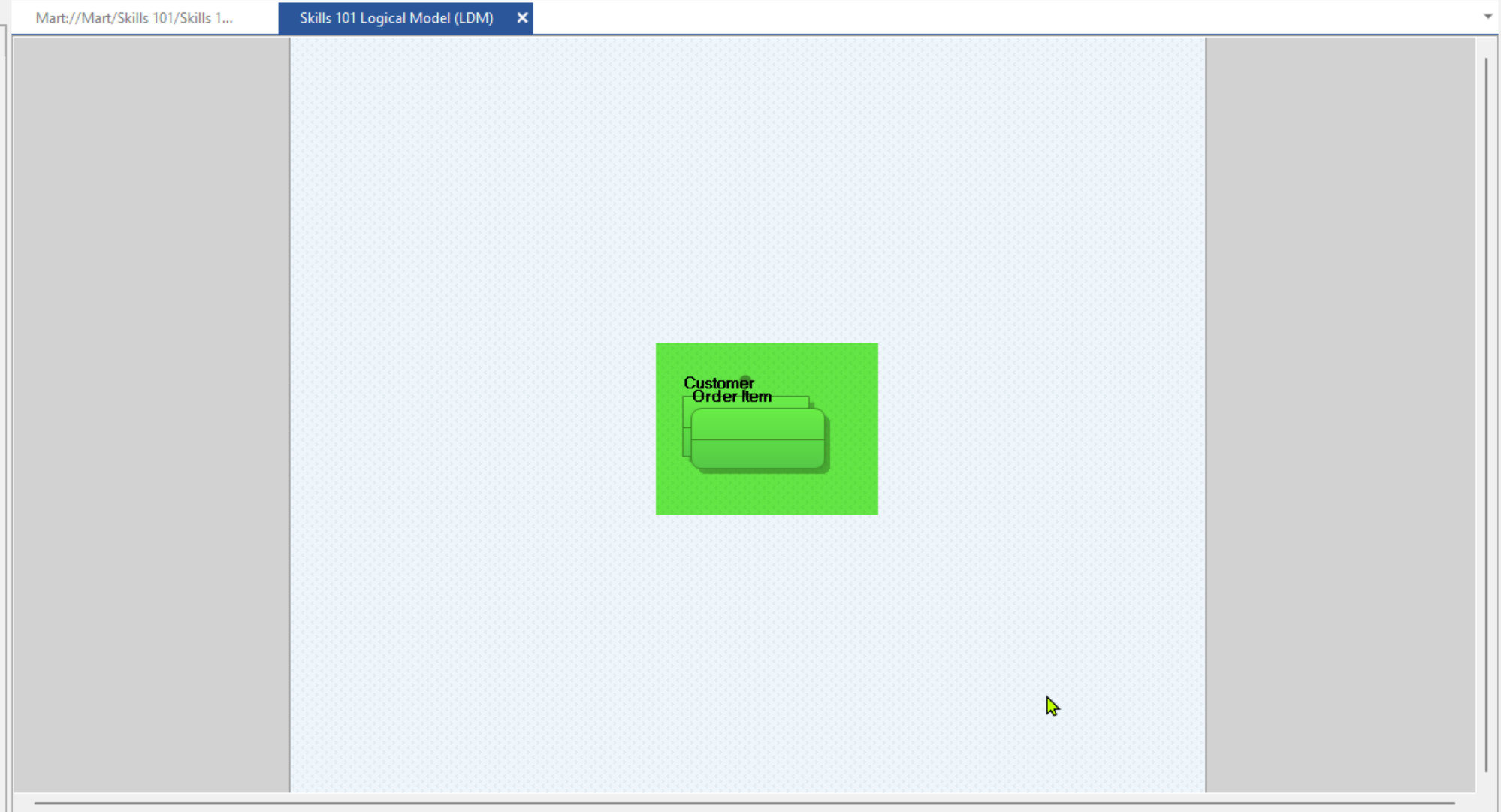
File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Alignment Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM) Logical

Model Explorer Skills 101 Logical Model (LDM)

- Annotations
- Data Vault 2.0
- Datatype Standards
- Default Values
- Domains
- Entities
- ER Diagrams
- Model Sources
- Naming Standards
- Relationships
- Subject Areas
- Themes
- Validation Rules



Properties

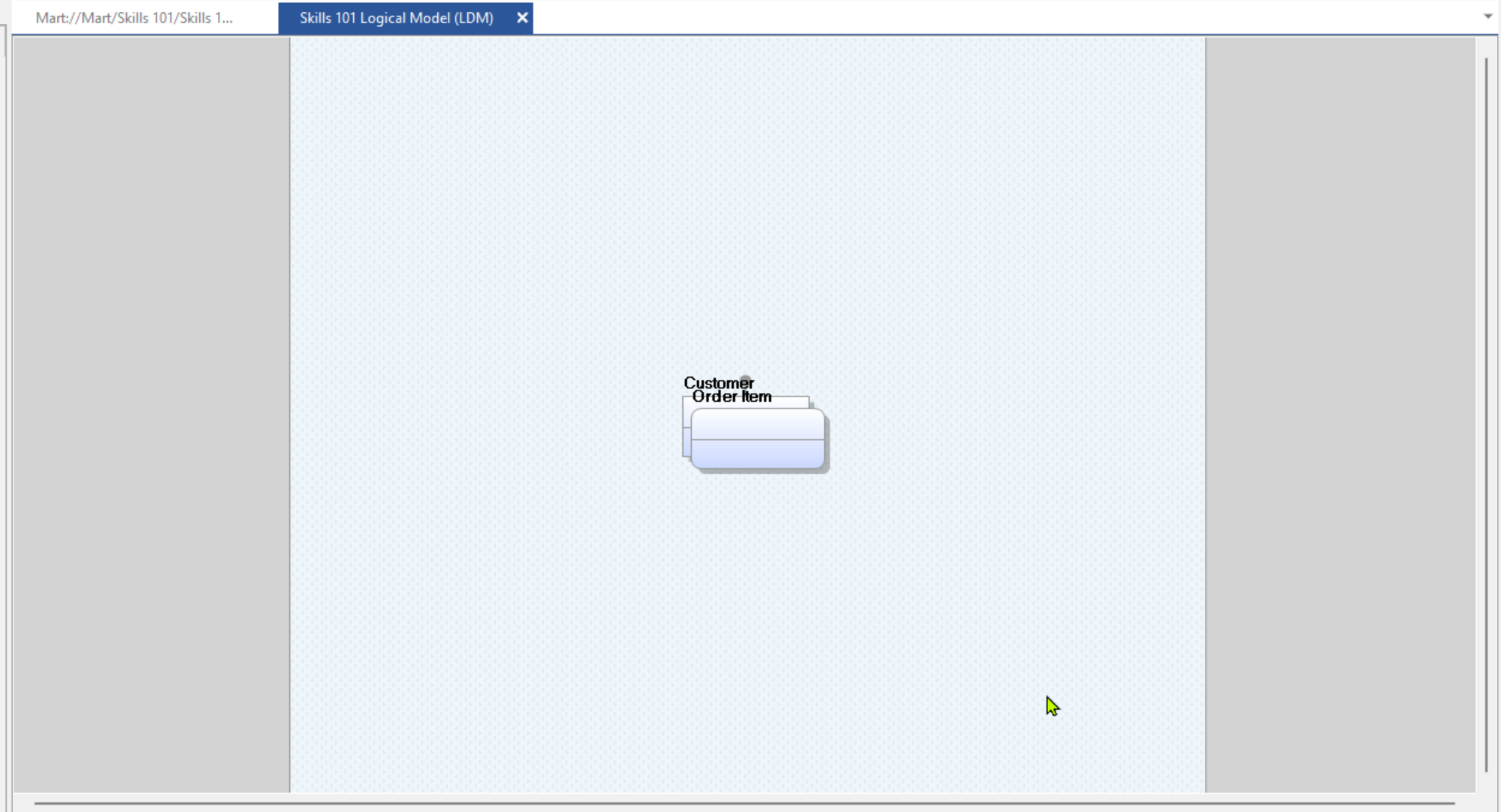
File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Alignment Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout Hiding Hide Hide Neighborhood Unhide All

Model Explorer Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM) Logical

Model Explorer Skills 101 Logical Model (LDM)

- Annotations
- Data Vault 2.0
- Datatype Standards
- Default Values
- Domains
- Entities
- ER Diagrams
- Model Sources
- Naming Standards
- Relationships
- Subject Areas
- Themes
- Validation Rules



Properties

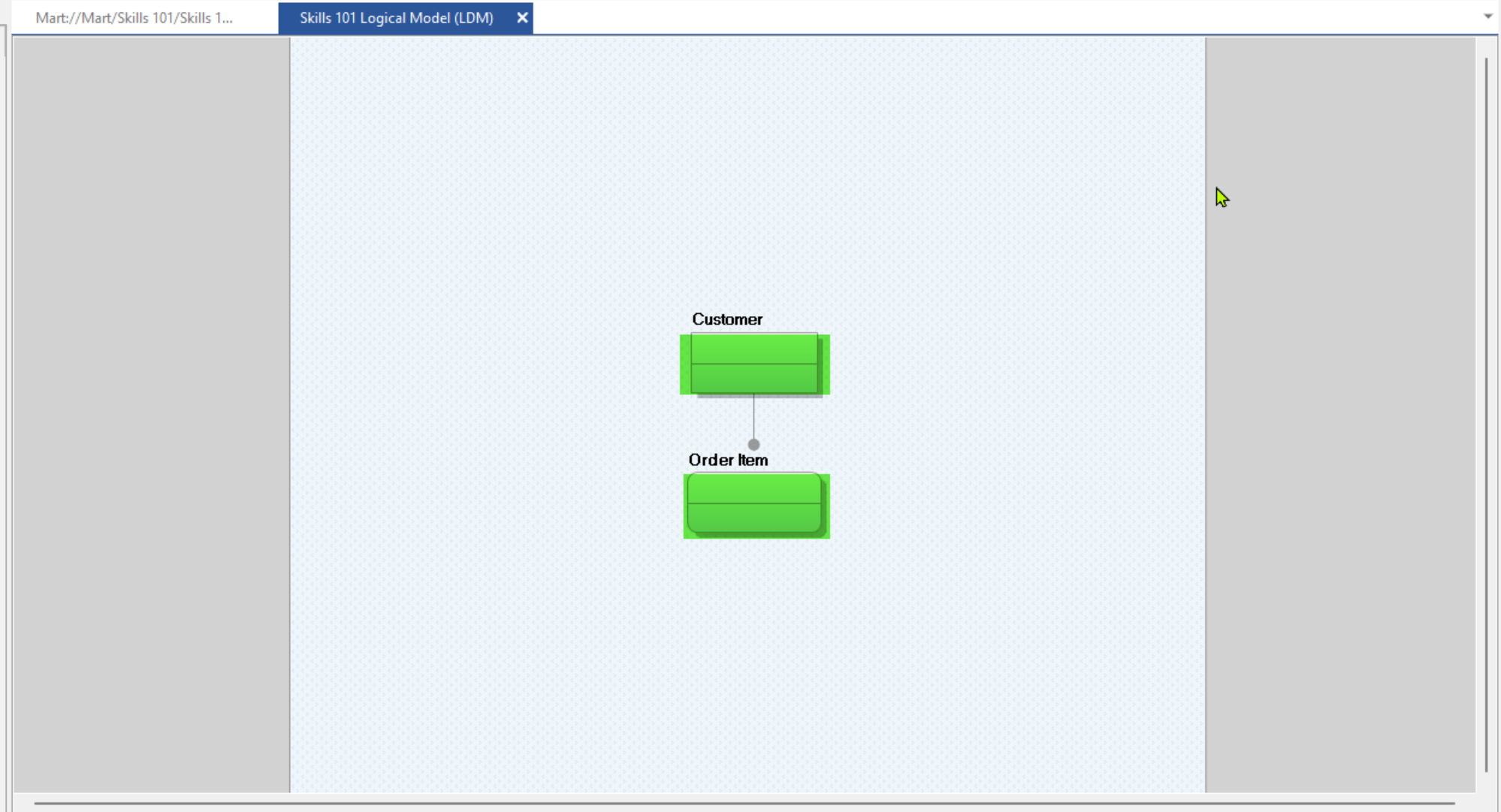
File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Alignment Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

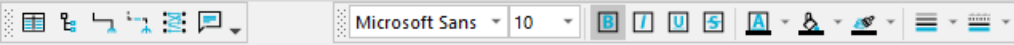
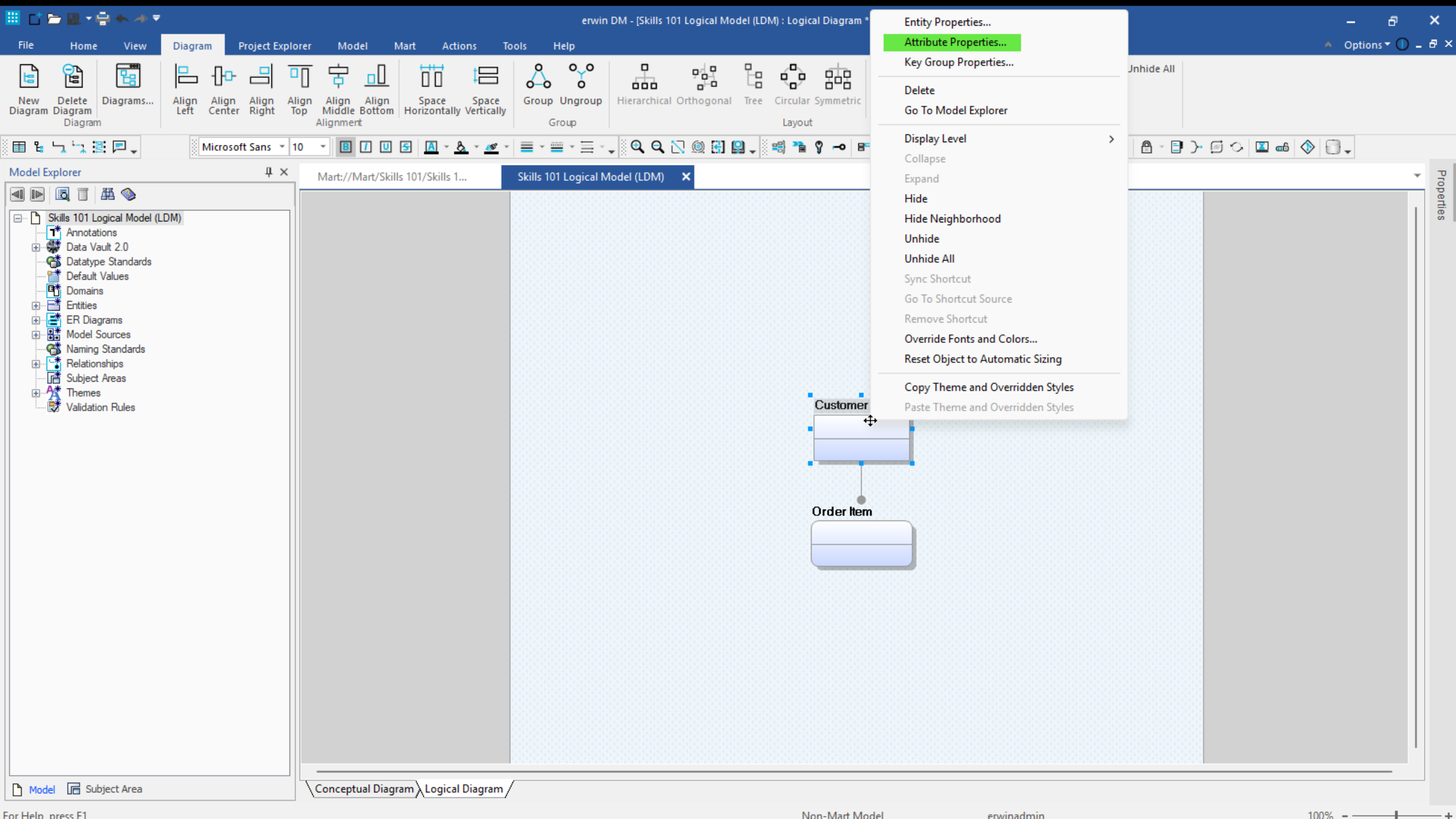
Model Explorer Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM) Logical

Model Explorer Skills 101 Logical Model (LDM)

- Annotations
- Data Vault 2.0
- Datatype Standards
- Default Values
- Domains
- Entities
- ER Diagrams
- Model Sources
- Naming Standards
- Relationships
- Subject Areas
- Themes
- Validation Rules

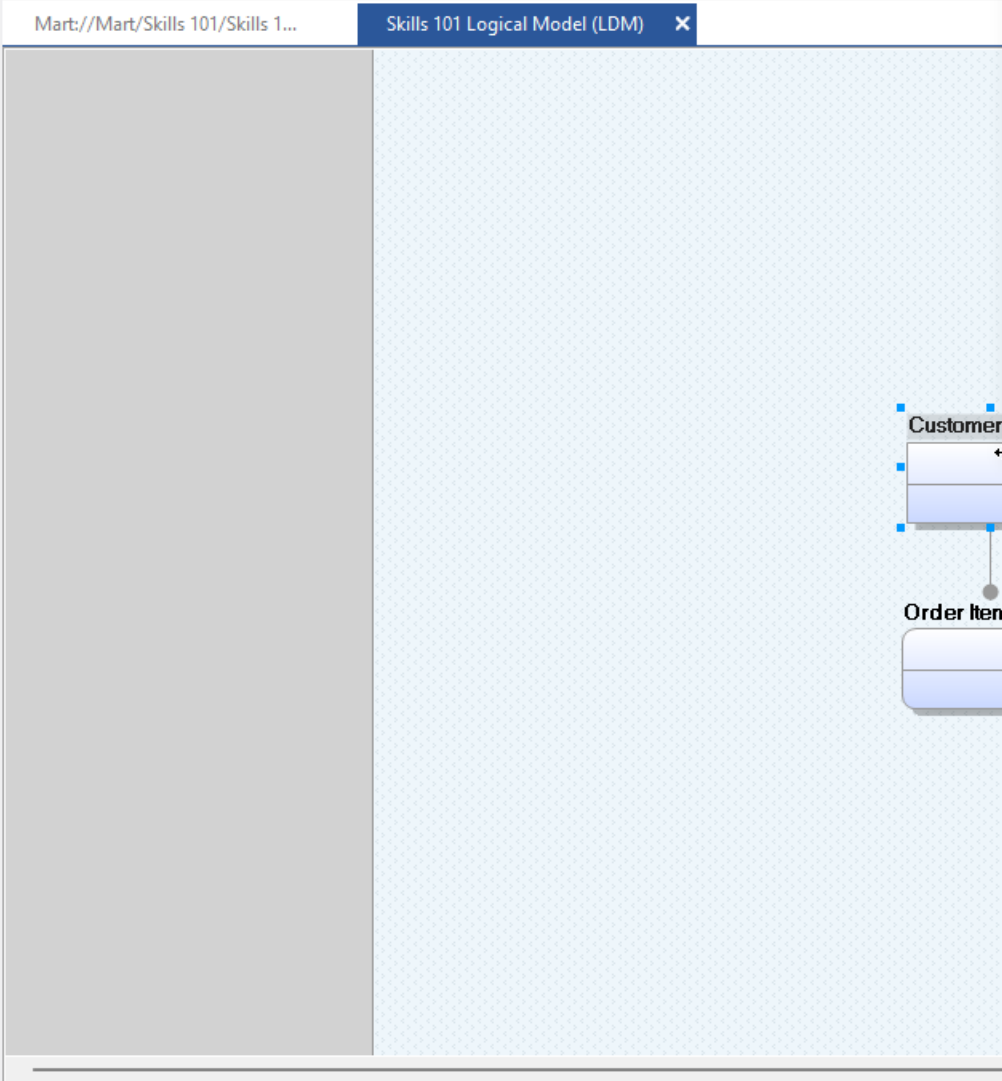


Properties



Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules



- Entity Properties...
- Attribute Properties...**
- Key Group Properties...
- Delete
- Go To Model Explorer
- Display Level >
- Collapse
- Expand
- Hide
- Hide Neighborhood
- Unhide
- Unhide All
- Sync Shortcut
- Go To Shortcut Source
- Remove Shortcut
- Override Fonts and Colors...
- Reset Object to Automatic Sizing
- Copy Theme and Overridden Styles
- Paste Theme and Overridden Styles

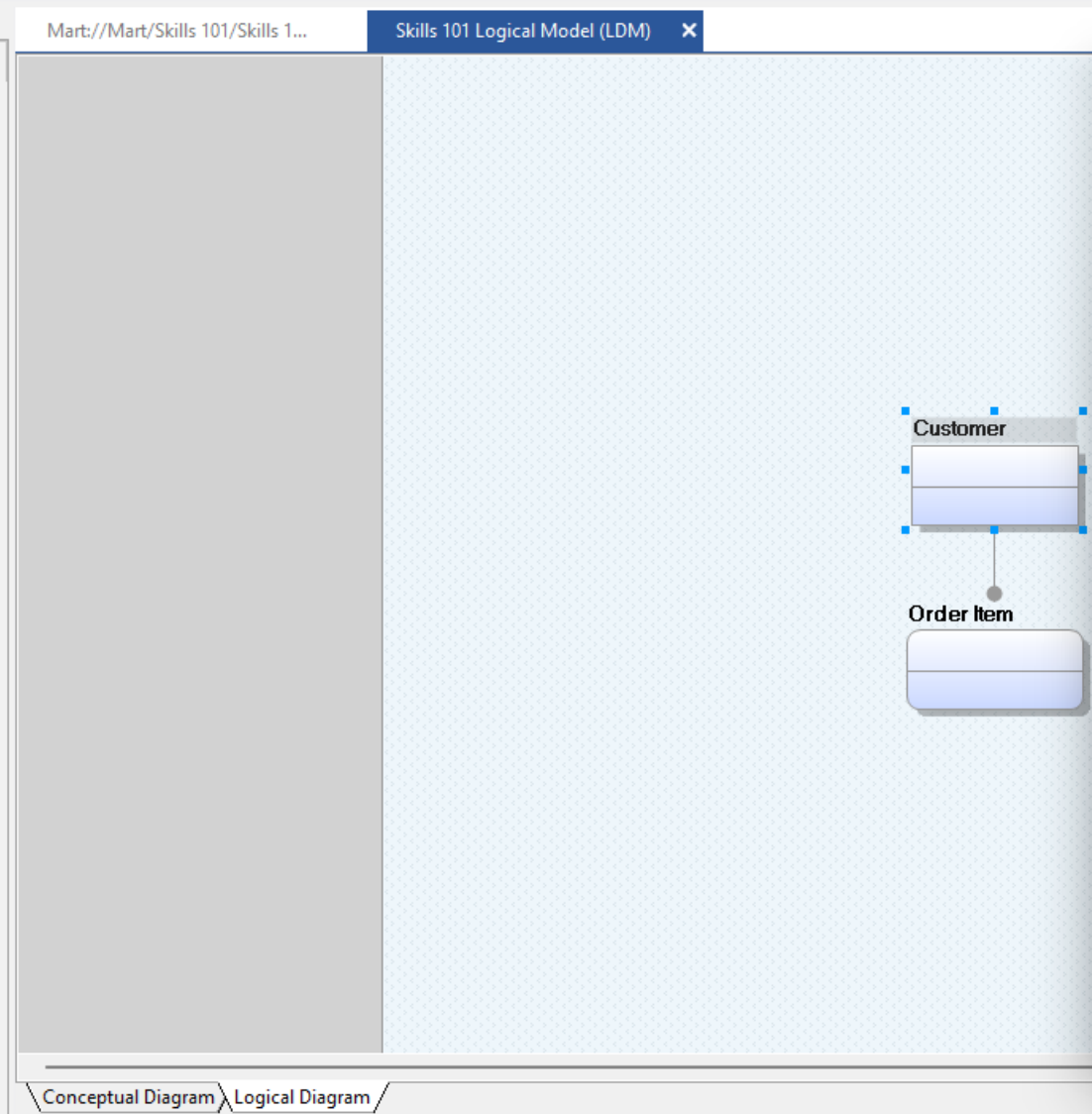


Diagram toolbar: New Diagram, Delete Diagram, Diagrams..., Align Left, Align Center, Align Right, Align Top, Align Middle, Align Bottom, Space Horizontally, Space Vertically, Group, Ungroup, Hierarchical, Orthogonal, Tree, Circular, Symmetric, Objects, Relationship Paths, Layout In Place, Hide, Hide Neighborhood, Unhide, Unhide All.

Model Explorer toolbar: Microsoft Sans, 10, Bold, Italic, Underline, Strikethrough, Text Color, Fill Color, Stroke Color, Line Style, Font Size, Zoom In, Zoom Out, Rotate, Copy, Paste, Undo, Redo, Refresh, Save, Print, Close.

Model Explorer tree view:

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules



Entity 'Customer' Attribute Editor

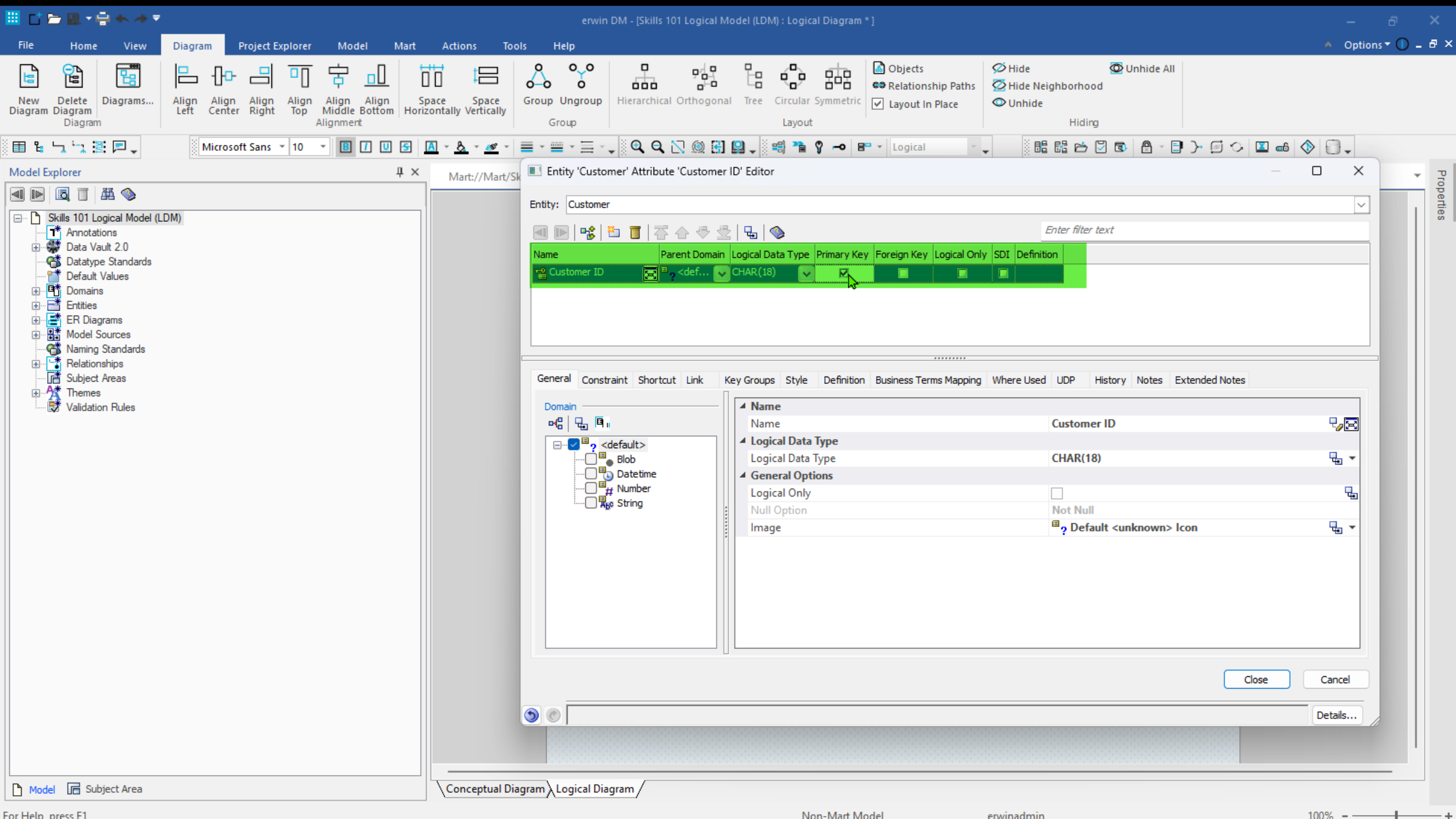
Entity: Customer

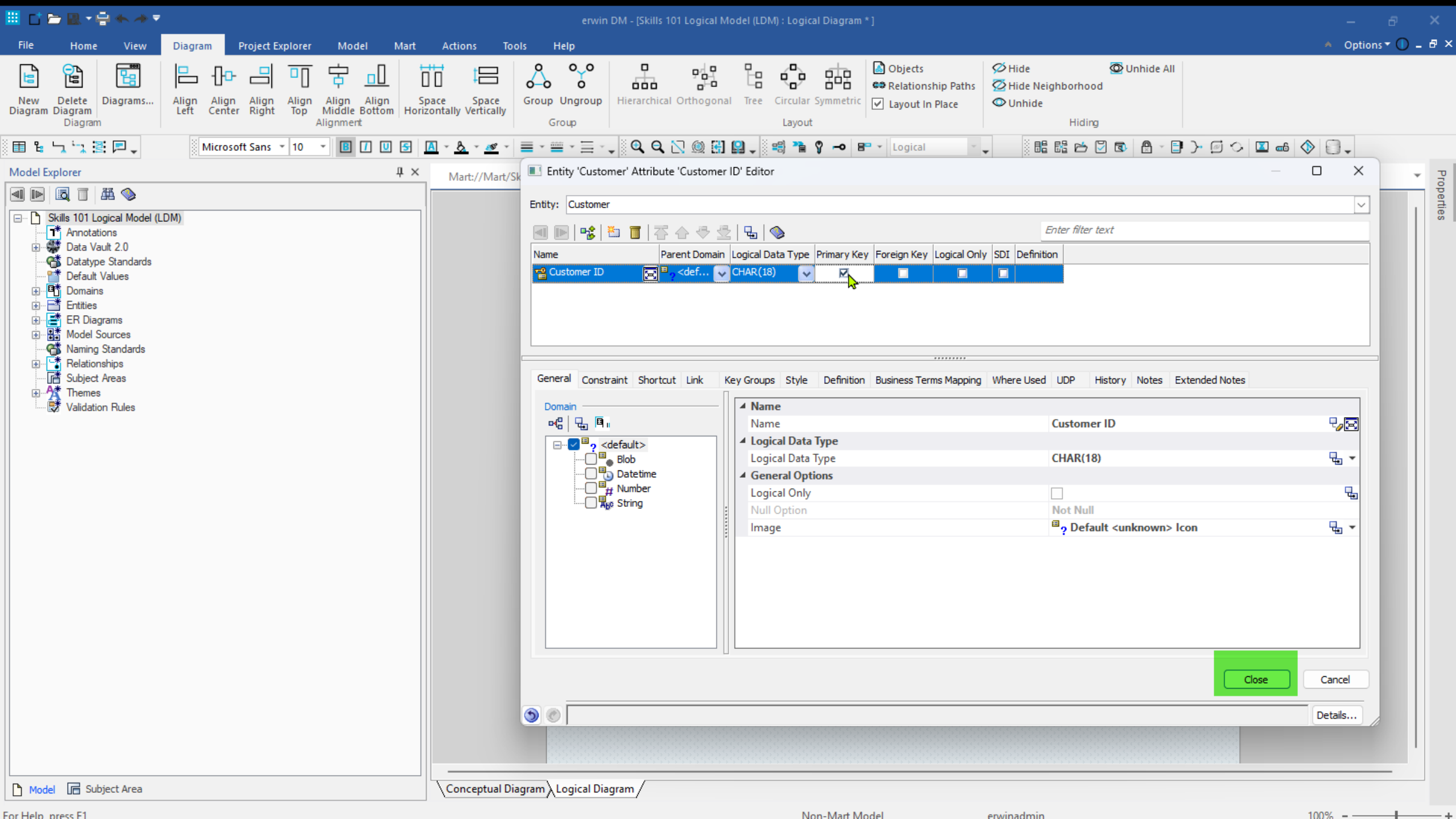
Name	Parent Domain	Logical Data Type	Primary Key	Foreign Key	Logical Only	SDI	Definition
There are no items to show.							

General Constraint Shortcut Link Key Groups Style Definition Business Terms Mapping

Domain

Close Cancel Details...





File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Alignment Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All Hiding

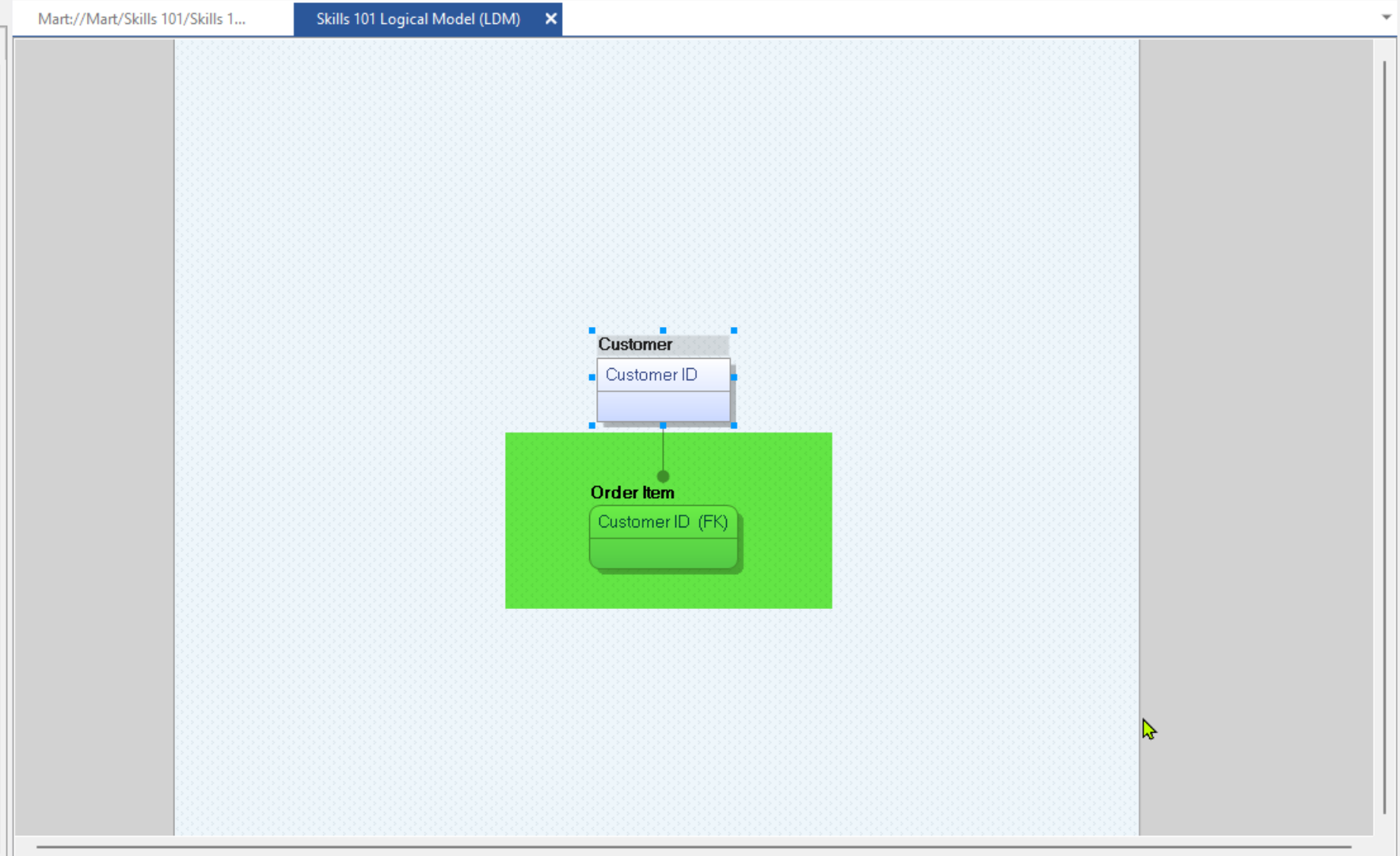
Microsoft Sans 10 Bold Italic Underline Strikethrough Font Color Background Color Text Color Line Color Line Style Line Weight Fill Color Fill Style Fill Weight

Logical

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Model Subject Area



Properties

File Home View Diagram Project Explorer Model Mart Actions Tools Help

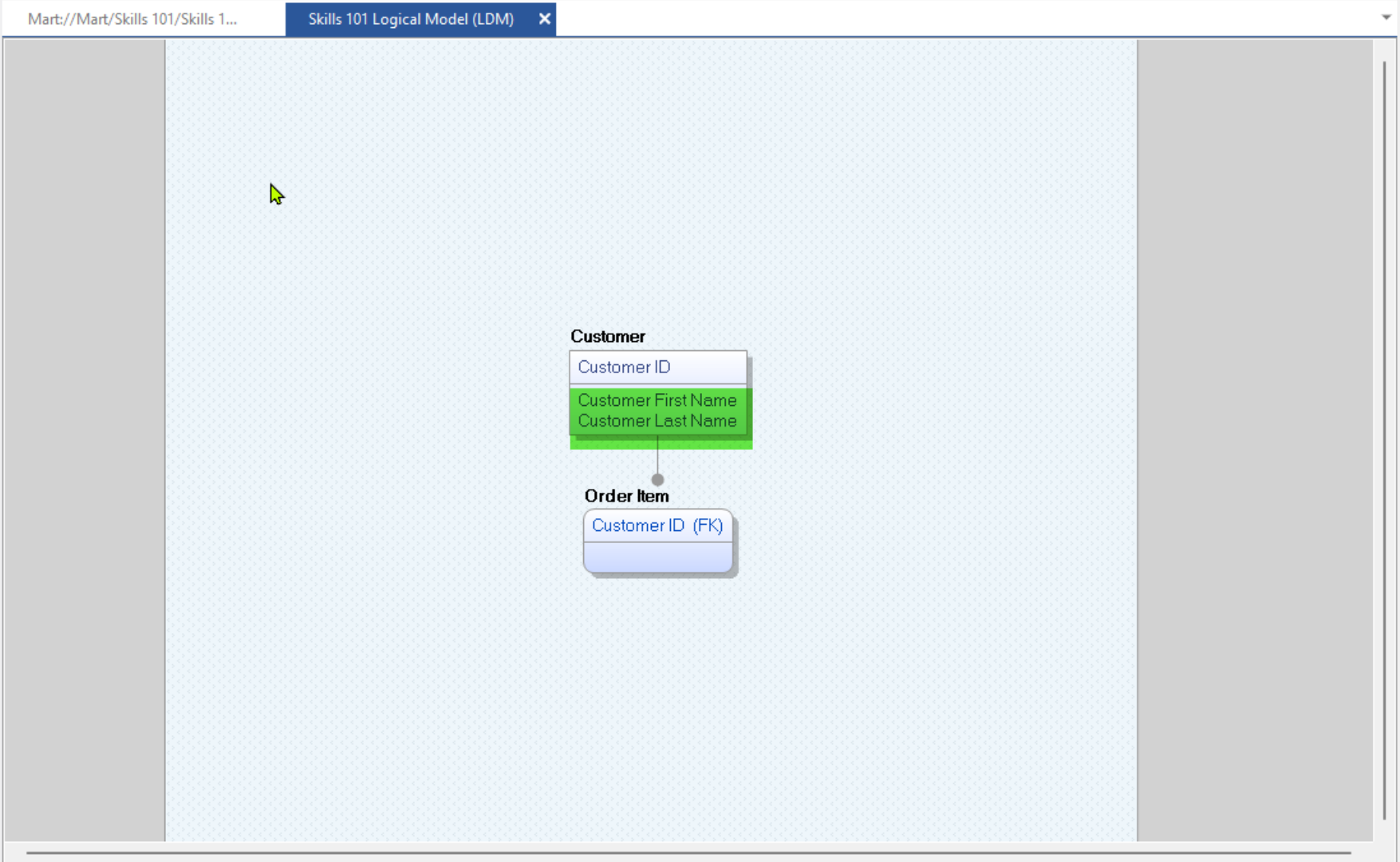
Naming Standards Naming Standards Compliance Manage Name Hardening Model Naming Options Datatype Standards Volumetrics Add-Ins Current Selected... Report Designer Query Tool erwin DM Scheduler Objects Count Object Browser Project Explorer Options Customize Spell Checker Import... Export... Bridges

Model Explorer Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM) x Logical

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Model Subject Area



Properties

erwin DM - [Skills 101 Logical Model (LDM) : Logical Diagram *]

File Home View Diagram Project Explorer Model Mart Actions Tools Help

Naming Standards Naming Standards Manage Name Hardening Model Naming Options Datatype Standards Volumetrics Add-Ins Current Selected... Report Designer Query Tool erwin DM Scheduler Objects Count Object Browser Project Explorer Options Customize Spell Checker Import... Export... Bridges

Model Explorer Skills 101 Logical Model (LDM) Annotations Data Vault 2.0 Datatype Standards Default Values Domains Entities ER Diagrams Model Sources Skills 101 Conceptual Model (CDM) Naming Standards Relationships Subject Areas Themes Validation Rules

Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM)

Customer
Customer ID
Customer First Name
Customer Last Name

Order Item
Customer ID (FK)

Conceptual Diagram Logical Diagram

For Help, press F1 Non-Mart Model erwinadmin 100%

File Home View Diagram Project Explorer Model Mart Actions Tools Help

Naming Standards Naming Standards Compliance Manage Name Hardening Model Naming Options Datatype Standards Volumetrics Add-Ins Current Selected... Diagram Picture Report Designer Query Tool erwin DM Scheduler Objects Count Object Browser Project Explorer Options Customize Spell Checker Import... Export... Bridges

Model Explorer Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM)

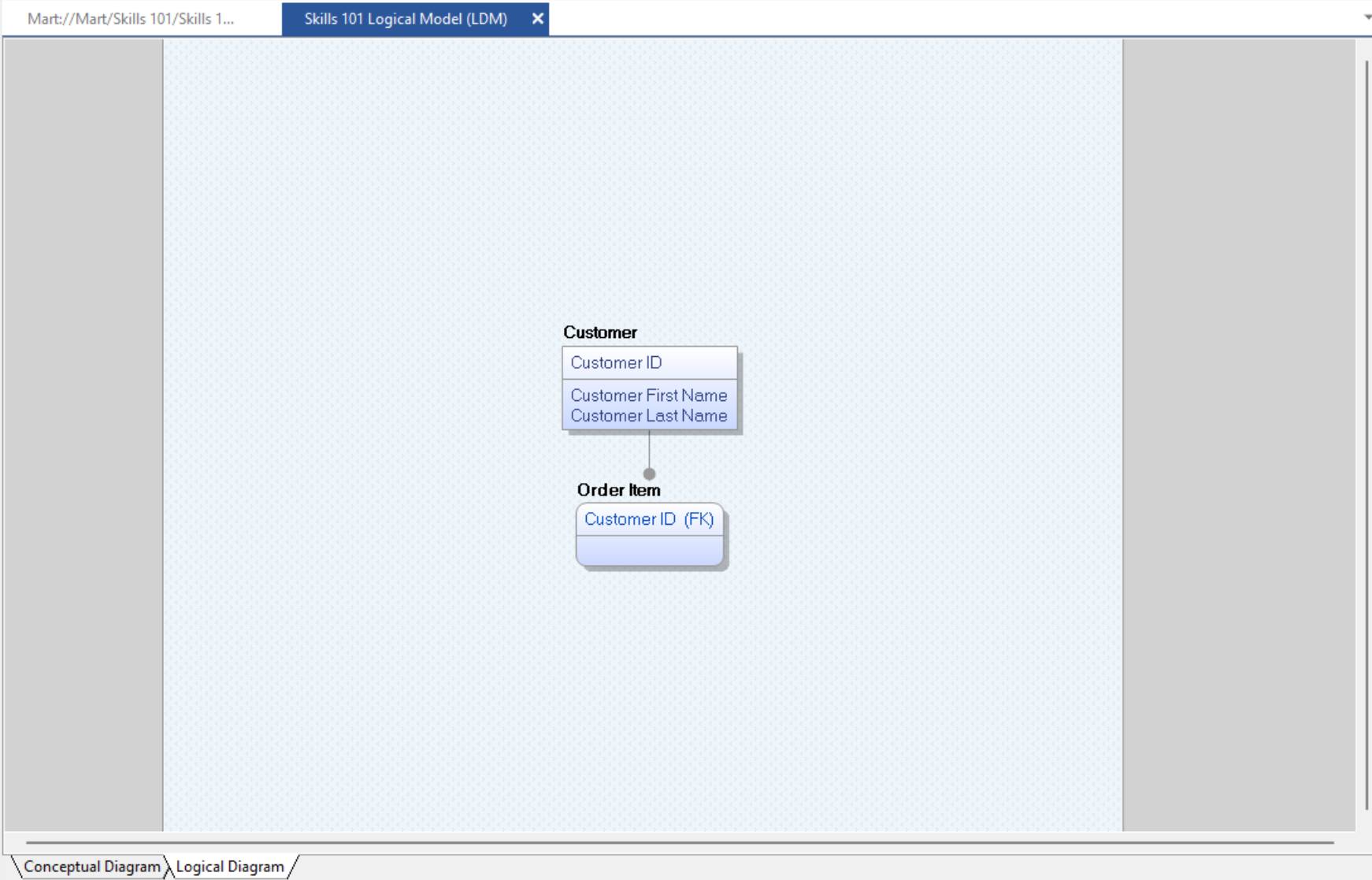
Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Context menu for Skills 101 Conceptual Model (CDM):

- Delete
- Properties...

Model Subject Area



Properties

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Model Sources Properties

Source: Skills 101 Conceptual Model (CDM) New

Name: Skills 101 Conceptual Model (CDM) Delete

General Definition Where Used UDP Name Mapping Options

Source Model

Mart Model
 erwin File

Model:
Mart://Mart/Skills 101/Skills 101 Conceptual Model (CDM) ...

Synchronization

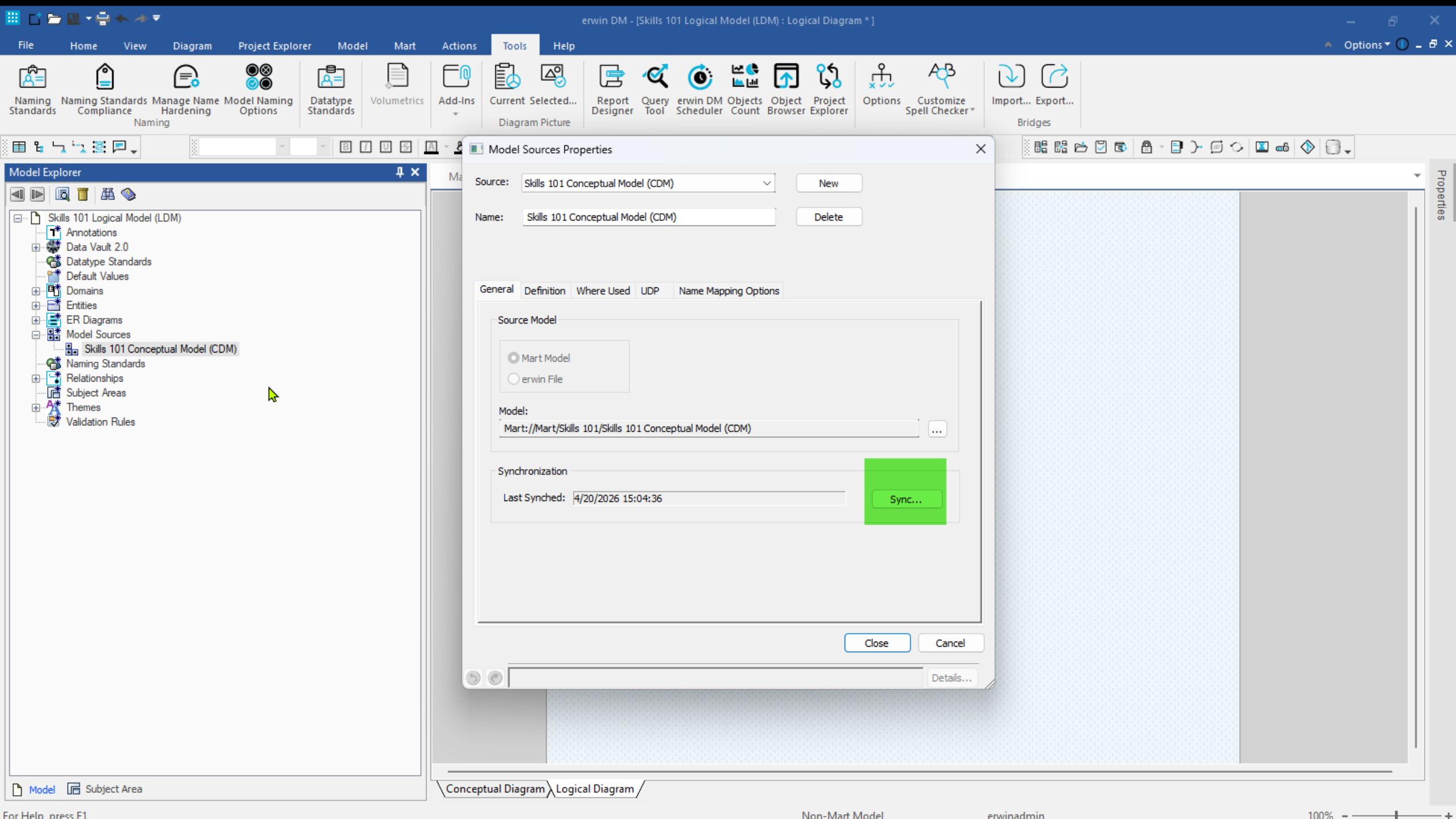
Last Synced: 4/20/2026 15:04:36 Sync...

Close Cancel Details...

Properties

Conceptual Diagram Logical Diagram

Non-Mart Model erwinadmin 100%



Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Model Sources Properties

Source: Skills 101 Conceptual Model (CDM) New

Name: Skills 101 Conceptual Model (CDM) Delete

General Definition Where Used UDP Name Mapping Options

Source Model

Mart Model
 erwin File

Model:
Mart://Mart/Skills 101/Skills 101 Conceptual Model (CDM) ...

Synchronization

Last Synced: 4/20/2026 15:04:36 Sync...

Close Cancel

Details...

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Save

Catalog:

- Mart
 - _SDLC
 - Advanced Models
 - Demonstration Models
 - Model Templates
 - Oracle AI World 2025
 - PAHHS
 - Projects
 - RE Configurations
 - Skills 101

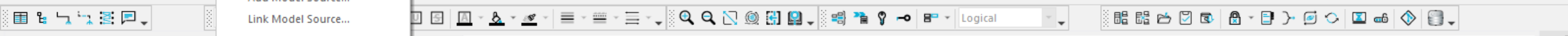
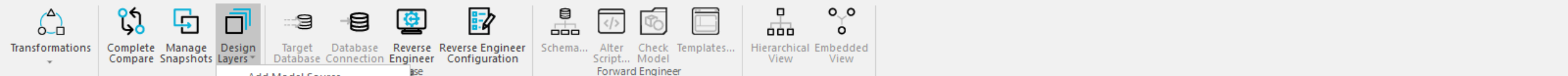
Name	Creator	Last Modifier	Modified On
Conceptual Model	erwinadmin	erwinadmin	3/17/2026 09:12:00
Logical Model	erwinadmin	erwinadmin	3/17/2026 09:27:00
Skills 101 AMT	erwinadmin	erwinadmin	2/10/2026 15:50:00
Skills 101 AMT Domain 99	erwinadmin	erwinadmin	2/11/2026 15:27:00
Skills 101 Conceptual Model (CDM)	erwinadmin	erwinadmin	4/20/2026 13:35:00
Skills 101 Model 1	erwinadmin	erwinadmin	2/10/2026 12:39:00
Skills 101 Model 1 - Season Two	erwinadmin	erwinadmin	2/10/2026 19:51:00
Skills 101 Model 1 AMT Applied	erwinadmin	erwinadmin	2/10/2026 16:00:00
Skills 101 New AMT	erwinadmin	erwinadmin	2/11/2026 08:26:00

Model Name: Skills 101 Logical Model (LDM) Show Templates only

Mark As Template Maintain Multiple Versions

Description

Save Cancel

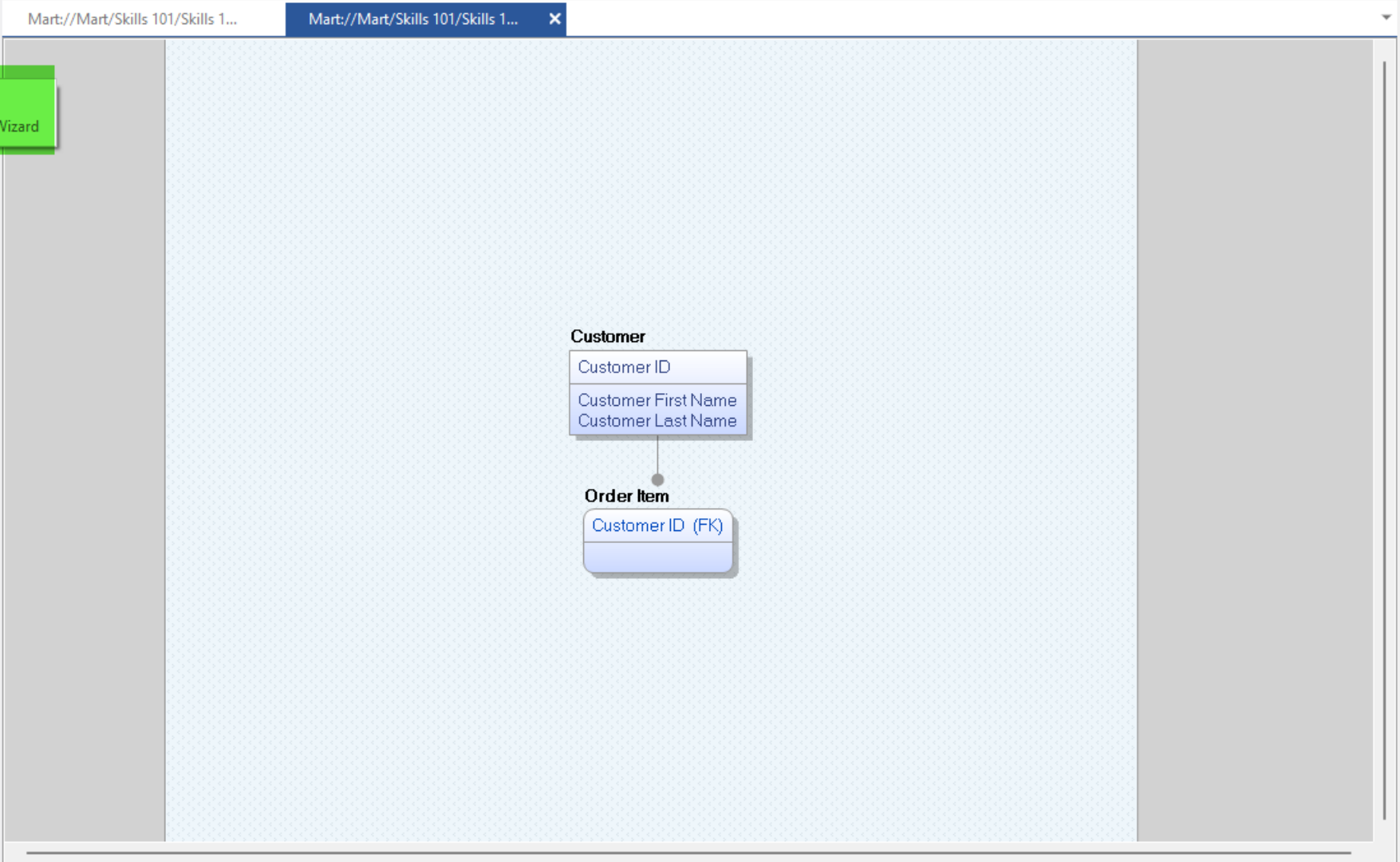


Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

- Add Model Source...
- Link Model Source...
- Sync with Model Source...
- Derive New Model...**
- Split Model...

Derive New Model
Launch Derive New Model Wizard



Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Derive Model

Select the Target Model
Please select the options to create a new derived model

Compare Level: Unknown

New Model Type

Conceptual Logical Physical Logical/Physical

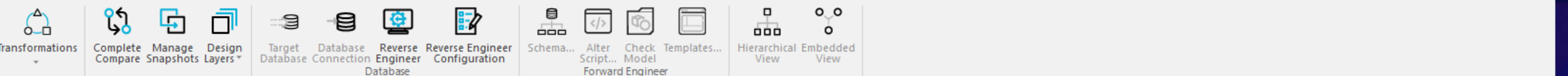
Create Using Template:

Blank Logical Model

Remove Browse File System... Browse Mart...

Creates a new logical-only model with all default settings.

< Back Next > Derive Close Help



Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Derive Model

Select the Target Model
Please select the options to create a new derive

Compare Level: Unknown

Physical Logical/Physical

New Model:
 Conceptual

Create Using:

Remove

Creates a new model with the following settings.

Target Database:
Database: Azure Synapse
Version: Fabric Lakehouse

Buttons: < Back, Next >, Derive, Close, Help

- Azure Synapse
- Cassandra
- Couchbase
- Databricks
- Db2 for i
- Db2 for LUW
- Db2 for z/OS
- DynamoDB
- Google BigQuery
- Hive
- Informix**
- Json
- MariaDB
- MongoDB
- MySQL
- Neo4j
- Netezza
- ODBC/Generic
- Oracle
- Parquet
- PostgreSQL
- Progress
- Redshift
- SAP ASE
- SAP IQ
- SAS
- Snowflake
- SQL Server
- Teradata

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Derive Model

Select the Target Model
Please select the options to create a new derived model

Compare Level: Unknown

New Model Type

Conceptual Logical Physical Logical/Physical

Create Using Template:

Blank Logical/Physical Model

Remove Browse File System... Browse Mart...

Creates a new model with both logical and physical levels (erwin DM classic) and default settings.

Target Database

Database: Azure Synapse Version: Fabric Lakehouse

< Back Next > Derive Close Help

File Home View Diagram Project Explorer Model Mart **Actions** Tools Help

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Reverse Engineer Configuration Schema... Alter Script... Check Model Forward Engineer Hierarchical View Embedded View

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Logical

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Derive Model

Select the Target Model Please select the options to create a new derived model Compare Level: Unknown

New Model Type

Conceptual Logical Physical Logical/Physical

Create Using Template:

Blank Logical/Physical Model

Creates a new model with both logical and physical levels (erwin DM classic) and default settings.

Target Database

Database: Azure Synapse Version: Fabric Lakehouse

Properties

Data Type Mapping



→ Quest

File Home View Diagram Project Explorer Model Mart Actions Tools Help

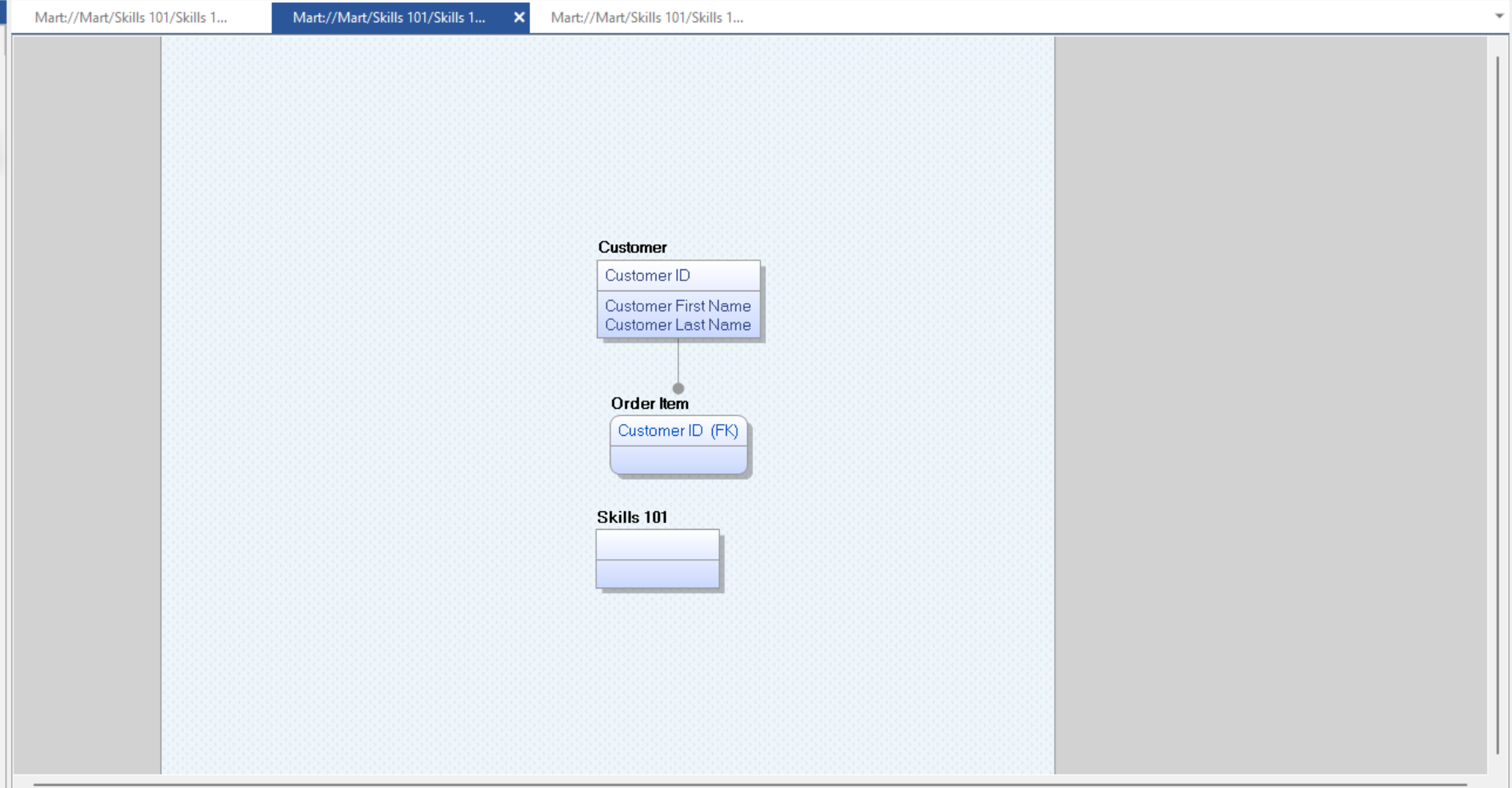
New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Logical

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

New



Properties

File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Mart://Mart/Skills 101/Skills 1...

Datatype Standard 'Datatype_Standard_85' Editor

Enter filter text

Name	Is Active
Datatype_Standard_85	<input type="checkbox"/>

Logical Definition Mapping Definition Notes Extended Notes

Datatype	Domain	Length	Precision	D
ARRAY	Blob	None	None	
AUDIO	Blob	Mandatory	Optional	
BINARY	Blob	Optional	Optional	
BOOLEAN	Number	None	None	
BYTE	Number	None	None	
CHAR	String	Optional	Optional	
DATE	Datetime	None	None	
DATETIME DAY TO DAY	Datetime	None	None	
DATETIME DAY TO FRACTION	Datetime	Optional	None	
DATETIME DAY TO HOUR	Datetime	None	None	

Close Cancel Details...

File Home View **Diagram** Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85**
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Datatype Standard 'Datatype_Standard_85' Editor

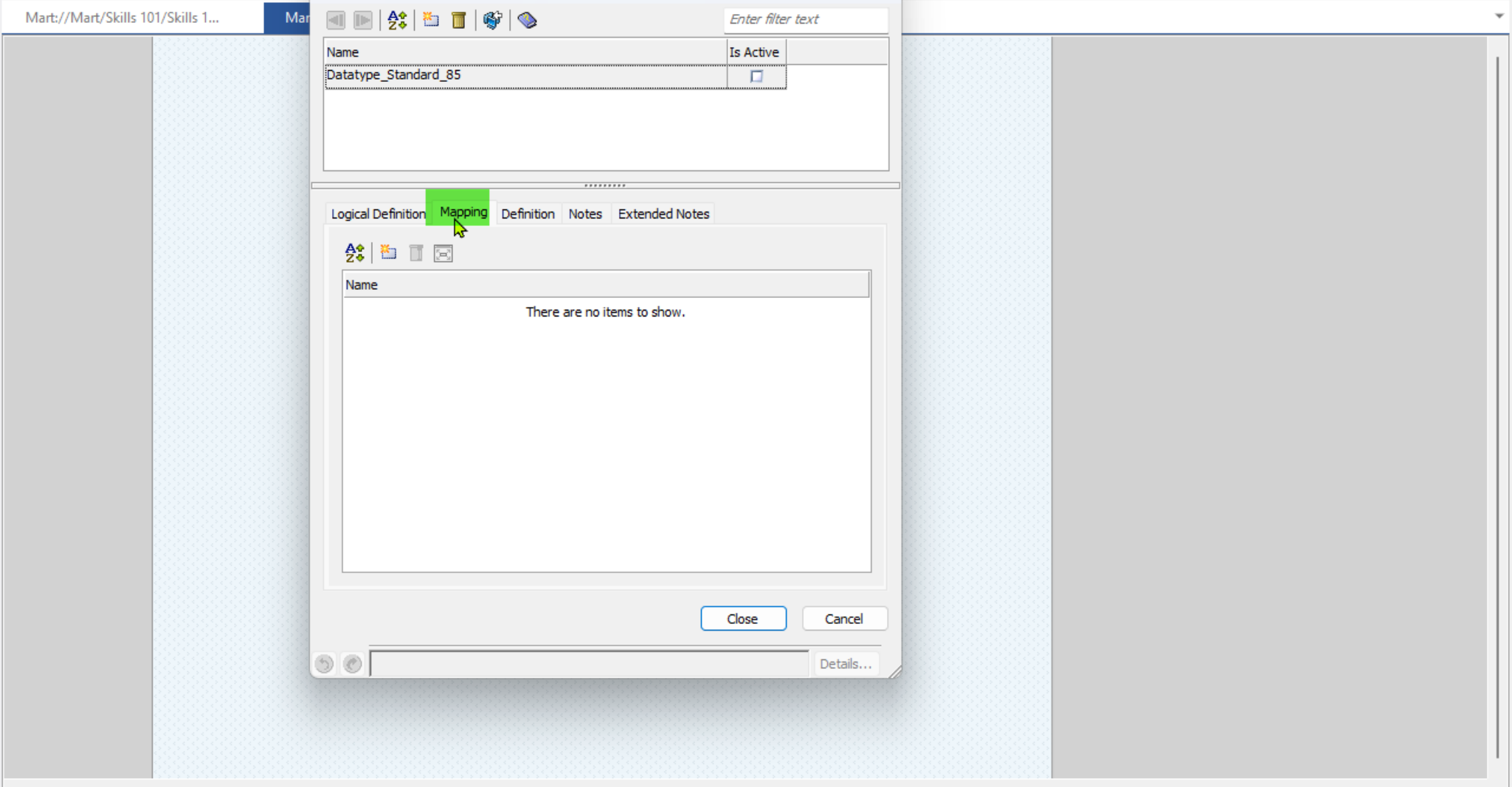
Name	Is Active
Datatype_Standard_85	<input type="checkbox"/>

Logical Definition **Mapping** Definition Notes Extended Notes

Name

There are no items to show.

Close Cancel



File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Datatype Standard 'Datatype_Standard_85' Editor

Name	Is Active
Datatype_Standard_85	<input type="checkbox"/>

Logical Definition Mapping Definition Notes Extended Notes

Name

There are no items to show.

Close Cancel

File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
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 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Datatype Standard 'Datatype_Standard_85' Editor

Name	Is Active
Datatype_Standard_85	<input type="checkbox"/>

Logical Definition Mapping Definition Notes Extended Notes

Name
DSM_Datatype_Mapping_282

Close Cancel Details...

File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

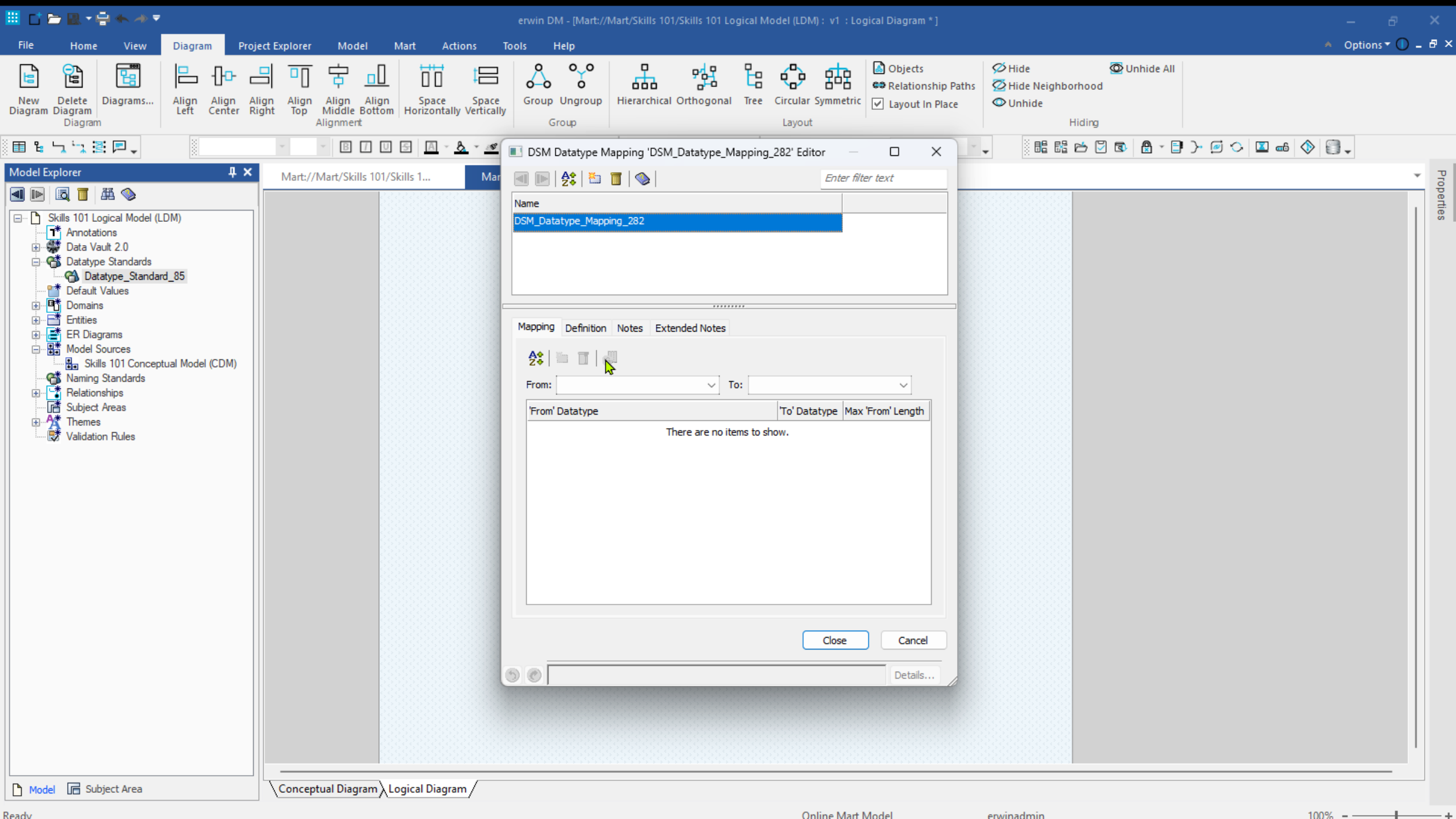
Datatype Standard 'Datatype_Standard_85' Editor

Name	Is Active
Datatype_Standard_85	<input type="checkbox"/>

Logical Definition Mapping Definition Notes Extended Notes

Name
DSM_Datatype_Mapping_282

Close Cancel Details...



DSM Datatype Mapping 'DSM_Datatype_Mapping_282' Editor

Name
DSM_Datatype_Mapping_282

Mapping Definition Notes Extended Notes

From: [] To: []

'From' Datatype	'To' Datatype	Max 'From' Length
There are no items to show.		

Close Cancel

Details...

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Mart://Mart/Skills 101/Skills 1...

Conceptual Diagram Logical Diagram

Properties

File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

DSM Datatype Mapping 'DSM_Datatype_Mapping_282' Editor

Name: DSM_Datatype_Mapping_282

Mapping Definition Notes Extended Notes

From: [Green Box] To: [Dropdown]

'From' Datatype	'To' Datatype	Max 'From' Length
There are no items to show.		

Close Cancel Details...

Mart://Mart/Skills 101/Skills 1...

Conceptual Diagram Logical Diagram

File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

DSM Datatype Mapping 'DSM_Datatype_Mapping_282' Editor

Name: DSM_Datatype_Mapping_282

Mapping Definition Notes Extended Notes

From: Logical To: [Dropdown]

From Datatype: [Empty]

There are no items

- AlloyDB 1.1
- Amazon Keyspaces
- ArangoDB 3.x
- Avro 1.x
- Azure Synapse Fabric Lakehouse
- Azure Synapse SQL Pool
- Cassandra 3.x/4.x
- Couchbase 6.x
- Couchbase 7.x
- Databricks
- Db2 for i 5.x/6.x/7.x
- Db2 for LUW 11.1/11.5
- Db2 for LUW 9.5
- Db2 for LUW 9.7/10.x
- Db2 for z/OS 12/13
- Db2 for z/OS 8.1
- Db2 for z/OS 9.1/10/11
- DynamoDB
- Google BigQuery
- Hive 2.1.x
- Informix 10.x/11.x/12.x
- JSON 1.x
- Logical
- MariaDB 10.4.x
- MongoDB 4.x
- MongoDB 5.x
- MongoDB 6.x/7.x/8.x
- MySQL 8.x
- Neo4j 4.2.x
- Neo4j 4.3.x/4.4.x

File Home View **Diagram** Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

DSM Datatype Mapping 'Logical to Azure Synapse Fabric Lak...'

Name: Logical to Azure Synapse Fabric Lakehouse

Mapping Definition Notes Extended Notes

From: Logical To: Azure Synapse Fabric Lakehouse

'From' Datatype	'To' Datatype	Max 'From' Leng
ARRAY	binary	
AUDIO	binary	MAXIMUM
BINARY	binary	MAXIMUM
BOOLEAN	boolean	
BYTE	byte	
CHAR	char	MAXIMUM
DATE	date	
DATETIME DAY TO DAY	varchar	
DATETIME DAY TO FRACTION	varchar	MAXIMUM

Close Cancel Details...

File Home View **Diagram** Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85**
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Datatype Standard 'Datatype_Standard_85' Editor

Enter filter text

Name	Is Active
Datatype_Standard_85	<input checked="" type="checkbox"/>

Logical Definition Mapping Definition Notes Extended Notes

Name

Logical to Azure Synapse Fabric Lakehouse

Close Cancel Details...

File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart

Enter filter text

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Datatype_Standard_85
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Datatype Standard 'Datatype_Standard_85' Editor

Name	Is Active
Datatype_Standard_85	<input checked="" type="checkbox"/>

Logical Definition Mapping Definition Notes Extended Notes

Name
Logical to Azure Synapse Fabric Lakehouse

Close Cancel Details...



The Physical Model

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Schema... Alter Script... Check Model Forward Engineer Hierarchical View Embedded View

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM) Logical

Model Explorer Skills 101 Logical Model (LDM)

- Annotations
- Data Vault 2.0
- Datatype Standards
- Default Values
- Domains
- Entities
- ER Diagrams
- Model Sources
- Naming Standards
- Relationships
- Subject Areas
- Themes
- Validation Rules



Properties

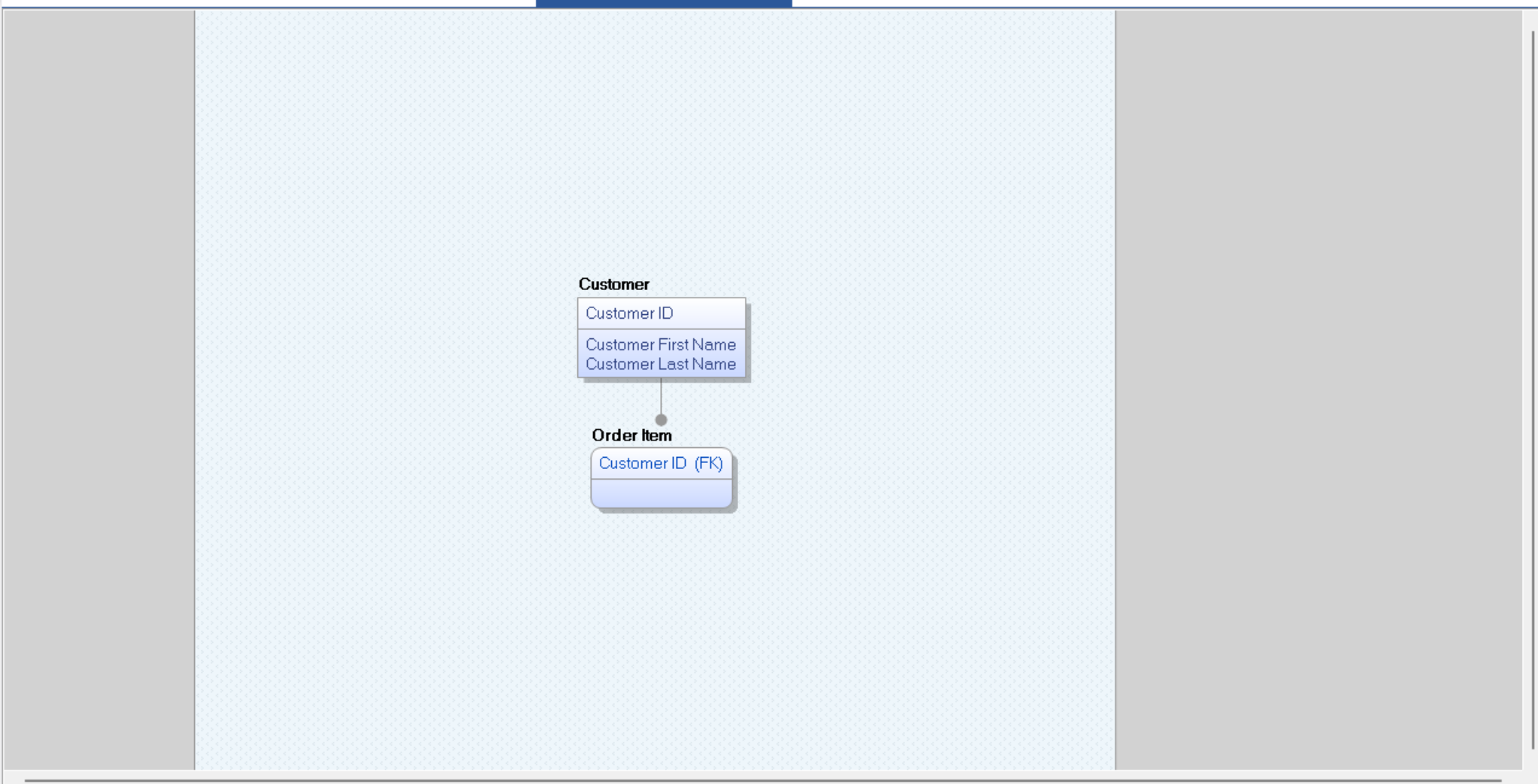
File Home View Diagram Project Explorer Model Mart Actions Tools Help

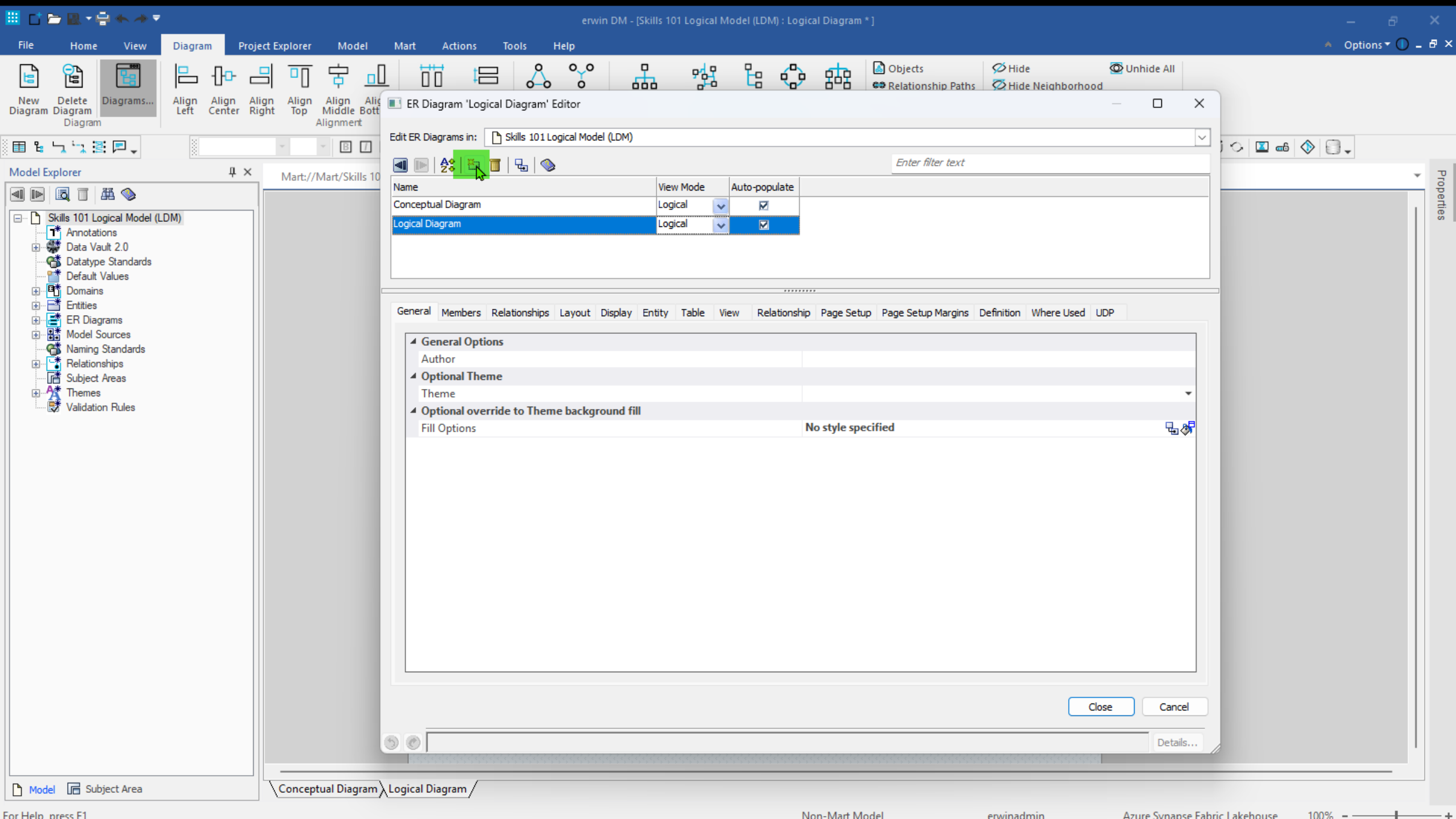
New Diagram Delete Diagram Diagrams Align Left Align Center Align Right Align Top Align Middle Alignment Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

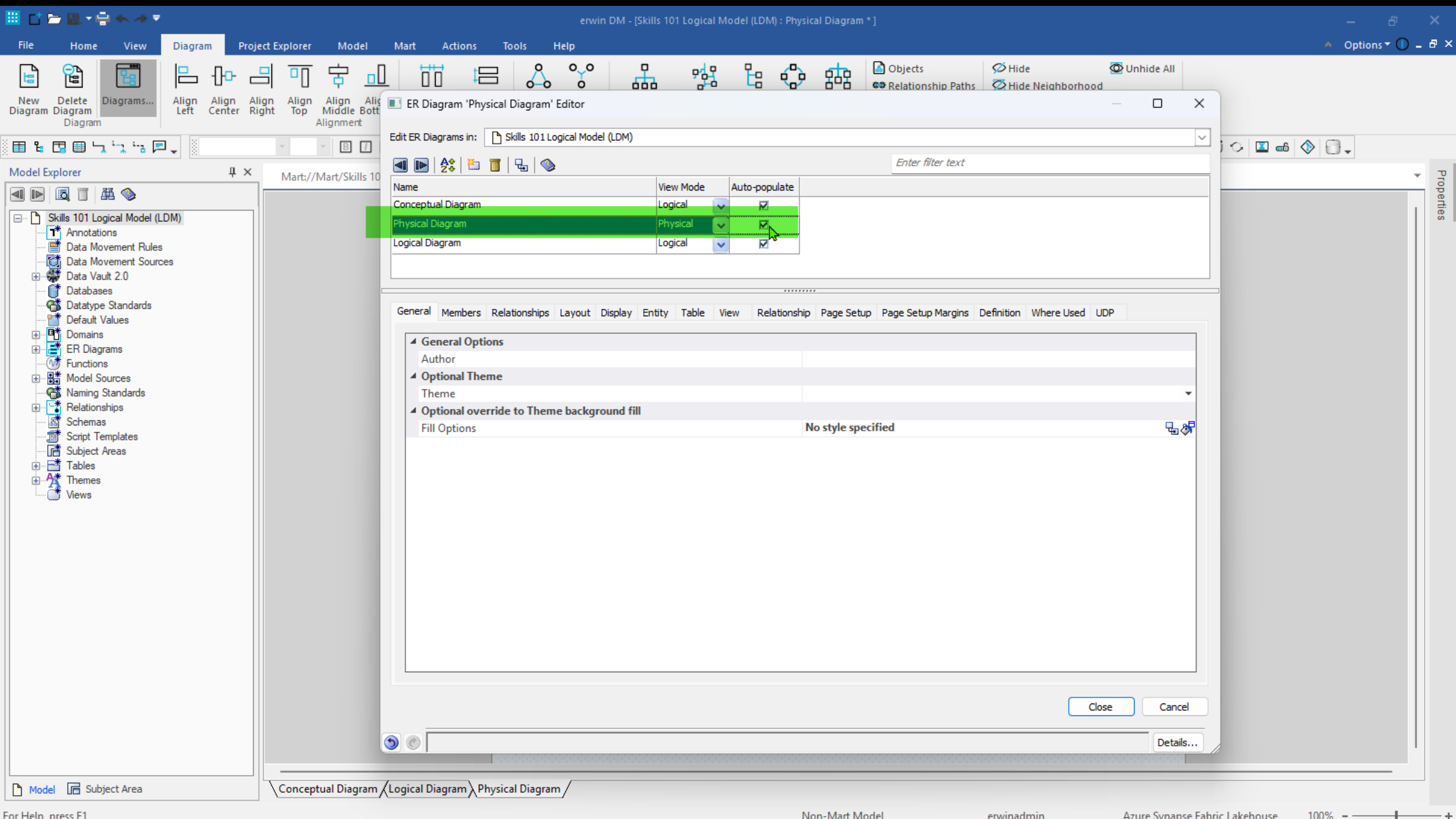
Diagrams... (Ctrl+Shift+M)
Launch the Diagram Editor

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules







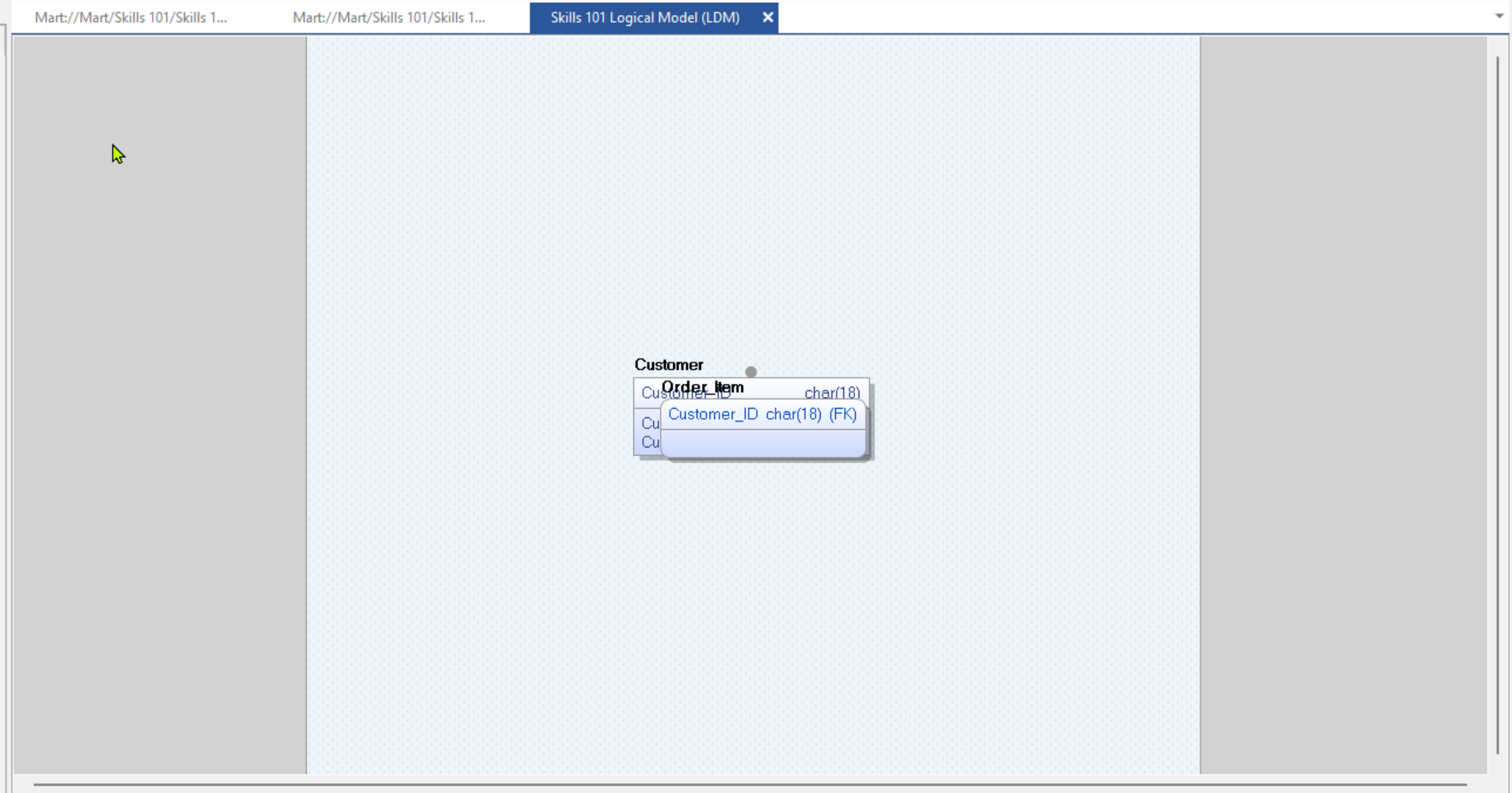
File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Alignment Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

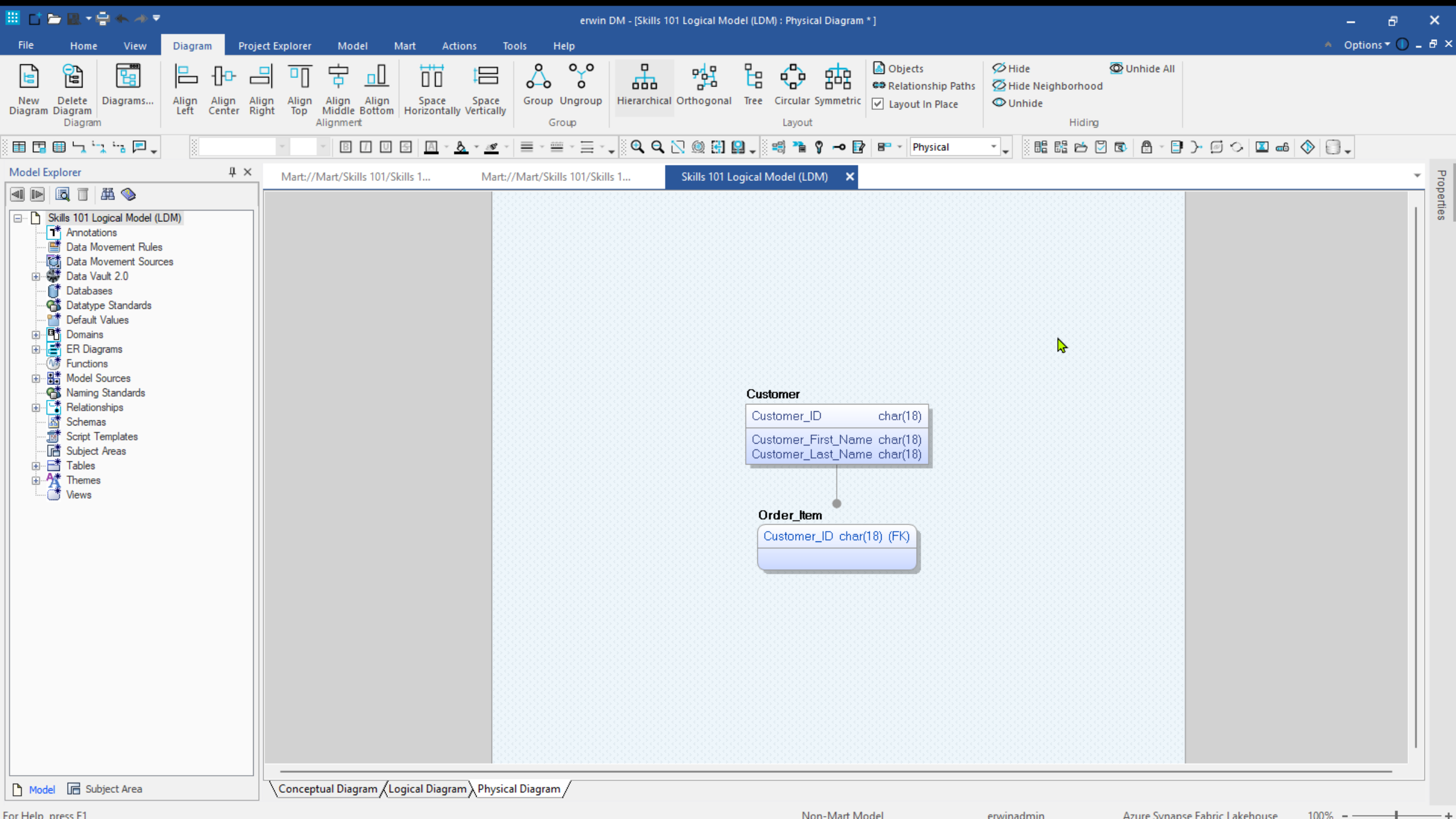
Model Explorer Mart://Mart/Skills 101/Skills 1... Skills 101 Logical Model (LDM) Physical

Model Explorer Skills 101 Logical Model (LDM)

- Annotations
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Databases
- Datatype Standards
- Default Values
- Domains
- ER Diagrams
- Functions
- Model Sources
- Naming Standards
- Relationships
- Schemas
- Script Templates
- Subject Areas
- Tables
- Themes
- Views



Properties



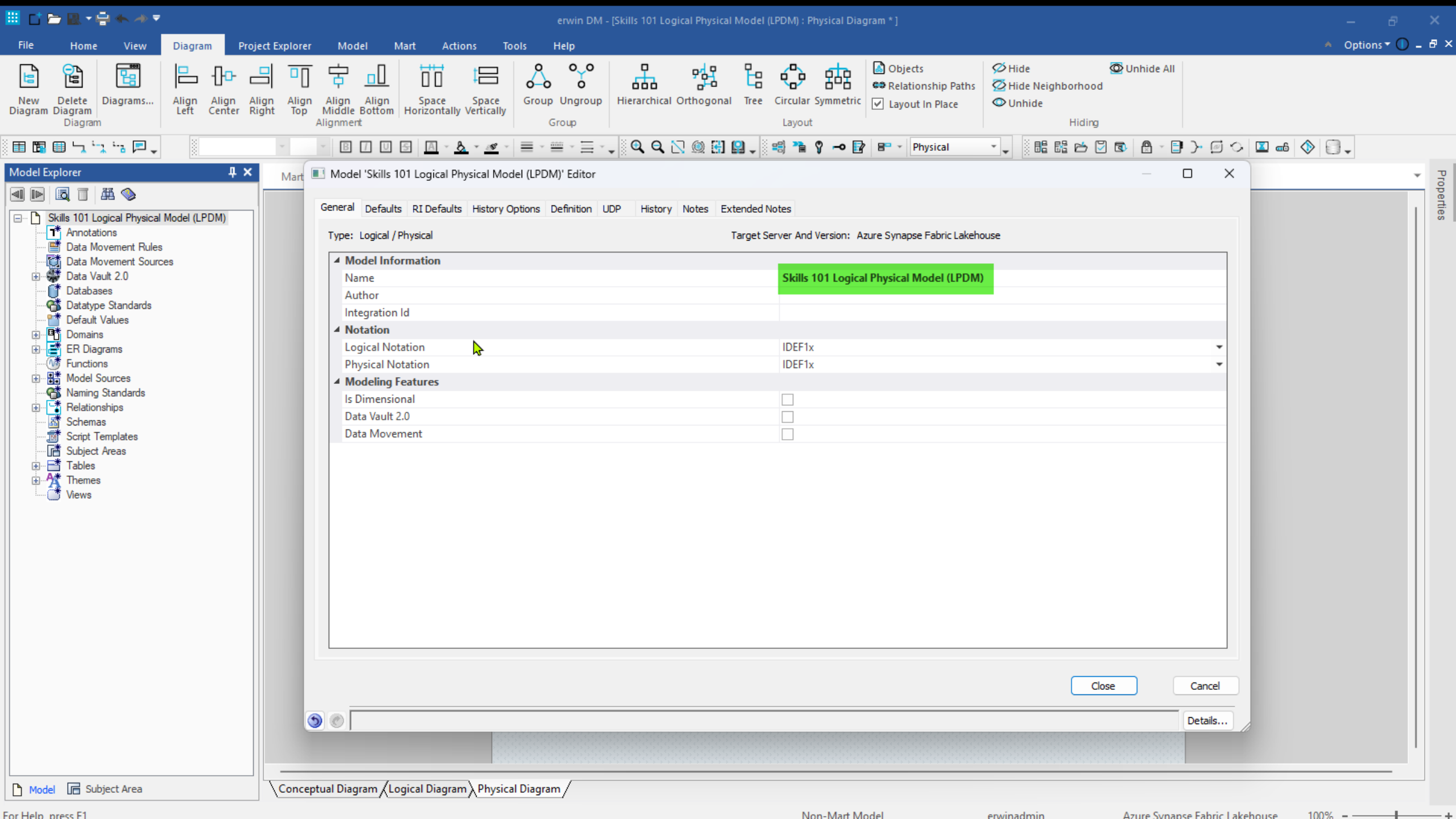


Diagram ribbon tools: New Diagram, Delete Diagram, Diagrams..., Align Left, Align Center, Align Right, Align Top, Align Middle, Align Bottom, Space Horizontally, Space Vertically, Group, Ungroup, Hierarchical, Orthogonal, Tree, Circular, Symmetric, Objects, Relationship Paths, Layout In Place, Hide, Hide Neighborhood, Unhide, Unhide All.

Model Explorer

- Skills 101 Logical Physical Model (LPDM)
 - Annotations
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - Functions
 - Model Sources
 - Naming Standards
 - Relationships
 - Schemas
 - Script Templates
 - Subject Areas
 - Tables
 - Themes
 - Views

Model 'Skills 101 Logical Physical Model (LPDM)' Editor

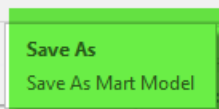
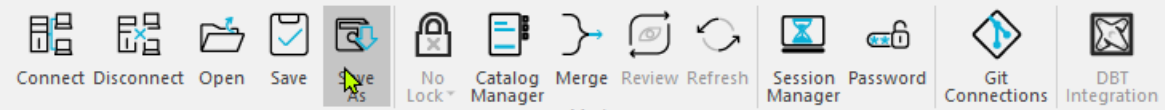
General Defaults RI Defaults History Options Definition UDP History Notes Extended Notes

Type: Logical / Physical Target Server And Version: Azure Synapse Fabric Lakehouse

Model Information	
Name	Skills 101 Logical Physical Model (LPDM)
Author	
Integration Id	
Notation	
Logical Notation	IDEF1x
Physical Notation	IDEF1x
Modeling Features	
Is Dimensional	<input type="checkbox"/>
Data Vault 2.0	<input type="checkbox"/>
Data Movement	<input type="checkbox"/>

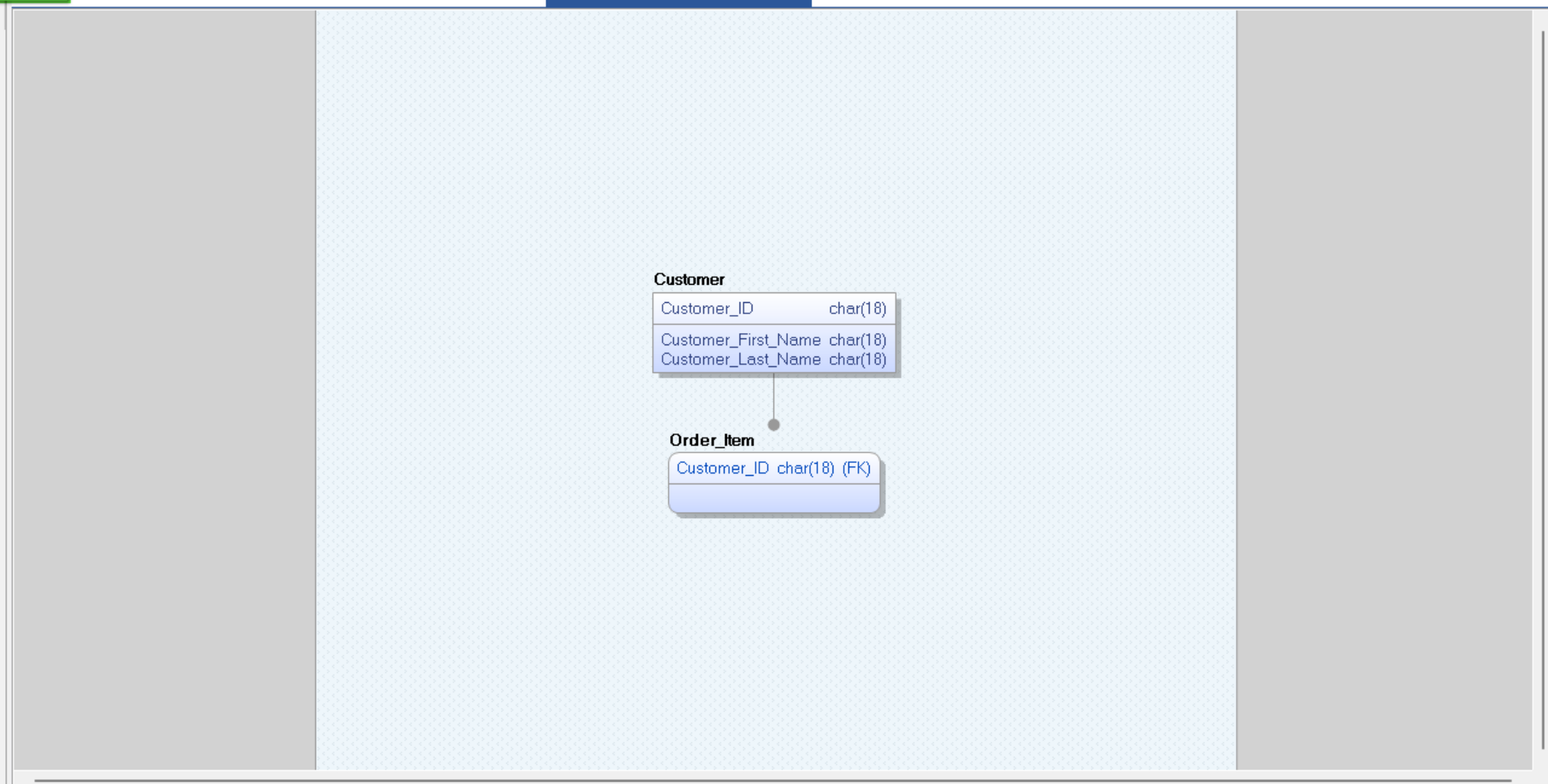
Close Cancel

Details...



Model Explorer

- Skills 101 Logical Physical Model (LPDM)
 - Annotations
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - Functions
 - Model Sources
 - Naming Standards
 - Relationships
 - Schemas
 - Script Templates
 - Subject Areas
 - Tables
 - Themes
 - Views



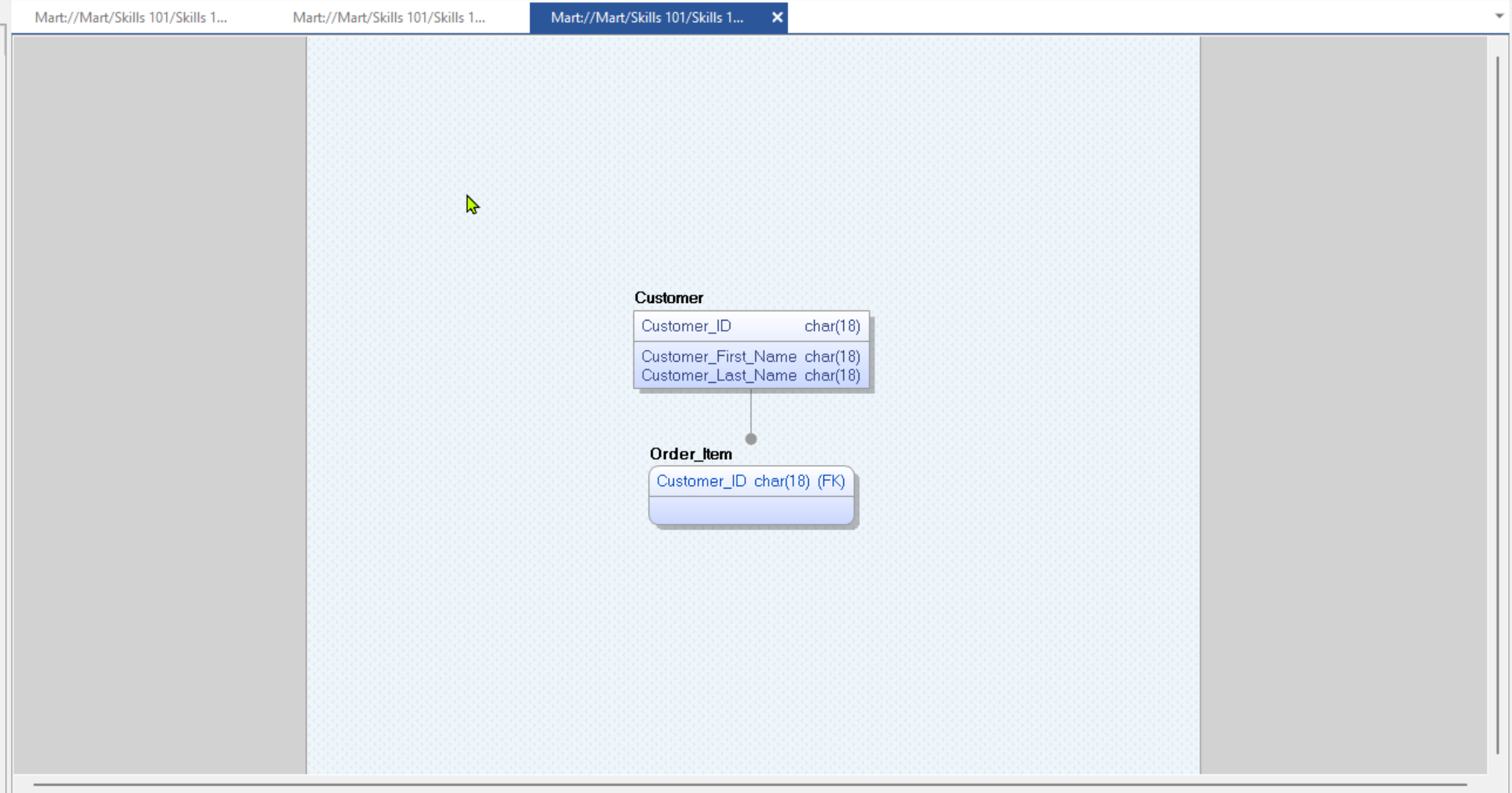
File Home View Diagram Project Explorer Model **Mart** Actions Tools Help

Connect Disconnect Open Save Save As No Lock Catalog Manager Merge Review Refresh Session Manager Password Manager Git Connections DBT Integration

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Physical

Model Explorer

- Skills 101 Logical Physical Model (LPDM)
 - Annotations
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - Functions
 - Model Sources
 - Naming Standards
 - Relationships
 - Schemas
 - Script Templates
 - Subject Areas
 - Tables
 - Themes
 - Views



Properties

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema Alter Script... Forward Engineer Check Model Templates... Hierarchical View Embedded View

Model Explorer Schema Forward Engineer Schema Generation Physical

Model Explorer Skills 101 Logical Physical Model (LPDM)

- Annotations
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Databases
- Datatype Standards
- Default Values
- Domains
- ER Diagrams
- Functions
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- Tables
- Themes
- Views



Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema Alter Script... Forward Engineer Check Model Templates... Hierarchical View Embedded View

Model Explorer Schema Forward Engineer Schema Generation Physical

Model Explorer Skills 101 Logical Physical Model (LPDM)

- Annotations
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- Data Movement Sources
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File Home View Diagram Project Explorer Model Mart **Actions** Tools Help

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema... Alter Script... Model Forward Engineer Hierarchical View Embedded View

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Physical

Model Explorer

- Skills 101 Logical Physical Model (LPDM)
 - Annotations
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Databases
 - Datatype Standards
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 - Domains
 - ER Diagrams
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 - Naming Standards
 - Relationships
 - Schemas
 - Script Templates
 - Subject Areas
 - Tables
 - Themes
 - Views

Forward Engineer Schema Generation Wizard

Schema Generation Overview

This page provides an overview of the Forward Engineer Schema Generation.

- Overview
- Option Selection
- Summary
- Owner Override
- Object Filter
- Preview

Overview

Welcome to the Forward Engineer Wizard. This wizard lets you forward engineer a model.

Forward engineering is the process of generating the physical database schema from a physical model. You use the Schema Generation wizard to forward engineer a model and generate the schema. The schema that you generate includes all options that are supported in your target server. You can customize the generated schema for your target server using features in the Schema Generation wizard.

The **Option Selection** page lets you customize the Schema Generation option set and the database template.

The **Summary** page lets you review the selected Schema Generation options in a hierarchical tree structure. The page also lets you enter a comment for the current Schema Generation option set.

The **Owner Override** page lets you enter the owner override name of an object group. The object group and name you indicate override the owner name assignment for that object group in the model.

The **Object Filter** page lets you select a subset of the objects in a model for forward engineering.

The **Preview** page lets you preview the schema DDL script generated for the current model.

< Back Next > Generate OK Cancel Help

File Home View Diagram Project Explorer Model Mart Actions Tools Help

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema... Alter Script... Model Forward Engineer Hierarchical View Embedded View

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Physical

Model Explorer Skills 101 Logical Physical Model (LPDM)

- Annotations
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Databases
- Datatype Standards
- Default Values
- Domains
- ER Diagrams
- Functions
- Model Sources
- Naming Standards
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- Script Templates
- Subject Areas
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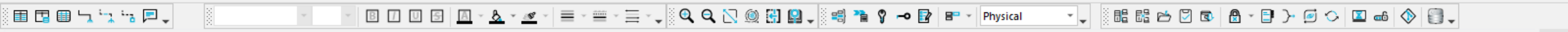
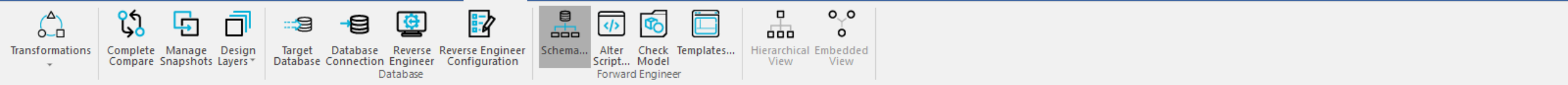
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< Back Next > Generate OK Cancel Help



Model Explorer

- Skills 101 Logical Physical Model (LPDM)
 - Annotations
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - Functions
 - Model Sources
 - Naming Standards
 - Relationships
 - Schemas
 - Script Templates
 - Subject Areas
 - Tables
 - Themes
 - Views

Mart://Mart/Skills 101/Skills 101... Mart://Mart/Skills 101/Skills 101... Mart://Mart/Skills 101/Skills 101... x

Forward Engineer Schema Generation Wizard

Schema Generation Preview
This page provides a preview of the Forward Engineer Schema Generation.

- Overview
- Option Selection
- Summary
- Owner Override
- Object Filter
- Preview**

```
1 CREATE TABLE Customer
2 (
3     Customer_ID char(18),
4     Customer_First_Name char(18),
5     Customer_Last_Name char(18)
6 );
7
8 CREATE TABLE Order_Item
9 (
10     Customer_ID char(18)
11 );
12
13
```

< Back Next > **Generate** OK Cancel Help

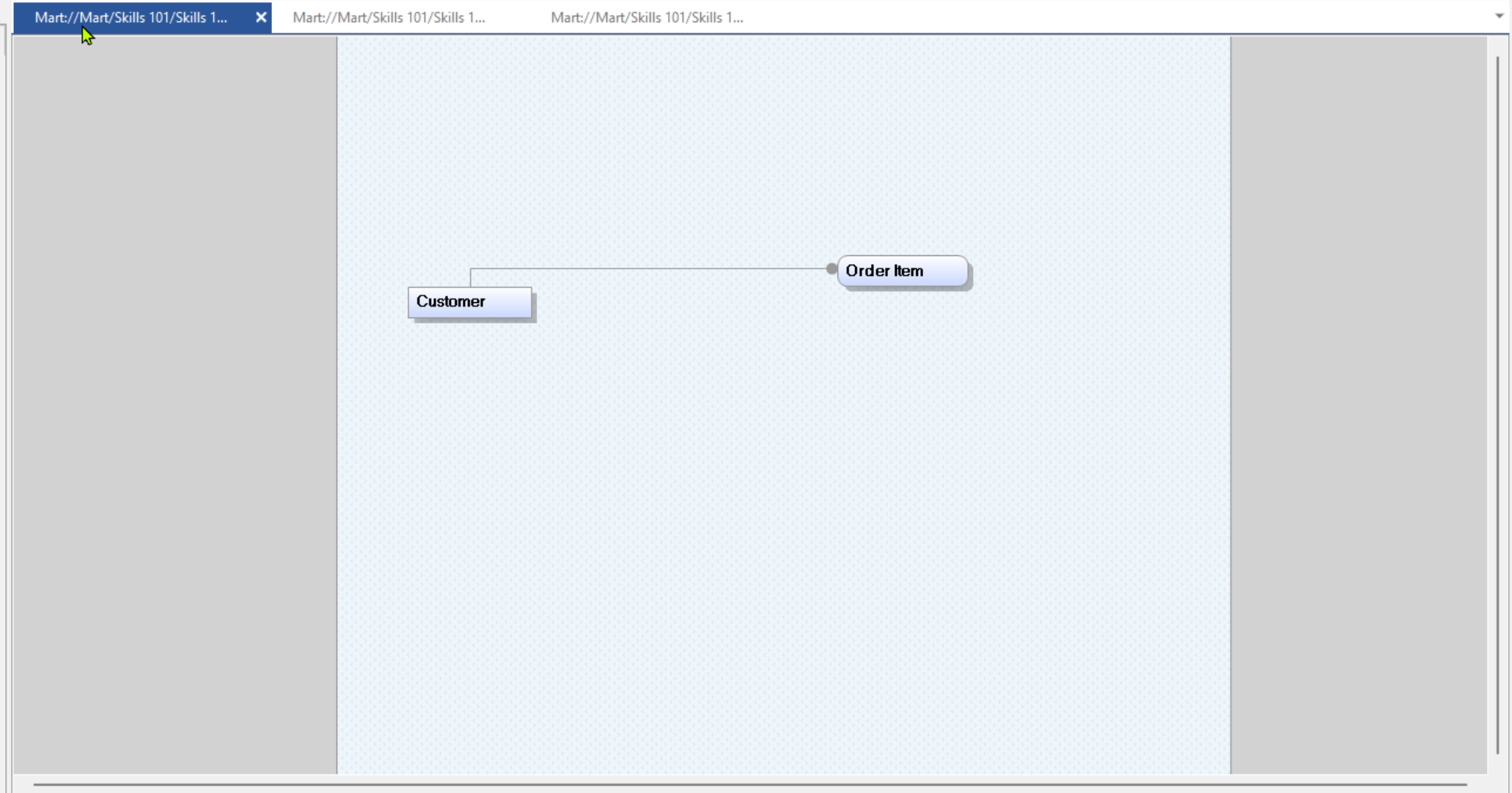
File Home View Diagram Project Explorer Model Mart **Actions** Tools Help

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema... Alter Script... Model Forward Engineer Hierarchical View Embedded View

Model Explorer Mart://Mart/Skills 101/Skills 1... Conceptual

Model Explorer

- Skills 101 Conceptual Model (CDM)
 - Annotations
 - Entities
 - ER Diagrams
 - Relationships
 - Subject Areas
 - Themes

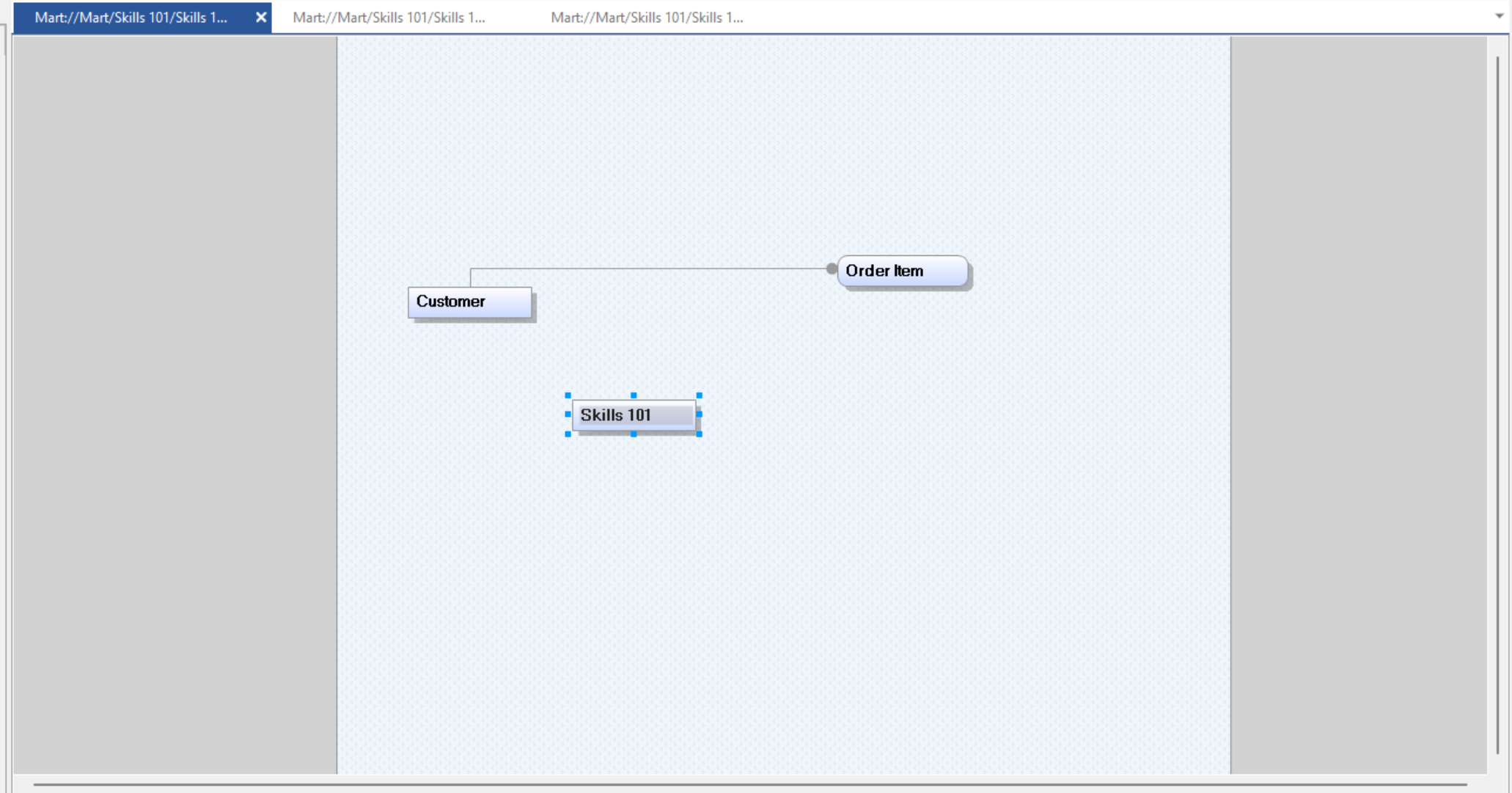


Properties

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema... Alter Script... Model Forward Engineer Check Model Templates... Hierarchical View Embedded View

Microsoft Sans 10 B T U S A Properties Conceptual

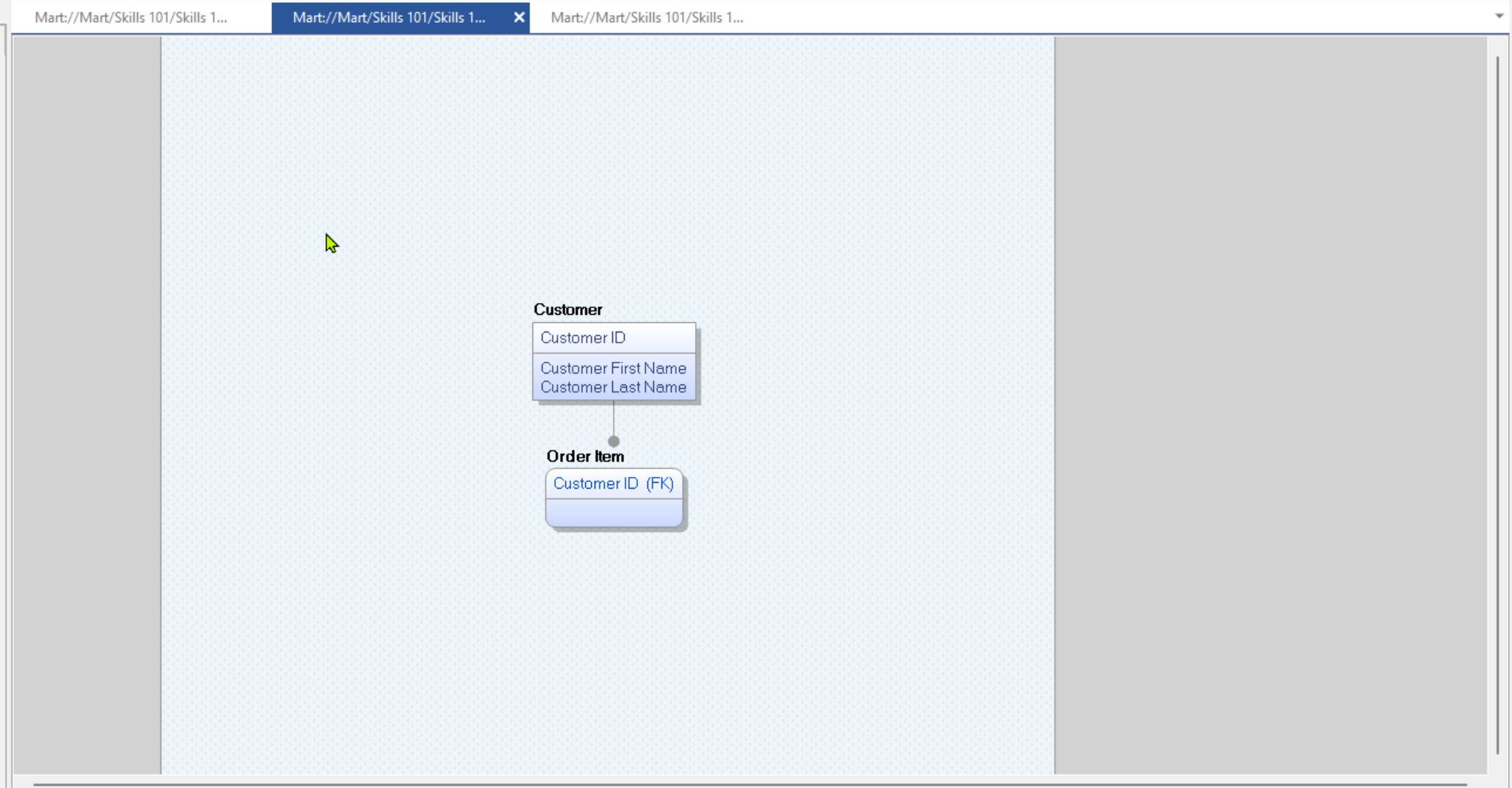
Model Explorer Skills 101 Conceptual Model (CDM) Annotations Entities ER Diagrams Relationships Subject Areas Themes



Properties

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules



Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Model Sources Properties

Source: Skills 101 Conceptual Model (CDM) [New]

Name: Skills 101 Conceptual Model (CDM) [Delete]

General Definition Where Used UDP Name Mapping Options

Source Model

Mart Model
 erwin File

Model:
Mart://Mart/Skills 101/Skills 101 Conceptual Model (CDM) [...]

Synchronization

Last Synced: 4/20/2026 15:04:36 [Sync...]

[Close] [Cancel]

[Details...]

Properties

Conceptual Diagram Logical Diagram

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
 - Default Values
 - Domains
 - Entities
 - ER Diagrams
 - Model Sources
 - Skills 101 Conceptual Model (CDM)
 - Naming Standards
 - Relationships
 - Subject Areas
 - Themes
 - Validation Rules

Mart://Mart/Skills 101/Skills 101... Source: Skills 101 Conceptual Model (CDM) New

Sync with Model Source Compare Level: Unknown

Please Select a model source to Sync with

Model Source	Location
Skills 101 Conceptual Model (CDM)	Mart://Mart/Skills 101/Skills 101 Conceptual Model (CDM)

[Overview](#)
[Current Model](#)
Model Sources
[Type Selection](#)
[Current Object Selection](#)
[Source Object Selection](#)
[Options](#)

Set selected model source as readonly

Load Session... Save Session... < Back Next > Sync Close Help

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
 - Datatype Standards
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 - Domains
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 - Model Sources
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 - Relationships
 - Subject Areas
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Model Sources Properties

Source: Skills 101 Conceptual Model (CDM) New

Sync with Model Source

Model Sources Compare Level: Unknown

Please Select a model source to Sync with

Model Source	Location
Skills 101 Conceptual Model (CDM)	Mart://Mart/Skills 101/Skills 101 Conceptual Model (CDM)

[Overview](#)
[Current Model](#)

Model Sources

[Type Selection](#)
[Current Object Selection](#)
[Source Object Selection](#)
[Options](#)

Set selected model source as readonly

Load Session... Save Session... < Back Next > Sync Close Help

File Home View Diagram Project Explorer Model Mart **Actions** Tools Help

Transformations Complete Compare Manage Snapshots Design Layers* Target Database Database Connection Reverse Engineer Database Reverse Engineer Configuration Schema... Alter Script... Model Forward Engineer Hierarchical View Embedded View

Model Explorer

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Mart://Mart/Skills 101/Skills 1...

Model Sources Properties

Source: Skills 101 Conceptual Model (CDM) [New]

Name: Skills 101 Conceptual Model (CDM) [Delete]

General Definition Where Used UDP Name Mapping Options

Source Model

Mart Model
 erwin File

Model:
Mart://Mart/Skills 101/Skills 101 Conceptual Model (CDM) [...]

Synchronization

Last Synced: 4/20/2026 16:07:47 [Sync...]

[Close] [Cancel] [Details...]

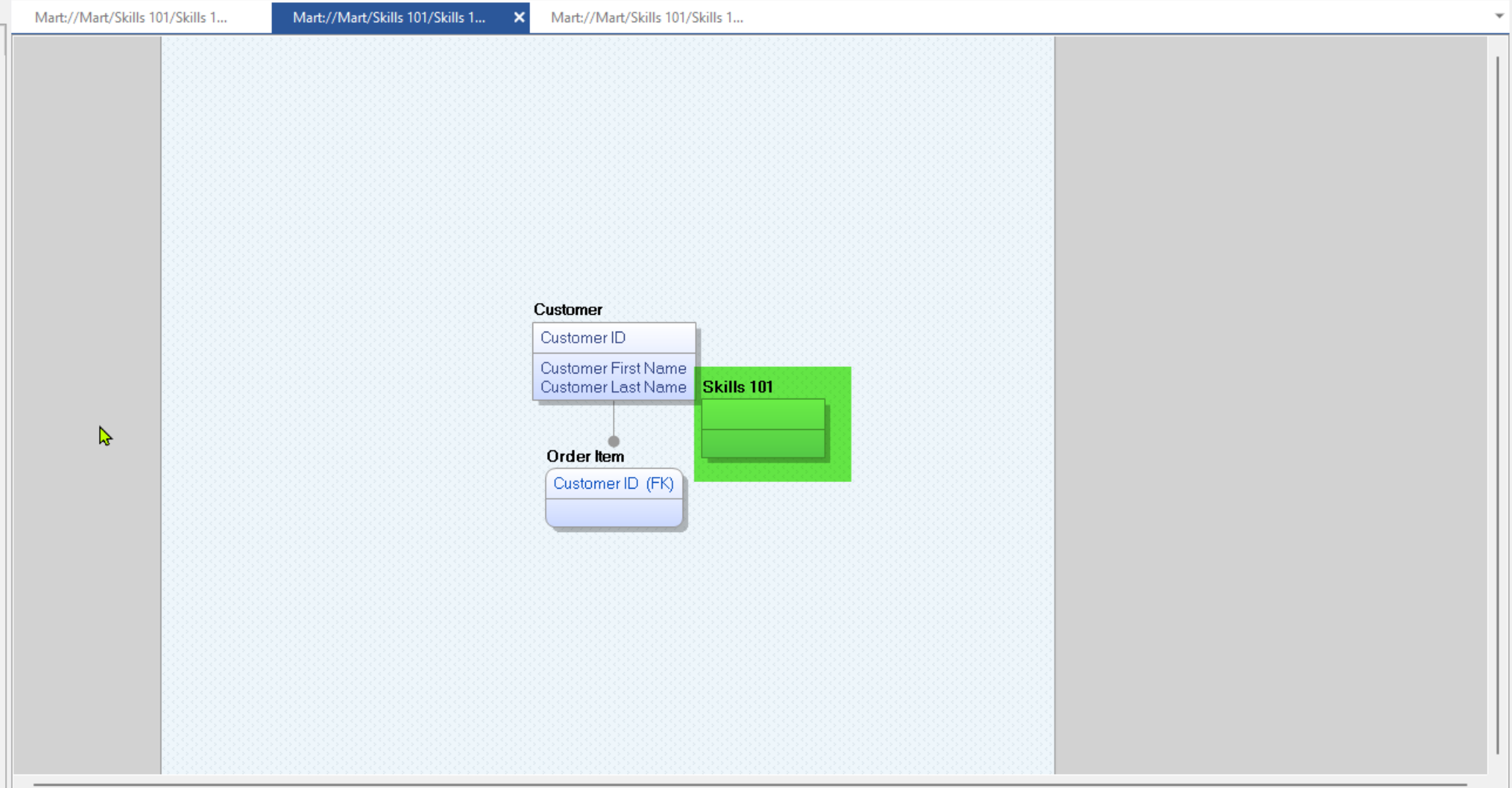
File Home View Diagram Project Explorer Model Mart **Actions** Tools Help

Transformations Complete Compare Manage Snapshots Design Layers Target Database Database Connection Reverse Engineer Database Schema... Alter Script... Model Forward Engineer Hierarchical View Embedded View

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Logical

Model Explorer

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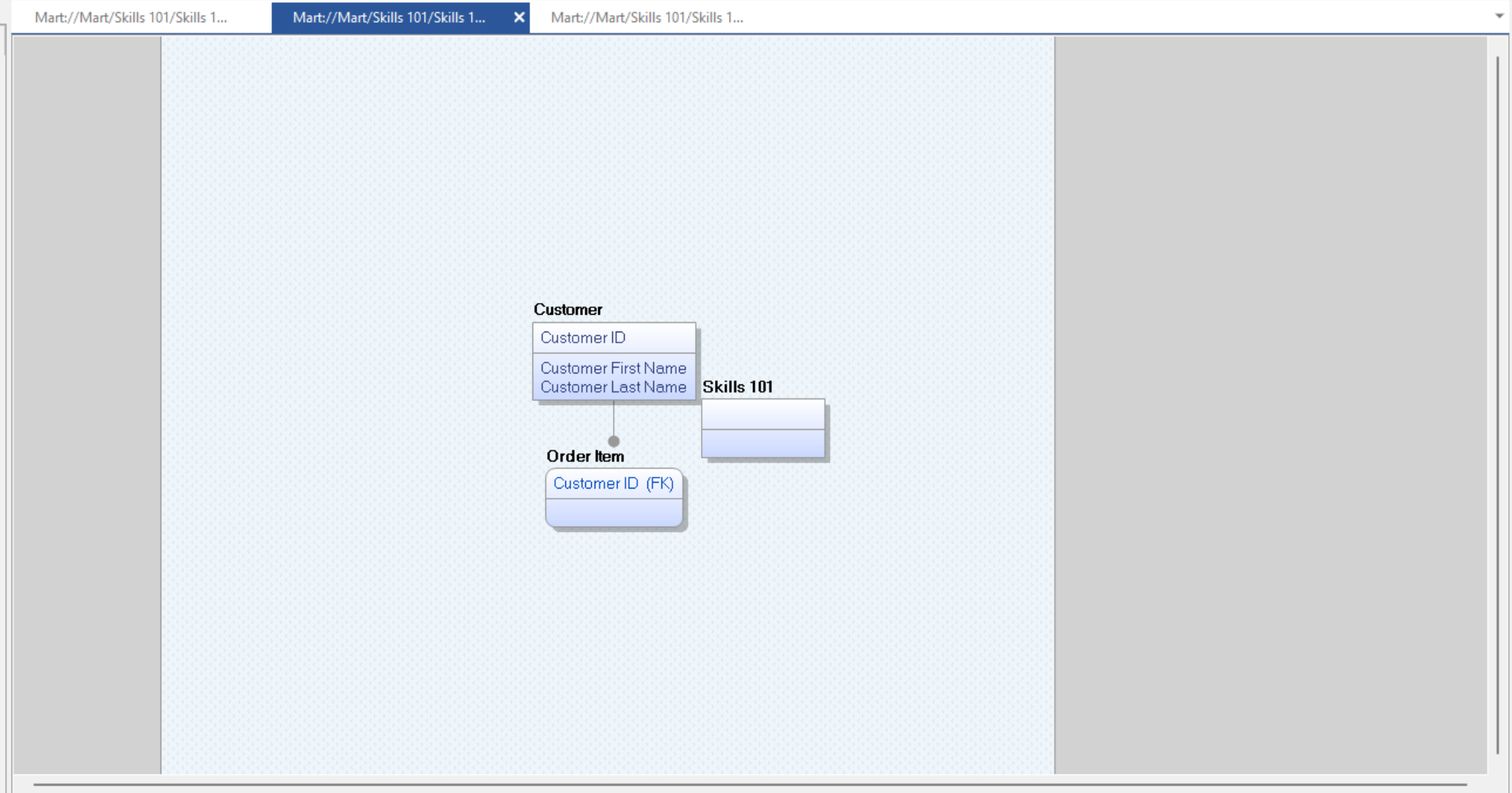
File Home View **Diagram** Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout In Place Hide Hide Neighborhood Unhide All

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Logical

Model Explorer

- Skills 101 Logical Model (LDM)
 - Annotations
 - Data Vault 2.0
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 - Validation Rules



Properties

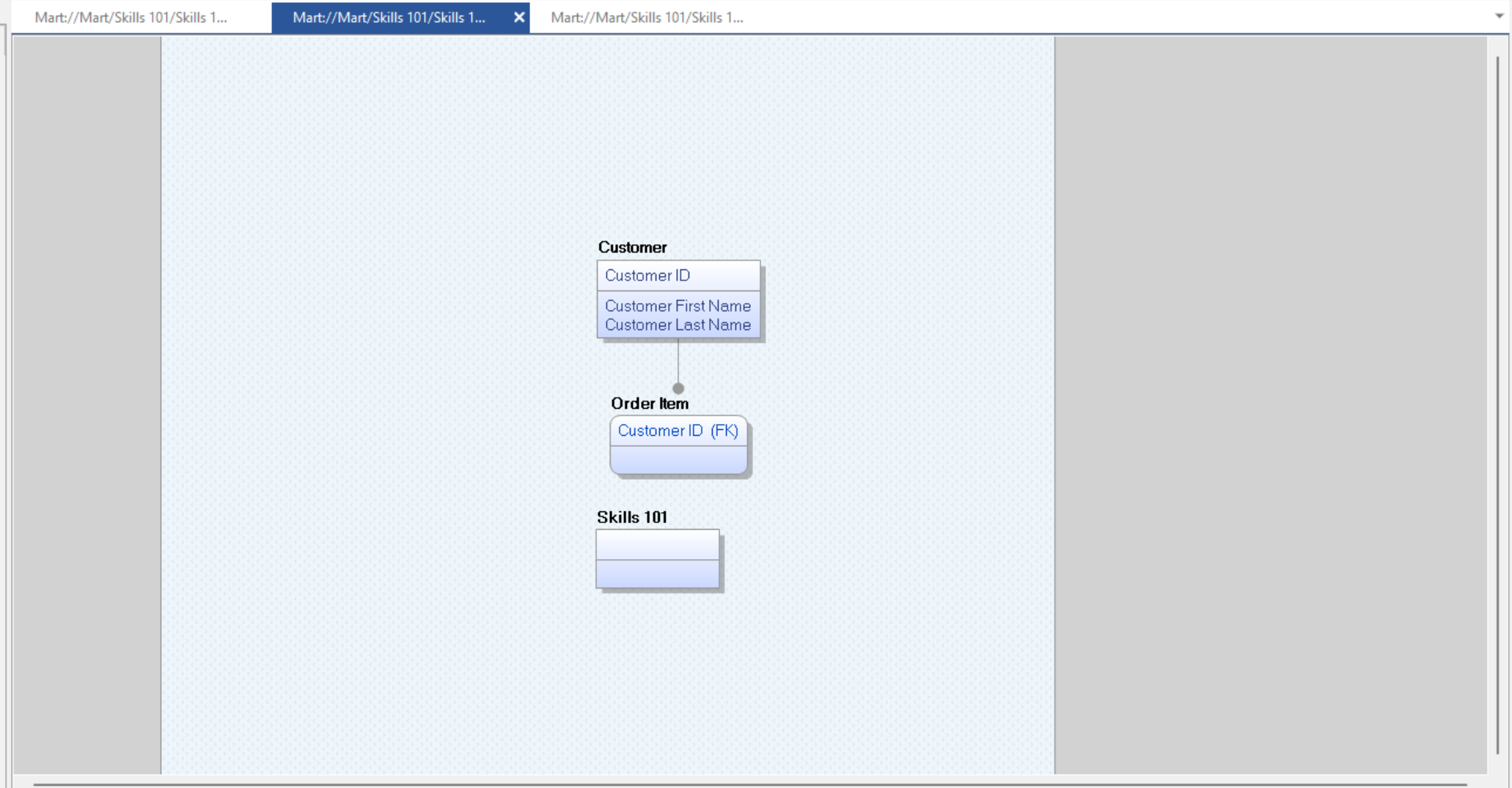
File Home View Diagram Project Explorer Model Mart Actions Tools Help

New Diagram Delete Diagram Diagrams... Align Left Align Center Align Right Align Top Align Middle Align Bottom Space Horizontally Space Vertically Group Ungroup Hierarchical Orthogonal Tree Circular Symmetric Objects Relationship Paths Layout Hiding Hide Hide Neighborhood Unhide All

Model Explorer Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Mart://Mart/Skills 101/Skills 1... Logical

Model Explorer

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 - Validation Rules



erwin DM Design Layer Architecture

Conceptual Data Model
(CDM)

Logical Data Model (LDM)



Google
Big Query



amazon
REDSHIFT

CDM

LDM

Physical Data Model (PDM)

Forward Engineer DDL, SQL, DBT

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Reverse Engineer MS SQL Server via ODBC/JDBC, DDL, SQL

LDM

Physical Data Model (PDM)



Create Logical Data Model based on existing SQL Server structure

Logical Data Model (LDM)

CDM

LDM

Physical Data Model (LPDM)



Forward Engineer DDL, SQL, DBT to New Targets

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Active Model Templates

Conceptual Data Model
(CDM)

Logical Data Model (LDM)



Logical_Physical Data Model (LPDM)

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[Data Types and Data Type Standards](#)

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May 27th @11:00am ET

