

Skills 101: erwin

Mastering the DM Client



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Getting Started

erwin Data Modeler Licensing

DM 15.1 Licensing

☒ License Key ☐ Account Based

License Code:

Edition:

☐ Offline Activation

☐ Long-Term Check-Out Expiry Date :

Network

General Proxy LAN

☐ Use Proxy

☐ Use LAN Daemon

☐ Enter LAN Daemon Long-Term Check-Out License Code

Customer Information

Email:

Company:

Customer ID:

☐ Do not show this dialog again.

Help OK Cancel

erwin Data Modeler Licensing

DM 15.1 Licensing

☒ License Key ☐ Account Based

License Code: *****

Edition:

☐ Offline Activation

☐ Long-Term Check-Out Expiry Date : 12/15/2025

Network

General Proxy LAN

☐ Use Proxy

☐ Use LAN Daemon

☐ Enter LAN Daemon Long-Term Check-Out License Code

Customer Information

Email: andy.mcGovern@quest.com

Company:

Customer ID:

☐ Do not show this dialog again.

Help OK Cancel

FILE ACTIONS



Create Model

Create a new model



Open Model

Open an existing model



Create erwin Project

Create a new erwin project



Open erwin Project

Open an existing erwin project

RECENT FILES



Mart://Mart/Snowflake Sample Data Schema DELETEME1203 : v

Mart://Mart/Snowflake Sample Data Schema DELETEME1203 : v0



Mart://Mart/Snowflake Sample Data Schema DEMO : v0

Mart://Mart/Snowflake Sample Data Schema DEMO : v0



Mart://Mart/Snowflake Sample Data Schema DELETEME : v0

Mart://Mart/Snowflake Sample Data Schema DELETEME : v0



Mart://Mart/Demonstration Models/Publication System DM to DI

Mart://Mart/Demonstration Models/Publication System DM to DI : v0



Mart://Mart/Oracle AI World 2025/Oracle 21c- Contoso Retail DW

Mart://Mart/Oracle AI World 2025/Oracle 21c- Contoso Retail DW : v0

MODEL ACTIONS



Complete Compare

Invoke Complete Compare



Reverse Engineer

Reverse Engineer from a SQL Script or Database

TOOLS



Import

Import from External Format



erwin DM Scheduler

Invoke erwin DM Scheduler



Options

Launch the Options Dialog

MART



Connect

Launch Connect to Mart Dialog

REFERENCE



Help Topics

List Help Topics



What's New

Display What's New Help Topic



Understanding Your Support

Understanding Your Support



Technical Support

Technical Support



RECENT FILES

**Mart://Mart/Snowflake Sample Data Schema DELETEME1203 : v**

Mart://Mart/Snowflake Sample Data Schema DELETEME1203 : v0

**Mart://Mart/Snowflake Sample Data Schema DEMO : v0**

Mart://Mart/Snowflake Sample Data Schema DEMO : v0

**Mart://Mart/Snowflake Sample Data Schema DELETEME : v0**

Mart://Mart/Snowflake Sample Data Schema DELETEME : v0

**Mart://Mart/Demonstration Models/Publication System DM to DI**

Mart://Mart/Demonstration Models/Publication System DM to DI : v0

**Mart://Mart/Oracle AI World 2025/Oracle 21c- Contoso Retail DW**

Mart://Mart/Oracle AI World 2025/Oracle 21c- Contoso Retail DW : v0

TOOLS

**Import**

Import from External Format

**erwin DM Scheduler**

Invoke erwin DM Scheduler

**Options**

Launch the Options Dialog

REFERENCE

**Help Topics**

List Help Topics

**What's New**

Display What's New Help Topic

**Understanding Your Support**

Understanding Your Support

**Technical Support**

Technical Support

What's New?

**AI-Powered Data Modeling**

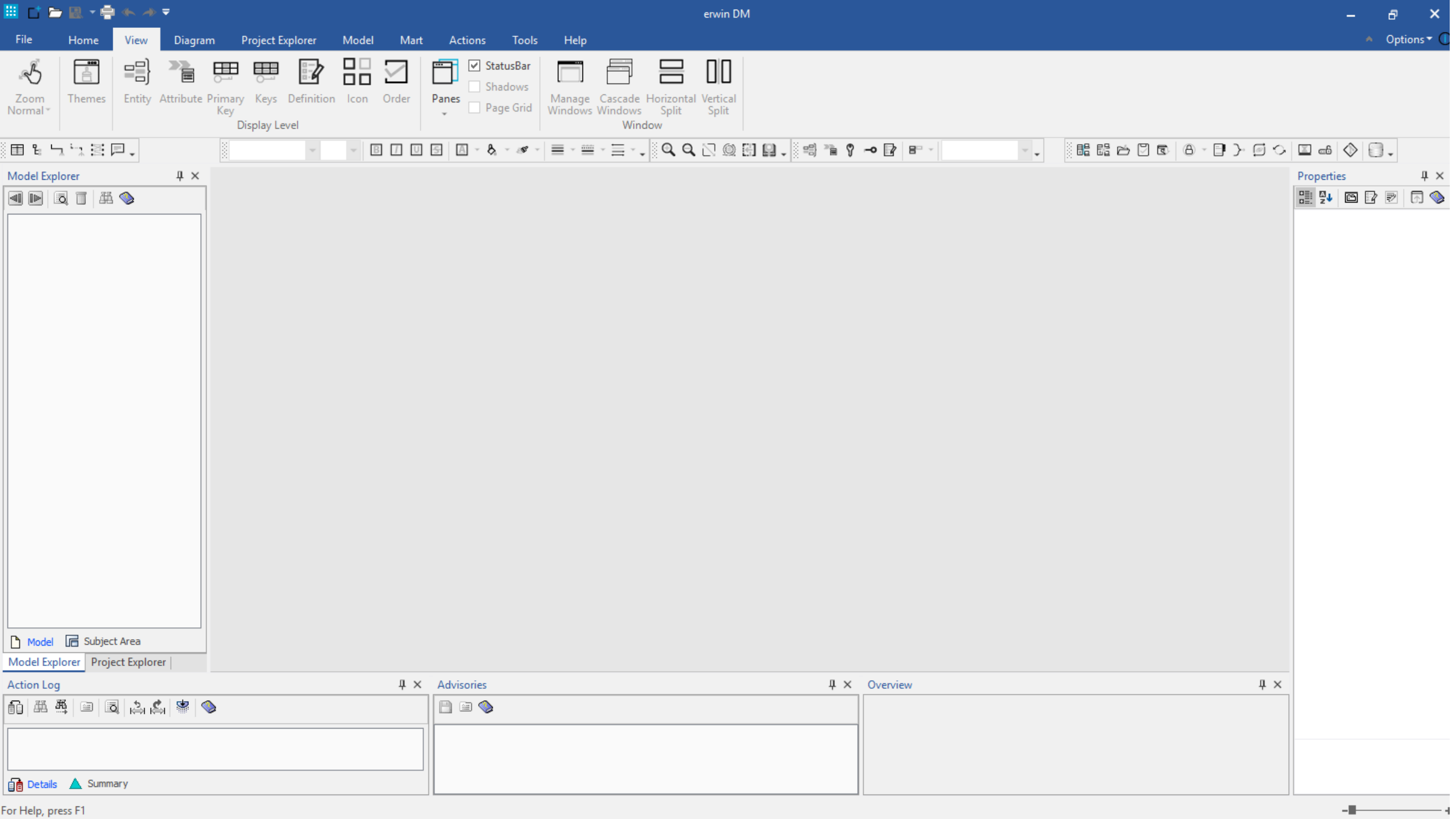
erwin Data Modeler 15.1 offers AI-powered data modeling with:

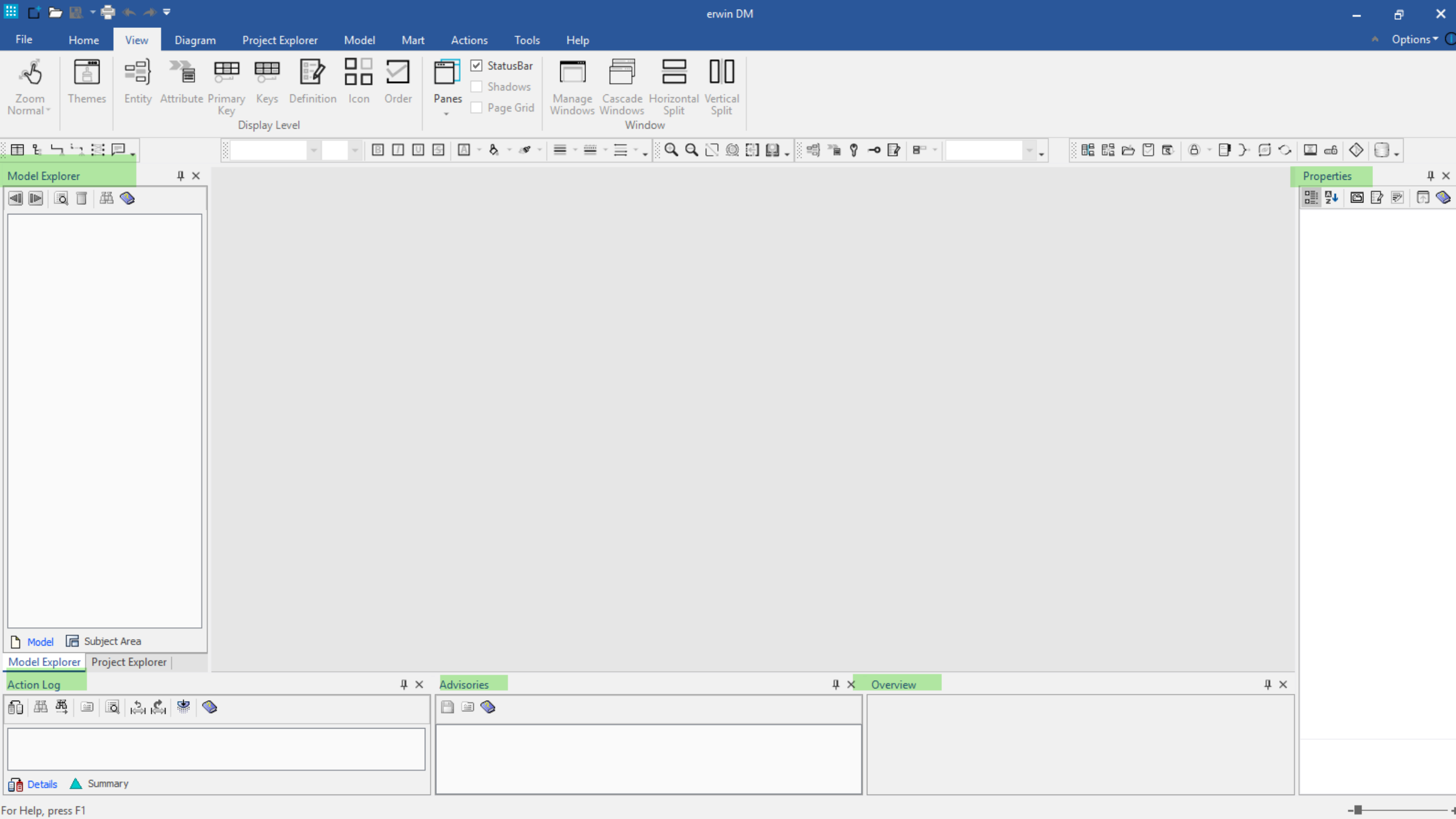
1. AI-assisted model check, where you can use AI to scan your DDL scripts for verification.
2. AI-assisted DDL and model generation, where you can use erwin's pre-trained AI models to generate ready-to-use DDL scripts for data models.

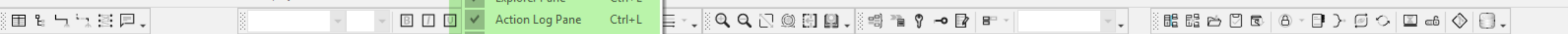
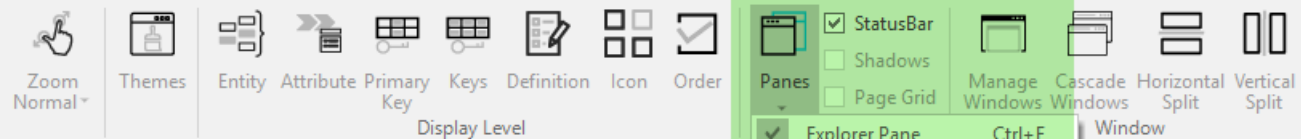
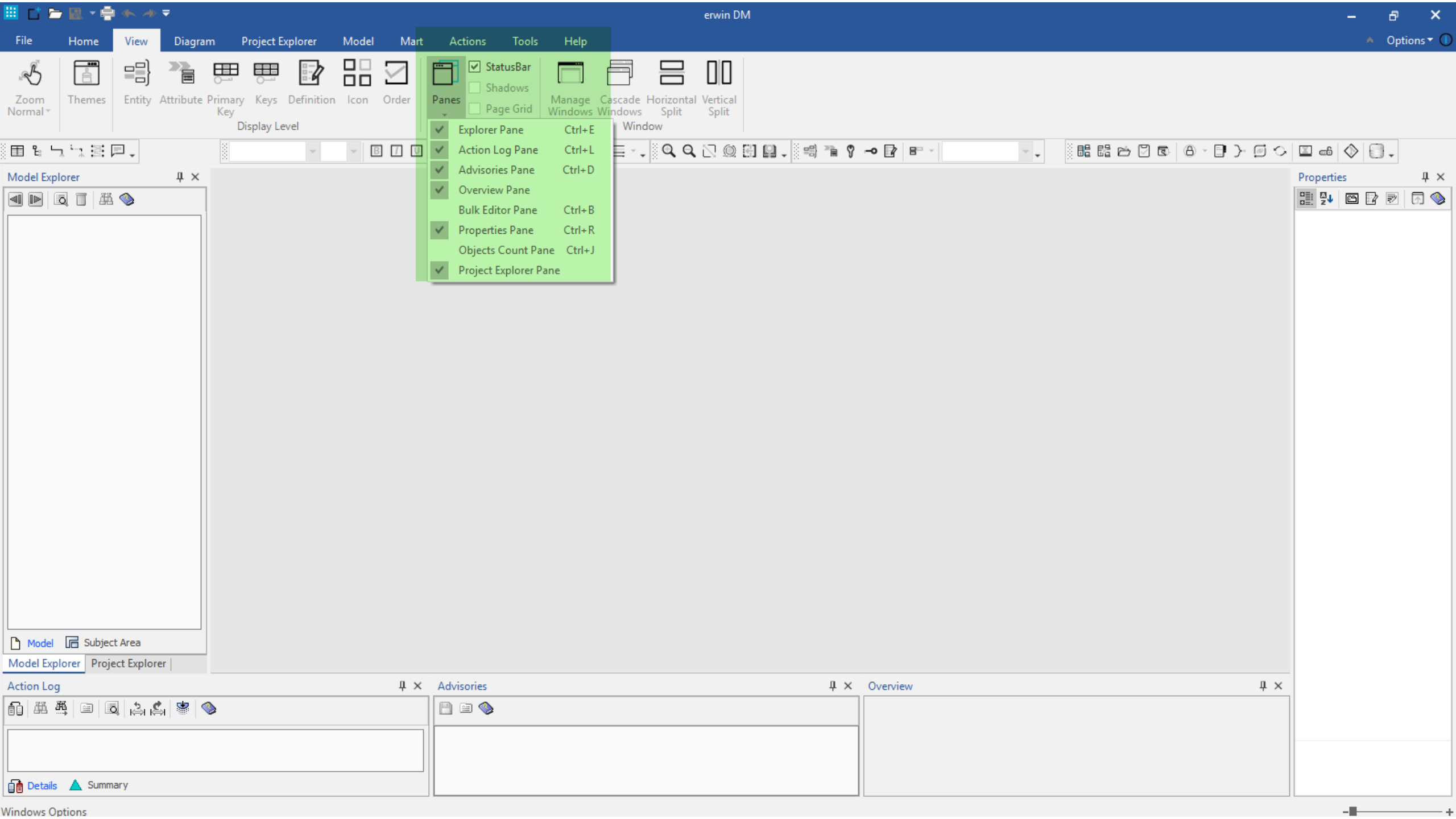
☒ Do not show this dialog again



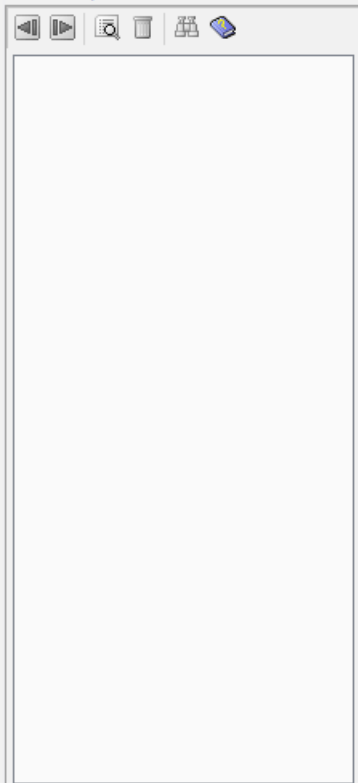
Panes/Widgets







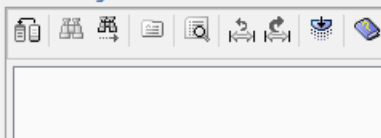
Model Explorer



Model Subject Area

Model Explorer Project Explorer

Action Log

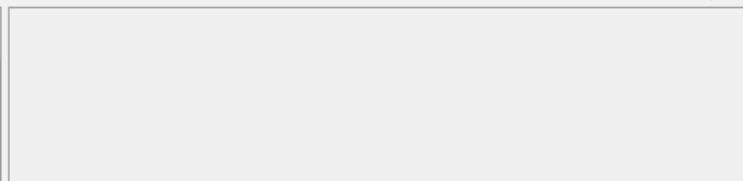


Details Summary

Advisories

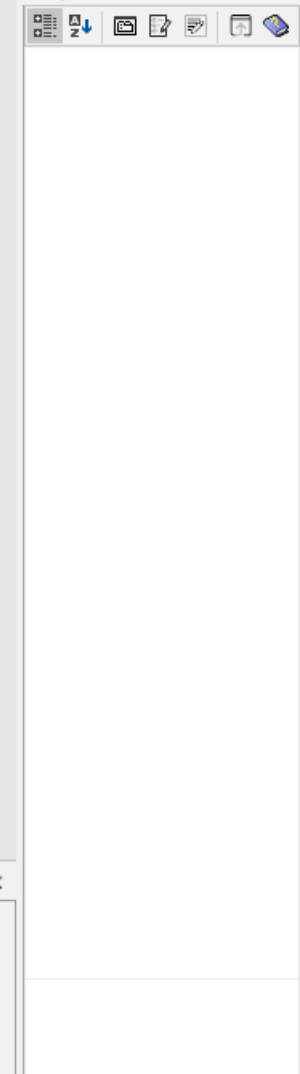


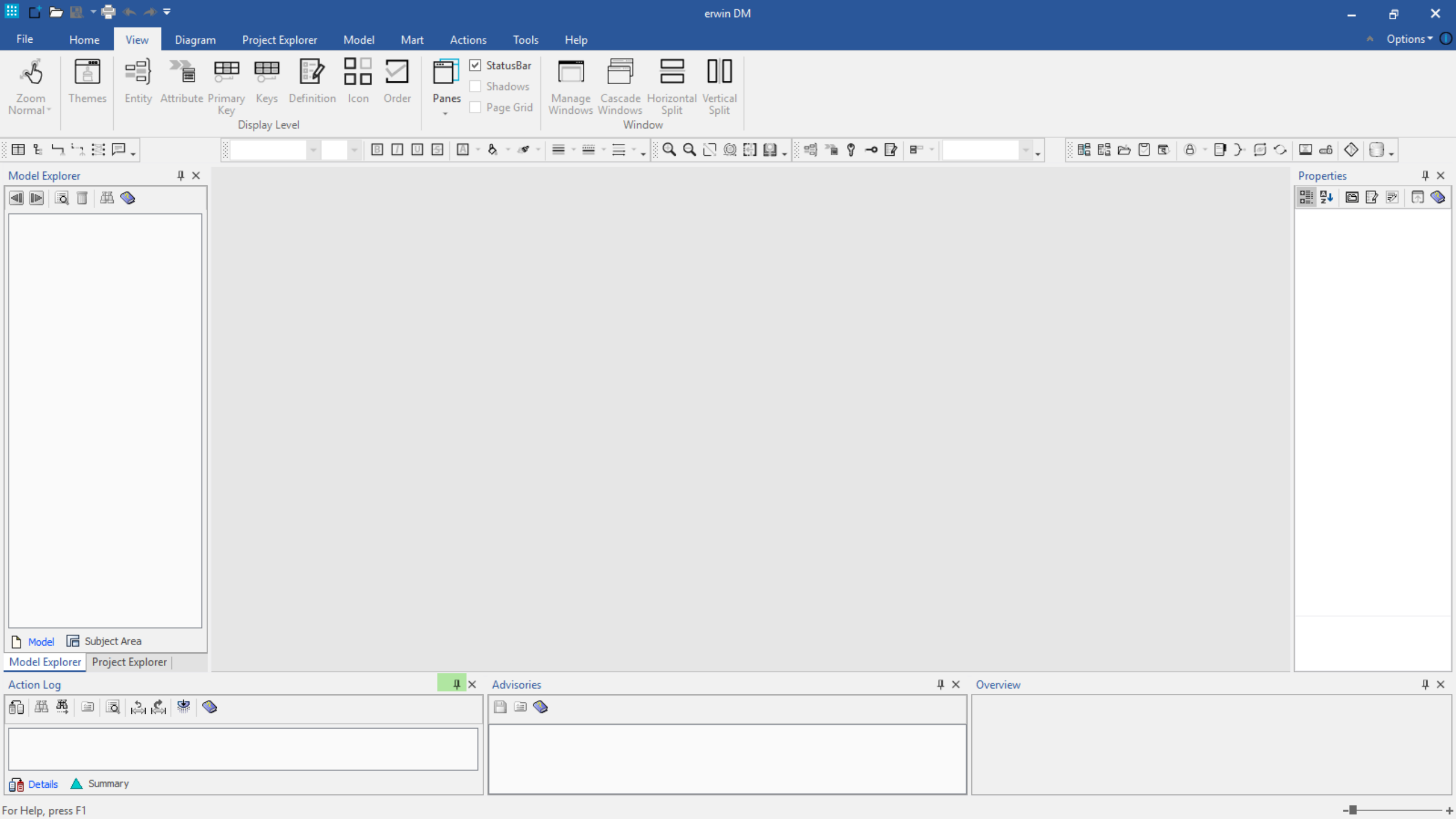
Overview

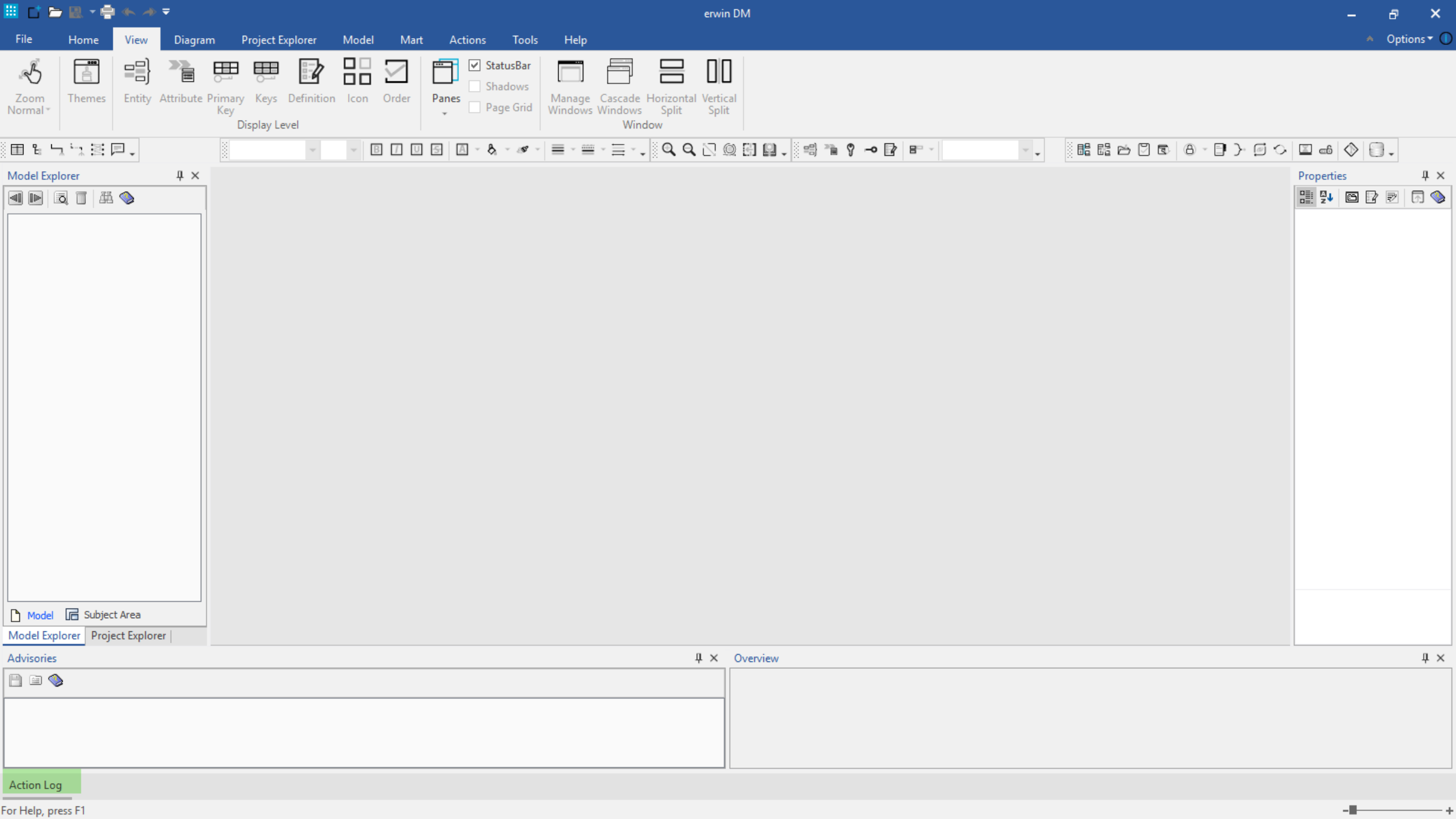


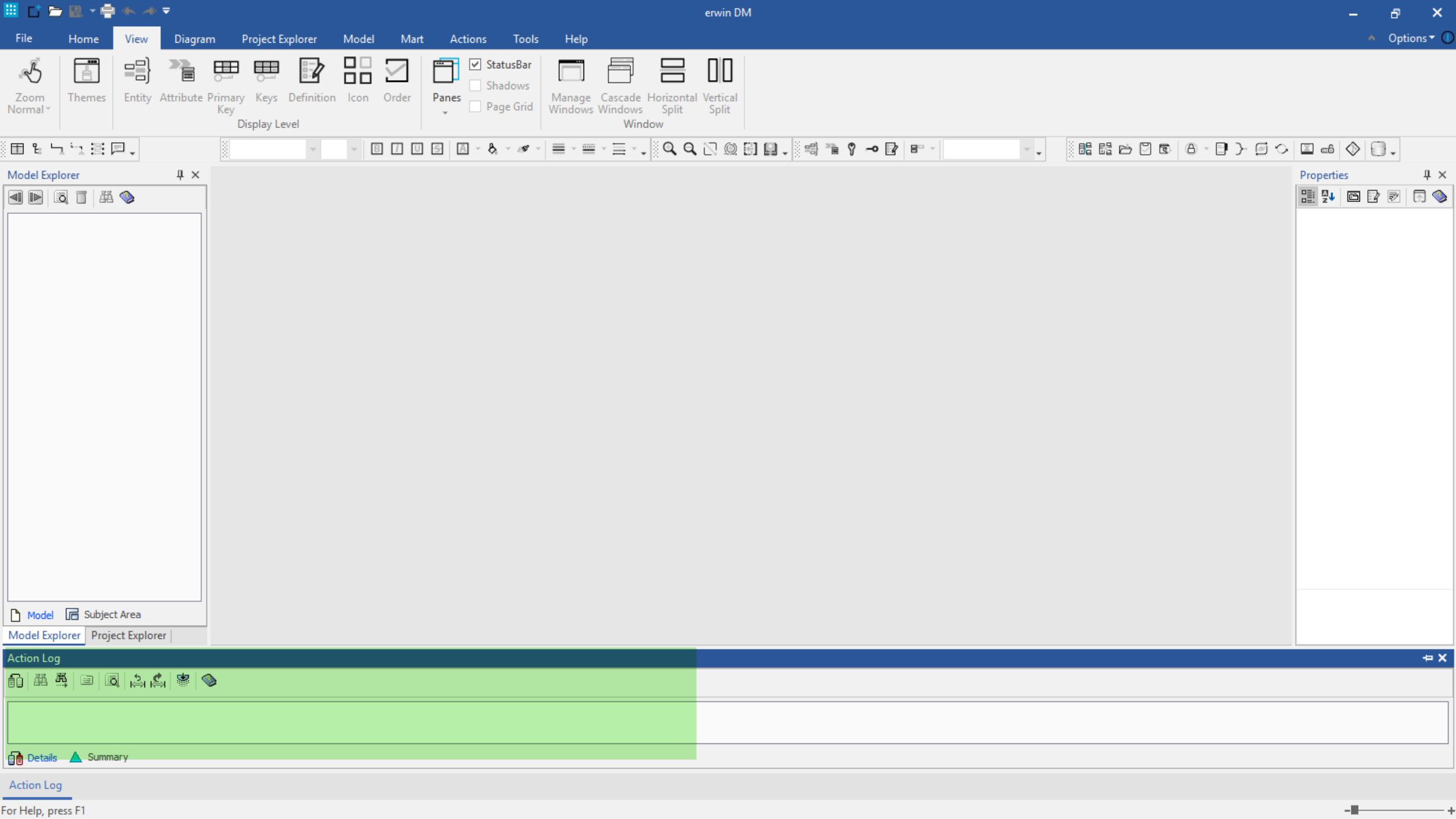
Properties

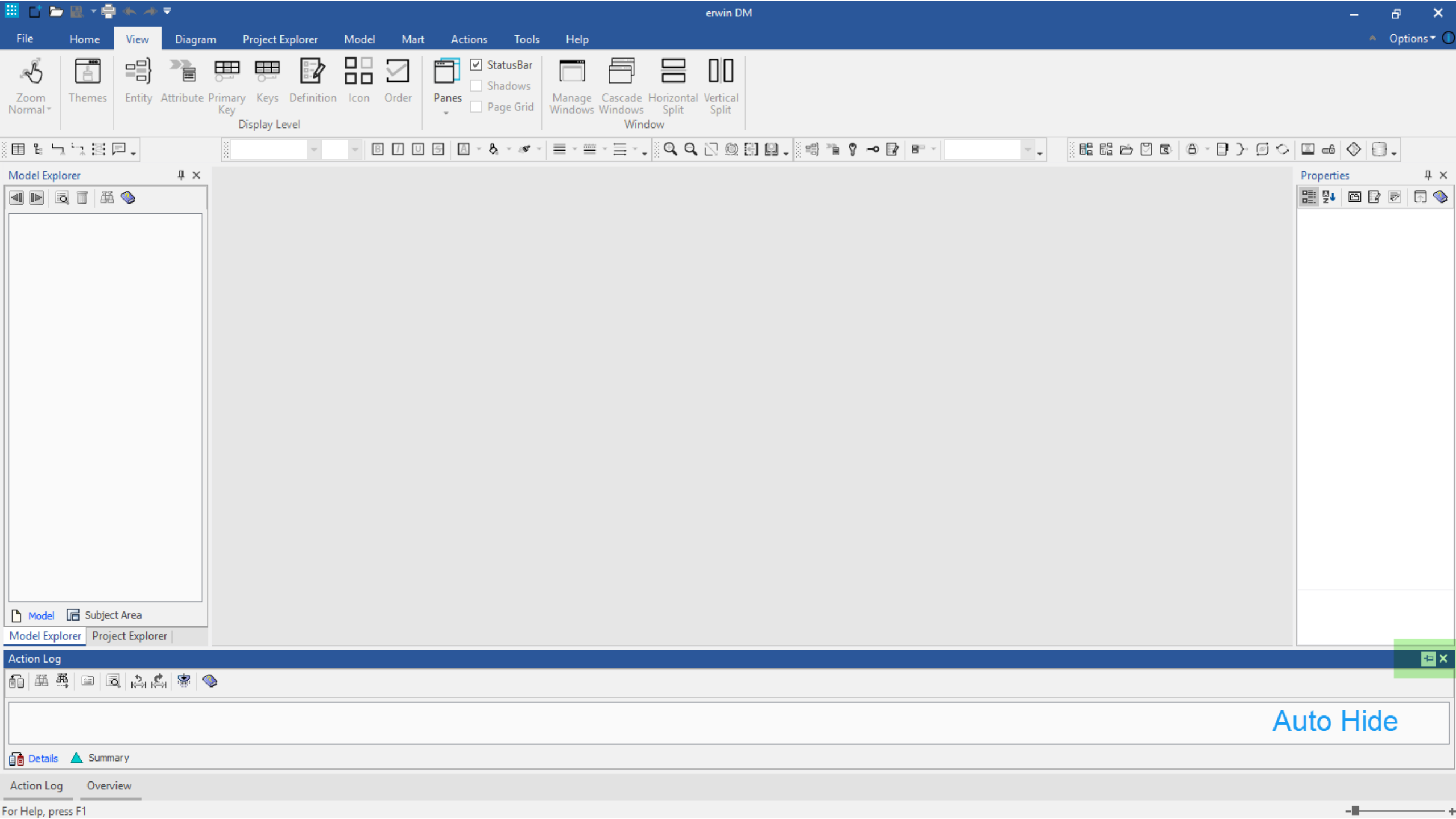
Properties

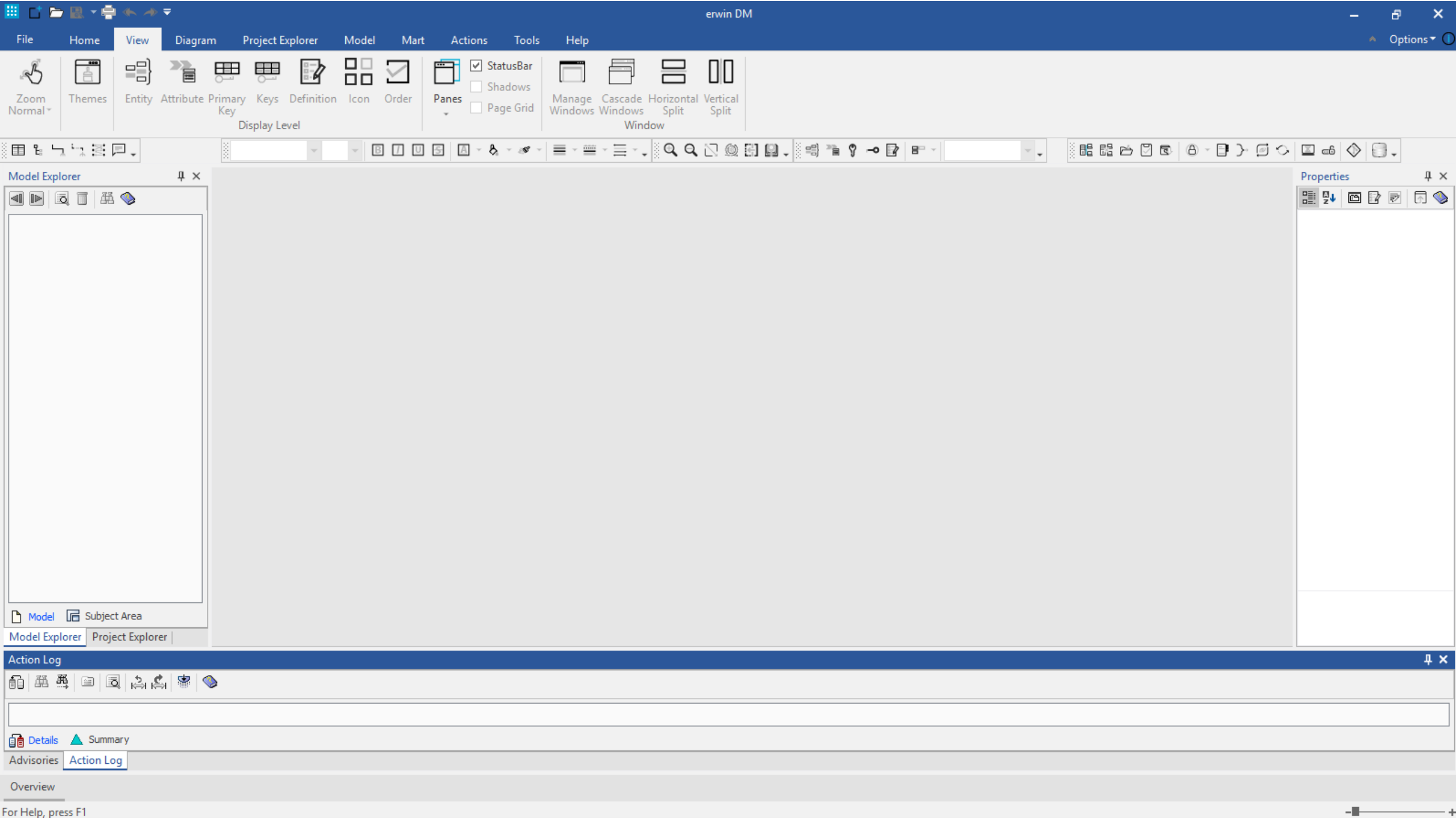


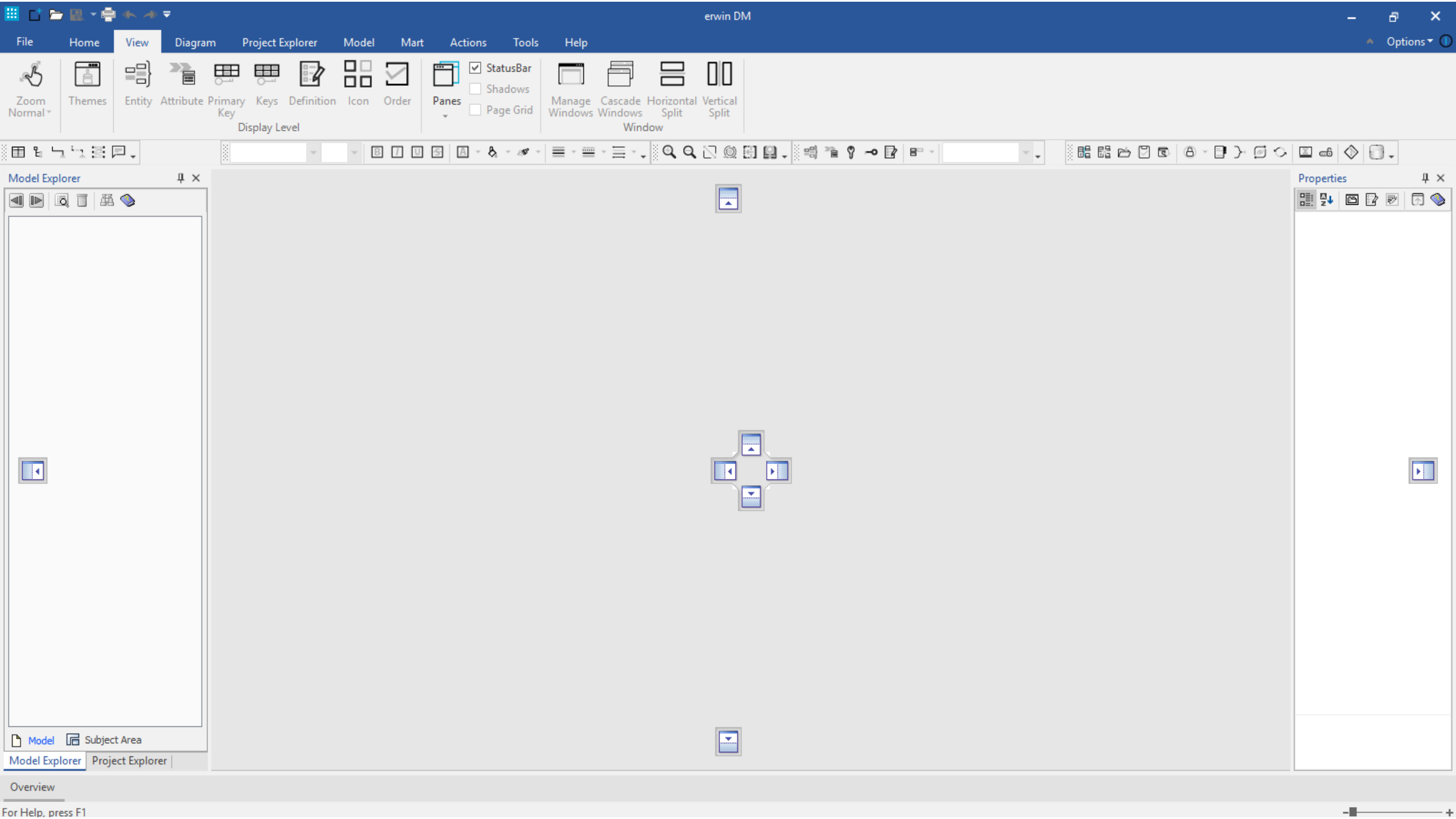


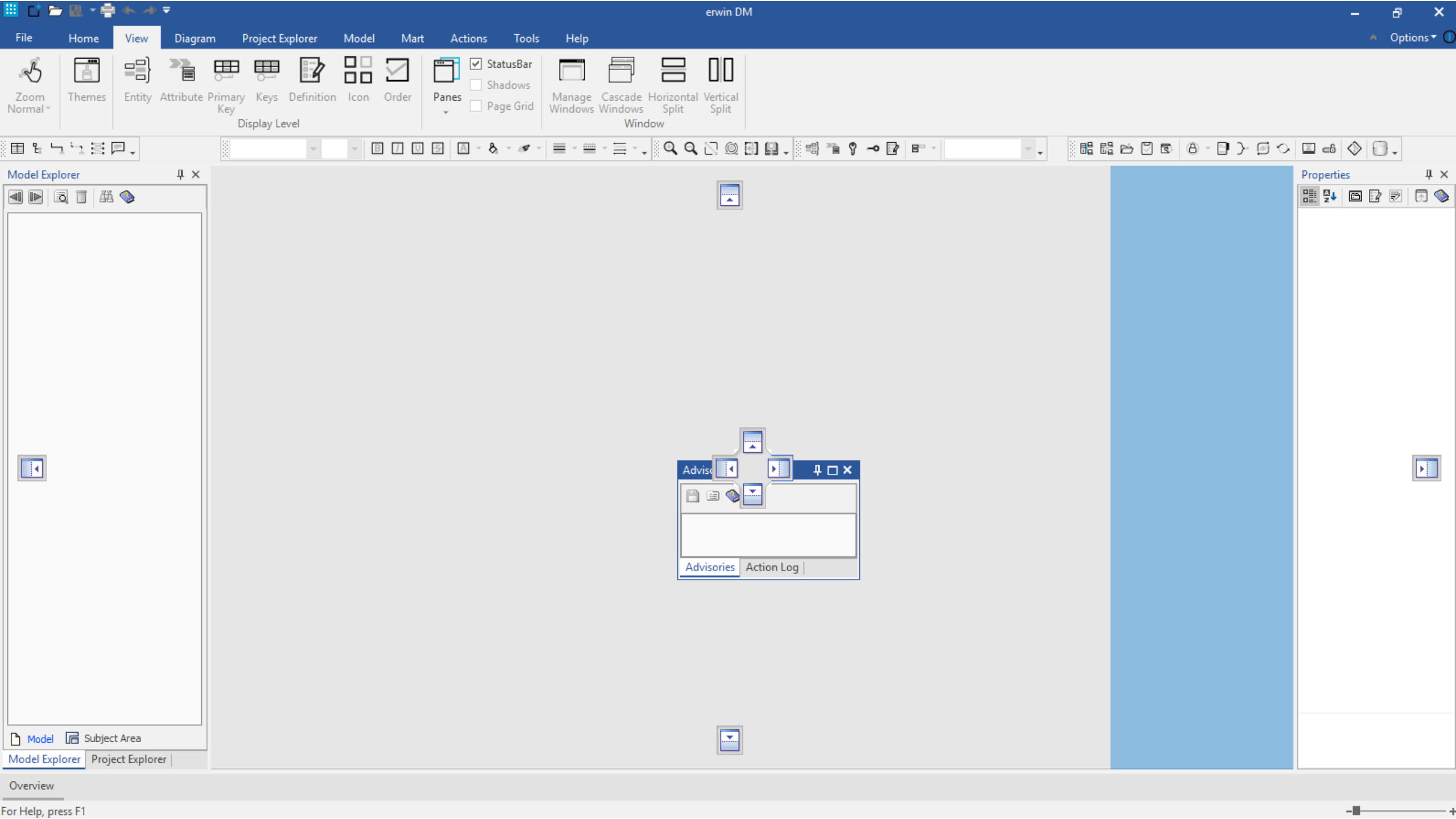


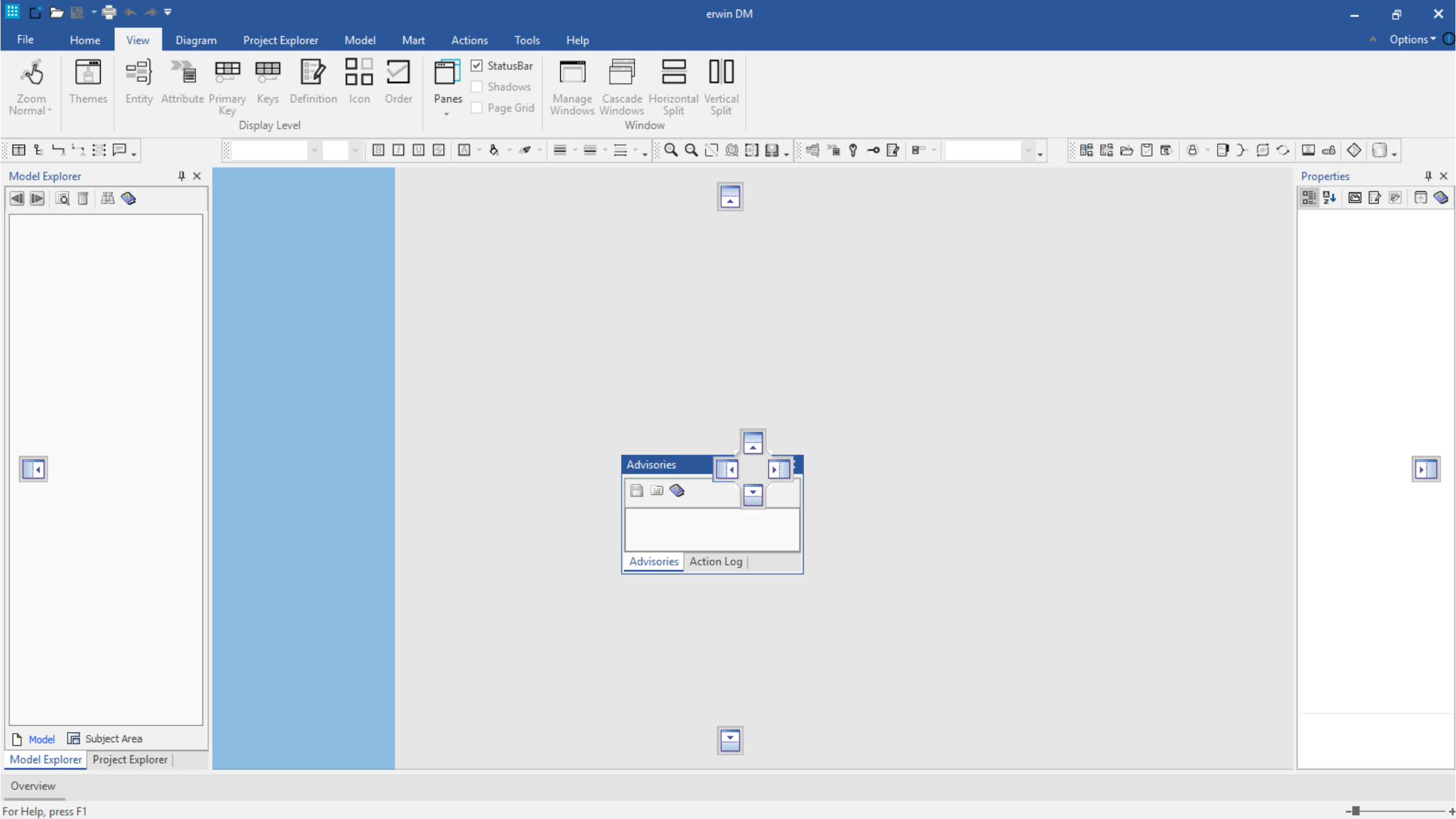


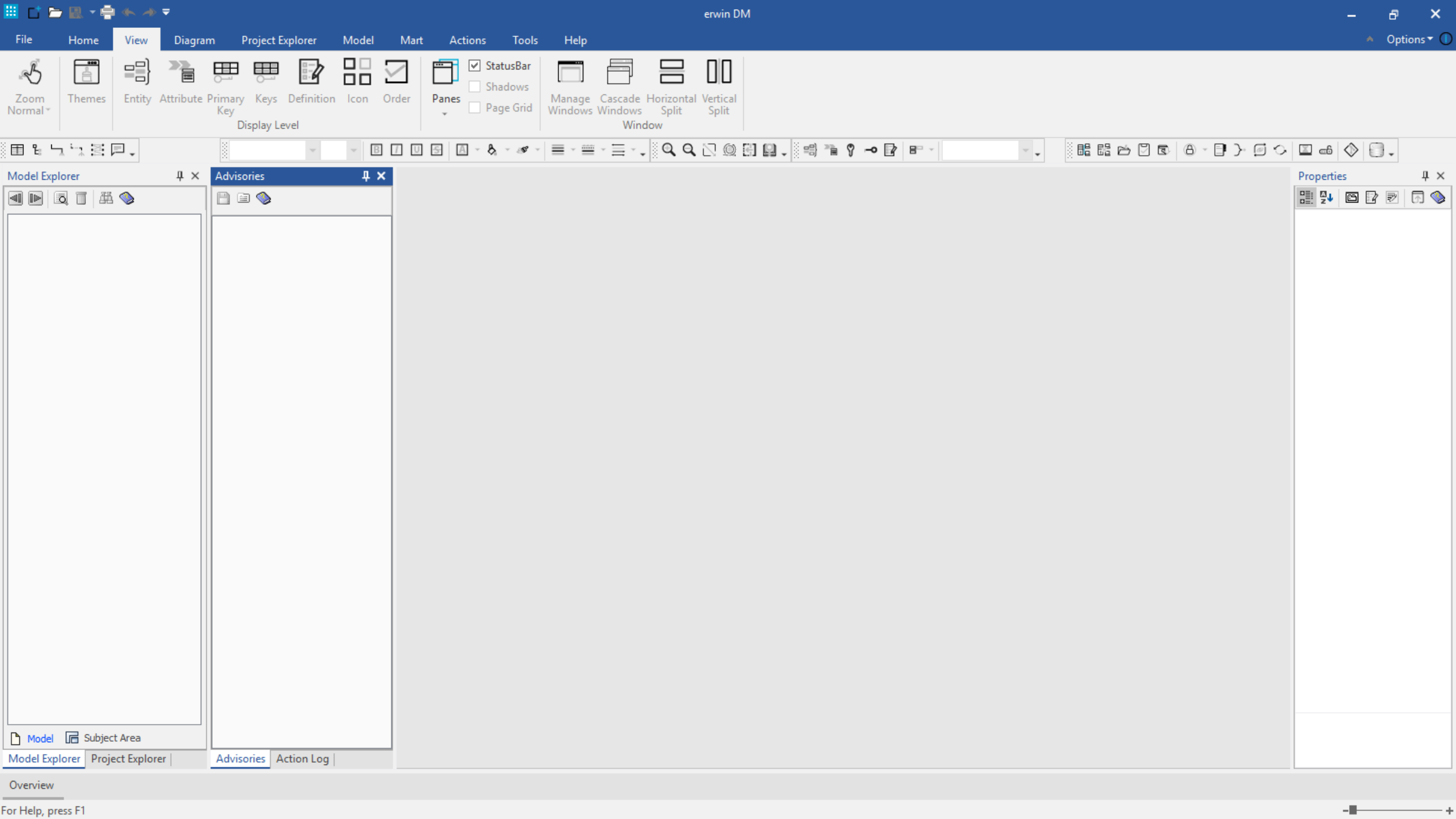


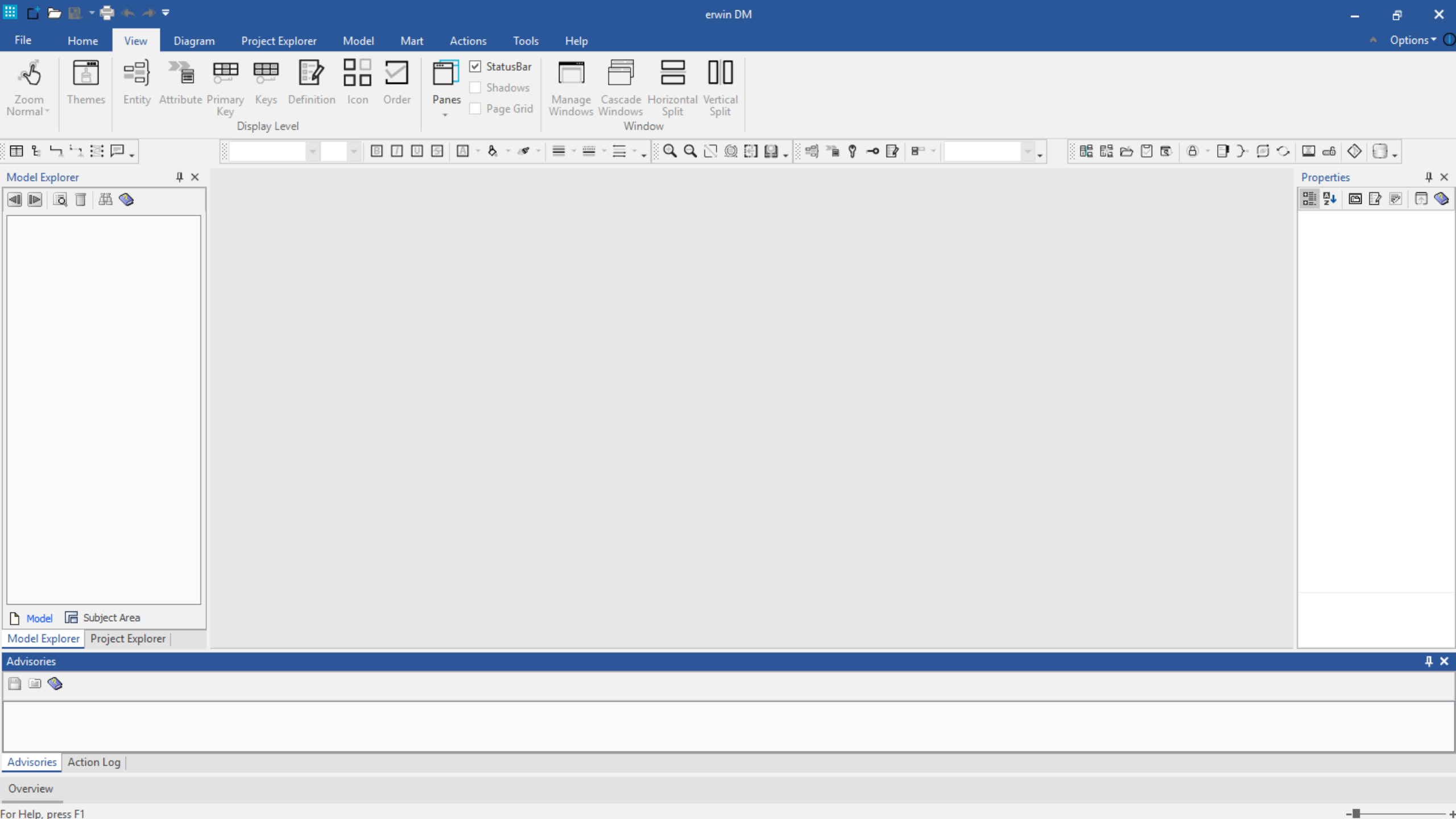


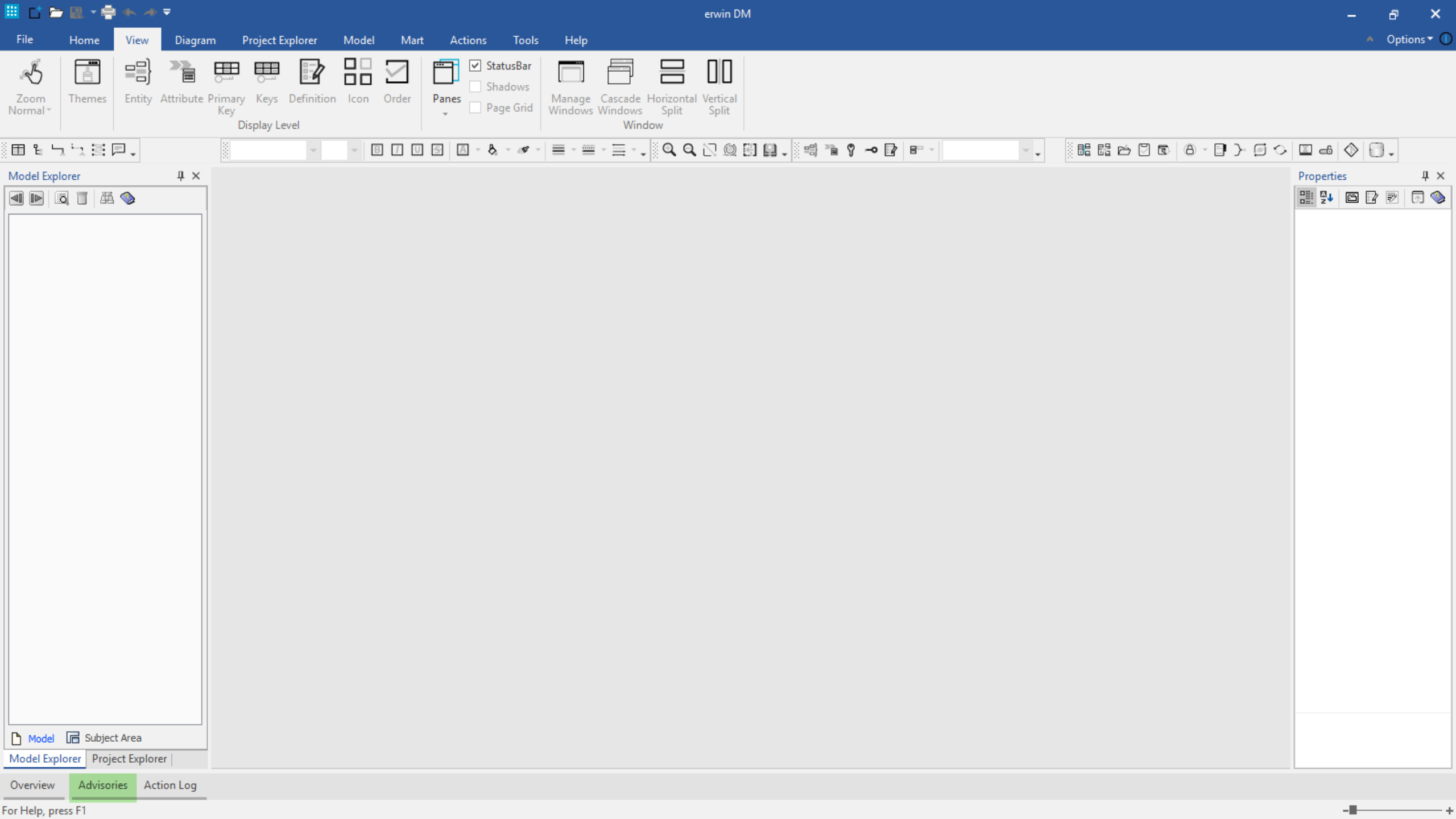


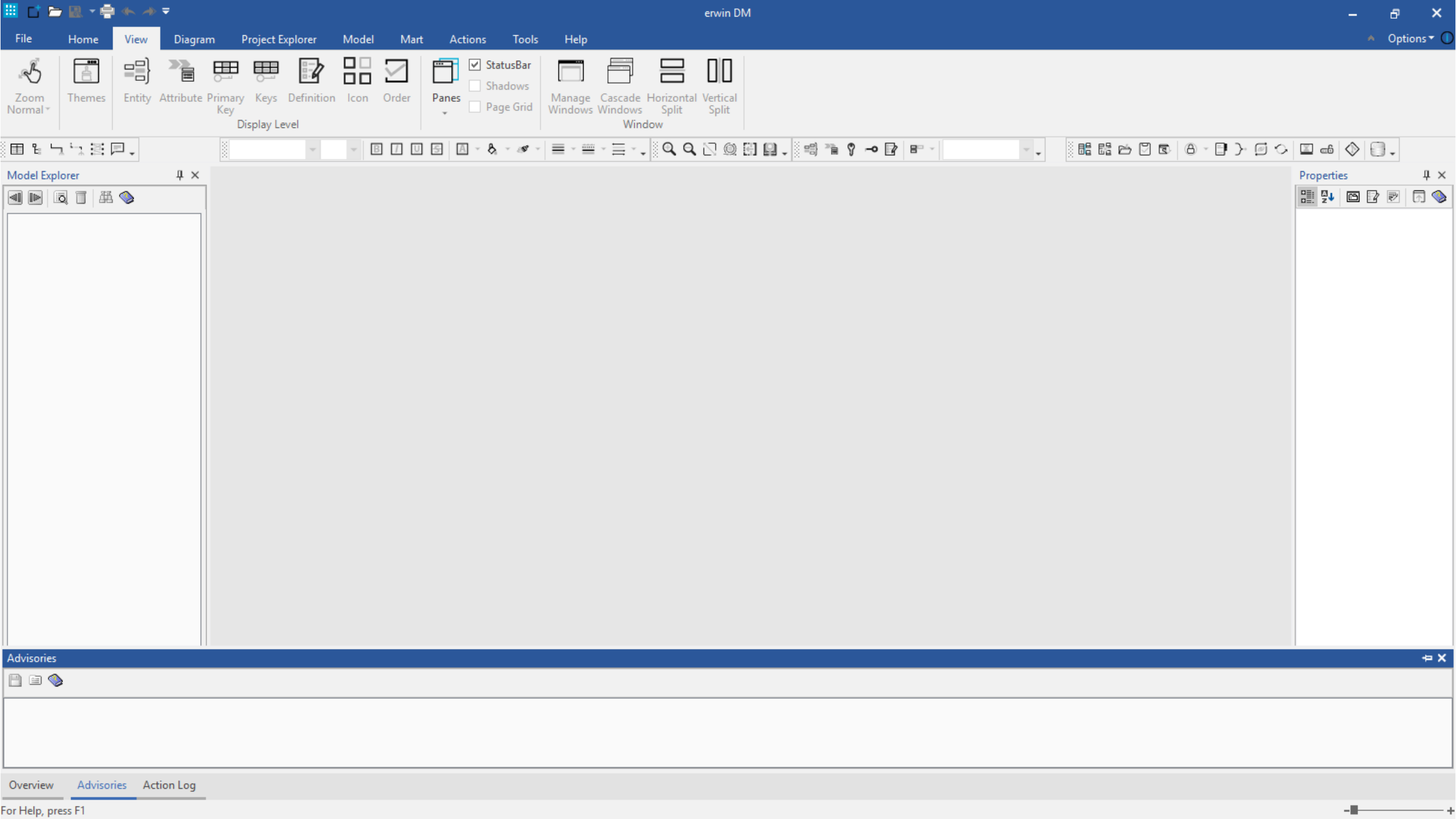






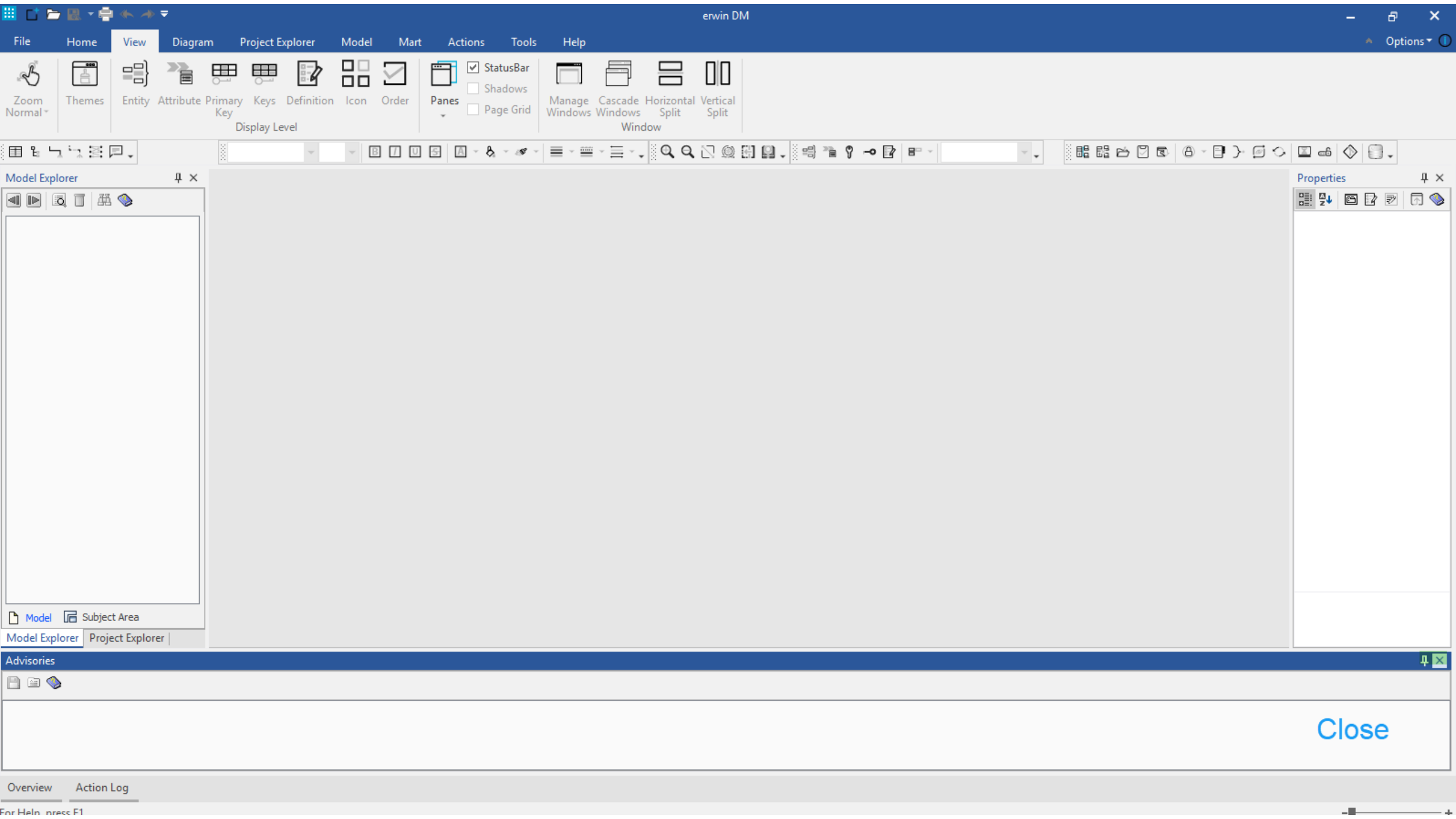


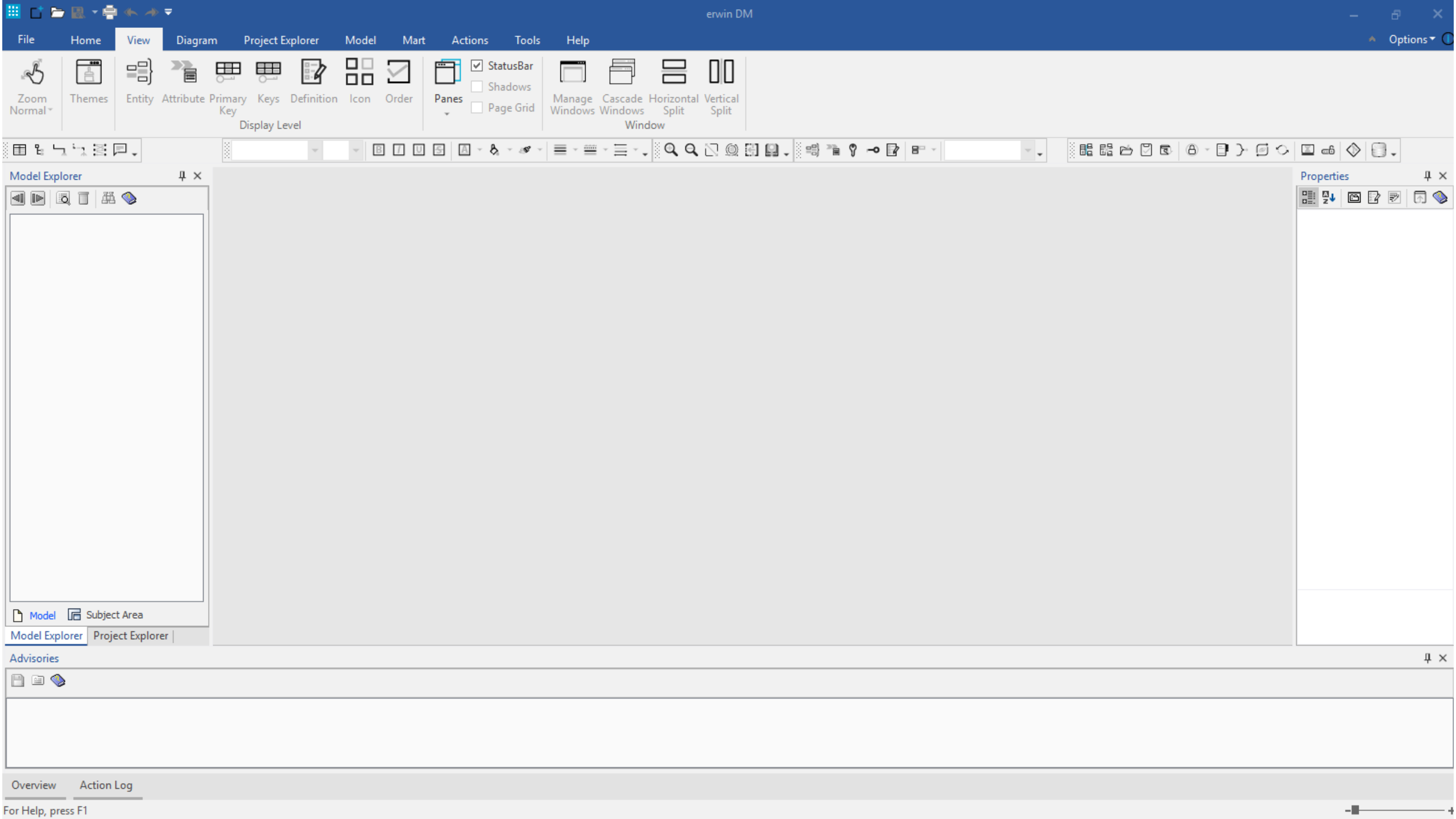






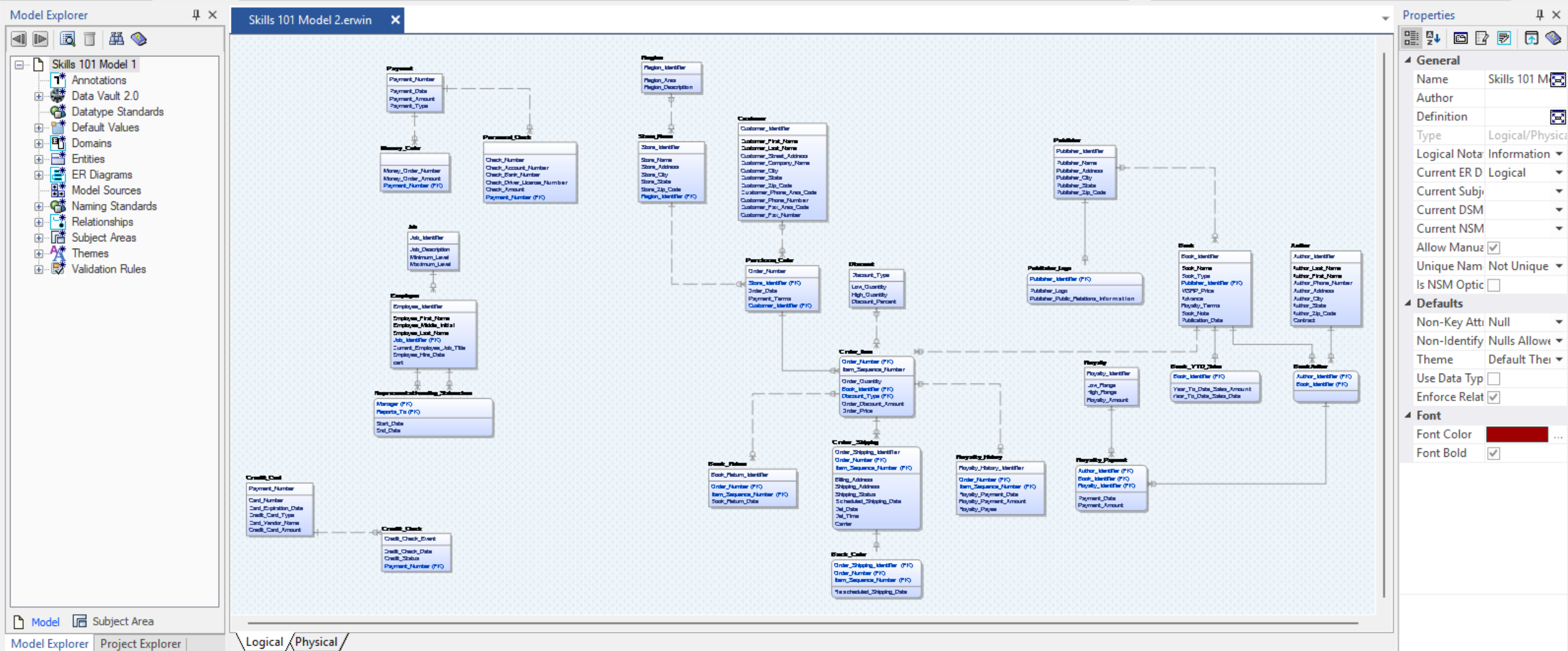
erwin Data Modeler User Interface







File Tab





New

Open

Close

Save

Save As

Recent

New Project

Open Project

Save Project

Close Project

Print

Page Setup

Exit

Recent File List

	Skills 101 Model 2.erwin C:\Users\AMcGover\OneDrive - Quest\erwin\erwin 101 Mart://Mart/Snowflake Sample Data Schema DELETEME1203 Mart://Mart/Snowflake Sample Data Schema DEMO Mart://Mart/Snowflake Sample Data Schema DELETEME Mart://Mart/Demonstration Models/Publication System DM to DI Mart://Mart/Oracle AI World 2025/Oracle 21c- Contoso Retail DW	08/01/2025 00:30 PM	510 KB	
	DELE.erwin C:\Users\AMcGover\OneDrive - Quest\erwin\erwin Data Modeler\erwin Models\JSON\FHIR JSON Examples Mart://Mart/Demo Lot/Model3-LOGICAL Mart://Mart/Model Templates/Entity Model Template - Pubs	10/02/2025 02:16 PM	371 KB	
	Model3-PHYSICAL.erwin C:\Users\AMcGover\OneDrive - Quest\erwin\erwin Data Modeler\erwin Models\JSON\FHIR JSON Examples	12/11/2025 03:37 PM	398 KB	
	Model3-LOGICAL.erwin C:\Users\AMcGover\OneDrive - Quest\erwin\erwin Data Modeler\erwin Models\JSON\FHIR JSON Examples	12/11/2025 03:37 PM	68.1 KB	
	Publication System ER360q .erwin C:\Users\AMcGover\OneDrive - Quest\erwin\Customer\Fidelity	12/11/2025 03:31 PM	6.16 MB	
	Publication System ER360 .erwin C:\Users\AMcGover\OneDrive - Quest\erwin\Customer\Fidelity Mart://Mart/Model Templates/Active Model Templates /AMT_5_Diagrams_LPDM_SQL_2022 Mart://Mart/Demonstration Models/Publication System ER360 Mart://Mart/Entity Model Template - Pubs	12/11/2025 03:31 PM	4.84 MB	

erwin DM - [Skills 101 Model 2.erwin : Logical * (Read-Only)]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

ConnectDisconnectOpenSaveSave AsLockCatalog ManagerMergeReviewRefreshSession ManagerPassword ManagerGit ConnectionsDBT Integration

Mart

Model Explorer

Skills 101 Model 1

AnnotationsData Vault 2.0Datatype StandardsDefault ValuesDomainsEntitiesER DiagramsModel SourcesNaming StandardsRelationshipsSubject AreasThemesValidation Rules

Save As

Andy - Quest > erwin > erwin 101

OrganizeNew folder

	Name	Status	Date modified	Type	Size
> erwin					
> Installers	AMT_3_Diagrams_LPDM_Databricks.erwin	✓	9/16/2025 09:42	erwin Model	616 KB
> Meetings	Model 1 ATM.erwin	✓	1/9/2025 09:48	erwin Model	636 KB
> Microsoft Cop	Model 1.erwin	✓	1/8/2025 15:05	erwin Model	493 KB
> Microsoft Tear	Skills 101 Model 1.erwin	✓	8/1/2025 13:46	erwin Model	521 KB
> Migration	Skills 101 Model 2.erwin	✓	8/1/2025 12:30	erwin Model	511 KB

File name: Skills 101 Model 2.erwin

Save as type: erwin DM (*.erwin)

erwin DM (*.erwin)

erwin DM 14.0 (*.erwin)

erwin DM 12.5 (*.erwin)

erwin DM 12.1 (*.erwin)

erwin DM Template (*.erwin_tmpl)

XML Min (*.xml)

XML Standard (*.xml)

XML Repository (*.xml)

JSON Files (*.json)

Hide Folders

Payment_Number

Card_Number

Card_Expiration_Date

Credit_Card_Type

Card_Vendor_Name

Credit_Card_Amount

Credit_Check

Credit_Check_Event

Credit_Check_Date

Credit_Status

Payment_Number (FK)

Order

Order_Shipping_Identifier (FK)

Order_Number (FK)

Item_Sequence_Number (FK)

Was checked/Shipping Date

LogicalPhysical

Model ExplorerProject Explorer

OverviewAction LogAdvisories

Non-Mart Model

andy.mcGovern@que

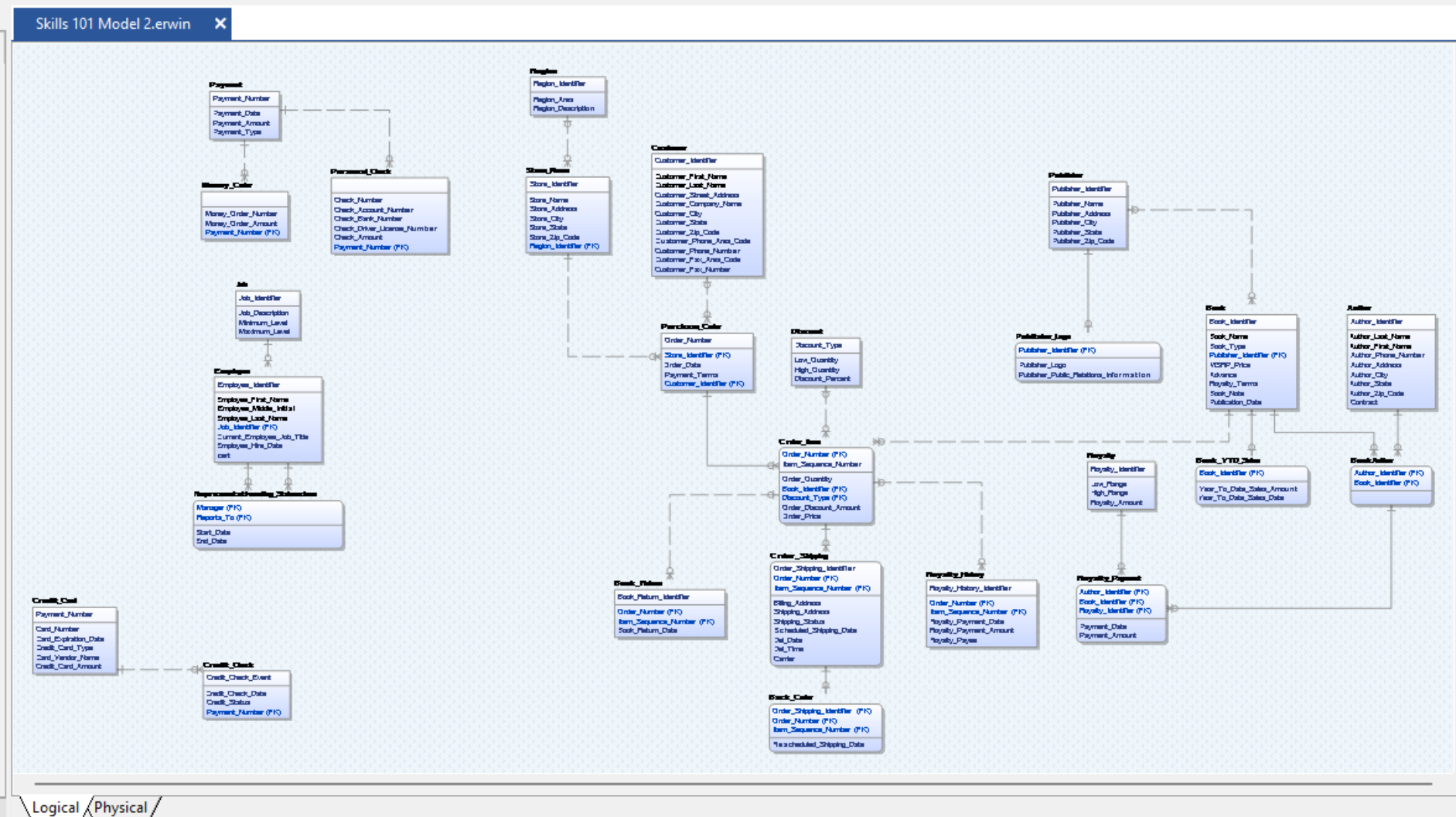
SQL Server 2019/2022

47%



Home Tab

The screenshot shows the 'Model Explorer' window. At the top, there is a toolbar with icons for zooming, searching, and other navigation functions. Below the toolbar, a tree view displays the structure of the 'Skills 101 Model 1'. The root node is 'Skills 101 Model 1', which is expanded to show a list of sub-nodes: Annotations, Data Vault 2.0, Datatype Standards, Default Values, Domains, Entities, ER Diagrams, Model Sources, Naming Standards, Relationships, Subject Areas, Themes, and Validation Rules. Each sub-node has a small icon next to it. At the bottom of the window, there are tabs for 'Model' and 'Subject Area', with 'Model' currently selected. The bottom status bar shows 'Model Explorer' and 'Project Explorer'.



Properties  

General

Name	Skills 101 M 
Author	
Definition	
Type	Logical/Physical
Logical Note	Information ▼
Current ER D	Logical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐

Defaults

Non-Key Attribute	Null ▼
Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒

Font

Font Color	 ...
Font Bold	☒

File

Home

View

Diagram

Project Explorer

Model

Mart

Actions

Tools

Help

Model Templates

Template Information

Bind Template...

Refresh Template...

Unbind Template...

Define Filter...

Synchronize on Model Load

Data vault 2.0

Datatype Standards

Default Values

Domains

Entities

ER Diagrams

Model Sources

Naming Standards

Relationships

Subject Areas

Themes

Validation Rules

Entity

Sub-Category

Identifying

Non-Identifying

Many-to-Many

Annotation

Toolbox

Drawing

Clipboard

Editing

Data Vault 2.0

erwin DM - [Skills 101 Model 2.erwin : Logical : (Read-Only)]

Options

Skills 101 Model 2.erwin

Payment

Payment_Number

Payment_Date

Payment_Amount

Payment_Type

Payment_Check

Check_Number

Check_Account_Number

Check_Bank_Number

Check_Driver_License_Number

Check_Amount

Payment_Number (FK)

Money_Order

Money_Order_Number

Money_Order_Amount

Payment_Number (FK)

Job

Job_Identifier

Job_Description

Minimum_Level

Maximum_Level

Employees

Employee_Identifier

Employee_First_Name

Employee_Middle_Initial

Employee_Last_Name

Job_Identifier (FK)

Current_Employee_Job_Title

Employee_Hire_Date

Card

Representational_Thinking_Information

Manager (FK)

Reports_To (FK)

Start_Date

End_Date

Credit_Card

Payment_Number

Card_Number

Card_Expiration_Date

Credit_Card_Type

Card_Vendor_Name

Credit_Card_Amount

Credit_Check

Credit_Check_Event

Credit_Check_Date

Credit_Status

Payment_Number (FK)

Region

Region_Identifier

Region_Area

Region_Description

Store_Floor

Store_Identifier

Store_Name

Store_Address

Store_City

Store_State

Store_Zip_Code

Region_Identifier (FK)

Customer

Customer_Identifier

Customer_First_Name

Customer_Last_Name

Customer_Street_Address

Customer_Company_Name

Customer_City

Customer_State

Customer_Zip_Code

Customer_Phone_Area_Code

Customer_Phone_Number

Customer_Fax_Area_Code

Customer_Fax_Number

Purchase_Order

Order_Number

Store_Identifier (FK)

Order_Date

Payment_Terms

Customer_Identifier (FK)

Discount

Discount_Type

Low_Quantity

High_Quantity

Discount_Percent

Order_Base

Order_Number (FK)

Item_Sequence_Number

Order_Quantity

Book_Identifier (FK)

Discount_Type (FK)

Order_Discount_Amount

Order_Price

Order_Shipping

Order_Shipping_Identifier

Order_Number (FK)

Item_Sequence_Number (FK)

Shipping_Address

Shipping_Status

Scheduled_Shipping_Date

Del_Date

Del_Time

Center

Book_Publish

Book_Publish_Identifier

Order_Number (FK)

Item_Sequence_Number (FK)

Book_Publish_Date

Book_Caller

Order_Shipping_Identifier (FK)

Order_Number (FK)

Item_Sequence_Number (FK)

Has_scheduled_Shipping_Date

Publisher

Publisher_Identifier

Publisher_Name

Publisher_Address

Publisher_City

Publisher_State

Publisher_Zip_Code

Publisher_Logo

Publisher_Identifier (FK)

Publisher_Logo

Publisher_Public_Publications_Information

Book

Book_Identifier

Book_Name

Book_Type

Publisher_Identifier (FK)

MSRP_Price

Advance

Payable_Terms

Book_Note

Publication_Date

Book_YTD_Sales

Book_Identifier (FK)

Year_To_Date_Sales_Amount

Year_To_Date_Sales_Date

Author

Author_Identifier

Author_Last_Name

Author_First_Name

Author_Phone_Number

Author_Address

Author_City

Author_State

Author_Zip_Code

Contract

Payable

Payable_Identifier

Low_Prange

High_Prange

Payable_Amount

Payable_History

Payable_History_Identifier

Order_Number (FK)

Item_Sequence_Number (FK)

Payable_Payment_Date

Payable_Payment_Amount

Payable_Payee

Payable_Payment

Author_Identifier (FK)

Book_Identifier (FK)

Payable_Identifier (FK)

Payment_Date

Payment_Amount

Properties

General

Name

Skills 101 M

Author

Definition

Type

Logical/Physical

Logical Notation

Information

Current ER Diagram

Logical

Current Subject Area

Current DSM

Current NSM

Allow Manual

Unique Name

Not Unique

Is NSM Option

Defaults

Non-Key Attribute

Null

Non-Identifying

Nulls Allowed

Theme

Default Theme

Use Data Type

Enforce Relationship

Font

Font Color

Font Bold

Model

Subject Area

Model Explorer

Project Explorer

Overview

Action Log

Advisories

Logical

Physical

Model Template Options

Non-Mart Model

andy.mcGovern@que

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File

Home

View

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Model

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Actions

Tools

Help

Model Templates

Entity

Sub-Category

Identifying

Non-Identifying

Many-to-Many

Annotation

Diagram

Clipboard

Editing

Data Vault 2.0

Model Explorer

Skills 101 Model 2.erin

Properties

Skills 101 Model 1

Annotations

Data Vault 2.0

Datatype Standards

Default Values

Domains

Entities

ER Diagrams

Model Sources

Naming Standards

Relationships

Subject Areas

Themes

Validation Rules

Model Explorer

Project Explorer

Overview

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Advisories

Payment

Payment_Number

Payment_Data

Payment_Amount

Payment_Type

Money_Order

Money_Order_Number

Money_Order_Amount

Payment_Number (FK)

Personal_Check

Check_Number

Check_Account_Number

Check_Bank_Number

Check_Driver_License_Number

Check_Amount

Payment_Number (FK)

Job

Job_Identifier

Job_Description

Minimum_Level

Maximum_Level

Employee

Employee_Identifier

Employee_First_Name

Employee_Middle_Initial

Employee_Last_Name

Job_Identifier (FK)

Current_Employee_Job_Title

Employee_Hire_Date

Manager (FK)

Reports_To (FK)

Start_Date

End_Date

Region

Region_Identifier

Region_Area

Region_Description

Store_Place

Store_Identifier

Store_Name

Store_Address

Store_City

Store_State

Store_Zip_Code

Region_Identifier (FK)

Customer

Customer_Identifier

Customer_First_Name

Customer_Last_Name

Customer_Street_Address

Customer_Company_Name

Customer_City

Customer_State

Customer_Zip_Code

Customer_Phone_Area_Code

Customer_Phone_Number

Customer_Fax_Area_Code

Customer_Fax_Number

Purchase_Order

Order_Number

Store_Identifier (FK)

Order_Date

Payment_Terms

Customer_Identifier (FK)

Discount

Discount_Type

Low_Quantity

High_Quantity

Discount_Percent

Order_Item

Order_Number (FK)

Item_Sequence_Number

Order_Quantity

Book_Identifier (FK)

Discount_Type (FK)

Order_Discount_Amount

Order_Price

Order_Shipping

Order_Shipping_Identifier

Order_Number (FK)

Item_Sequence_Number (FK)

Shipping_Address

Shipping_Status

Scheduled_Shipping_Date

Del_Date

Del_Time

Carrier

Book_Place

Book_Place_Identifier

Order_Number (FK)

Item_Sequence_Number (FK)

Start_Return_Date

Book_Caller

Order_Shipping_Identifier (FK)

Order_Number (FK)

Item_Sequence_Number (FK)

Scheduled_Shipping_Date

Publisher

Publisher_Identifier

Publisher_Name

Publisher_Address

Publisher_City

Publisher_State

Publisher_Zip_Code

Publisher_Logs

Publisher_Identifier (FK)

Publisher_Logs

Publisher_Public_Publications_Information

Book

Book_Identifier

Book_Name

Book_Type

Publisher_Identifier (FK)

MSRP_Price

Advance

Payment_Terms

Book_Note

Publication_Date

Book_Video_Sales

Book_Identifier (FK)

Year_To_Date_Sales_Amount

Year_To_Date_Sales_Date

Book_Retailer

Author_Identifier (FK)

Book_Identifier (FK)

Author

Author_Identifier

Author_Last_Name

Author_First_Name

Author_Phone_Number

Author_City

Author_State

Author_Zip_Code

Contract

Royalty

Royalty_Identifier

Low_Prange

High_Prange

Royalty_Amount

Royalty_History

Royalty_History_Identifier

Order_Number (FK)

Item_Sequence_Number (FK)

Royalty_Payment_Date

Royalty_Payment_Amount

Royalty_Payee

Royalty_Payment

Author_Identifier (FK)

Book_Identifier (FK)

Royalty_Identifier (FK)

Payment_Date

Payment_Amount

Credit_Card

Payment_Number

Card_Number

Card_Expiration_Date

Credit_Card_Type

Card_Vendor_Name

Credit_Card_Amount

Credit_Check

Credit_Check_Event

Credit_Check_Date

Credit_Status

Payment_Number (FK)

General

Name

Skills 101 M

Author

Definition

Type

Logical/Physical

Logical Notation

Information

Current ER Diagram

Logical

Current Subject Area

Current DSM

Current NSM

Allow Manual

Unique Name

Not Unique

Is NSM Option

Defaults

Non-Key Attribute

Null

Non-Identify

Nulls Allowed

Theme

Default Theme

Use Data Type

Enforce Relationship

Font

Font Color

Font Bold

erwin DM - [Skills 101 Model 2: Logical * (Read-Only)]

Options

Logical

Model Explorer

Skills 101 Model 2.erin

Properties

General

Name

Skills 101 M

Author

Definition

Type

Logical/Physical

Logical Notation

Information

Current ER Diagram

Logical

Current Subject Area

Current DSM

Current NSM

Allow Manual

Unique Name

Not Unique

Is NSM Option

Defaults

Non-Key Attribute

Null

Non-Identify

Nulls Allowed

Theme

Default Theme

Use Data Type

Enforce Relationship

Font

Font Color

Font Bold

Model Explorer

Project Explorer

Overview

Action Log

Advisories

Logical

Physical

Non-Mart Model

andy.mcGovern@que

SQL Server 2019/2022

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erwin DM - [Skills 101 Model 2.erwin : Logical * (Read-Only)]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

Model Templates

EntitySub-CategoryIdentifyingNon-IdentifyingMany-to-ManyAnnotation

Toolbox

Drawing

Clipboard

Editing

Data Vault 2.0

CutCopyCopy FamilyPaste as ShortcutDelete

PasteCopy Neighborhood

Go To...FindReplace

HubLinkBridge

PITReferenceSatellite

Model Explorer

Skills 101 Model 1

AnnotationsData Vault 2.0Datatype StandardsDefault ValuesDomainsER DiagramsModel SourcesNaming StandardsRelationshipsSubject AreasThemesValidation Rules

ModelSubject Area

Model ExplorerProject Explorer

OverviewAction LogAdvisories

Skills 101 Model 2.erwin

LogicalPhysical

Properties

General

NameSkills 101 M

Author

Definition

TypeLogical/Physical

Logical NotationInformation

Current ER DiagramLogical

Current Subject

Current DSM

Current NSM

Allow Manual

Unique NameNot Unique

Is NSM Option

Defaults

Non-Key AttributeNull

Non-IdentifyNulls Allowed

ThemeDefault Theme

Use Data Type

Enforce Relationship

Font

Font Color

Font Bold

For Help, press F1

Non-Mart Model

andy.mcqovern@que

SQL Server 2019/2022

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File

Home

View

Diagram

Project Explorer

Model

Mart

Actions

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Sub-Category

Identifying

Non-Identifying

Many-to-Many

Annotation

Toolbox

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Editing

Data Vault 2.0

erwin DM - [Skills 101 Model 2.erwin : Logical * (Read-Only)]

Options

Model Explorer

Skills 101 Model 1

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Datatype Standards

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Domains

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Naming Standards

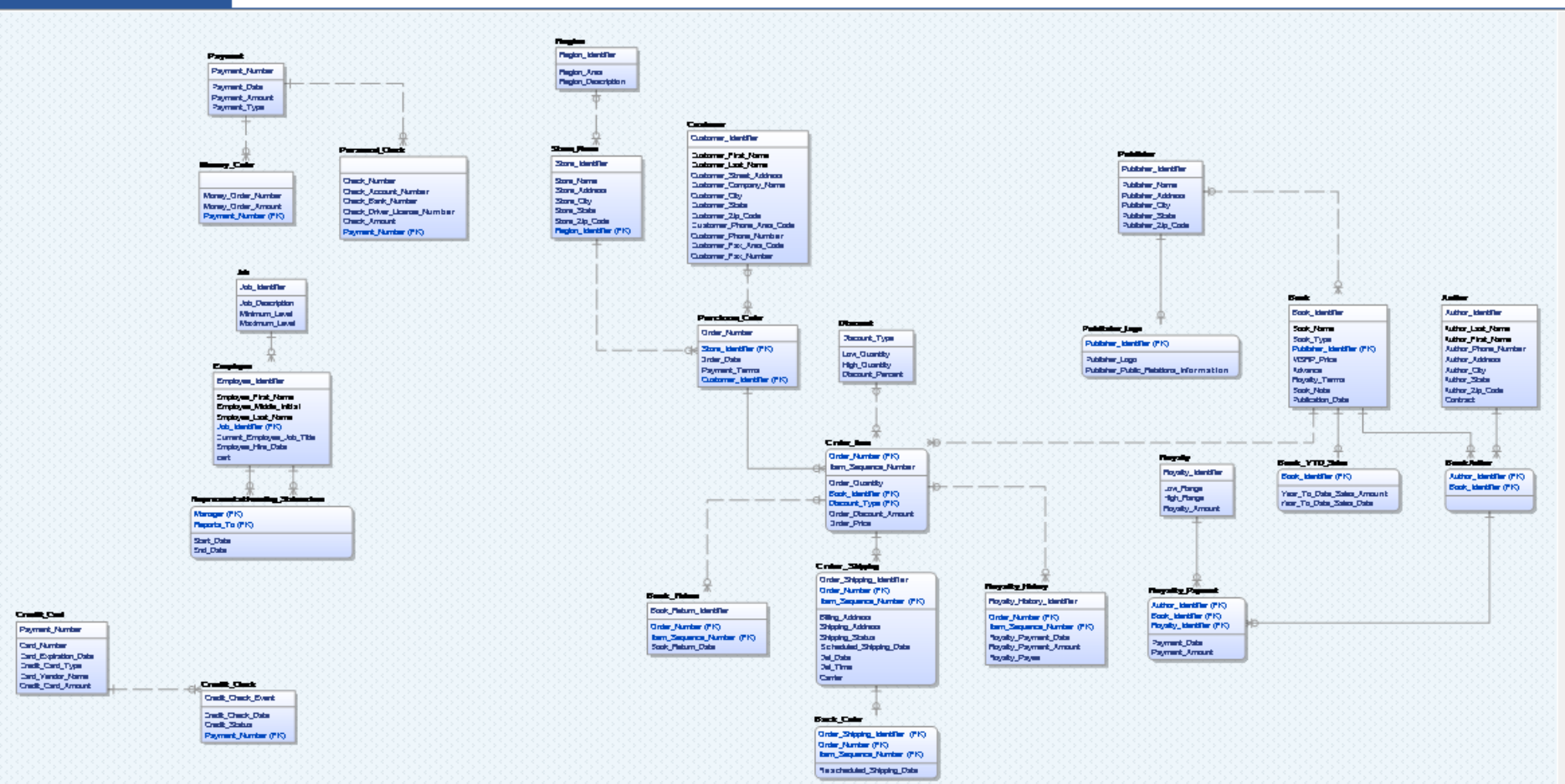
Relationships

Subject Areas

Themes

Validation Rules

Skills 101 Model 2.erwin



Logical

Physical

Properties

General

Name: Skills 101 M

Author

Definition

Type: Logical/Physical

Logical Notation: Information

Current ER Diagram: Logical

Current Subject Area

Current Data Model

Current Naming Standard

Allow Manual Updates: ☒

Unique Name: Not Unique

Is NSM Option: ☐

Defaults

Non-Key Attribute: Null

Non-Identifying: Nulls Allowed

Theme: Default Theme

Use Data Type: ☐

Enforce Relationship: ☒

Font

Font Color:

Font Bold: ☒

Model Explorer

Project Explorer

Overview

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For Help, press F1

Non-Mart Model

andy.mcGovern@que

SQL Server 2019/2022

47%

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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TableViewIdentifyingNon-IdentifyingView/MaterializedAnnotationRel.

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Microsoft Sans10

Physical

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Base_Odr

Personal_Odr

Money_Odr

Publshr_Logs

Book

Disc

Crd_Card

Job

Auth

Payment_View

Order_Item

Book_YTD_Sls

BookAuth

Crd_Odr

Emp

Order_View

Ryly_Hist

Order_Ship

Book_Return

Publisher_View

titleview

Properties

General

NameBook

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Owner PathSkills 101 Mode

Comments

Update Entity

Physical Only

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Table Options

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History Table

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Property Types

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Icons

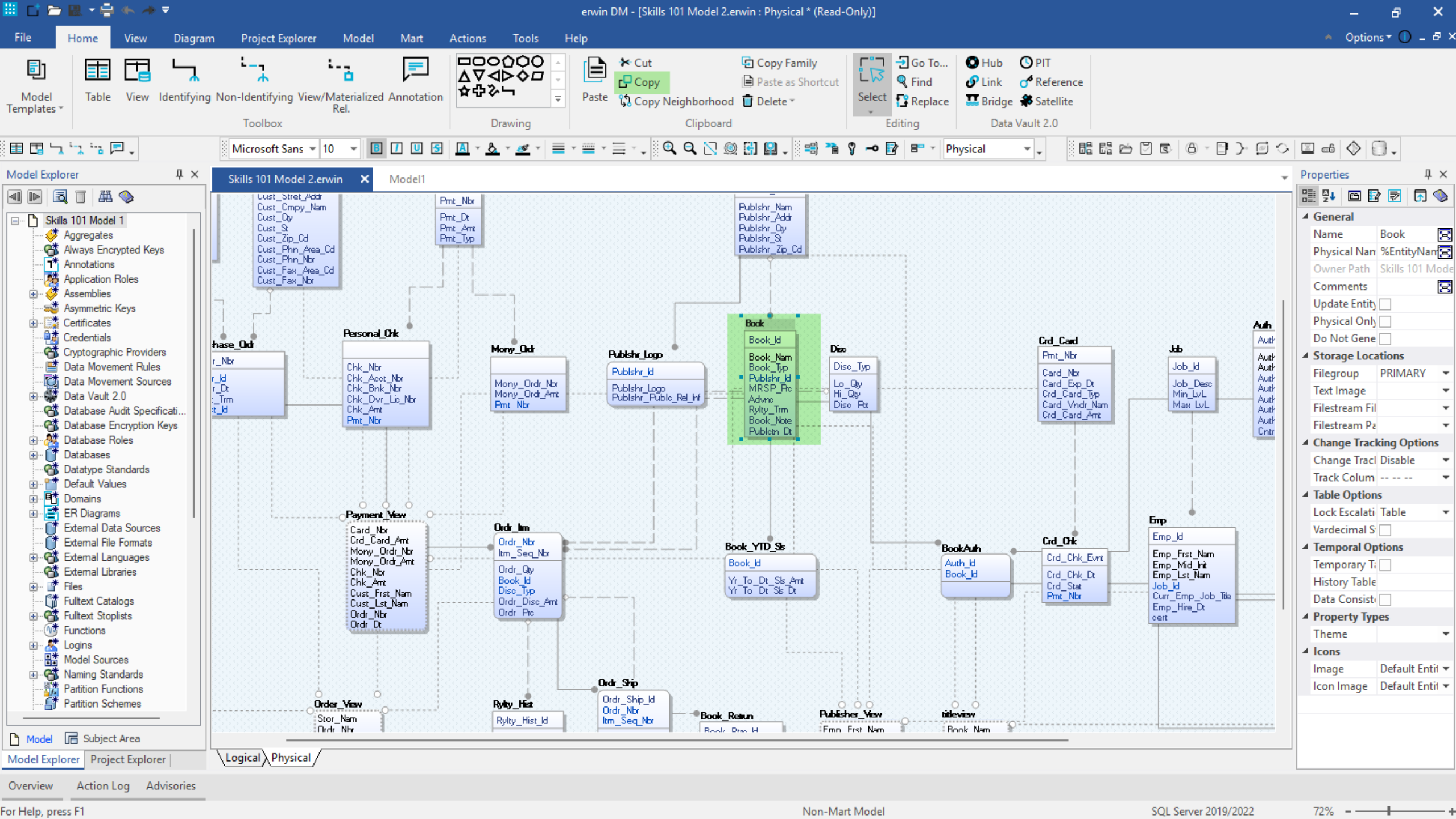
ImageDefault Enti

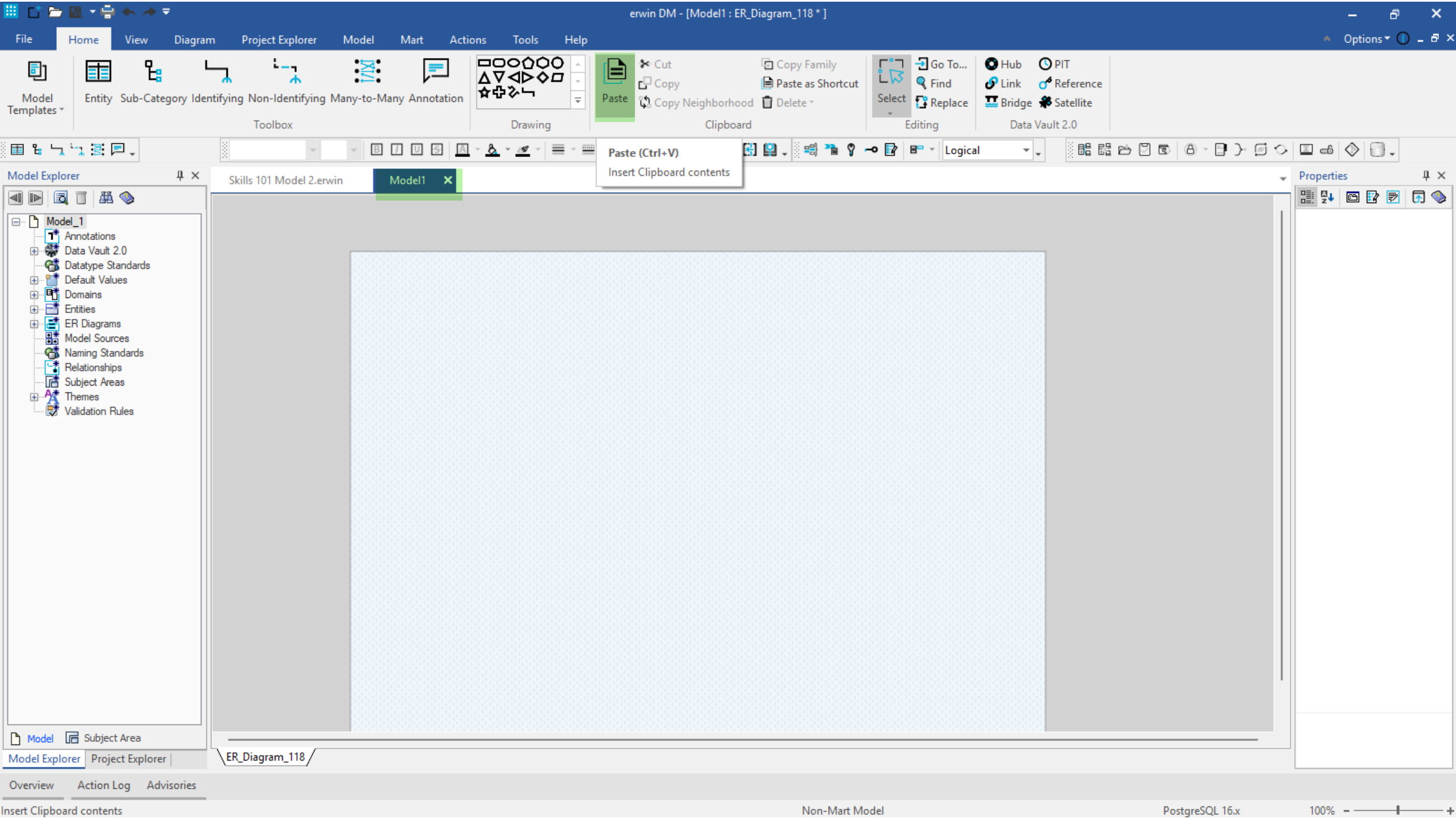
Icon ImageDefault Enti

Model ExplorerProject Explorer

OverviewAction LogAdvisories

Non-Mart ModelSQL Server 2019/202272%





erwin DM - [Model1 : ER_Diagram_118 *]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

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EntitySub-CategoryIdentifyingNon-IdentifyingMany-to-ManyAnnotation

Toolbox

Copy FamilyPaste as ShortcutDelete

CutCopyCopy Neighborhood

Clipboard

Select

Go To...FindReplace

Editing

HubLinkBridge

PITReferenceSatellite

Data Vault 2.0

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Book_Typ

Publsht_Id

MRSP_Prc

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Book_Note

Publctn_Dt

Properties

General

NameBook

Owner PathModel_1

Definition

Update Entity

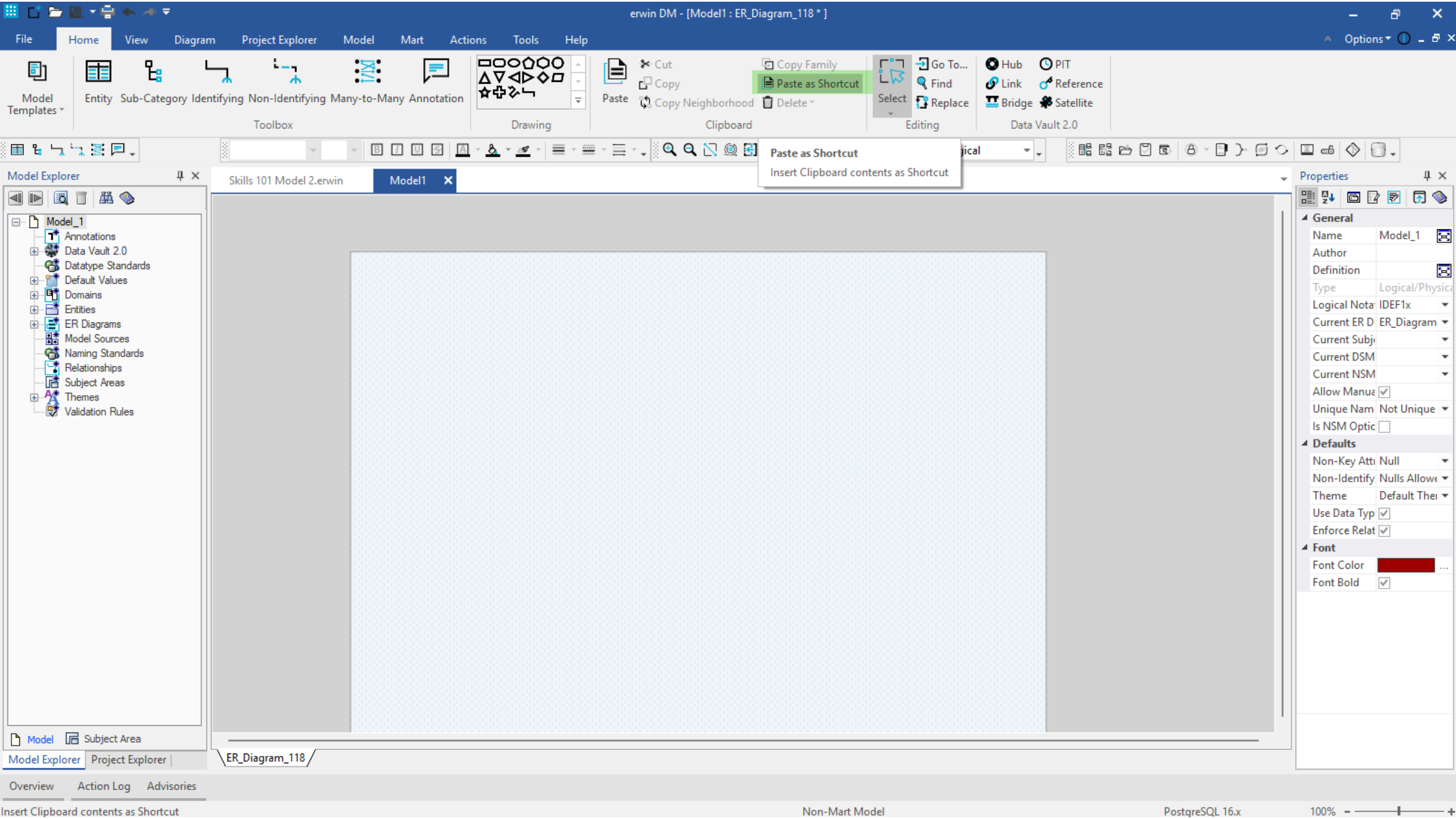
Logical Only

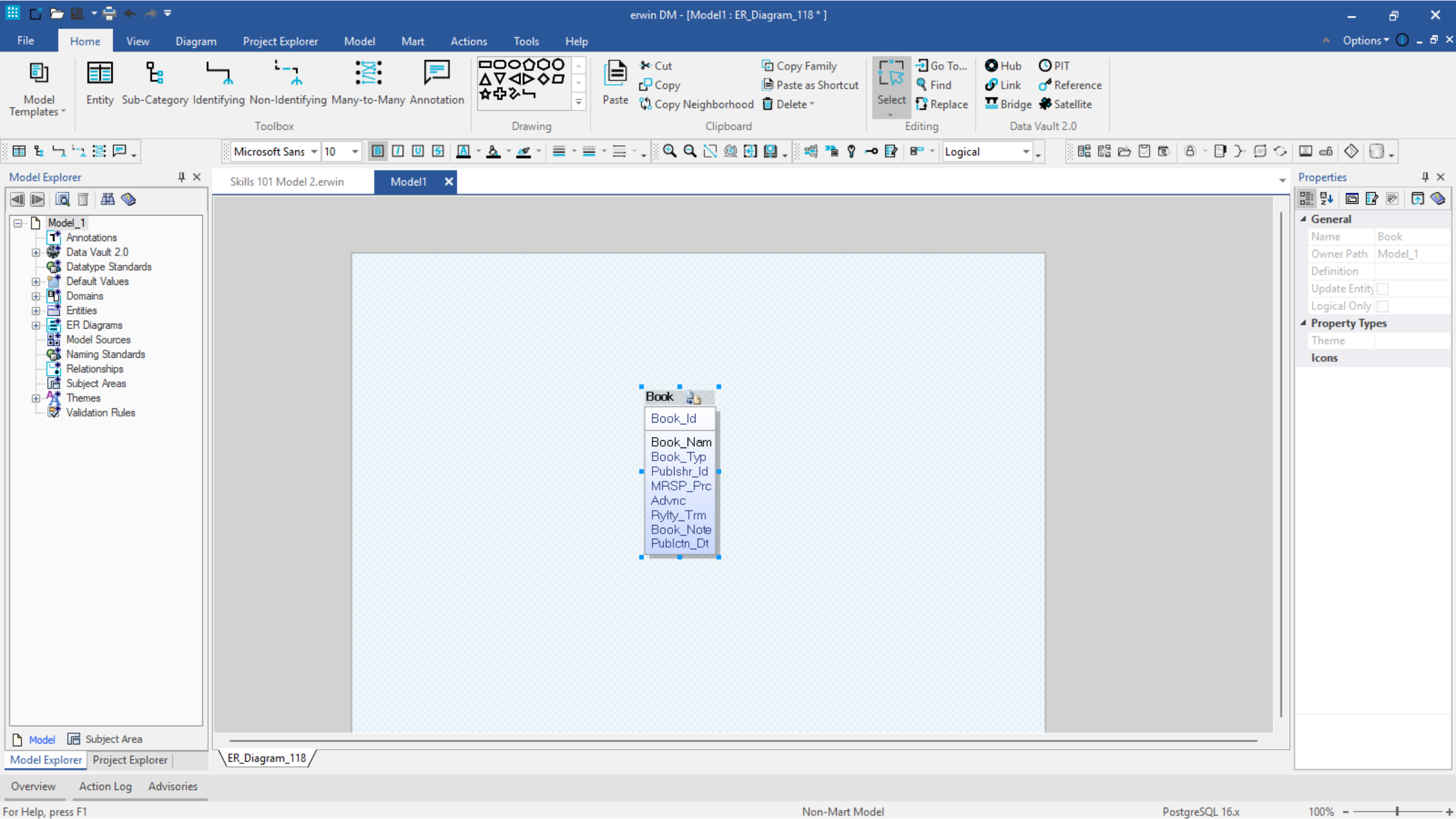
Property Types

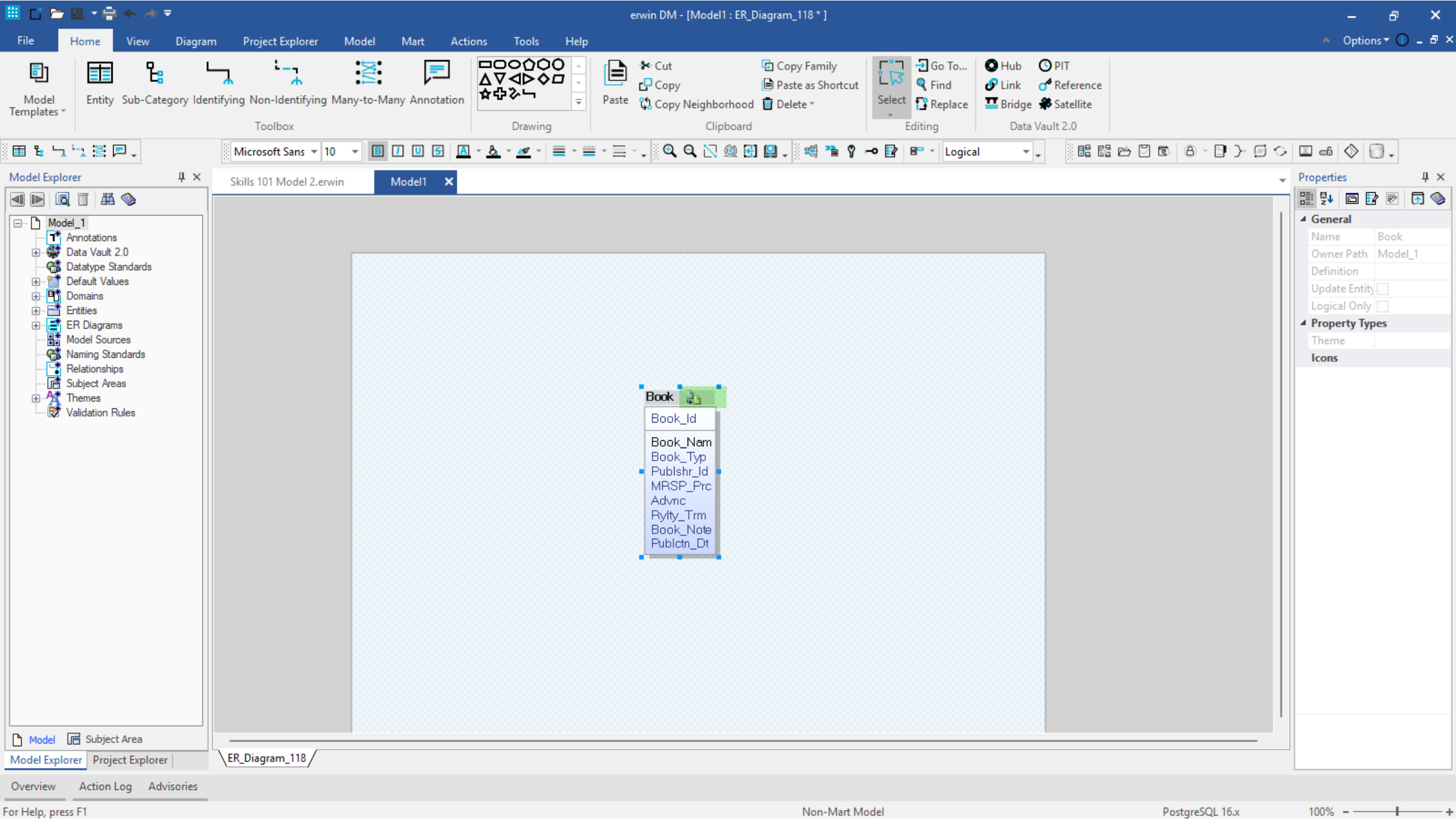
Theme

Icons

For Help, press F1Non-Mart ModelPostgreSQL 16.x100%







erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

File

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Crdr_Card

Payment_View

Ordr_Itm

Book_YTD_Sls

BookAuth

Crdr_Chk

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For Help, press F1

Non-Mart Model

SQL Server 2019/2022

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erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Microsoft Sans10

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Payment_View

Mony_Ordr

Ordr_Itm

Publshr_Logo

Book

Book_YTD

Crdr_Card

Crdr_Chk

Table Properties...

Column Properties...

Index Properties...

XML Index Properties...

Spatial Index Properties...

ColumnStore Index Properties...

Trigger Properties...

Stored Procedure Properties...

Function Properties...

Script Properties...

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Hide

Hide Neighborhood

Unhide

Unhide All

Sync Shortcut

Go To Shortcut Source

Override Fonts and Colors...

Reset Object to Automatic Sizing

Copy Theme and Overridden Styles

Paste Theme and Overridden Styles

Properties

General

NameBook

Physical Name%EntityName

Owner PathSkills 101 Mode

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For Help, press F1

SQL Server 2019/202291%

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Model1

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Publshr_Logo

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Pmt_Amt

Pmt_Typ

Chk_Nbr

Chk_Acct_Nbr

Chk_Bnk_Nbr

Chk_Dvr_Lic_Nbr

Chk_Amt

Pmt_Nbr

Card_Nbr

Ord_Card_Amt

Mony_Ordr_Nbr

Mony_Ordr_Amt

Chk_Nbr

Chk_Amt

Cust_Frst_Nam

Cust_Lst_Nam

Ordr_Nbr

Ordr Dt

Ordr_Nbr

Itm_Seq_Nbr

Ordr_Qty

Book_Id

Disc_Typ

Ordr_Disc_Amt

Ordr_Prc

Mony_Ordr_Nbr

Mony_Ordr_Amt

Pmt_Nbr

Publshr_Id

Publshr_Logo

Publshr_Public_R

SQL Server Table 'Book' Editor

Enter filter text

Physical Name	Schema	External	SQL Server Table Type	Durability	Physical Only	Generate As Type	Generate
Auth	dbo	☐	Disk Based	Schema And Data	☐	☐	☒
Bk_Ordr	dbo	☐	Disk Based	Schema And Data	☐	☐	☒
Book	dbo	☐	Disk Based	Schema And Data	☐	☐	☒
Book_Re...	dbo	☐	Disk Based	Schema And Data	☐	☐	☒

Permission

Statistics

Business Terms Mapping

Shortcut

Comment

Volumetrics

SQL

Style

Icon

Object Creation Order

Whi

Attributes

Name Not In Sync

Comment Not In Sync

Collections

Attributes Not In Sync (Allow Add)

Attributes Not In Sync (Allow Delete)

Close

Cancel

Details...

Book

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Skills 101 Mode

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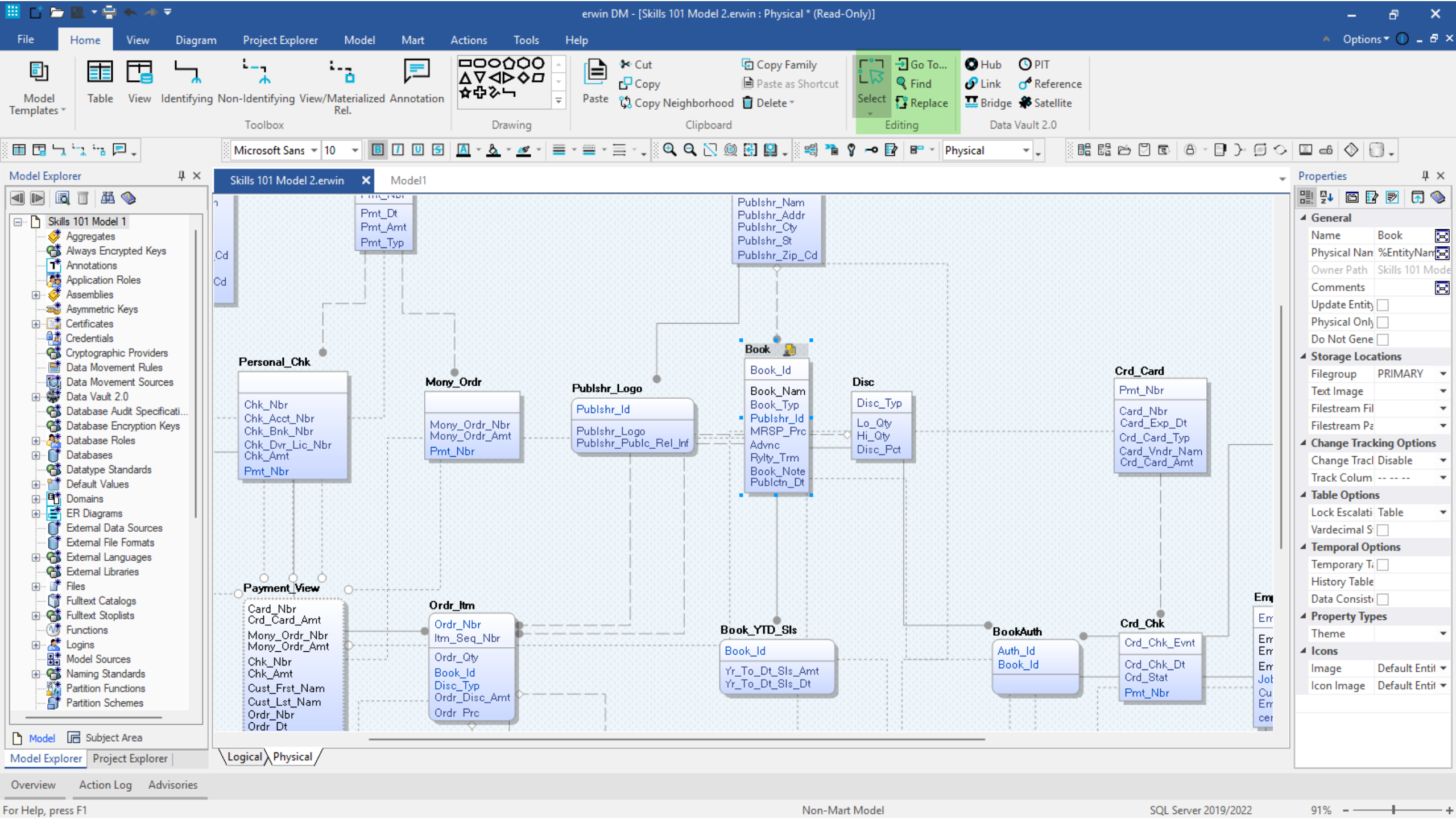
Default Enti

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

Non-Mart Model

SQL Server 2019/2022

91%





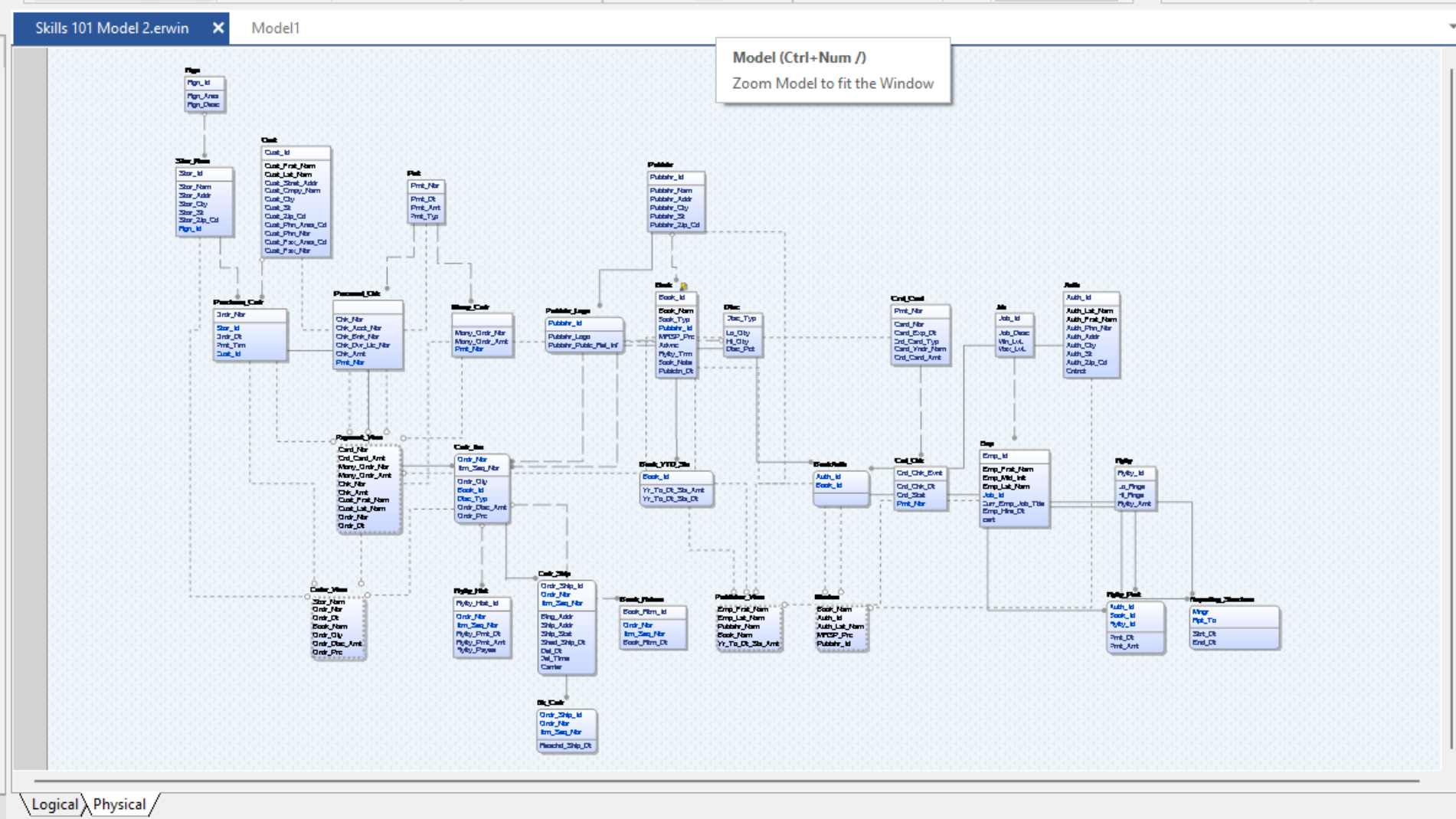
View Tab

Model Explorer

Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Database Audit Specificati...
 - Database Encryption Keys
 - Database Roles
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - External Data Sources
 - External File Formats
 - External Languages
 - External Libraries
 - Files
 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
 - Naming Standards
 - Partition Functions
 - Partition Schemes

Model Explorer | Project Explorer



Properties

Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Note	Information
Physical Not	IDEF1x
Current ER D	Physical
Current Subj	
Current DSM	
Current NSM	
Allow Manua	☒
Unique Nam	Not Unique
Is NSM Optic	☐
Defaults	
Non-Key Att	Null
Non-Identify	Nulls Allowe
Theme	Default Thei
Use Data Typ	☐
Enforce Relat	☒
Font	
Font Color	
Font Bold	☒

- Zoom In Ctrl+Num +
- Zoom Out Ctrl+Num -
- Model Ctrl+Num /**
- Selection

Model (Ctrl+Num /)

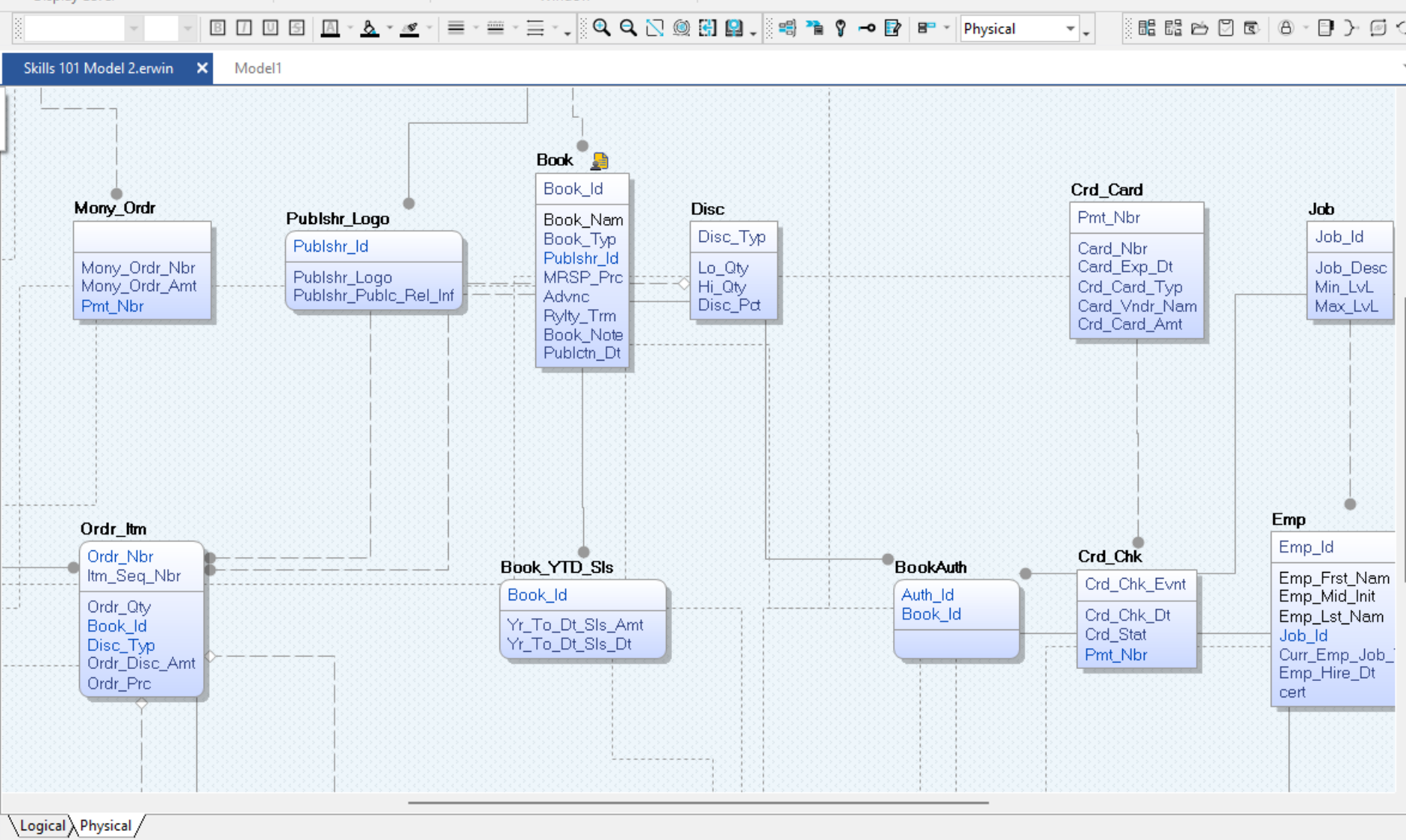
Zoom Model to fit the Window

- Always Encrypted Keys
- Annotations
- Application Roles
- Assemblies
- Asymmetric Keys
- Certificates
- Credentials
- Cryptographic Providers
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Database Audit Specificati...
- Database Encryption Keys
- Database Roles
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- Datatype Standards
- Default Values
- Domains
- ER Diagrams
- External Data Sources
- External File Formats
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- External Libraries
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- Fulltext Catalogs
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- Functions
- Logins
- Model Sources
- Naming Standards
- Partition Functions
- Partition Schemes

Model Subject Area

Model Explorer | Project Explorer

Overview Action Log Advisories



Properties

General

Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Note	Information ▼
Physical Note	IDEF1x ▼
Current ER D	Physical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐

Defaults

Non-Key Attribute	Null ▼
Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒

Font

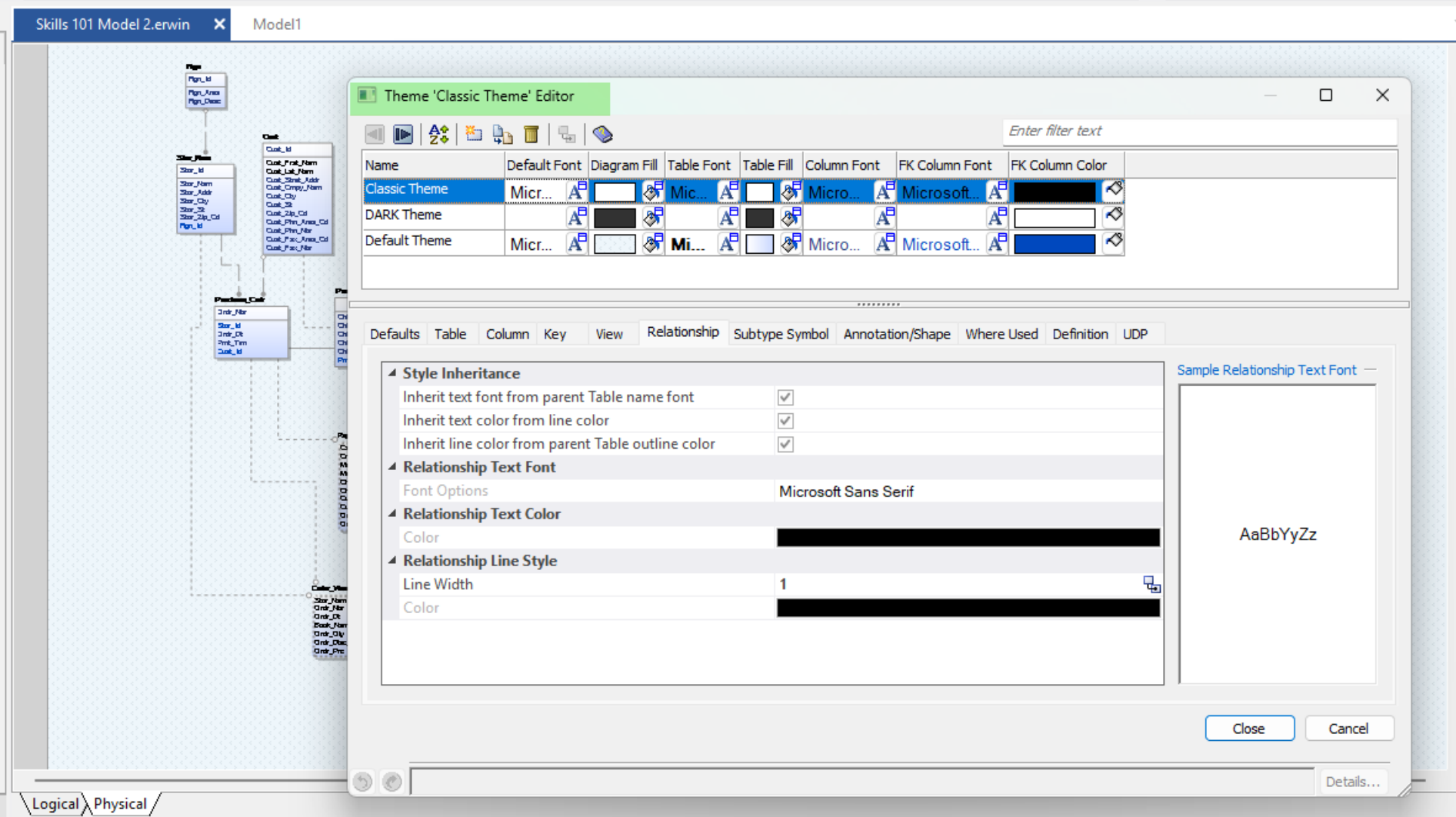
Font Color	...
Font Bold	☒

Figure 10-10: The ribbon of the Microsoft Word 2010 interface.

The screenshot shows the 'Model Explorer' pane in SQL Server Enterprise Manager. The tree view displays the following items under 'Skills 101 Model 1':

- Aggregates
- Always Encrypted Keys
- Annotations
- Application Roles
- Assemblies
- Asymmetric Keys
- Certificates
- Credentials
- Cryptographic Providers
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Database Audit Specifications
- Database Encryption Keys
- Database Roles
- Databases
- Datatype Standards
- Default Values
- Domains
- ER Diagrams
- External Data Sources
- External File Formats
- External Languages
- External Libraries
- Files
- Fulltext Catalogs
- Fulltext Stoplists
- Functions
- Logins
- Model Sources
- Naming Standards
- Partition Functions
- Partition Schemes

The 'Model Explorer' tab is active, and the 'Subject Area' is selected.



Properties

General

Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Note	Information ▼
Physical Note	IDEF1x ▼
Current ER D	Physical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐

Defaults

Non-Key Attribute	Null ▼
Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒

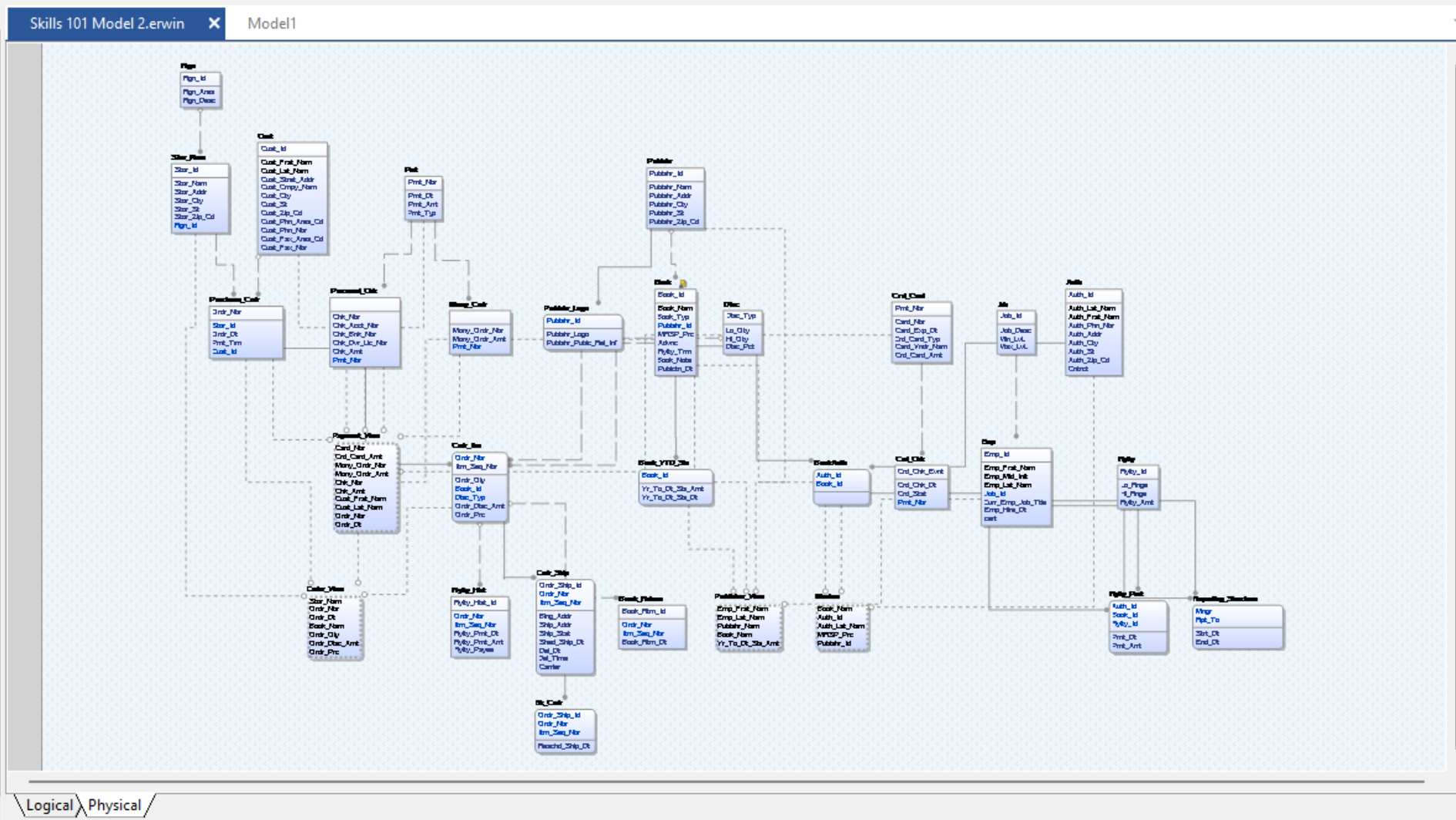
Font

Font Color	 ...
Font Bold	☒

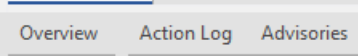
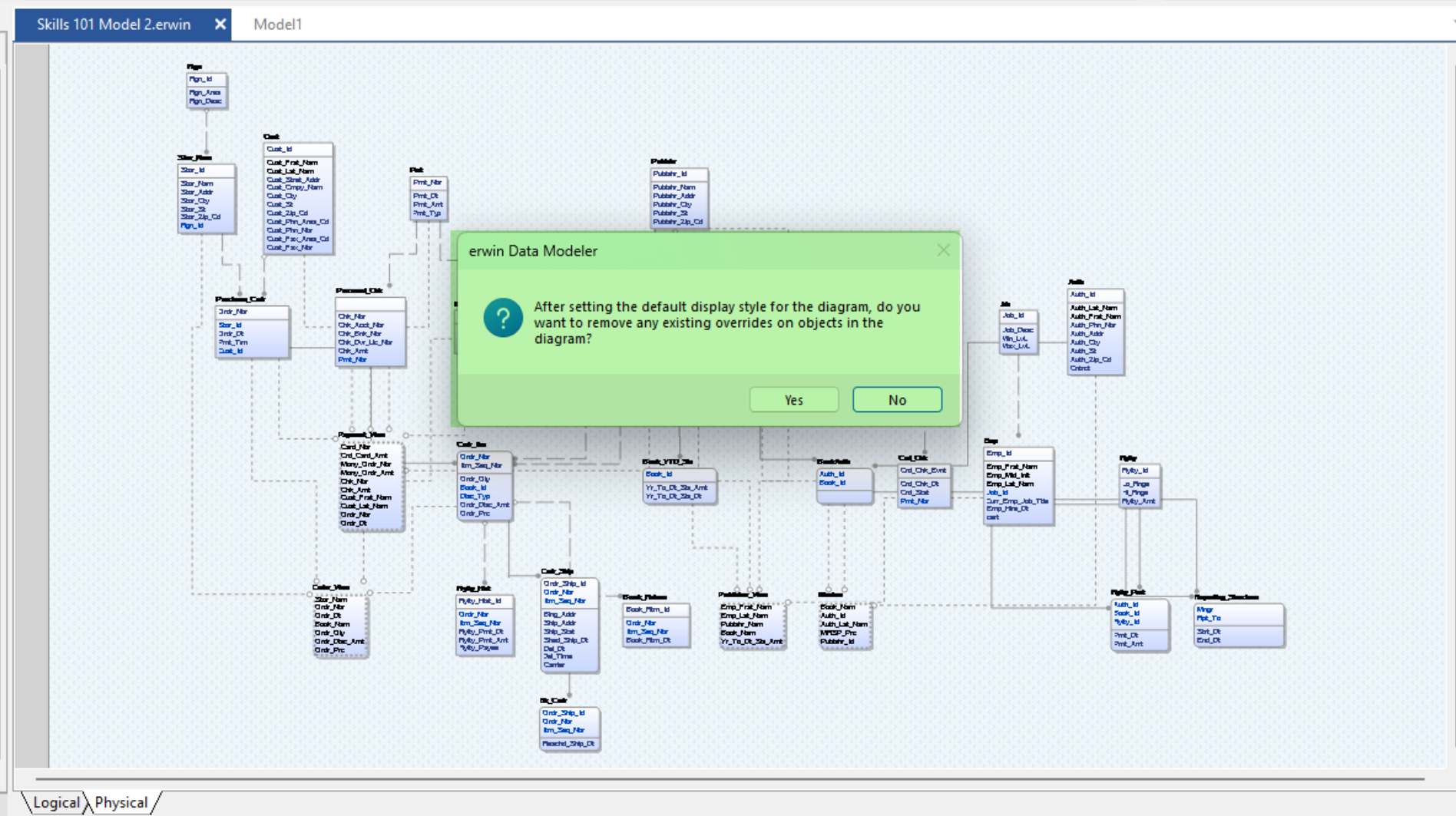
Model Explorer

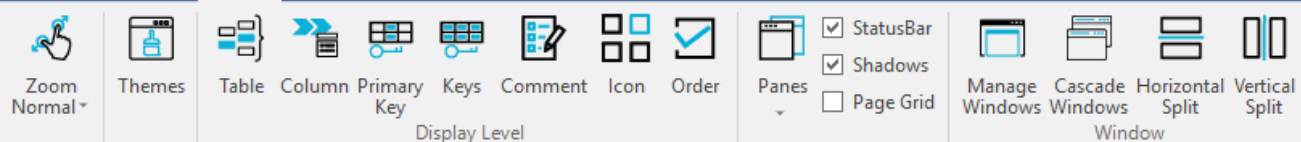
- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Database Audit Specifications
 - Database Encryption Keys
 - Database Roles
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 - Datatype Standards
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 - Domains
 - ER Diagrams
 - External Data Sources
 - External File Formats
 - External Languages
 - External Libraries
 - Files
 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
 - Naming Standards
 - Partition Functions
 - Partition Schemes

Model Explorer Subject Area

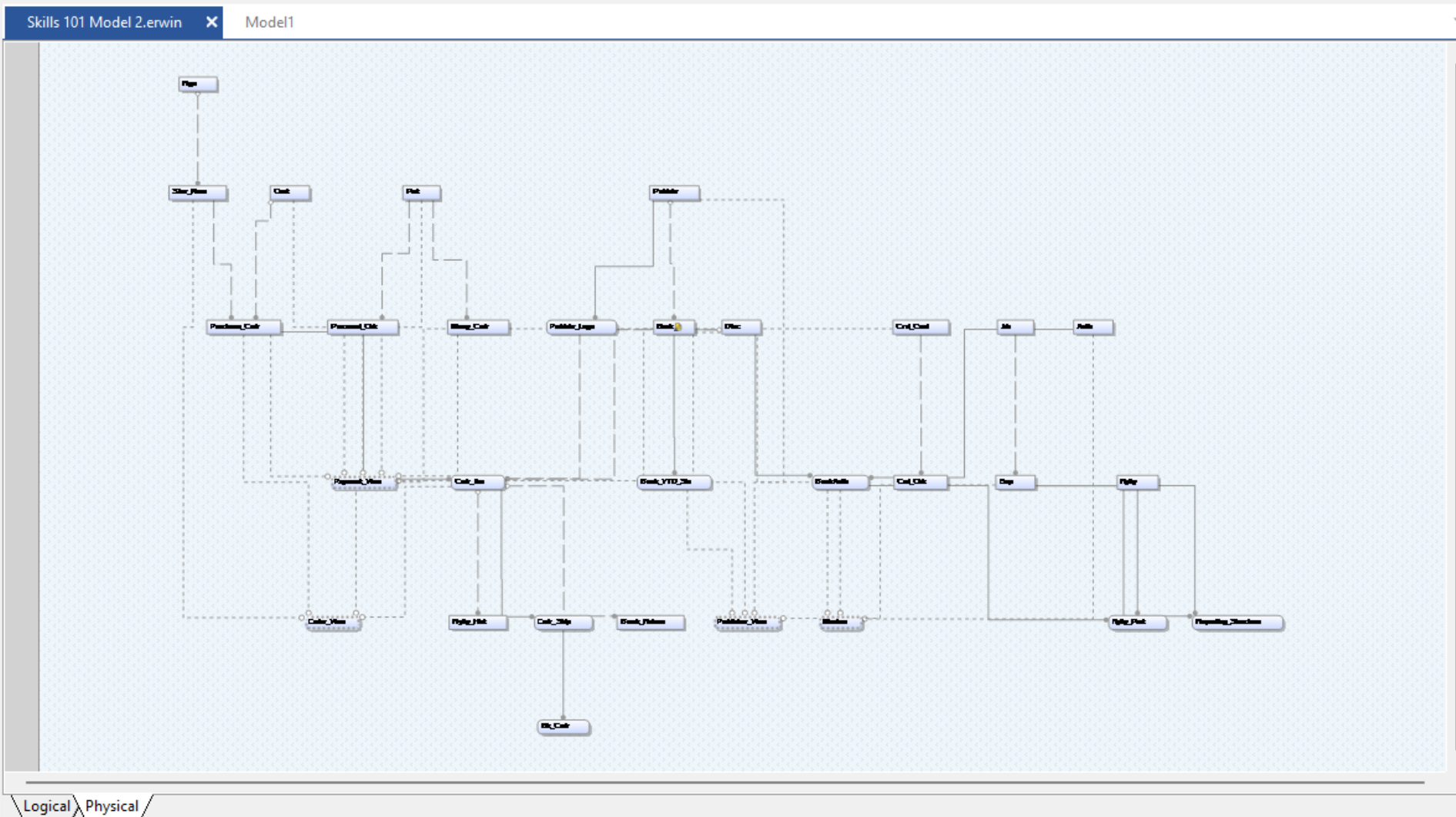
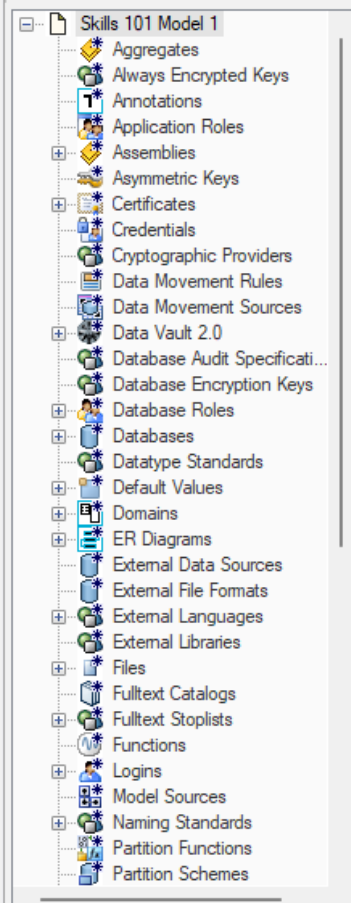


Properties	
General	
Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Note	Information ▼
Physical Note	IDEX1x ▼
Current ER D	Physical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐
Defaults	
Non-Key Attribute	Null ▼
Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒
Font	
Font Color	 ...
Font Bold	☒

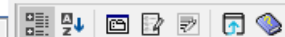




Model Explorer



Properties



General

Name	Skills 101 M
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Author	
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Definition	
Type	Logical/Physical

type	Logical/Physical
Logical Note	Information

Logical Notation	Information
Physical Notation	IDEF1x

Current ER D	Physical	
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Current Subject

Current DSM	
Current DSM	

Current NSM	
Allow Manus	

Allow Manual	☐
Unique Name	Not Unique

Is NSM Optic	☐
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Defaults

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Non-Identify Nulls Allowe ▾

Theme	Default Theme ▼
...	...

Use Data Typ	☐
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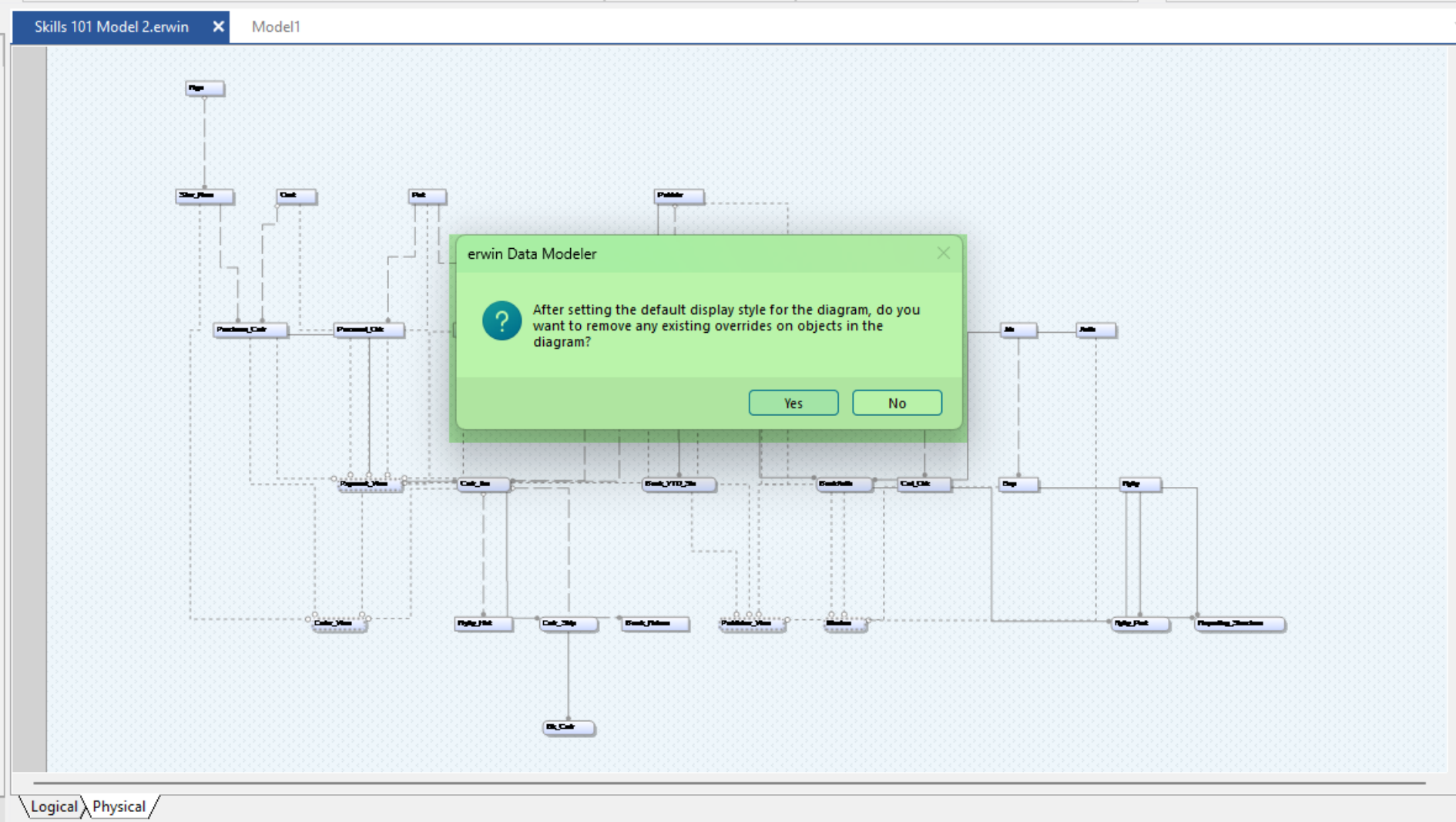
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The screenshot displays the SQL Server Enterprise Manager interface. The 'Model Explorer' pane on the left shows a tree view of the 'Skills 101 Model 1' database. The tree is expanded, revealing a comprehensive list of database objects. At the bottom of the interface, the 'Model Explorer' tab is selected, and the 'Subject Area' is visible.

Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Database Audit Specifications
 - Database Encryption Keys
 - Database Roles
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - External Data Sources
 - External File Formats
 - External Languages
 - External Libraries
 - Files
 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
 - Naming Standards
 - Partition Functions
 - Partition Schemes

Model Explorer | **Subject Area**



Properties

General

Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Note	Information ▼
Physical Note	IDEX1x ▼
Current ER D	Physical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐

Defaults

Non-Key Attribute	Null ▼
Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒

Font

Font Color	...
Font Bold	☒

The screenshot displays the IBM Data Architect software interface. The main workspace shows a logical data model for 'Skills 101 Model 2.erwin'. The model includes several entities and their relationships:

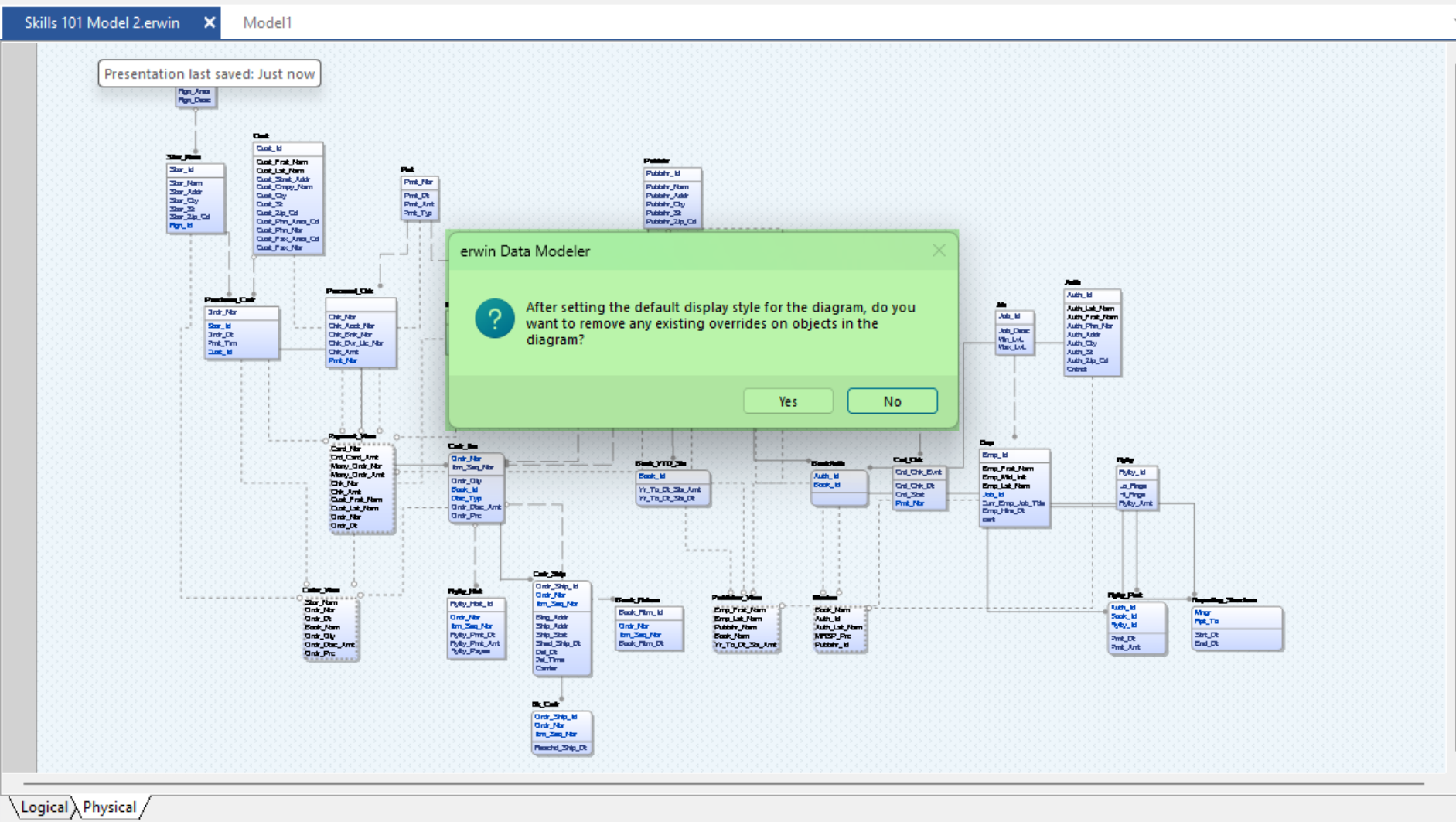
- Entities:** Plan, Star_Plan, Cost, Pub, Publisher, Book, Disc, Civil_Court, Job, and others.
- Relationships:** Various relationships are defined between these entities, including one-to-many and many-to-many connections.
- Properties Panel:** The right sidebar shows the properties for the selected entity, including Name, Author, Definition, Type, Logical Note, Physical Note, Current ER D, Current Subject, Current DSM, Current NSM, Allow Manual, Unique Name, Is NSM Optic, Defaults, Non-Key Attribute, Non-Identify, Theme, Use Data Type, Enforce Relationship, Font Color, and Font Bold.
- Model Explorer:** The left sidebar shows a tree view of the model explorer, including Aggregates, Always Encrypted Keys, Annotations, Application Roles, Assemblies, Asymmetric Keys, Certificates, Credentials, Cryptographic Providers, Data Movement Rules, Data Movement Sources, Data Vault 2.0, Database Audit Specificati..., Database Encryption Keys, Database Roles, Databases, Datatype Standards, Default Values, Domains, ER Diagrams, External Data Sources, External File Formats, External Languages, External Libraries, Files, Fulltext Catalogs, Fulltext Stoplists, Functions, Logins, Model Sources, Naming Standards, Partition Functions, and Partition Schemes.

Model Explorer

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 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Database Audit Specifications
 - Database Encryption Keys
 - Database Roles
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - External Data Sources
 - External File Formats
 - External Languages
 - External Libraries
 - Files
 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
 - Naming Standards
 - Partition Functions
 - Partition Schemes

Model Subject Area

Model Explorer Project Explorer



Properties

General

Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Notes	Information ▼
Physical Notes	IDEF1x ▼
Current ER Diagram	Physical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐

Defaults

Non-Key Attribute	Null ▼
Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒

Font

Font Color	...
Font Bold	☒

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

Zoom Normal

Themes

Table

Column

Primary Key

Keys

Comment

Icon

Order

Display Level

StatusBar

Shadows

Page Grid

Panes

Manage Windows

Cascade Windows

Horizontal Split

Vertical Split

Window

Physical

Model Explorer

Skills 101 Model 2.erwinModel1

Model Explorer

Project Explorer

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LogicalPhysical

Personal_Chk

Pmt_Nbr

Mony_Ordr

Pmt_Nbr

Publsr_Logo

Publsr_Id

Book

Book_Id

Book_Nam

Publsr_Id

Disc

Disc_Typ

Payment_View

Ordr_Itm

Ordr_Nbr

Itm_Seq_Nbr

Book_Id

Disc_Typ

Book_YTD_Sls

Book_Id

BookAuth

Auth_Id

Book_Id

Properties

General

NameSkills 101 M

Author

Definition

TypeLogical/Physica

Logical NotInformation

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Current ER DPhysical

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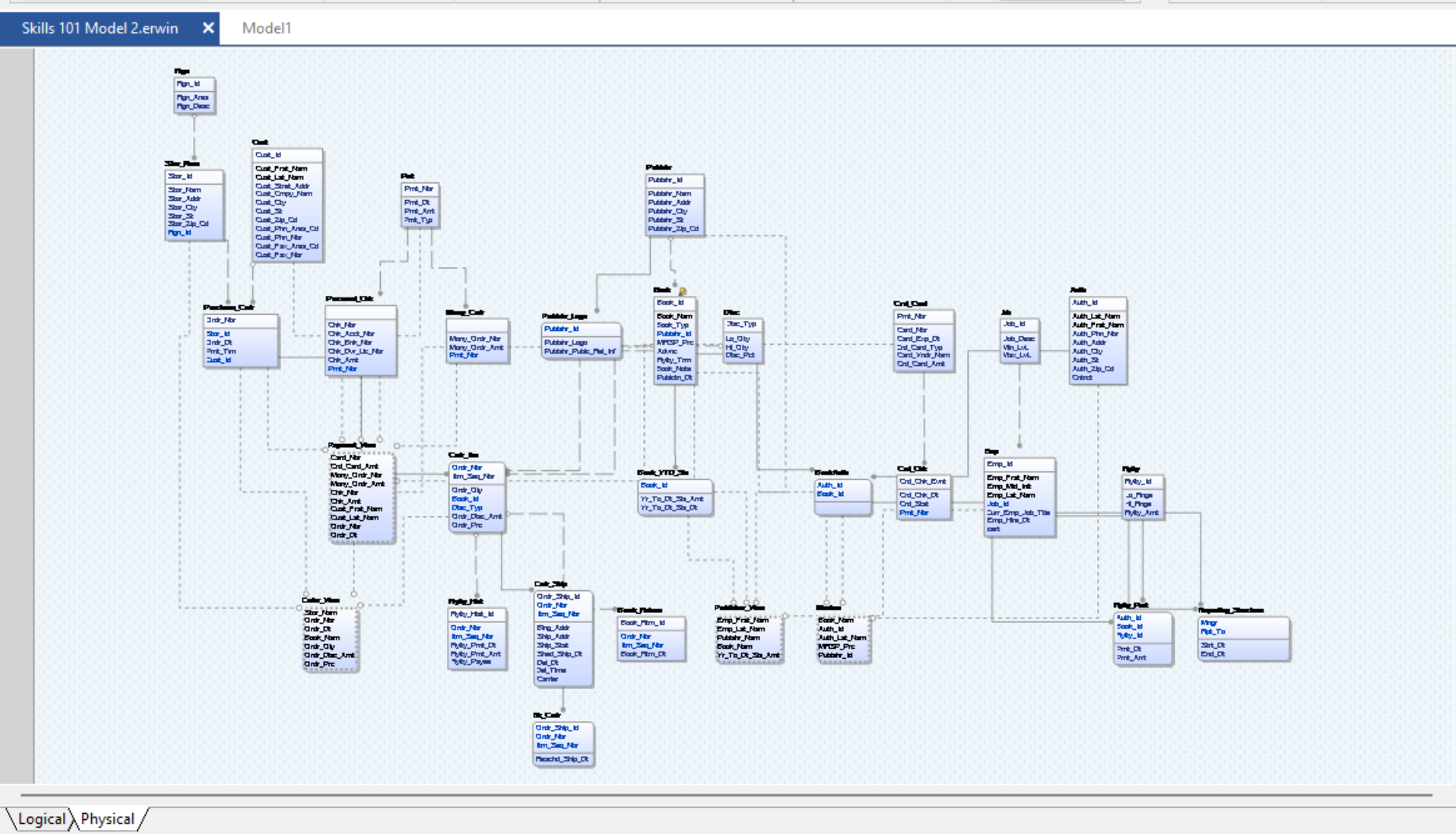
Font Bold

For Help, press F1Non-Mart ModelSQL Server 2019/2022101%

Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
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 - Database Audit Specifications
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 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
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 - Partition Functions
 - Partition Schemes

Model Explorer | Project Explorer



Properties	
General	
Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Physical Note	Information ▼
Physical Not:	IDEF1x ▼
Current ER D	Physical ▼
Current Subj	▼
Current DSM	▼
Current NSM	▼
Allow Manuz	☒
Unique Nam	Not Unique ▼
Is NSM Optic	☐
Defaults	
Non-Key Atti	Null ▼
Non-Identify	Nulls Allowe ▼
Theme	Default Thei ▼
Use Data Typ	☐
Enforce Relat	☒
Font	
Font Color	...
Font Bold	☒

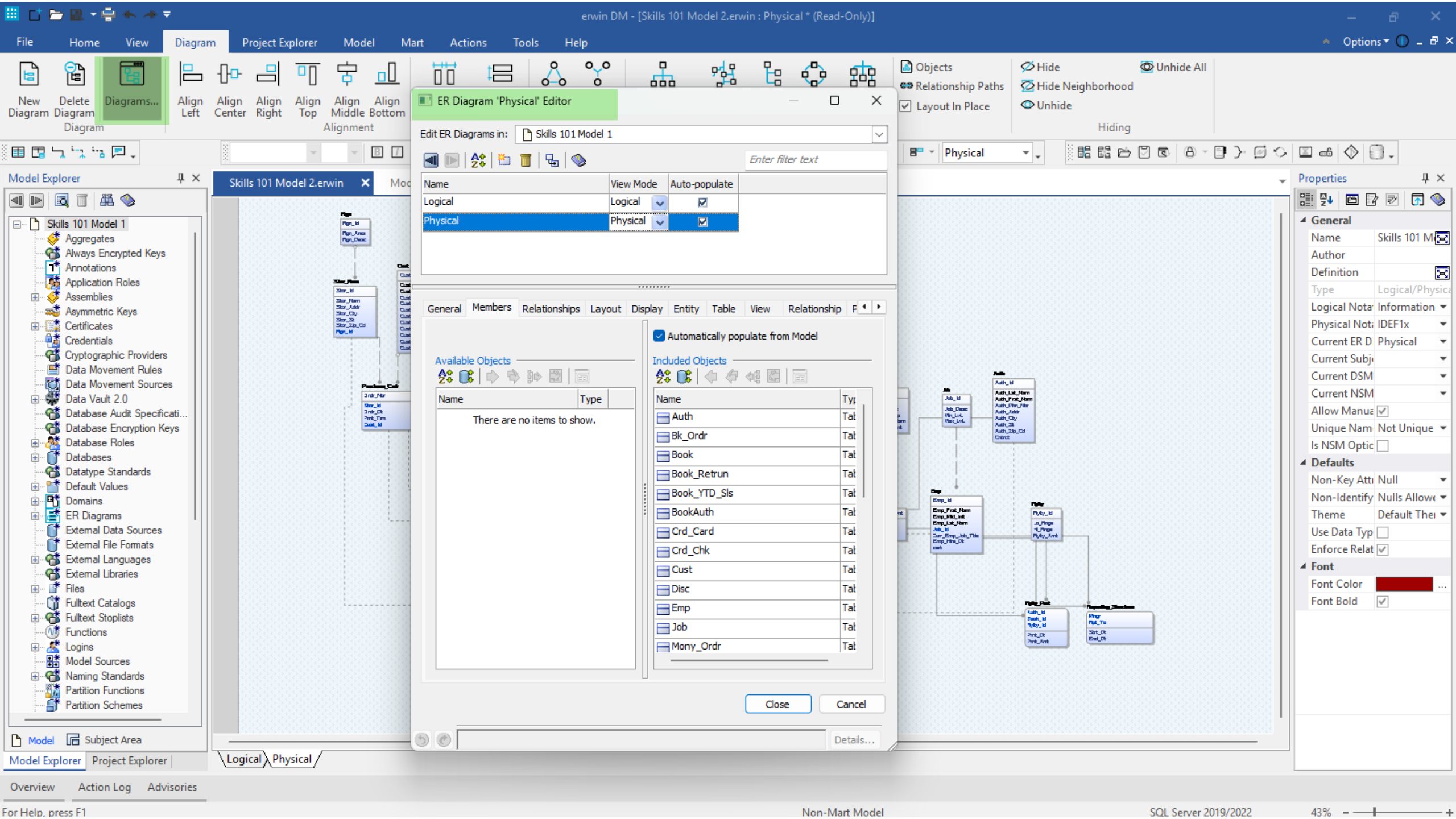




Diagram Tab

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Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
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 - Database Audit Specificati...
 - Database Encryption Keys
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 - Model Sources
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 - Partition Schemes

 Model Subject Area

Model Explorer | Project Explorer

Overview Action Log Advisories

[illegible]

Properties

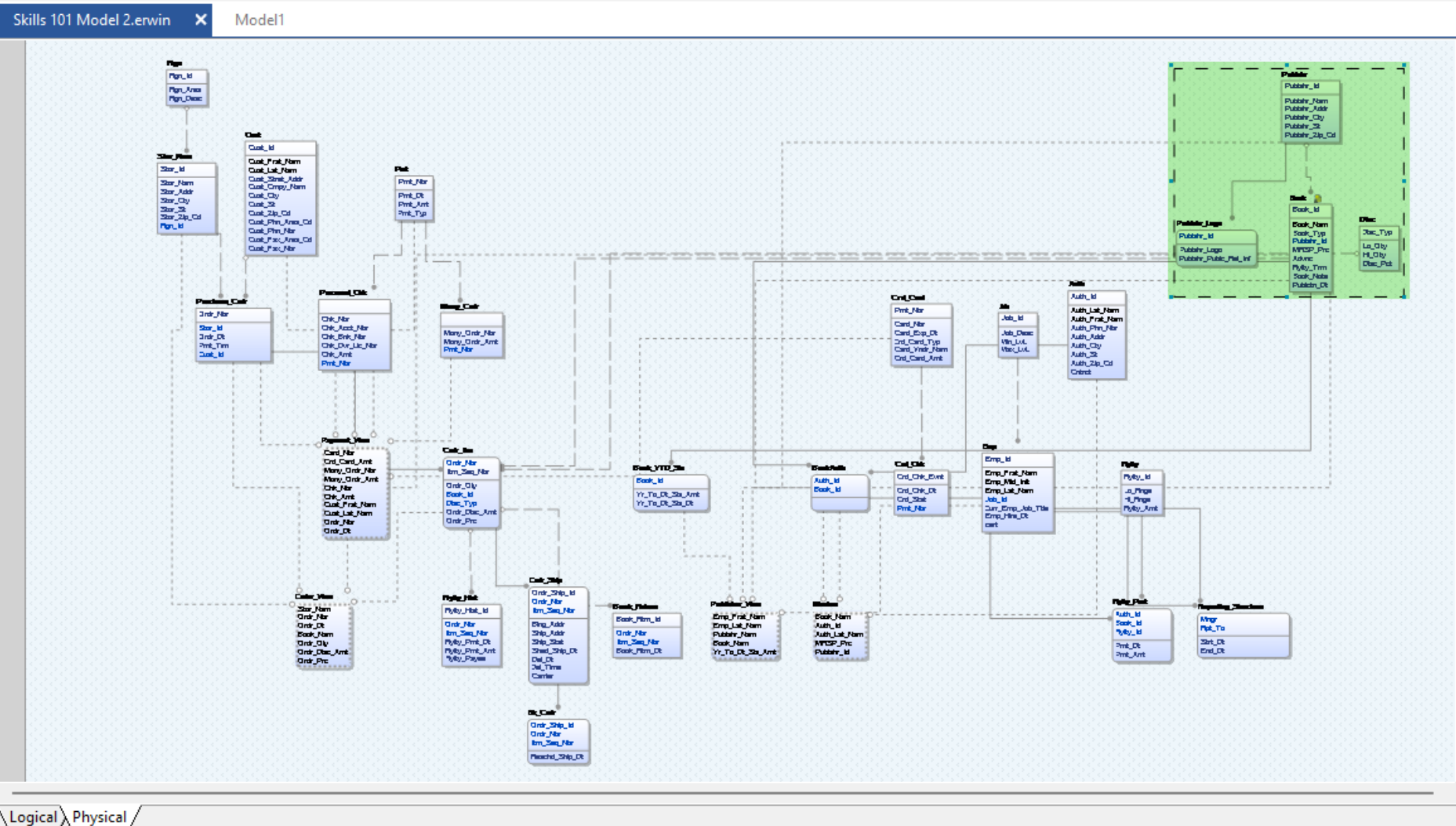
General

Name	Shape_Group
Group Always	☐
Group Color	☐
GroupColor	

Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
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 - Asymmetric Keys
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 - Fulltext Stoplists
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 - Partition Schemes

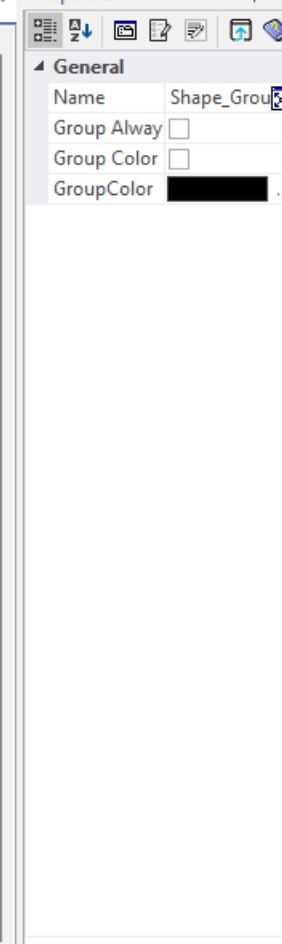
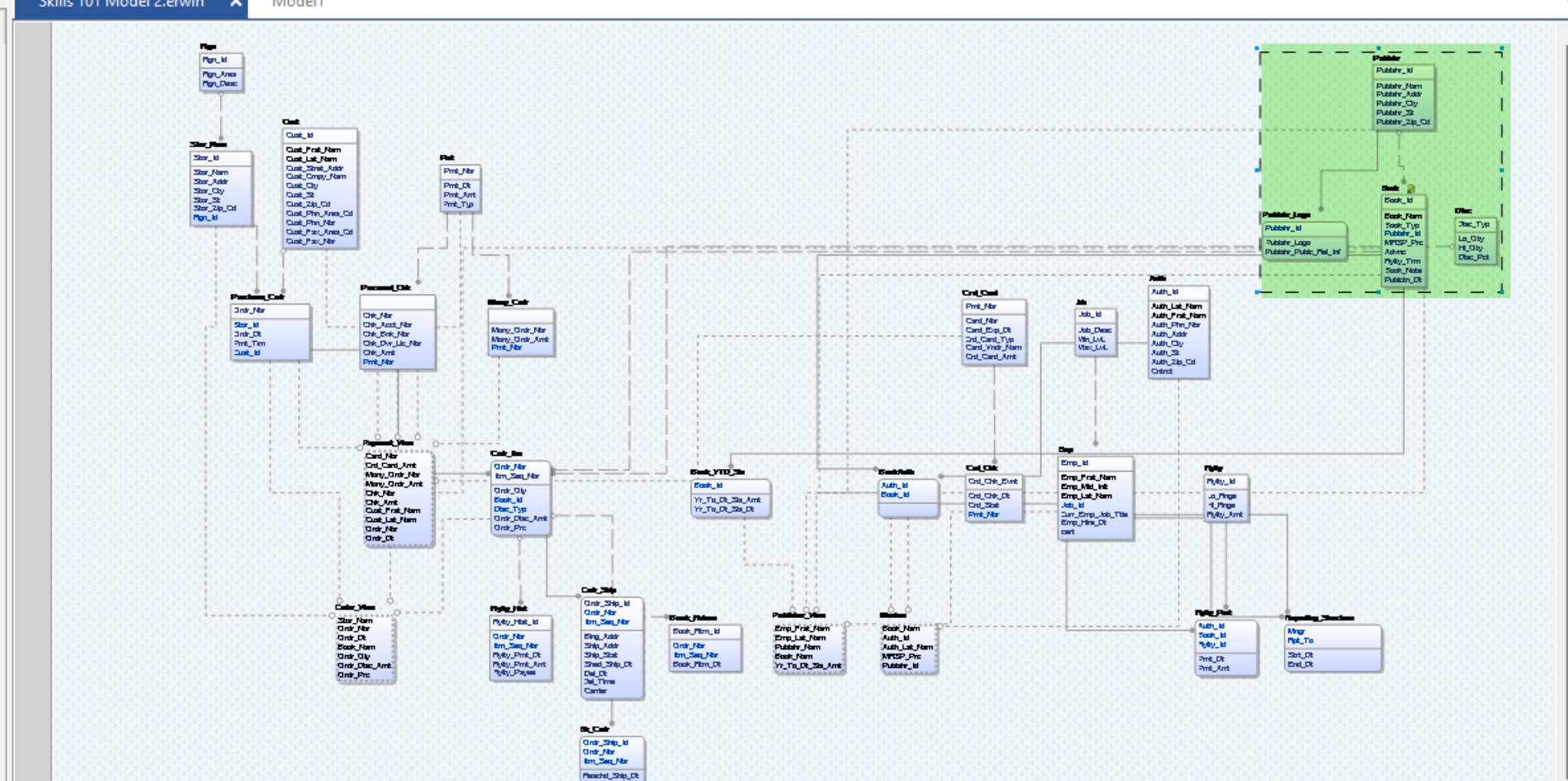
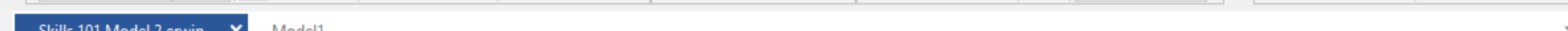
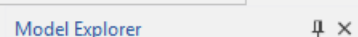
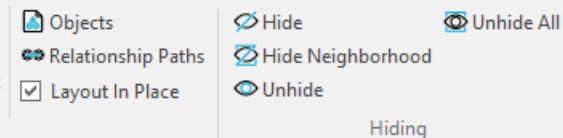
Model Explorer | Subject Area



Properties

General

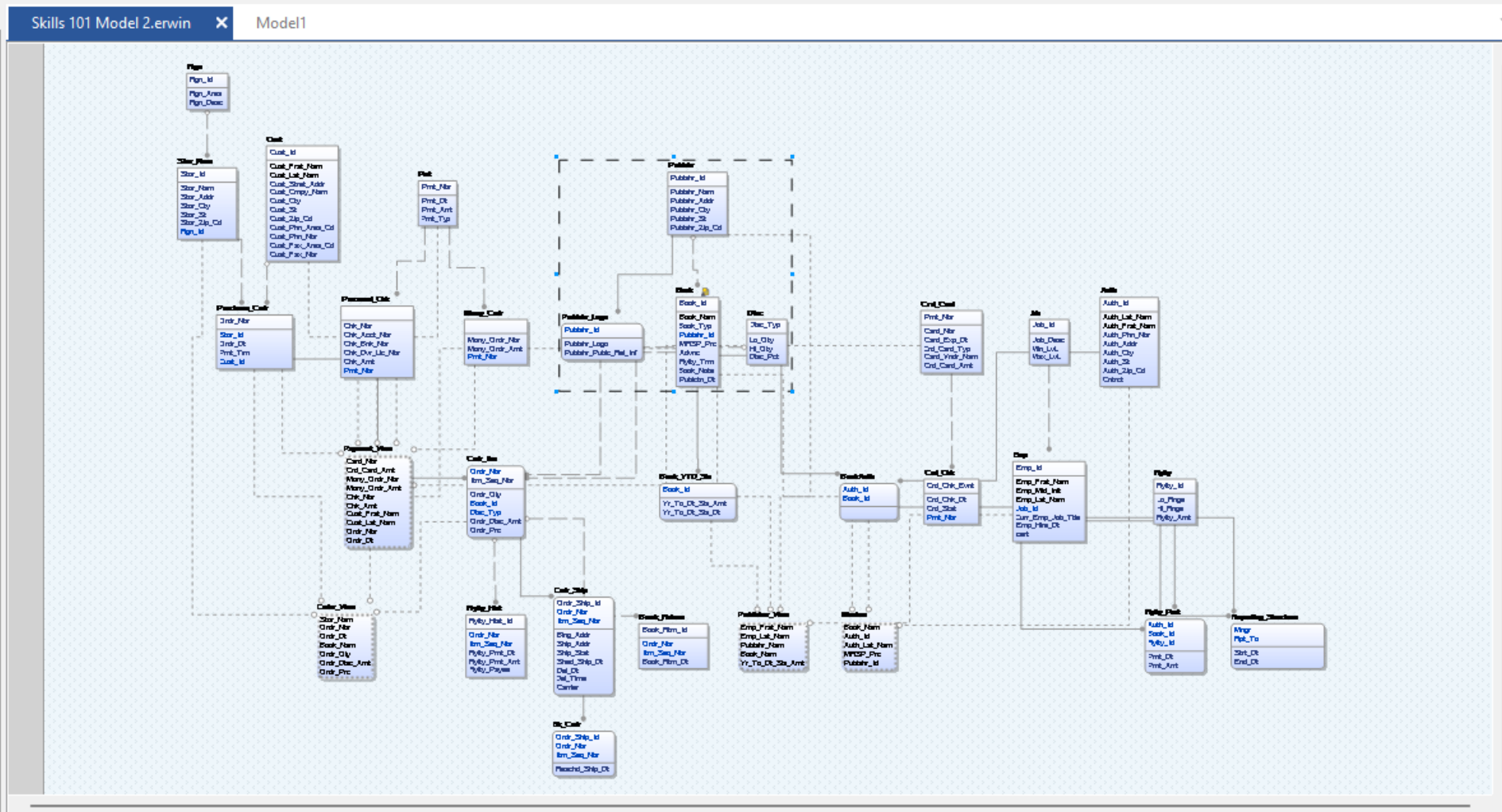
Name	Shape_Group
Group Always	☐
Group Color	☐
GroupColor	

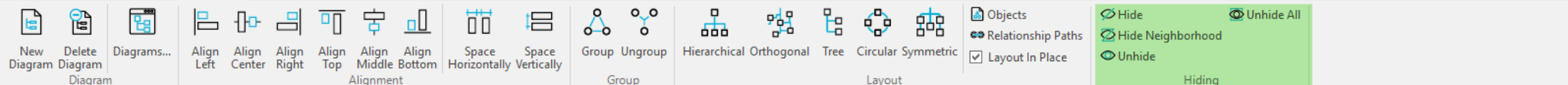


Model Explorer

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 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
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Model Subject Area

[illegible]

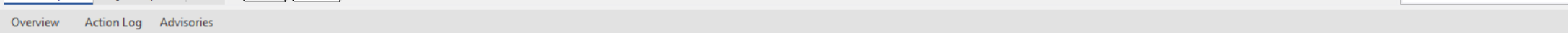
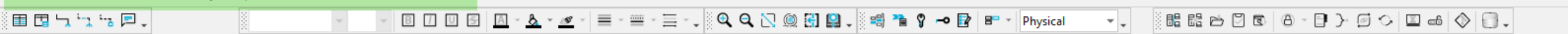


▼ Properties

General	
Name	Skills 101 M...
Author	
Definition	
Type	Logical/Physical
Logical Note	Information
Physical Note	IDEF1x
Current ER D	Physical
Current Subject	
Current DSM	
Current NSM	
Allow Manual	☒
Unique Name	Not Unique
Is NSM Option	☐
Defaults	
Non-Key Attribute	Null
Non-Identify	Nulls Allowed
Theme	Default Theme
Use Data Type	☐
Enforce Relationship	☒
Font	
Font Color	 ...
Font Bold	☒



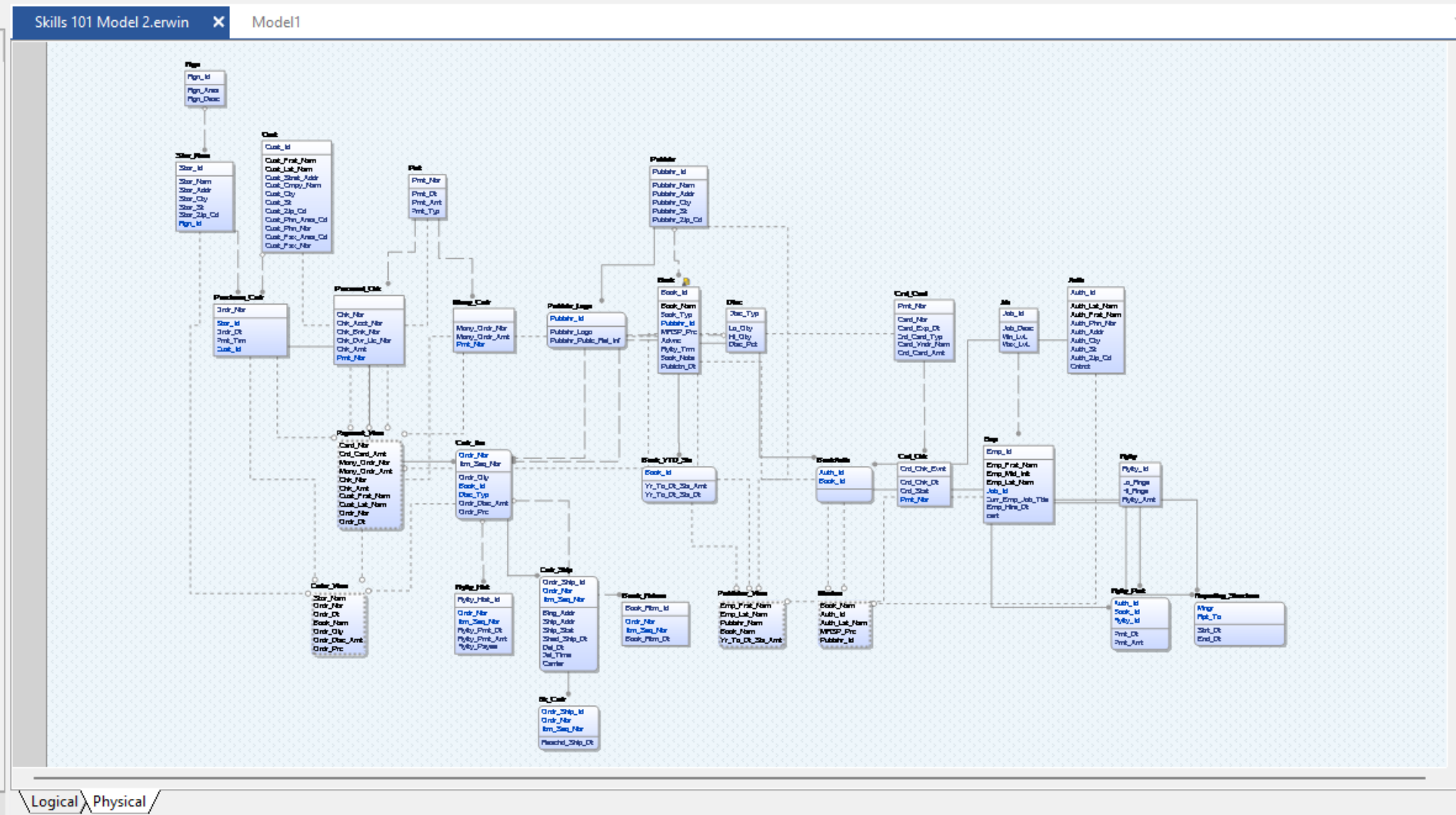
Project Explorer Tab





Model Tab

The screenshot displays the 'Model Explorer' pane in SQL Server Enterprise Manager. The tree view is organized under the 'Skills 101 Model 1' database. The 'Annotations' folder is expanded, revealing a list of annotations including 'Annotation 1', 'Annotation 2', 'Annotation 3', 'Annotation 4', 'Annotation 5', 'Annotation 6', 'Annotation 7', 'Annotation 8', 'Annotation 9', 'Annotation 10', 'Annotation 11', 'Annotation 12', 'Annotation 13', 'Annotation 14', 'Annotation 15', 'Annotation 16', 'Annotation 17', 'Annotation 18', 'Annotation 19', 'Annotation 20', 'Annotation 21', 'Annotation 22', 'Annotation 23', 'Annotation 24', 'Annotation 25', 'Annotation 26', 'Annotation 27', 'Annotation 28', 'Annotation 29', 'Annotation 30', 'Annotation 31', 'Annotation 32', 'Annotation 33', 'Annotation 34', 'Annotation 35', 'Annotation 36', 'Annotation 37', 'Annotation 38', 'Annotation 39', 'Annotation 40', 'Annotation 41', 'Annotation 42', 'Annotation 43', 'Annotation 44', 'Annotation 45', 'Annotation 46', 'Annotation 47', 'Annotation 48', 'Annotation 49', 'Annotation 50', 'Annotation 51', 'Annotation 52', 'Annotation 53', 'Annotation 54', 'Annotation 55', 'Annotation 56', 'Annotation 57', 'Annotation 58', 'Annotation 59', 'Annotation 60', 'Annotation 61', 'Annotation 62', 'Annotation 63', 'Annotation 64', 'Annotation 65', 'Annotation 66', 'Annotation 67', 'Annotation 68', 'Annotation 69', 'Annotation 70', 'Annotation 71', 'Annotation 72', 'Annotation 73', 'Annotation 74', 'Annotation 75', 'Annotation 76', 'Annotation 77', 'Annotation 78', 'Annotation 79', 'Annotation 80', 'Annotation 81', 'Annotation 82', 'Annotation 83', 'Annotation 84', 'Annotation 85', 'Annotation 86', 'Annotation 87', 'Annotation 88', 'Annotation 89', 'Annotation 90', 'Annotation 91', 'Annotation 92', 'Annotation 93', 'Annotation 94', 'Annotation 95', 'Annotation 96', 'Annotation 97', 'Annotation 98', 'Annotation 99', 'Annotation 100'. The 'Annotations' folder is highlighted with a blue selection bar. The 'Model Explorer' pane is the active view, and the 'Subject Area' pane is visible at the bottom.



Properties

General

Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Note	Information ▼
Physical Note	IDEF1x ▼
Current ER D	Physical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐

Defaults

Non-Key Attribute	Null ▼
Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒

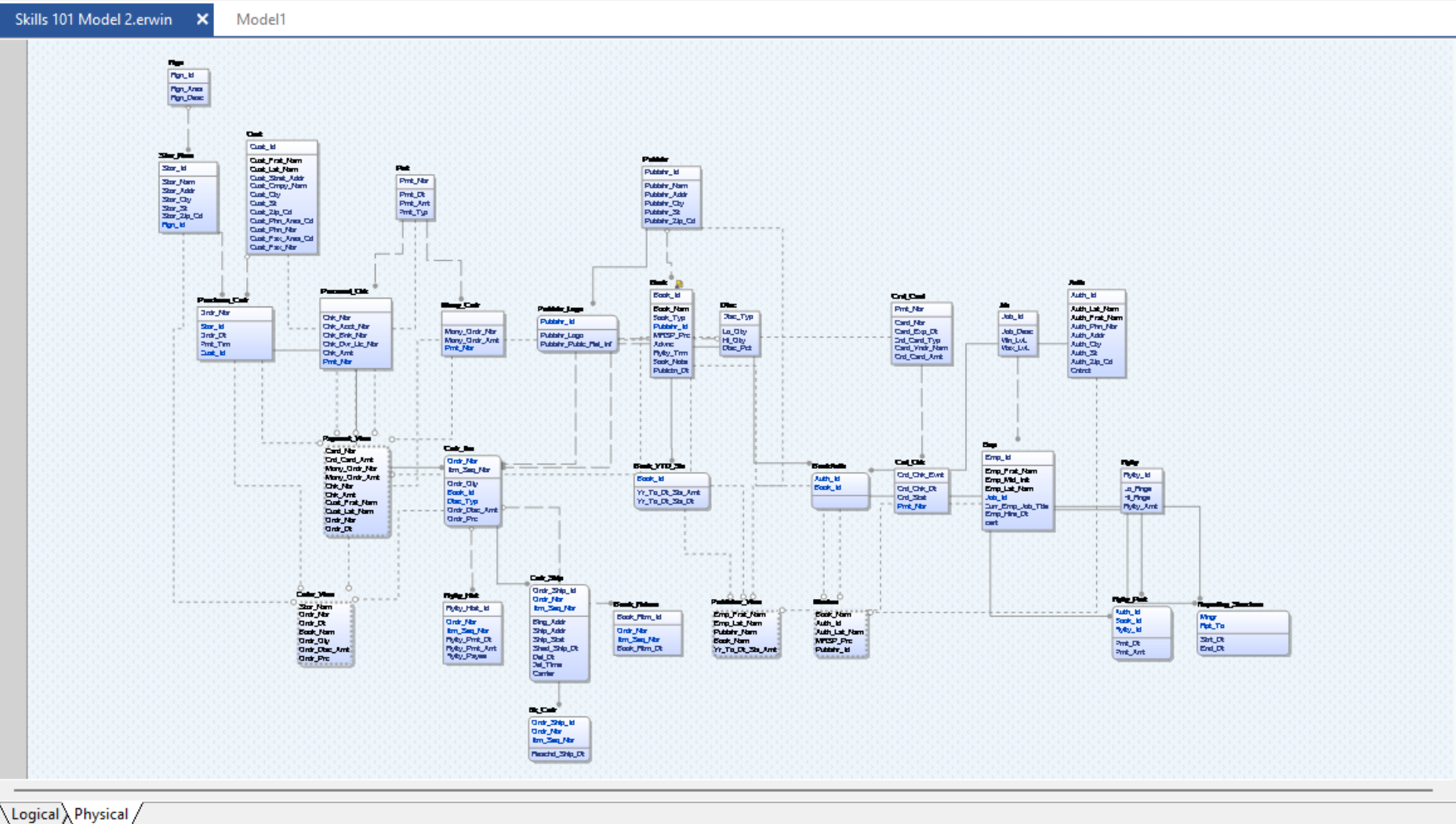
Font

Font Color	 ...
Font Bold	☒

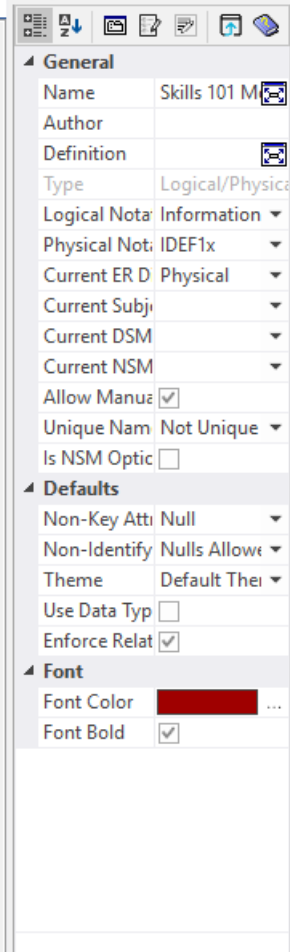
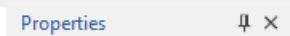
Model Explorer

- Skills 101 Model 1
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 - Always Encrypted Keys
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 - Database Audit Specificati...
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 - Fulltext Stoplists
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Model Explorer Project Explorer



Properties	
General	
Name	Skills 101 M
Author	
Definition	
Type	Logical/Physical
Logical Note	Information ▼
Physical Note	IDEF1x ▼
Current ER D	Physical ▼
Current Subject	▼
Current DSM	▼
Current NSM	▼
Allow Manual	☒
Unique Name	Not Unique ▼
Is NSM Option	☐
Defaults	
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Non-Identify	Nulls Allowed ▼
Theme	Default Theme ▼
Use Data Type	☐
Enforce Relationship	☒
Font	
Font Color	...
Font Bold	☒



erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

File

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Diagram

Project Explorer

Model

Mart

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RI Trigger Template

Triggers...

Validation Rule

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Target - SQL Server

Model Source Editor

Subject Area Editor

User Defined Properties

Model Properties

Model Explorer

Skills 101 Model 1

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- Annotations
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- Database Encryption Keys
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Model Explorer

Project Explorer

Overview

Action Log

Advisories

Skills 101 Model 2.erwin

Model1

Model Sources Properties

Source:

New

Name:

Delete

General

Definition

Where Used

UDP

Name Mapping Options

Source Model

Model:

...

Synchronization

Last Synced:

Sync...

Close

Cancel

Details...

Properties

General

Name

Skills 101 M

Author

Definition

Type

Logical/Physical

Logical Notation

Information

Physical Notation

IDEF1x

Current ER Diagram

Physical

Current Subject Area

Current Data Source Model

Current NSM

Allow Manual

Unique Name

Not Unique

Is NSM Option

Defaults

Non-Key Attribute

Null

Non-Identify

Nulls Allowed

Theme

Default Theme

Use Data Type

Enforce Relationship

Font

Font Color

Font Bold

Logical

Physical

Non-Mart Model

SQL Server 2019/2022

43%

For Help, press F1

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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BookAuthor

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Credit_Card

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Physical Only

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Const_Prost_Nam

Const_Lat_Nam

Const_Street_Addr

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Const_Fac_Area_Col

Const_Fac_Nbr

Processing_Cat

Trnk_Nbr

Star_Id

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Prnk_Tim

Const_Id

Prnk_Nbr

CHK_Nbr

CHK_Accs_Nbr

CHK_Srv_Nbr

CHK_Ovr_Lic_Nbr

CHK_Amt

Prnk_Nbr

Payment_Nam

Card_Nbr

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Always Encrypted Key

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Type: Logical / Physical

Target Server And Version: SQL Server 2019/2022

Model Information

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Skills 101 Model 1

Author

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Notation

Logical Notation

Information Engineering

Physical Notation

IDEF1x

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Data Movement

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erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Unification

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Non-Identifying Relationship Null OptionNulls Allowed

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Logical Data TypeCHAR(18)

Physical Data Typechar(18)

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Unification

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TypeLogical/Physical

Logical NotationInformation

Physical NotationIDEF1x

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Current Subject Area

Current Data Source Model

Current Naming Standard

Allow Manual Updates

Unique Name Not Unique

Is Naming Standard Optic

Defaults

Non-Key Attributes NullNull

Non-Identifying Relationship Nulls Allowed

ThemeDefault Theme

Use Data Type

Enforce Relationship Rules

Font

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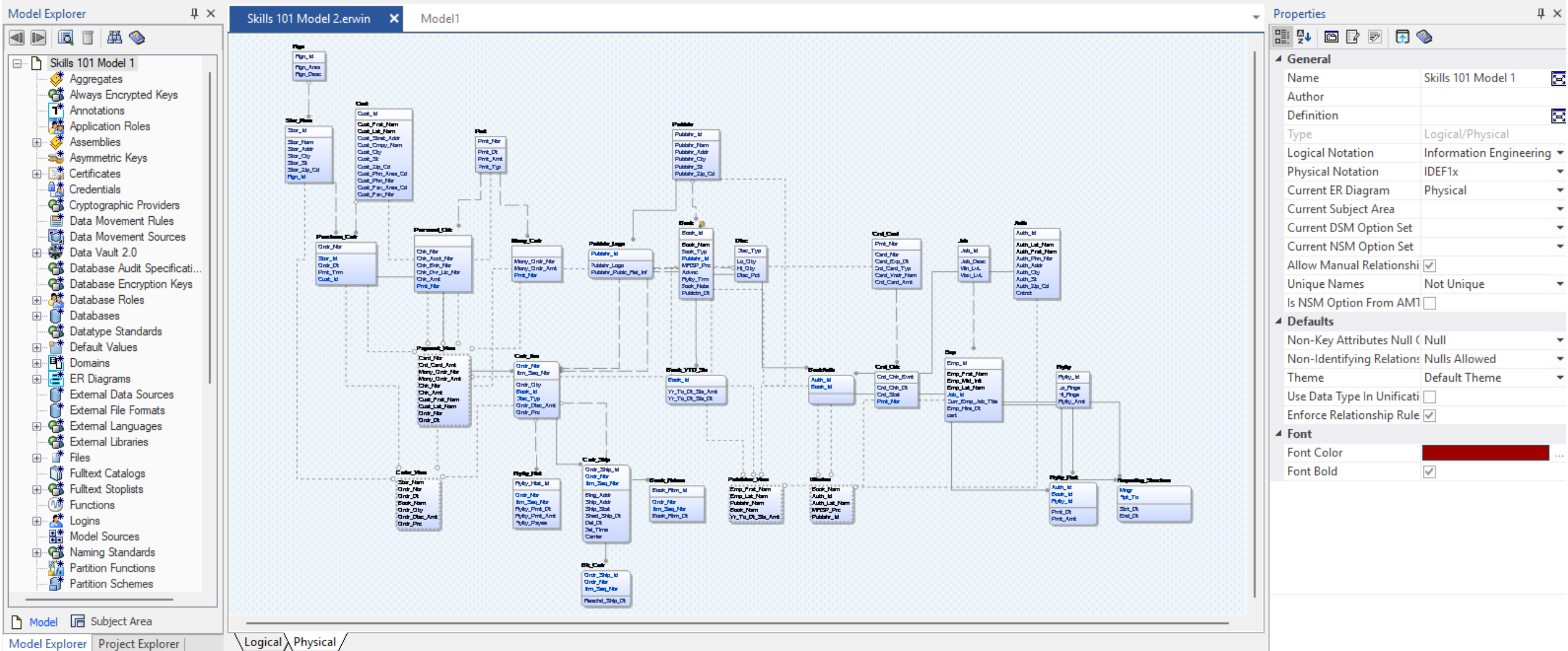
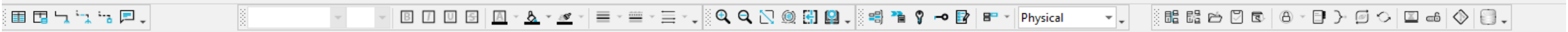
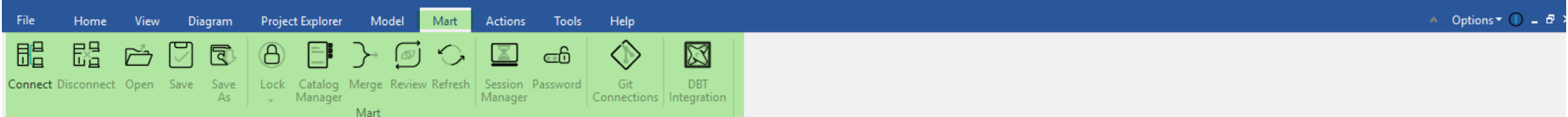
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Mart Tab



erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Author

Definition

TypeLogical/Physical

Logical NotationInformation Engineering

Physical NotationIDEF1x

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Current Subject Area

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Current NSM Option Set

Allow Manual Relationshi

Unique NamesNot Unique

Is NSM Option From AM

Defaults

Non-Key Attributes Null (Null

Non-Identifying RelationsNulls Allowed

ThemeDefault Theme

Use Data Type In Unificati

Enforce Relationship Rule

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Connect to Mart

Server Information

Server Name:

Port:443

Use SSL (https)

Application Name:

MartServer

User Credentials

Authentication:Windows Authentication

User Name:PRODV

Password:

Forgot Password

Recent Connections:

Connect

Cancel

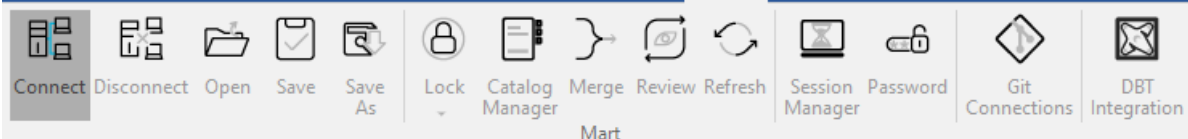
Help

For Help, press F1

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Model Explorer | Project Explorer

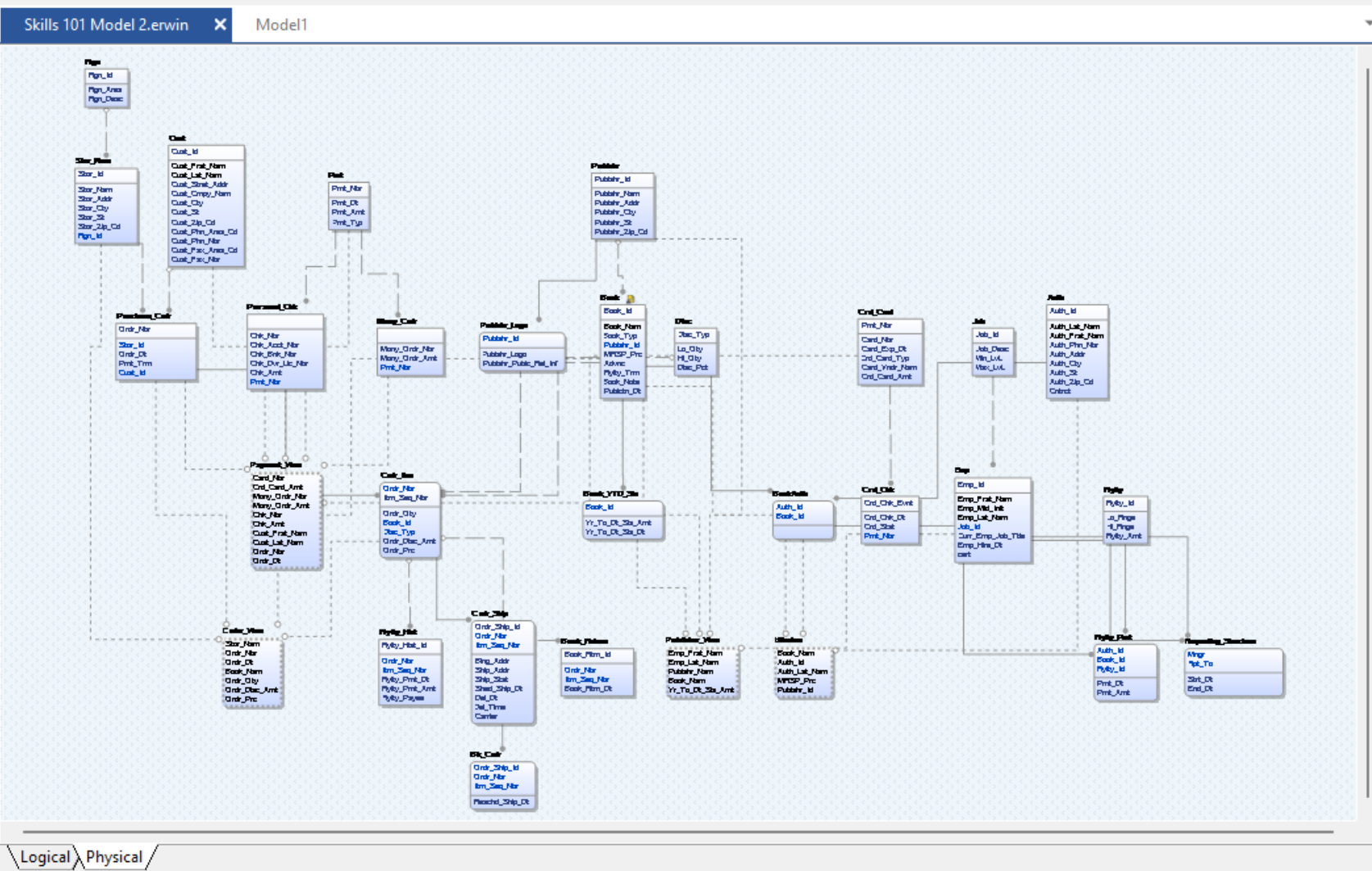
Downloaded from <http://ajphaphysocpharm.sagepub.com/> at 11:01 11 November 2014

[illegible]

Properties

General	
Name	Skills 101 Model 1
Author	
Definition	
Type	Logical/Physical
Logical Notation	Information Engineering
Physical Notation	IDEF1x
Current ER Diagram	Physical
Current Subject Area	
Current DSM Option Set	
Current NSM Option Set	
Allow Manual Relationship	☒
Unique Names	Not Unique
Is NSM Option From AMT	☐
Defaults	
Non-Key Attributes Null	Null
Non-Identifying Relations	Nulls Allowed
Theme	Default Theme
Use Data Type In Unification	☐
Enforce Relationship Rule	☒
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The screenshot displays the 'Model Explorer' pane in SQL Server Enterprise Manager. The tree view is organized under the 'Skills 101 Model 1' database. The 'Model Sources' folder is expanded, revealing a list of sources. The 'Subject Area' source is highlighted. The 'Model Explorer' pane is the active view, and the 'Subject Area' source is the selected item.



Properties

General

Name	Skills 101 Model 1	
Author		
Definition		
Type	Logical/Physical	
Logical Notation	Information Engineering	▼
Physical Notation	IDEF1x	▼
Current ER Diagram	Physical	▼
Current Subject Area		▼
Current DSM Option Set		▼
Current NSM Option Set		▼
Allow Manual Relationship	☒	
Unique Names	Not Unique	▼
Is NSM Option From AMT	☐	

Defaults

Non-Key Attributes Null C	Null	▼
Non-Identifying Relations	Nulls Allowed	▼
Theme	Default Theme	▼
Use Data Type In Unificati	☐	
Enforce Relationship Rule	☒	

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Font Bold	☒	

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Current NSM Option Set

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Unique Names

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Is NSM Option From AM

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Non-Identifying Relation

Nulls Allowed

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Non-Mart Model

andy.mcGovern@que

SQL Server 2019/2022

43%

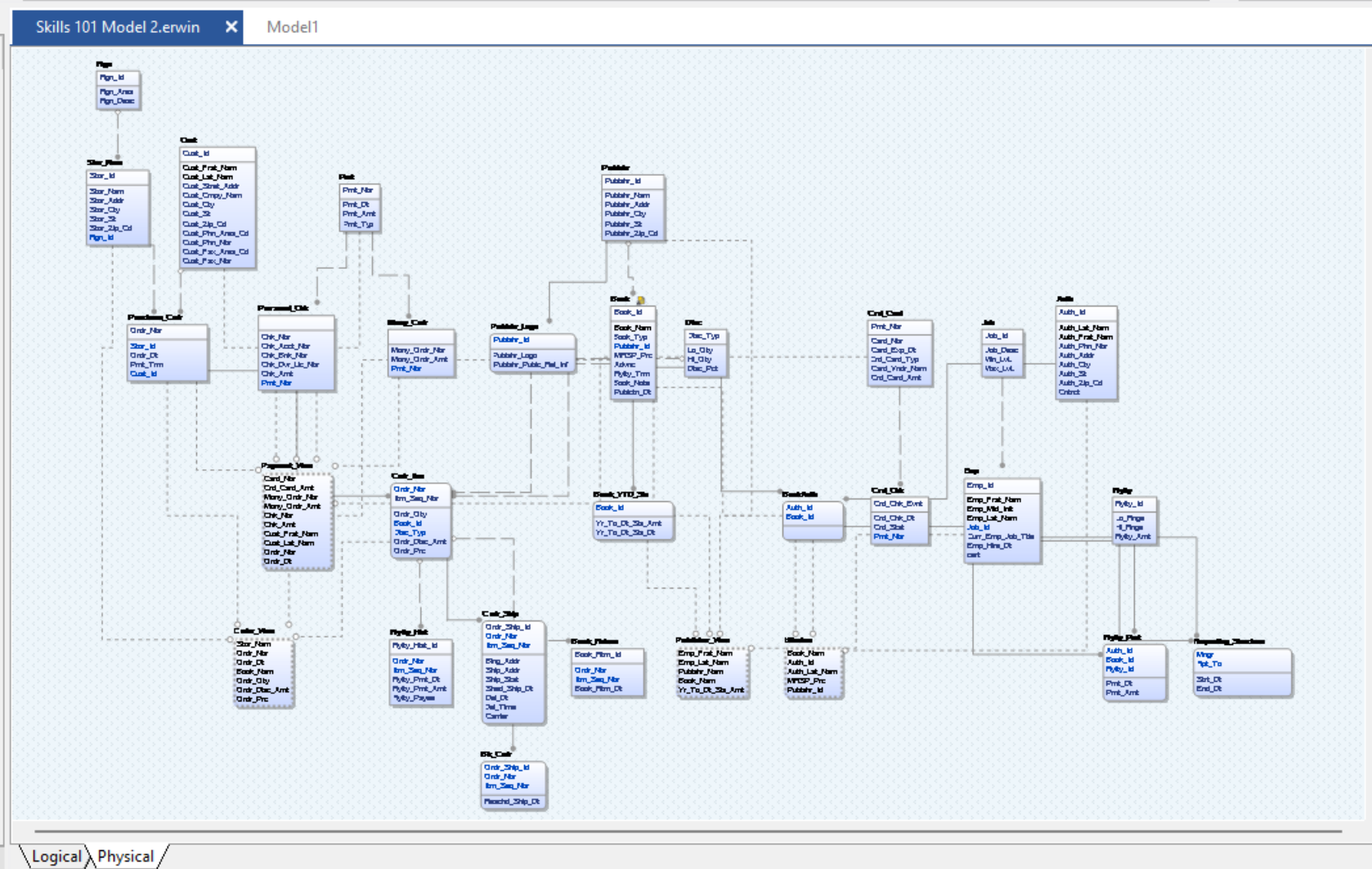


Actions Tab

The screenshot shows the 'Model Explorer' pane in SQL Server Enterprise Manager. The tree view displays the 'Skills 101 Model 1' database. The tree structure is as follows:

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
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The 'Model Explorer' tab is active, and the 'Subject Area' is visible at the bottom.



Properties

Icons: [Grid], [Z↓], [Folder], [Document], [Diagram], [Circular Arrow], [Hand]

General

Name	Skills 101 Model 1	[Icon]
Author		
Definition		[Icon]
Type	Logical/Physical	
Logical Notation	Information Engineering	▼
Physical Notation	IDEF1x	▼
Current ER Diagram	Physical	▼
Current Subject Area		▼
Current DSM Option Set		▼
Current NSM Option Set		▼
Allow Manual Relationship	☒	
Unique Names	Not Unique	▼
Is NSM Option From AMT	☐	

Defaults

Non-Key Attributes Null C	Null	▼
Non-Identifying Relations	Nulls Allowed	▼
Theme	Default Theme	▼
Use Data Type In Unificati	☐	
Enforce Relationship Rule	☒	

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Model Explorer

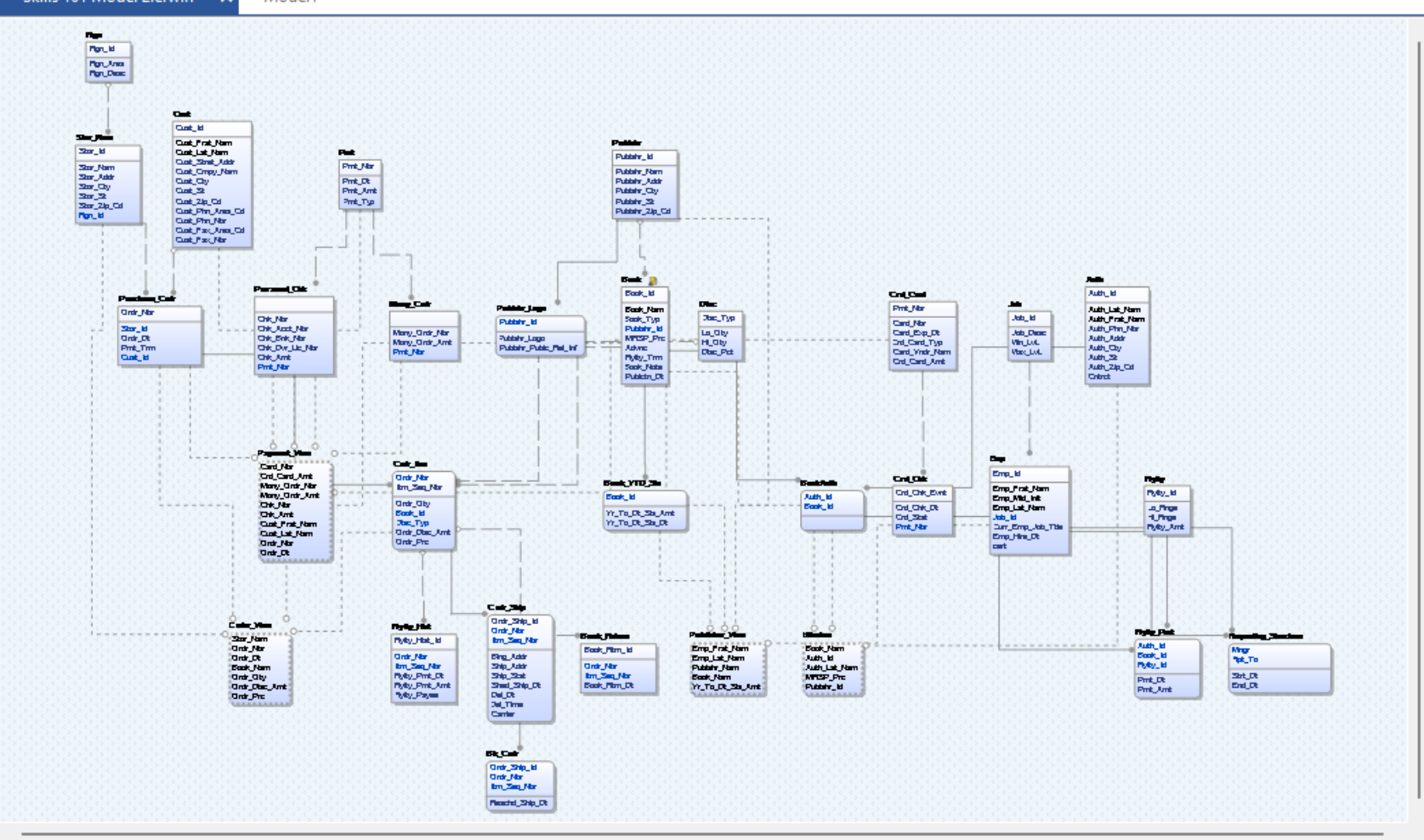
- Skills 101 Model 1
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 - Always Encrypted Keys
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 - Certificates
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Model Subject Area

Model Explorer | Project Explorer

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Skills 101 Model 2.erwin x Model1



Properties

General	
Name	Skills 101 Model 1 
Author	
Definition	
Type	Logical/Physical
Logical Notation	Information Engineering ▾
Physical Notation	IDEF1x ▾
Current ER Diagram	Physical ▾
Current Subject Area	▾
Current DSM Option Set	▾
Current NSM Option Set	▾
Allow Manual Relationship	☒
Unique Names	Not Unique ▾
Is NSM Option From AM1	☐

Defaults

Non-Key Attributes Null ☐ Null

Non-Identifying Relations ☐ Nulls Allowed

Theme ☐ Default Theme

Use Data Type In Unification ☐

Enforce Relationship Rule ☒

Font Color ...

Font Bold ☒

[illegible]

The screenshot displays the Skills 101 Model 2.0 software interface. The main workspace shows a complex Entity-Relationship (ER) diagram. Entities are represented by rectangular boxes with their attributes listed below them. Relationships are shown as lines connecting the entities. The diagram includes entities such as Publisher, Book, Job, and various specialized roles like Programmer, Editor, and Designer. The Properties panel on the right side of the interface shows settings for the selected entity, including Name, Author, Definition, Type, Logical Notation, Physical Notation, Current ER Diagram, Current Subject Area, Current DSM Option Set, Current NSM Option Set, Allow Manual Relationship, Unique Names, and Is NSM Option From AMI. The diagram is titled 'Skills 101 Model 2.0' and 'Model1'.

[illegible]

[illegible]

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Skills 101 Model 2.erwin

Model1

Reverse Engineering Configuration List

Reverse Engineering Configuration

Name:

Database: SQL Server Version: 2012

Reverse Engineer

☒ Mart

Server: shared-demolab-mart-v15.myerwin.io:443

Export

Import

New

Save

Delete

Reset

Enter filter text

☒	Name /	DB Info
☐	Databricks UC - Hive Metastore	Databricks
☐	Google Big Query Sales	Google BigQuery
☐	Local - Adventureworks DW	SQL Server (2019/2022)
☐	Local Publication System	SQL Server (2019/2022)
☐	MongoDB - sample_mflix	MongoDB (6.x)
☐	MongoDB Sample-Analytics	MongoDB (6.x)
☐	MongoDB Sample-Geospatial	MongoDB (6.x)
☐	MongoDB Sample-Weather Data	MongoDB (6.x)
☐	Publication System - Local	SQL Server (2019/2022)
☐	Quest PostgreSQL	PostgreSQL (12.x/13.x/14.x/1...
☐	SQL Demo 1	SQL Server (2019/2022)
☐	TEST	SQL Server (2012)

Items: (12)

Done

Skills 101 Model 1

General

Information Engineering

IDEF1x

Physical

Not Unique

Nulls Allowed

Default Theme

Color

Bold

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

Non-Mart Model

andy.mcGovern@que

PostgreSQL 16.x

43%

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[illegible]

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Embedded View

Model Explorer

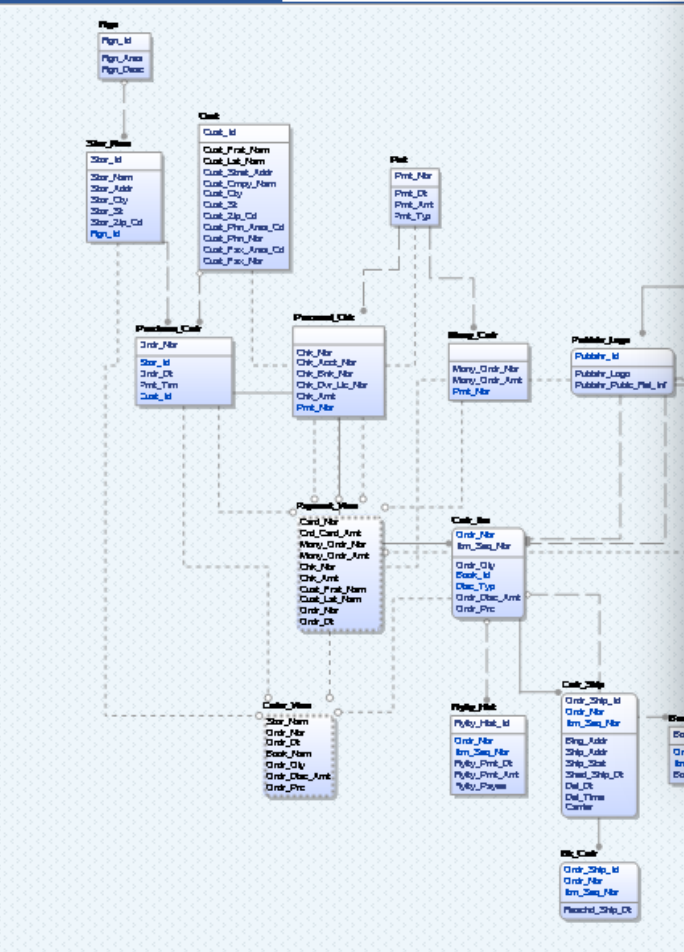
Skills 101 Model 1

- Access Methods
- Annotations
- Casts
- Collations
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Database Roles
- Databases
- Datatype Standards
- Default Values
- Domains
- ER Diagrams
- Event Triggers
- Extensions
- Functions
- Languages
- Materialized Views
- Model Sources
- Naming Standards
- Relationships
- Schemas
- Script Templates
- Sequences
- Servers
- Stored Procedures
- Subject Areas
- Tables
- Tablespaces
- Themes
- Transforms
- Trigger Templates
- User Defined Types
- Validation Rules

ModelSubject Area

Model ExplorerProject Explorer

Skills 101 Model 2.erwinModel1



LogicalPhysical

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.

< BackNext >GenerateOKCancelHelp

OverviewAction LogAdvisories

For Help, press F1

Non-Mart Modelandy.mcqovern@que:PostgreSQL 16.x43%

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

Transformations

Complete Compare

Manage Snapshots

Design Layers

Target Database

Database Connection

Reverse Engineer Database

Reverse Engineer Configuration

Schema...

Alter Script...

Check Model

Templates...

Hierarchical View

Embedded View

Model Explorer

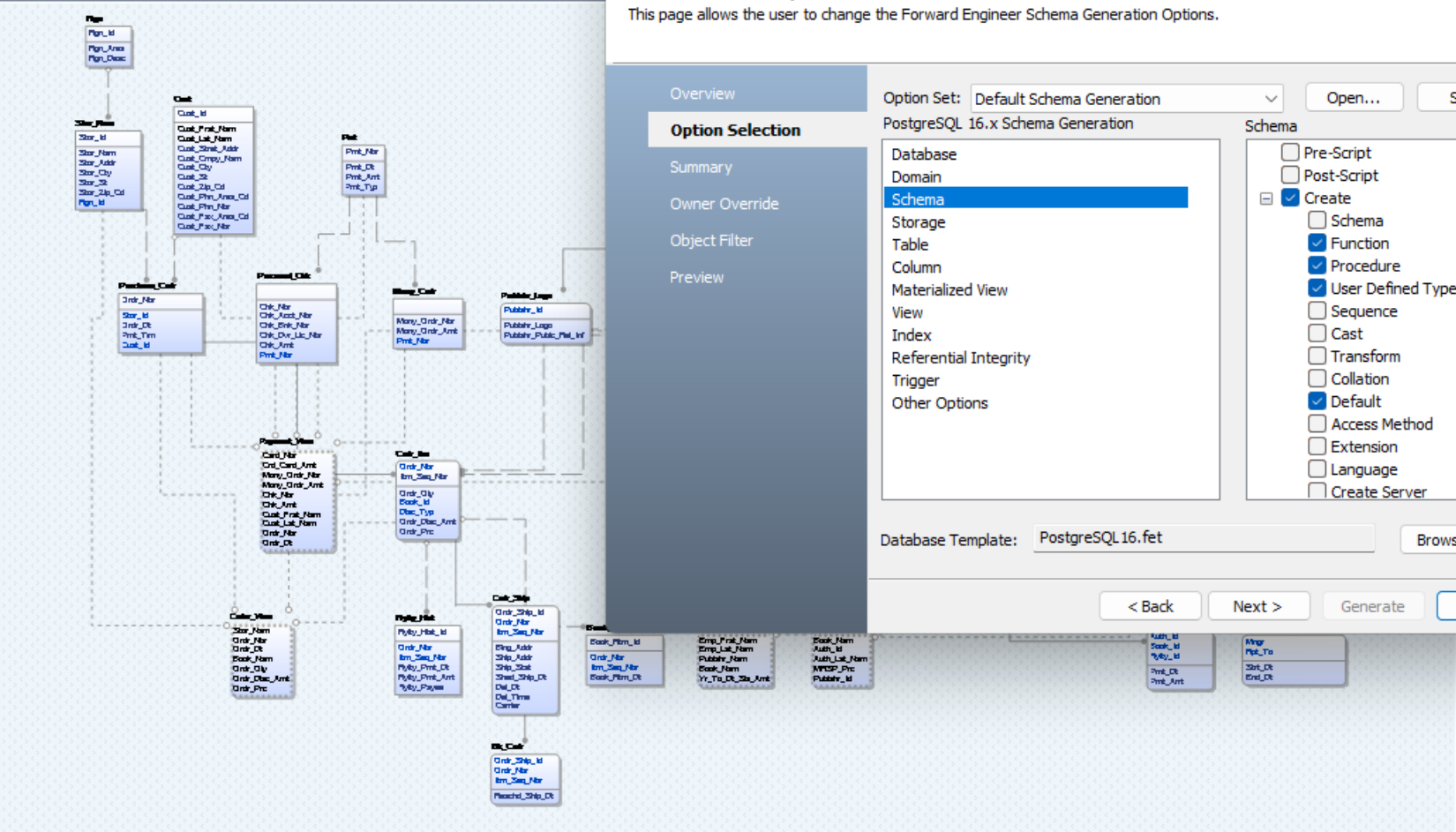
Skills 101 Model 1

- Access Methods
- Annotations
- Casts
- Collations
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Database Roles
- Databases
- Datatype Standards
- Default Values
- Domains
- ER Diagrams
- Event Triggers
- Extensions
- Functions
- Languages
- Materialized Views
- Model Sources
- Naming Standards
- Relationships
- Schemas
- Script Templates
- Sequences
- Servers
- Stored Procedures
- Subject Areas
- Tables
- Tablespaces
- Themes
- Transforms
- Trigger Templates
- User Defined Types
- Validation Rules

ModelSubject Area

Model ExplorerProject Explorer

Skills 101 Model 2.erwinModel1



LogicalPhysical

Forward Engineer Schema Generation Wizard

Schema Generation Options

This page allows the user to change the Forward Engineer Schema Generation Options.

Overview

Option Selection

Summary

Owner Override

Object Filter

Preview

Option Set: Default Schema Generation

Open...

Save

Save As...

Delete

PostgreSQL 16.x Schema Generation

Database

Domain

Schema

Storage

Table

Column

Materialized View

View

Index

Referential Integrity

Trigger

Other Options

Schema

☐ Pre-Script

☐ Post-Script

☒ Create

- ☐ Schema
- ☒ Function
- ☒ Procedure
- ☒ User Defined Type

☐ Sequence

☐ Cast

☐ Transform

☐ Collation

☒ Default

☐ Access Method

☐ Extension

☐ Language

☐ Create Server

Database Template: PostgreSQL16.fet

Browse...

Edit...

Reset

< Back

Next >

Generate

OK

Cancel

Help

Overview

Action Log

Advisories

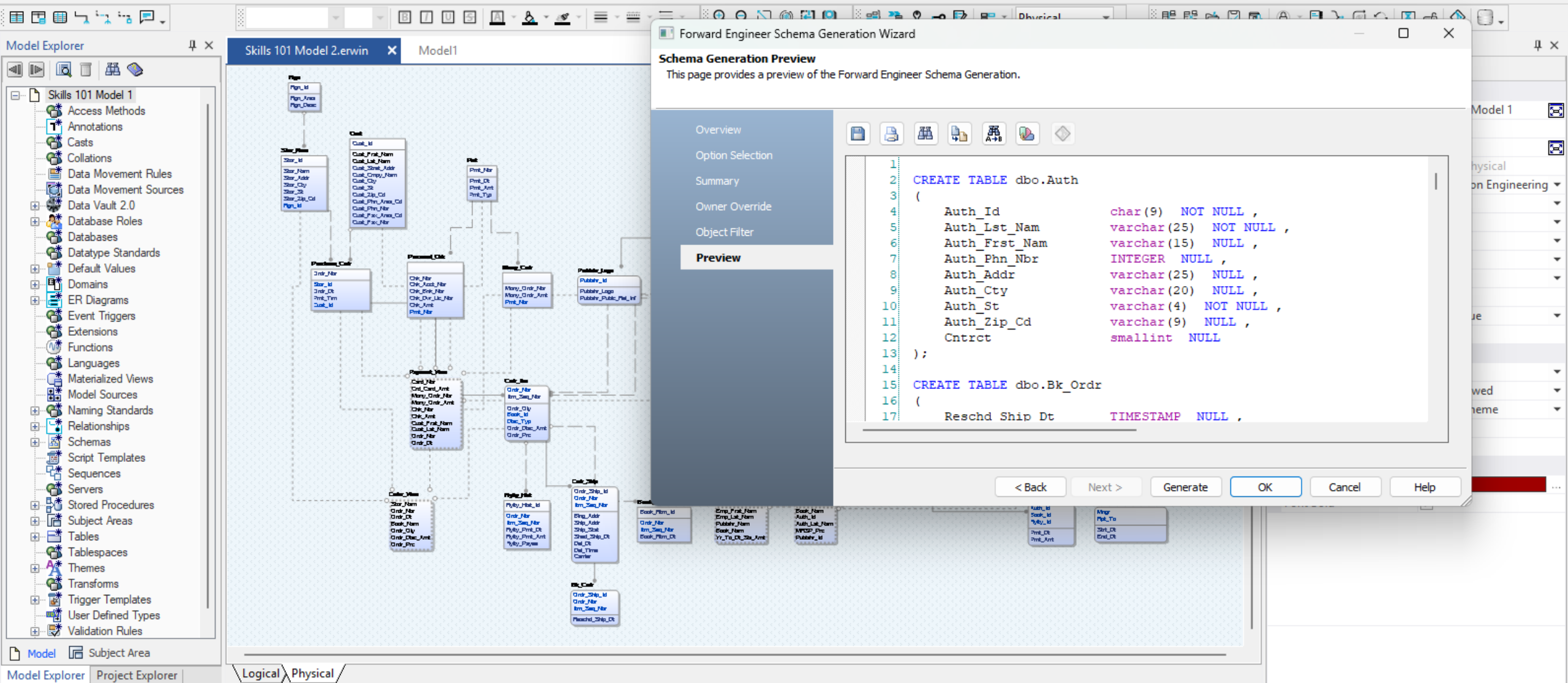
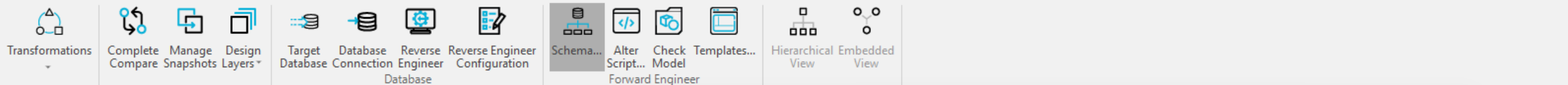
For Help, press F1

Non-Mart Model

andy.mcGovern@que

PostgreSQL 16.x

43%



erwin DM - [Skills 101 Model 2.erwin : Physical(Read-Only)]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

Transformations

Complete Compare

Manage Snapshots

Design Layers

Target Database

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Reverse Engineer Database

Reverse Engineer Configuration

Schema...

Alter Script... Forward Engineer

Check Model

Templates...

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Skills 101 Model 2.erwin

Skills 101 Model 1

Aggregates

Always Encrypted Keys

Annotations

Application Roles

Assemblies

Asymmetric Keys

Certificates

Credentials

Cryptographic Providers

Data Movement Rules

Data Movement Sources

Data Vault 2.0

Database Audit Specificati...

Database Encryption Keys

Database Roles

Databases

Datatype Standards

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External Libraries

Files

Fulltext Catalogs

Fulltext Stoplists

Functions

Logins

Model Sources

Naming Standards

Partition Functions

Partition Schemes

Model Check Completed

To enable PII for the column, set a column masking function.

12) Column:Cust_Fax_Nbr -> Table:Cust
To enable PII for the column, set a column masking function.

13) Table:Money_Ord
Primary key on the table has no members defined.

14) Table:Personal_Chk
Primary key on the table has no members defined.

15) Column:Cust_Id -> Table:Purchase_Ord
To enable PII for the column, set a column masking function.

16) View:titelview
A unique clustered index needs to be created as other indexes are defined for this view.
[View:titelview]

17) View:Order_View
A unique clustered index needs to be created as other indexes are defined for this view.
[View:Order_View]

18) View:Publisher_View
A unique clustered index needs to be created as other indexes are defined for this view.
[View:Publisher_View]

19) View:Payment_View
A unique clustered index needs to be created as other indexes are defined for this view.

Save As...
Close

Properties

General

NameSkills 101 Model 1

Author

Definition

TypeLogical/Physical

Logical NotationInformation Engineering

Physical NotationIDEF1x

Current ER DiagramPhysical

Current Subject Area

Current DSM Option Set

Current NSM Option Set

Allow Manual Relationshipsi

Unique NamesNot Unique

Is NSM Option From AM1

Defaults

Non-Key Attributes Null CNull

Non-Identifying RelationsNulls Allowed

ThemeDefault Theme

Use Data Type In Unificati

Enforce Relationship Rule

Font

Font Color

Font Bold

Model ExplorerProject Explorer

OverviewAction LogAdvisories

LogicalPhysical

Non-Mart Model

SQL Server 2019/2022

43%

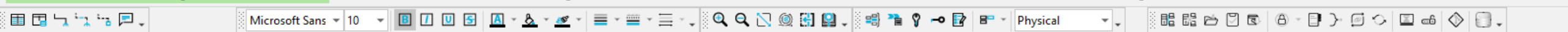
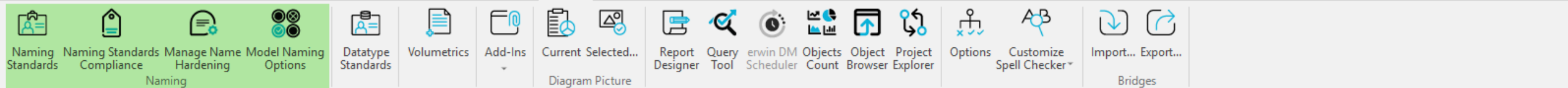
for Help, press F1

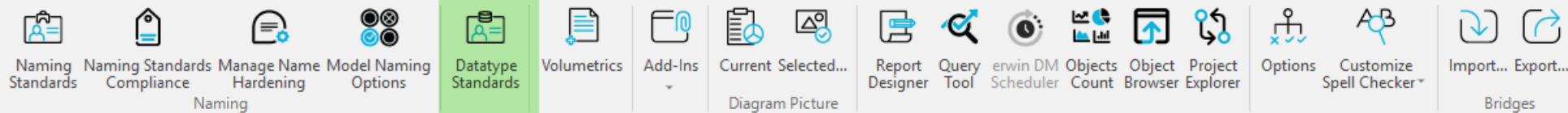
The screenshot displays the Erwin Data Modeler interface. A central dialog box titled "erwin Data Modeler" is open, displaying a warning message. The message states: "The modeling engine validates property access for conformity with the metamodel. It is possible to construct a template, or to execute a template against a context object, that will attempt to read invalid object/property combinations. When this happens, the modeling engine will display a warning indicating this fact (GDM-55 message). In this situation, this is not unexpected and there is no need to contact Technical Support. You only need to fix your template to remove the improper property access." The dialog box has an "OK" button and a checkbox labeled "Don't show this again".

The background shows an ER diagram with various tables and relationships. The right sidebar shows the "Properties" panel for "Skills 101 Model 1". The "General" section includes fields for Name, Author, Definition, Type (Logical/Physical), Logical Notation (Information Engineering), Physical Notation (IDEF1x), Current ER Diagram (Physical), Current Subject Area, Current DSM Option Set, Current NSM Option Set, Allow Manual Relationship (checked), Unique Names (Not Unique), and Is NSM Option From AM1 (unchecked). The "Defaults" section includes Non-Key Attributes Null (Null), Non-Identifying Relations (Nulls Allowed), Theme (Default Theme), Use Data Type In Unification (unchecked), and Enforce Relationship Rule (checked). The "Font" section includes Font Color (red) and Font Bold (checked).

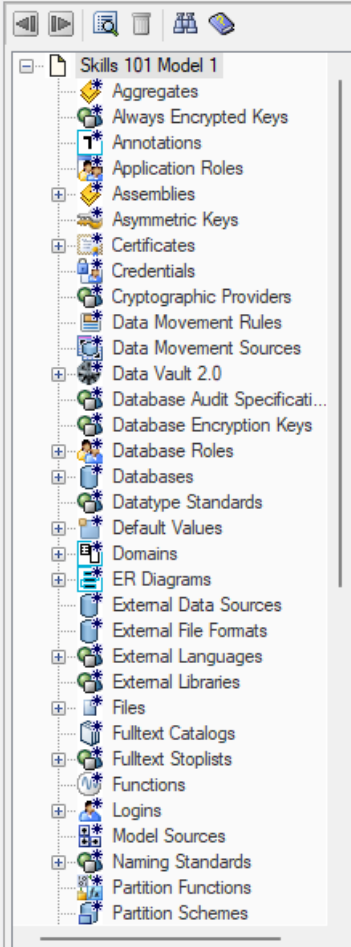


Tools Tab





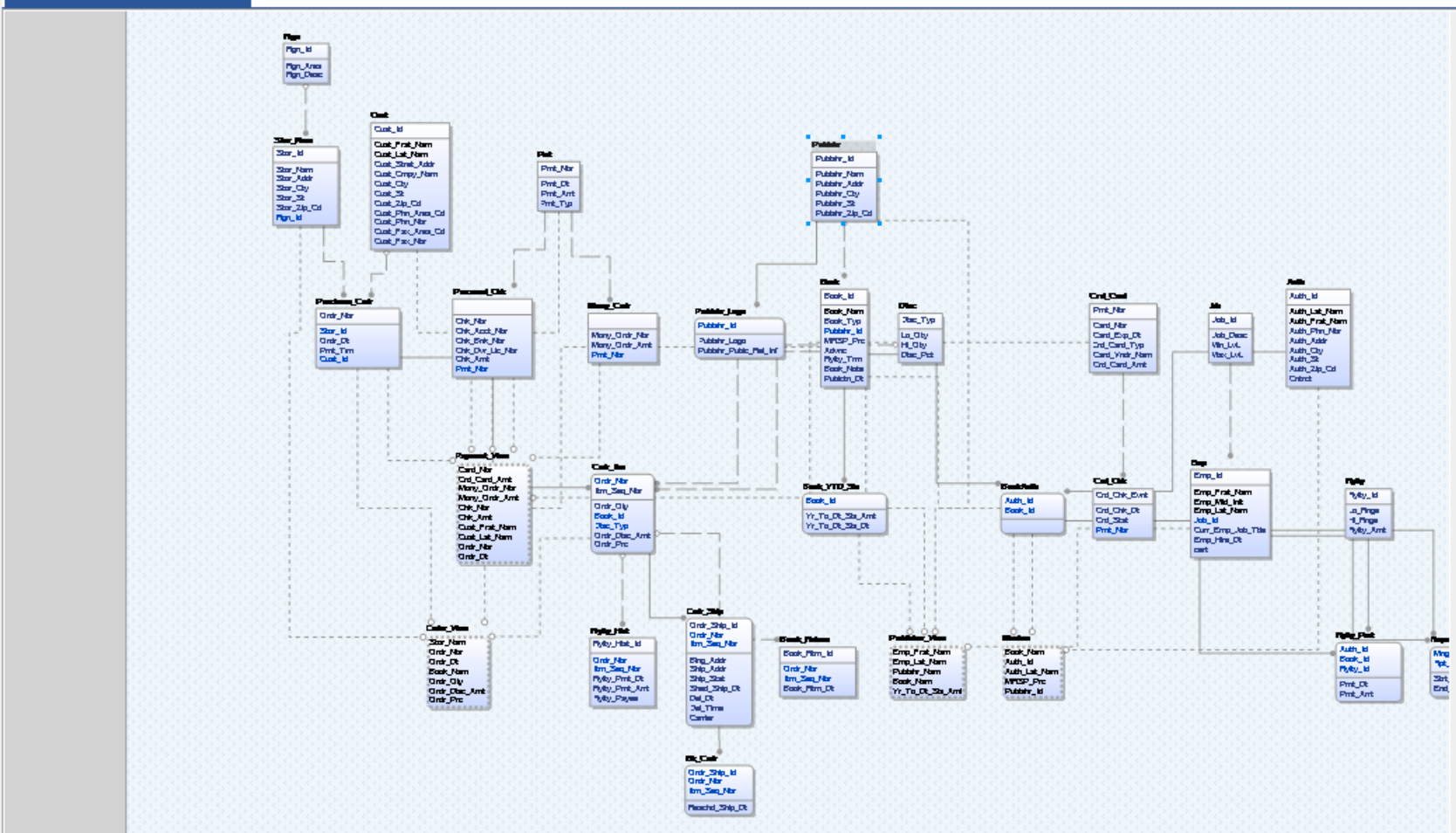
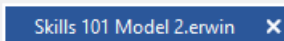
Model Explorer



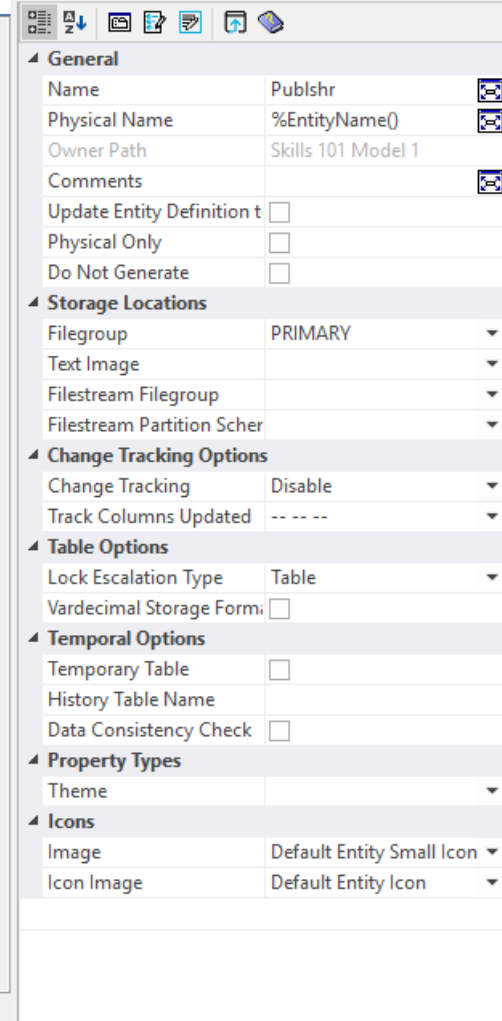
Model Subject Area

Model Explorer | Project Explorer

[Overview](#) [Action Log](#) [Advisories](#)



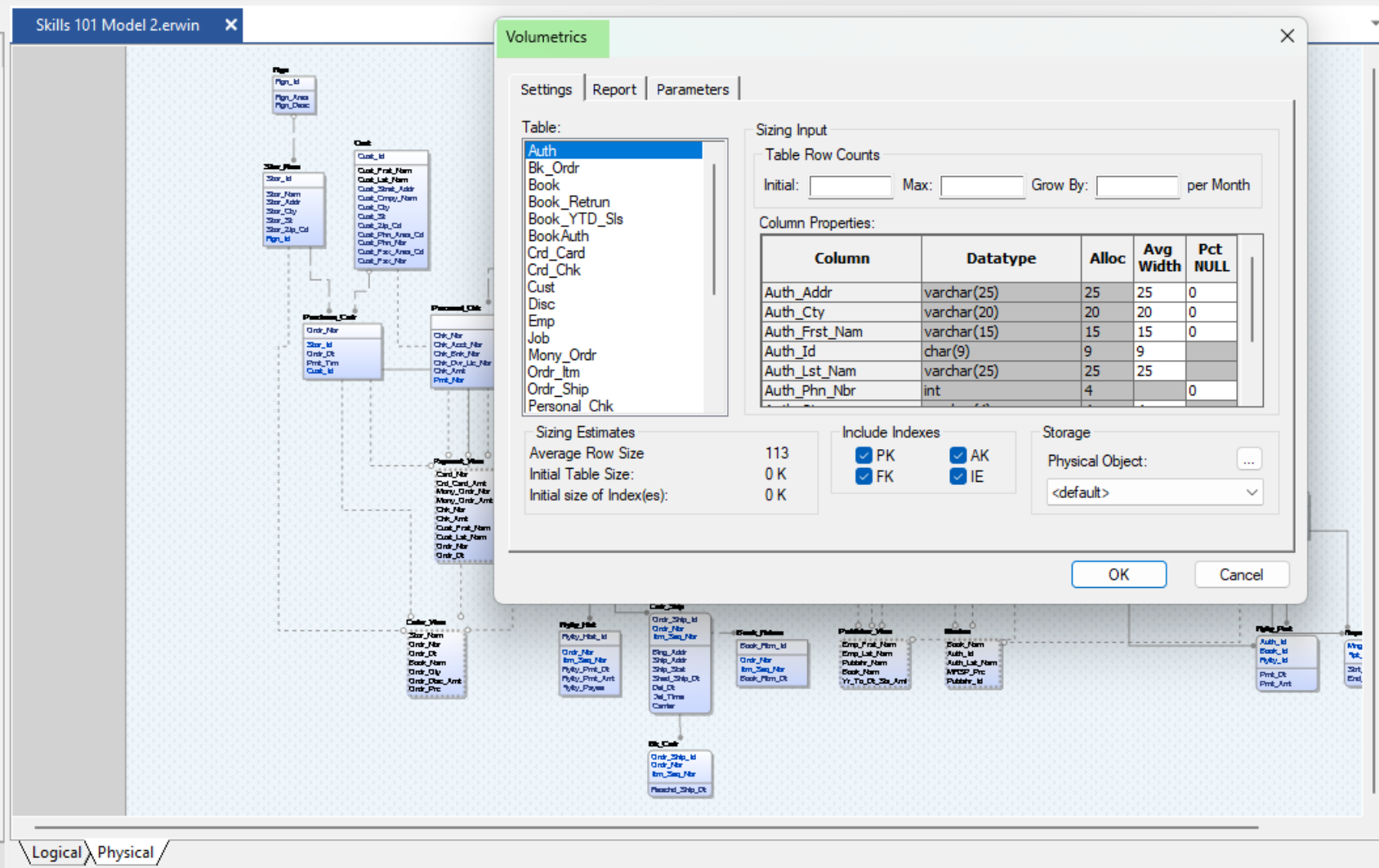
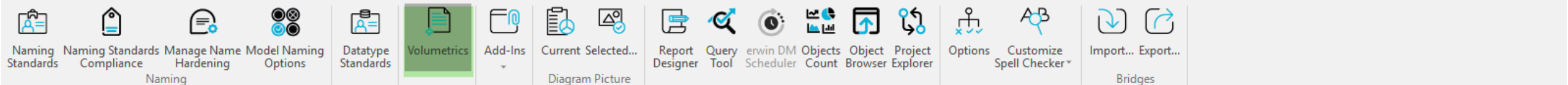
Properties

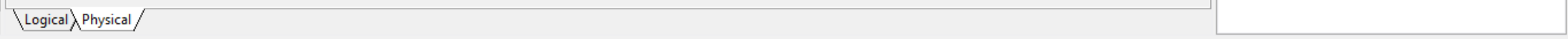
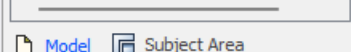


The screenshot displays the SQL Server Enterprise Architect interface. On the left, the 'Model Explorer' pane shows a tree view of database objects under 'Skills 101 Model 1'. The central area shows a logical model diagram with entities like 'Star_Plan', 'Star', and 'Pilot' connected by relationships. The 'Mapping' dialog box is open in the foreground, showing the mapping of data types from 'SQL Server 2019/2022' to 'Progress 9.x/10.x/11.x'. The dialog includes a table with the following data:

'From' Datatype	'To' Datatype	Max 'From' Length
bigint	FLOAT	
binary	CHARACTER	MAXIMUM
bit	LOGICAL	
char	CHAR	MAXIMUM
char varying	CHARACTER	MAXIMUM
character	CHARACTER	MAXIMUM
character varying	CHARACTER	MAXIMUM
date	DATE	
datetime	DATE	
Datetime2	DATF	MAXIMUM

The dialog also features 'Close', 'Cancel', and 'Details...' buttons at the bottom right.





erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

File

Home

View

Diagram

Project Explorer

Model

Mart

Actions

Tools

Help

Naming Standards

Naming Standards Compliance

Naming

Manage Name Hardening

Naming

Model Naming Options

Model Naming Options

Datatype Standards

Datatype Standards

Volumetrics

Volumetrics

Add-Ins

Add-Ins

Current Selected...

Diagram Picture

Report Designer

Report Designer

Query Tool

Query Tool

erwin DM Scheduler

erwin DM Scheduler

Objects Count

Objects Count

Object Browser

Object Browser

Project Explorer

Project Explorer

Options

Options

Customize Spell Checker

Customize Spell Checker

Import...

Import...

Export...

Export...

Bridges

Bridges

Physical

Model Explorer

Skills 101 Model 2.erwin

erwin Spy - erwin API Sample Client

File Models Help

erwin Spy

Objects

(Model) Skills 101 Model 1 { Persistence Unit; }

(Data_Vault_Object) Bridge { Default; }

(Data_Vault_Object) Hub { Default; }

(Data_Vault_Object) Link { Default; }

(Data_Vault_Object) PIT { Default; }

(Data_Vault_Object) Reference { Default; }

(Data_Vault_Object) Satellite { Default; }

(Database_Role) db_accessadmin { Default; }

(Database_Role) db_backupoperator { Default; }

(Database_Role) db_datareader { Default; }

(Database_Role) db_datawriter { Default; }

(Database_Role) db_ddladmin { Default; }

(Database_Role) db_denydatareader { Default; }

(Database_Role) db_denydatawriter { Default; }

(Database_Role) db_owner { Default; }

(Database_Role) db_securityadmin { Default; }

(Database_Role) public { Default; }

(Default) CURRENT_TIMESTAMP { Default; }

(Default) CURRENT_USER { Default; }

(Default) DF_Bk_Ordr_Ordr_Sh_25869641

(Default) DF_Book_Book_Typ_2B3F6F97

(Default) DF_Cust_Cust_Fax_A_37A5467C

(Default) DF_Cust_Cust_Phn_A_36B12243

Properties

Property	DT	Value	As String	NL	UD	VC	TI
Auto_Created_Initially_Id	I4	1	1				
Name	Str	Skill...	Skills 101 M...				
Long_Id	Id	{799...	{799A0437-D...				
Owner_Path	Str						
Type	I4	3	Combined				
Naming_Standards_File_Name	Str						
Allow_Special_Characters	Bool	False	false				
Remove_Vowels_In_Name_Mapping	Bool	False	false				
Special_Character_Action_Type	I4	0	0				
Replacement_Character	I4	95	95				
Tracking_History_Objects	I4	1048...	1048575				
Tracking_History_Events	I4	1048...	1048575				
Enforce_Unique_Naming	I4	0	NotUnique				
Target_Server	I4	172	SqlServer				
Option_Non_Key_Attributes_Not_Null	I4	0	Null				

Model Explorer

Project Explorer

Logical

Physical

Overview

Action Log

Advisories

For Help, press F1

Non-Mart Model

SQL Server 2019/2022

43%

The screenshot displays the Erwin Data Modeler interface for "Skills 101 Model 2". On the left, a tree view lists various model components like Aggregates, Annotations, Application Roles, Assemblies, Asymmetric Keys, Certificates, Credentials, Cryptographic Providers, Data Movement Rules, Data Movement Sources, Data Vault 2.0, Database Audit Specifications, Database Encryption Keys, Database Roles, Databases, Datatype Standards, Default Values, Domains, ER Diagrams, External Data Sources, External File Formats, External Languages, External Libraries, Files, Fulltext Catalogs, Fulltext Stoplists, Functions, Logins, Model Sources, Naming Standards, Partition Functions, and Partition Schemes. The main workspace shows a detailed Entity-Relationship (ER) diagram with numerous entities such as "Star", "Qual", "Publ", "Proc", "Mang", "Publ", "Book", "Disc", "Crd", "Job", "Auth", "Pym", "Cust", "Ship", "Empl", "Publ", "Mast", and "Rece". Each entity is represented by a box containing its attributes. Relationships between entities are indicated by dashed lines. At the bottom, there's a tabbed interface with "Model Explorer" and "Subject Area" tabs, and a status bar showing "Logical Physical". On the right side, a "Properties" pane is visible, displaying settings for the selected entity or relationship, including Name, Author, Definition, Type (Logical/Physical), Logical Notation (Information Engineering), Physical Notation (IDEF1x), Current ER Diagram (Physical), Current Subject Area, Current DSM Option Set, Current NSM Option Set, Allow Manual Relationship (checked), Unique Names (Not Unique), Is NSM Option From AMT (unchecked), Defaults (Non-Key Attributes Null (Null), Non-Identifying Relation: Nulls Allowed, Theme (Default Theme)), Font (Font Color (red), Font Bold (checked)).

Save As

Andy - Quest > erwin > erwin 101

Search erwin 101

Organize

New folder

erwin

Installers

Meetings

Microsoft Cop

Microsoft Tear

Migration

Name

Status

Date modified

Type

Size

No items match your search.

File name:

Save as type: Enhanced Metafiles (*.emf)

Enhanced Metafiles (*.emf)

PNG (*.png)

JPG (*.jpg)

SVG (*.svg)

PDF (*.pdf)

Hide Folders

Database Roles

Databases

Datatype Standards

Default Values

Domains

ER Diagrams

External Data Sources

External File Formats

External Languages

External Libraries

Files

Fulltext Catalogs

Fulltext Stoplists

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Logins

Model Sources

Naming Standards

Partition Functions

Partition Schemes

Model

Subject Area

Model Explorer

Project Explorer

Logical

Physical

Options

Properties

General

Name Skills 101 Model 1

Author

Definition

Type Logical/Physical

Logical Notation Information Engineering

Physical Notation IDEF1x

Current ER Diagram Physical

Current Subject Area

Current DSM Option Set

Current NSM Option Set

Allow Manual Relationship

Unique Names Not Unique

Is NSM Option From AMT

Defaults

Non-Key Attributes Null (Null

Non-Identifying Relations Nulls Allowed

Theme Default Theme

Use Data Type In Unificati

Enforce Relationship Rule

Font

Font Color

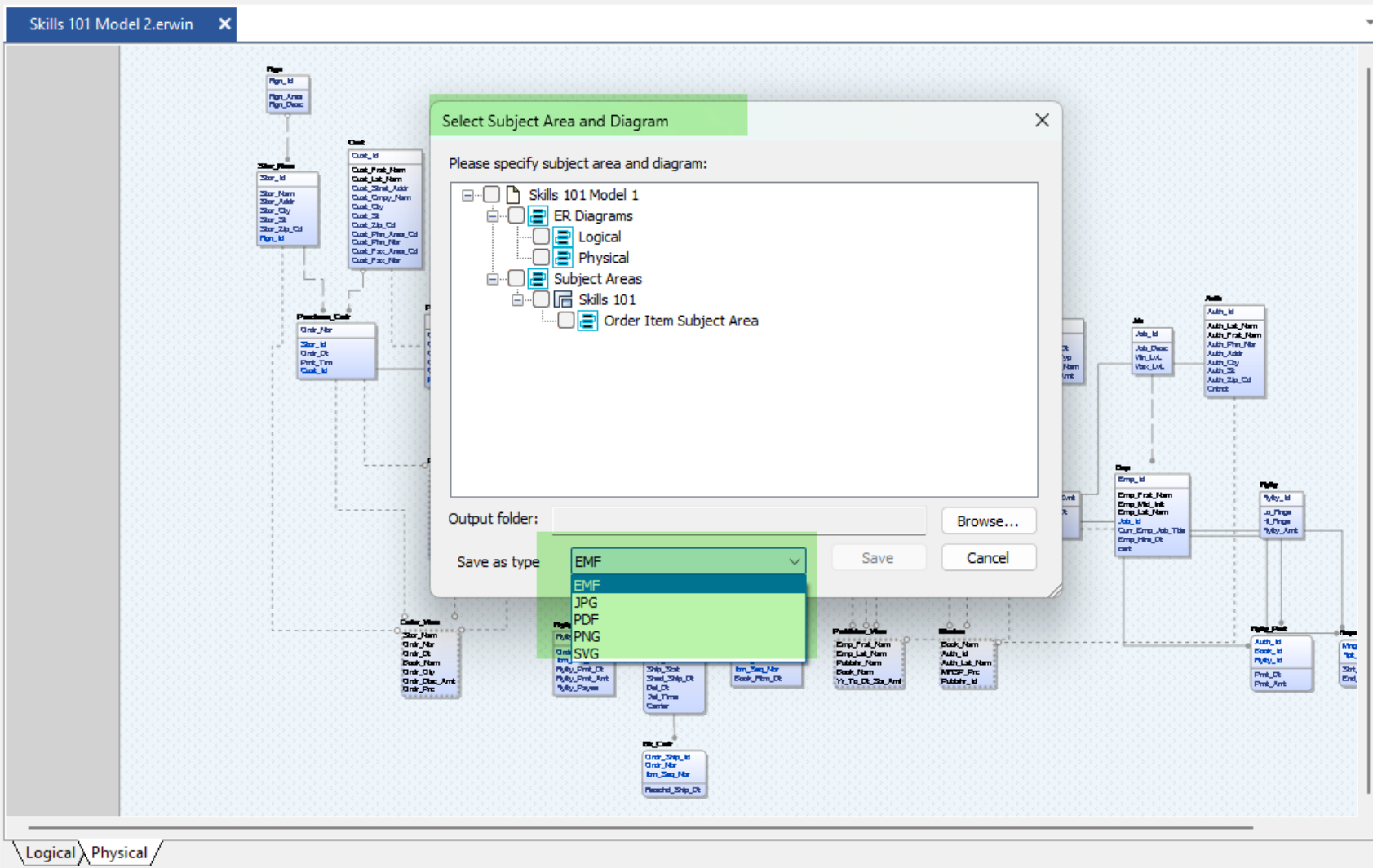
Font Bold

Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Database Audit Specificati...
 - Database Encryption Keys
 - Database Roles
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - External Data Sources
 - External File Formats
 - External Languages
 - External Libraries
 - Files
 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
 - Naming Standards
 - Partition Functions
 - Partition Schemes

Model Subject Area

Model Explorer Project Explorer



Properties

Icons: [List Icon] [Save Icon] [Print Icon] [Copy Icon] [Paste Icon]

General

Name	Skills 101 Model 1	[Icon]
Author		
Definition		[Icon]
Type	Logical/Physical	
Logical Notation	Information Engineering	▼
Physical Notation	IDEF1x	▼
Current ER Diagram	Physical	▼
Current Subject Area		▼
Current DSM Option Set		▼
Current NSM Option Set		▼
Allow Manual Relationship	☒	
Unique Names	Not Unique	▼
Is NSM Option From AMT	☐	

Defaults

Non-Key Attributes Null C	Null	▼
Non-Identifying Relations	Nulls Allowed	▼
Theme	Default Theme	▼
Use Data Type In Unificati	☐	
Enforce Relationship Rule	☒	

Font

Font Color	[Red Color Picker] ...
Font Bold	☒

Report Designer

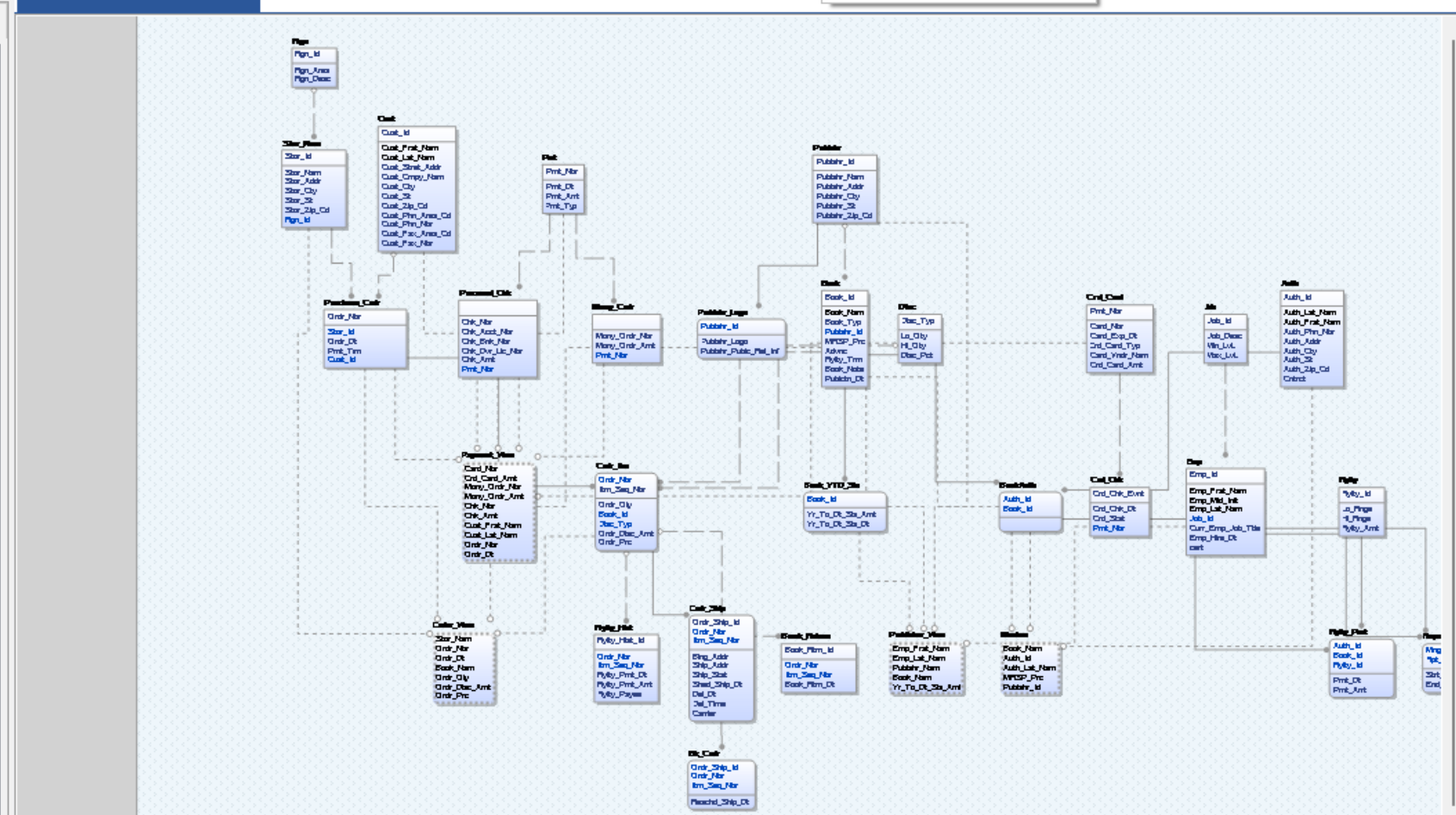
Model Explorer Skills 101 Model 2.erwin Invoke erwin Report Designer Properties

[illegible]



Invoke erwin Objects Count Tool

⌈ ×



✱ ✱

Name

Author	
--------	--

Definition	
------------	--

type	Logical/Physical
Logical Notation	Information Engineering

Physical Notation	IDEF1x
$G = \{ \langle \text{FB}, \text{Di} \rangle \}$	$\text{Di} \text{--} \text{FB}$

Current Subject Area

Current NSM Option Set	
------------------------	--

Unique Names	Not Unique
1. Customer 2. Product 3. Supplier 4. Category 5. Order 6. Inventory 7. Shipment 8. Payment 9. Return 10. Discount 11. Warranty 12. Review 13. Feedback 14. Complaint 15. Suggestion 16. Announcement 17. Notice 18. Policy 19. Term 20. Condition 21. Agreement 22. Contract 23. License 24. Patent 25. Trademark 26. Copyright 27. Right 28. Obligation 29. Responsibility 30. Duty 31. Power 32. Authority 33. Privilege 34. Immunity 35. Exemption 36. Waiver 37. Release 38. Discharge 39. Settlement 40. Resolution 41. Arbitration 42. Mediation 43. Conciliation 44. Reconciliation 45. Restoration 46. Recovery 47. Redemption 48. Reimbursement 49. Refund 50. Compensation 51. Indemnification 52. Insurance 53. Protection 54. Security 55. Safeguard 56. Shield 57. Barrier 58. Obstacle 59. Hindrance 60. Impediment 61. Obstruction 62. Interference 63. Disturbance 64. Disruption 65. Interruption 66. Interruption 67. Interruption 68. Interruption 69. Interruption 70. Interruption 71. Interruption 72. Interruption 73. Interruption 74. Interruption 75. Interruption 76. Interruption 77. Interruption 78. Interruption 79. Interruption 80. Interruption 81. Interruption 82. Interruption 83. Interruption 84. Interruption 85. Interruption 86. Interruption 87. Interruption 88. Interruption 89. Interruption 90. Interruption 91. Interruption 92. Interruption 93. Interruption 94. Interruption 95. Interruption 96. Interruption 97. Interruption 98. Interruption 99. Interruption 100. Interruption	1. Customer 2. Product 3. Supplier 4. Category 5. Order 6. Inventory 7. Shipment 8. Payment 9. Return 10. Discount 11. Warranty 12. Review 13. Feedback 14. Complaint 15. Suggestion 16. Announcement 17. Notice 18. Policy 19. Term 20. Condition 21. Agreement 22. Contract 23. License 24. Patent 25. Trademark 26. Copyright 27. Right 28. Obligation 29. Responsibility 30. Duty 31. Power 32. Authority 33. Privilege 34. Immunity 35. Exemption 36. Waiver 37. Release 38. Discharge 39. Settlement 40. Resolution 41. Arbitration 42. Mediation 43. Conciliation 44. Reconciliation 45. Restoration 46. Recovery 47. Redemption 48. Reimbursement 49. Refund 50. Compensation 51. Indemnification 52. Insurance 53. Protection 54. Security 55. Safeguard 56. Shield 57. Barrier 58. Obstacle 59. Hindrance 60. Impediment 61. Obstruction 62. Interference 63. Disturbance 64. Disruption 65. Interruption 66. Interruption 67. Interruption 68. Interruption 69. Interruption 70. Interruption 71. Interruption 72. Interruption 73. Interruption 74. Interruption 75. Interruption 76. Interruption 77. Interruption 78. Interruption 79. Interruption 80. Interruption 81. Interruption 82. Interruption 83. Interruption 84. Interruption 85. Interruption 86. Interruption 87. Interruption 88. Interruption 89. Interruption 90. Interruption 91. Interruption 92. Interruption 93. Interruption 94. Interruption 95. Interruption 96. Interruption 97. Interruption 98. Interruption 99. Interruption 100. Interruption

Defaults

Non-Identifying Relations Nulls Allowed

Use Data Type In Unificati ☐

Font

Font Bold

© 2019/2022 4578

 Subject Area

Project Explorer

Action Log Advisories

43% -

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

Naming Standards

Naming Compliance

Manage Name Hardening

Model Naming Options

Datatype Standards

Volumetrics

Add-Ins

Current Selected...

Diagram Picture

Report Designer

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erwin DM Scheduler

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Model Explorer

Skills 101 Model 2.erwin

Skills 101 Model 1

Aggregates

Always Encrypted Keys

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Data Movement Sources

Data Vault 2.0

Database Audit Specificati...

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Partition Functions

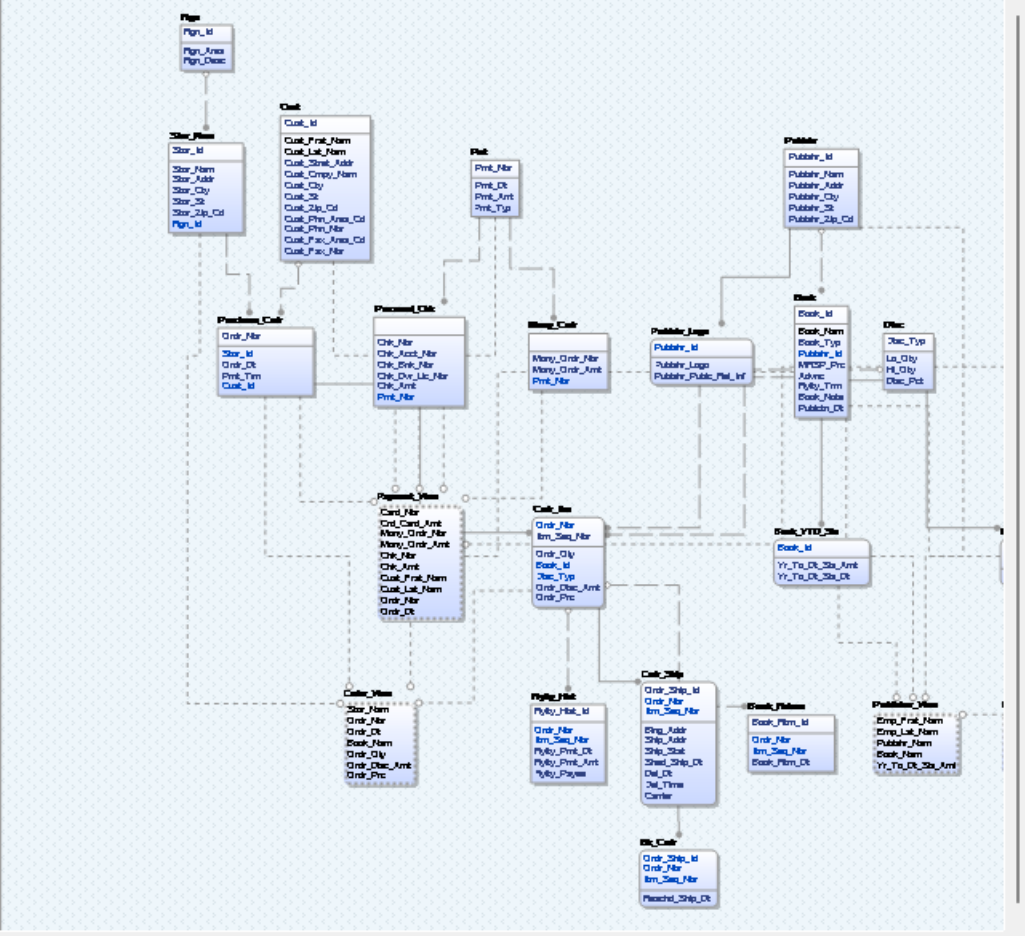
Partition Schemes

ModelSubject Area

Model ExplorerProject Explorer

OverviewAction LogAdvisories

LogicalPhysical



Objects Count

Name: SKILLS 101 MODEL 1

Type: Logical/Physical

View Mode: Physical

Subject Areas: 1

Tables: 26

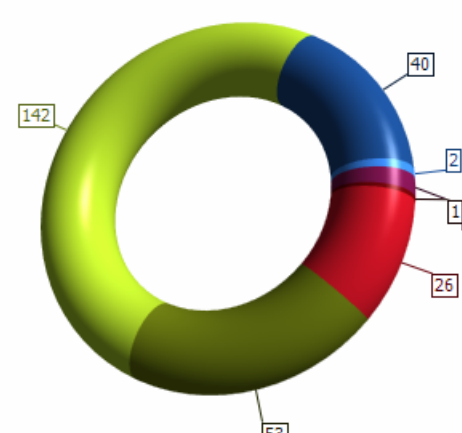
Columns: 142

Indexes: 53

Relationships: 40

Sub-Categories: 0

Style: Torus Style (3D)Palette: Illustration



Properties

General

Name: Skills 101 Model 1

Author:

Definition:

Type: Logical/Physical

Logical Notation: Information Engineering

Physical Notation: IDEF1x

Current ER Diagram: Physical

Current Subject Area:

Current DSM Option Set:

Current NSM Option Set:

Allow Manual Relationship: [checked]

Unique Names: Not Unique

Is NSM Option From AM1: [unchecked]

Defaults

Non-Key Attributes Null: Null

Non-Identifying Relations: Nulls Allowed

Theme: Default Theme

Use Data Type In Unificati: [unchecked]

Enforce Relationship Rule: [checked]

Font

Font Color: [red]

Font Bold: [checked]

For Help, press F1

Non-Mart Model

SQL Server 2019/2022

43%

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

FileHomeViewDiagramProject ExplorerModelMartActionsToolsHelp

Naming Standards

Naming Standards Compliance

Manage Name Hardening

Model Naming Options

Datatype Standards

Volumetrics

Add-Ins

Current Selected...

Diagram Picture

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Object Browser

Invoke erwin Object Browser

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General

NameSkills 101 Model 1

Author

Definition

TypeLogical/Physical

Logical NotationInformation Engineering

Physical NotationIDEF1x

Current ER DiagramPhysical

Current Subject Area

Current DSM Option Set

Current NSM Option Set

Allow Manual Relationshipsi

Unique NamesNot Unique

Is NSM Option From AMI

Defaults

Non-Key Attributes Null (Null

Non-Identifying RelationsNulls Allowed

ThemeDefault Theme

Use Data Type In Unificati

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Allow Manual Relationshipsi

Unique NamesNot Unique

Is NSM Option From AMI

Defaults

Non-Key Attributes Null (Null

Non-Identifying RelationsNulls Allowed

ThemeDefault Theme

Use Data Type In Unificati

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Font

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Object Browser

Enter Search Text

dbo.Auth

dbo.Bk_Ord

dbo.Book

dbo.Book_Retr

dbo.Book_YTD_Sls

dbo.BookAuth

dbo.Crd_Card

dbo.Crd_Chk

dbo.Cust

dbo.Disc

dbo.Emp

dbo.Job

dbo.Mony_Ord

dbo.Ord_Itm

dbo.Ord_Ship

dbo.Personal_Chk

dbo.Pmt

dbo.Publs

Summary

Tables	26
Columns	142
Views	4
Indexes	53
Index Members	70
Relationships	40
Domains	5

Subject Area

Current Subject Area	
----------------------	--

Style: Torus Style (3D)

Legend

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

CREATE TABLE [Auth]

(

[Auth_Id]

char(9) COLLATE SQL_Latin1_General_CP1

[Auth_Lst_Nam]

varchar(25) COLLATE SQL_Latin1_General

[Auth_Frst_Nam]

varchar(15) COLLATE SQL_Latin1_General

[Auth_Phn_Nbr]

int NULL ,

[Auth_Addr]

varchar(25) COLLATE SQL_Latin1_General

[Auth_Cty]

varchar(20) COLLATE SQL_Latin1_General

[Auth_St]

varchar(4) COLLATE SQL_Latin1_General

[Auth_Zip_Cd]

varchar(9) COLLATE SQL_Latin1_General

[Cntrect]

smallint NULL ,

PRIMARY KEY NONCLUSTERED ([Auth_Id] ASC)

)

ON "PRIMARY"

WITH

(

DATA_COMPRESSION = NONE

)

go

General

Table Info

Indexes: (53)

Index Members: (70)

I..	I..	I..	O..	O..
UPKC...	PK	Aut...	Asc...	Auth
aunm...	IE	Aut...	Asc...	Auth
aunm...	IE	Aut...	Asc...	Auth
PK_...	PK	Ord...	Asc...	Bk_...
PK_...	PK	Ord...	Asc...	Bk_...
PK_...	PK	Itm...	Asc...	Bk_...
XIF1...	IF	Ord...	Asc...	Bk_...
XIF1...	IF	Ord...	Asc...	Bk_...
XIF1...	IF	Itm...	Asc...	Bk_...
PK_...	PK	Boo...	Asc...	Book
titleind	IE	Boo...	Asc...	Book
XIF1...	IF	Publ...	Asc...	Book
PK_...	PK	Boo...	Asc...	Boo...
XIF1...	IF	Ord...	Asc...	Boo...
XIF1...	IF	Itm...	Asc...	Boo...
PK_...	PK	Boo...	Asc...	Boo...
XIF1...	IF	Boo...	Asc...	Boo...

Relationships: (24)

Relationship Name	Type	Parent	Child
FK_Rylty_Pmt_Rylty__06CD04F7	Identifying	Rylty	Rylty_Pmt
FK_Stor_Nam_Rgn_Id__08B54D69	Non-Identifying	Rgn	Stor_Nam
FK_Purchase_Stor__02FC7413	Non-Identifying	Stor_Nam	Purchase_Ord
FK_Publsr_L_Publs__01142BA1	Identifying	Publsr	Publsr_Logo
FK_Personal_Pmt_N__00200768	Non-Identifying	Pmt	Personal_Chk
FK_Ord_Itm_Ord_N__7D439ABD	Identifying	Purchase_Ord	Ord_Itm
FK_Ord_Ship__7F2BE32F	Identifying	Ord_Itm	Ord_Ship
FK_Rylty_Hist__05D8E0BE	Non-Identifying	Ord_Itm	Rylty_Hist
FK_Mony_Ord_Pmt_N__7B5B524B	Non-Identifying	Pmt	Mony_Ord
FK_Emp_Job_Id__7A672E12	Non-Identifying	Job	Emp
FK_Reporting_Mngr__03F0984C	Identifying	Emp	Reporting_Structure
FK_Reporting_Rpt_T__04E4BC85	Identifying	Emp	Reporting_Structure
FK_Ord_Itm_Disc_T__7C4F7684	Non-Identifying	Disc	Ord_Itm
FK_Purchase_Cust__02084FDA	Non-Identifying	Cust	Purchase_Ord
FK_Crd_Chk_Pmt_Nbr__797309D9	Non-Identifying	Crd_Card	Crd_Chk
FK_Rylty_Pmt__07C12930	Identifying	BookAuth	Rylty_Pmt
FK_Book_Retrn__75A278F5	Non-Identifying	Ord_Itm	Book_Retrn

Generate Report... Properties... Close Help

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Messages

Reset all messages

File Locations

Default model location:

C:\Users\AMcGover\AppData\Local\erwin\Data Model

Browse

Default template location:

Browse

Transaction log location:

C:\Users\AMcGover\AppData\Local\Temp

Browse

Diagram

☐ Suppress diagram tooltips

☐ Enforce Relationship Nullability Rules

☐ Supertype-Subtype Transformation

☐ Quick Complete Compare

☐ Exclude UDP

☐ Validate previous version metadata in model

☐ Load Diagram with speed mode

☐ Load Diagram with fixed column 30

☐ Load Diagram with entity/table view

Help Source

☒ Use online help

☐ Use local help

OK

Cancel

Help

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General

Name

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Author

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Current NSM Option Set

Allow Manual Relationship

☒

Unique Names

Not Unique

Is NSM Option From AM1

☐

Defaults

Non-Key Attributes Null

Null

Non-Identifying Relations

Nulls Allowed

Theme

Default Theme

Use Data Type In Unificati

☐

Enforce Relationship Rule

☒

Font

Font Color

Font Bold

☒

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

For Help, press F1

Non-Mart Model

SQL Server 2019/2022

43%

The screenshot displays the IBM Data Architect software interface. On the left, the 'Model Explorer' pane shows a tree view of the project 'Skills 101 Model 1', with categories like Aggregates, Annotations, and Databases. The central workspace shows an ER diagram for 'Skills 101 Model 2.erwin'. An 'Options' dialog box is open, with the 'Mart' tab selected. The 'Three-way Merge Options' section has 'Bypass Difference Reconciliation Dialog if there are no conflicts' checked. The 'Check In/Out' section has 'Allow Model CheckOut' unchecked, and the path 'C:\Users\AMcGover\AppData\Local\erwin\Data Modeler\10.10' is entered. The 'Properties' panel on the right shows the 'General' tab for the selected model, with fields for Name, Author, Definition, Type, Logical Notation, Physical Notation, Current ER Diagram, Current Subject Area, Current DSM Option Set, Current NSM Option Set, Allow Manual Relationships, Unique Names, Is NSM Option From AMT, Non-Key Attributes Null, Non-Identifying Relationships, Theme, Use Data Type In Unification, Enforce Relationship Rule, Font Color, and Font Bold.

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Diagram

☒ Display Shadows

☐ Show Attributes as Grid

☐ Display Column Null Option

☐ Display Physical Data Type

erwin Project

☐ Demand Loading

☒ Save All models without message

Editor UI Options

☐ Multiline Tab

OK

Cancel

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General

Name

Skills 101 Model 1

Author

Definition

Type

Logical/Physical

Logical Notation

Information Engineering

Physical Notation

IDEF1x

Current ER Diagram

Physical

Current Subject Area

Current DSM Option Set

Current NSM Option Set

Allow Manual Relationship

☒

Unique Names

Not Unique

Is NSM Option From AM1

☐

Defaults

Non-Key Attributes Null C

Null

Non-Identifying Relations

Nulls Allowed

Theme

Default Theme

Use Data Type In Unificati

☐

Enforce Relationship Rule

☒

Font

Font Color

Font Bold

☒

Skills 101 Model 2.erwin

Skills 101 Model 1

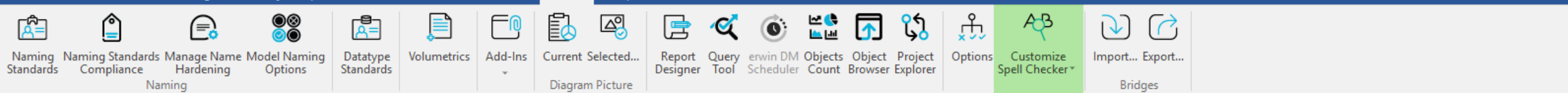
Skills 101 Model 2

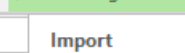
erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

SQL Server 2019/2022

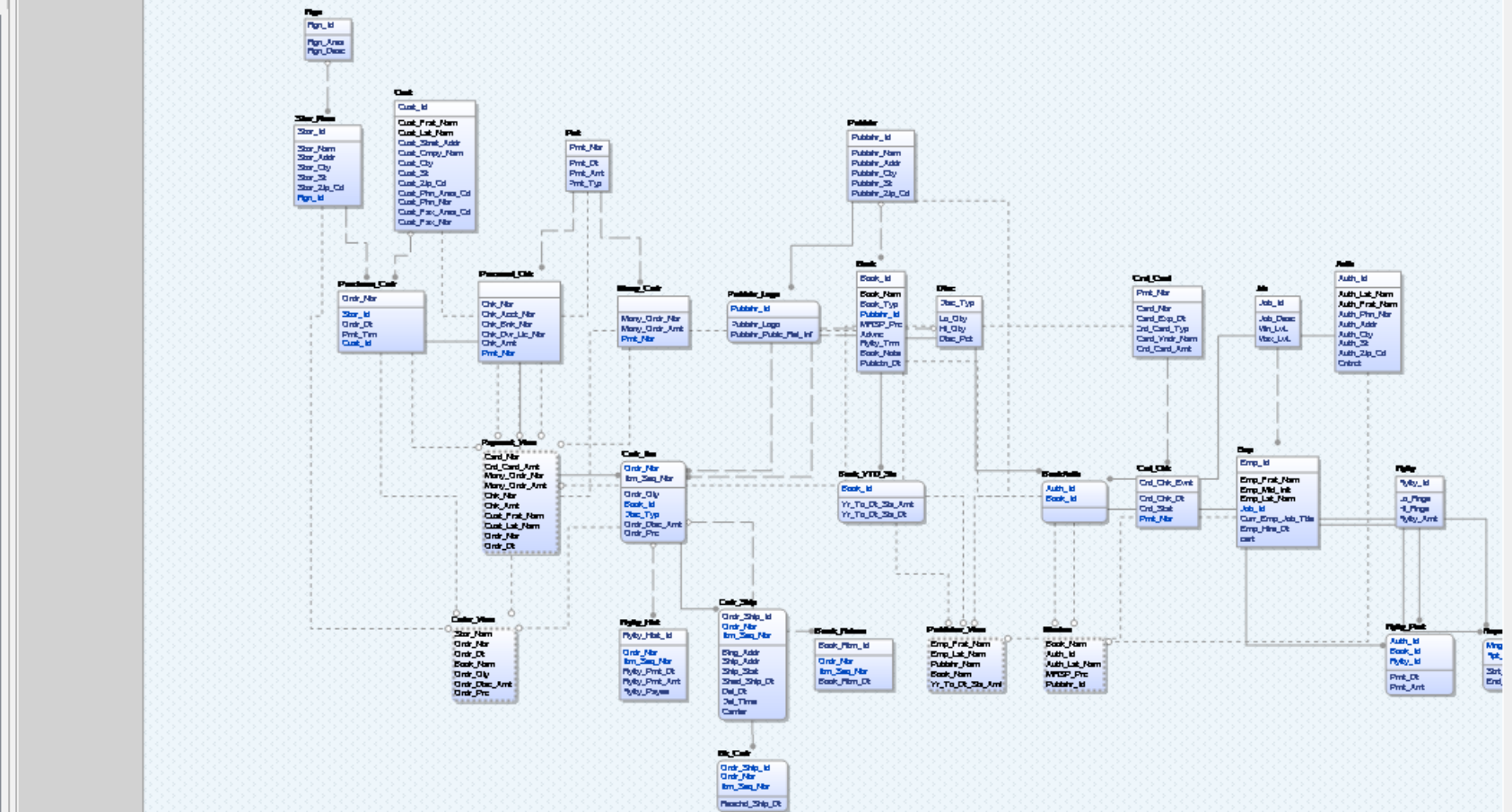
43%

The screenshot displays the Skills 101 Model 2.erwin interface. On the left is the Model Explorer tree, showing a hierarchy of database objects including Aggregates, Annotations, Application Roles, Assemblies, Asymmetric Keys, Certificates, Credentials, Cryptographic Providers, Data Movement Rules, Data Movement Sources, Data Vault 2.0, Database Audit Specifications, Database Encryption Keys, Database Roles, Databases, Datatype Standards, Default Values, Domains, ER Diagrams, External Data Sources, External File Formats, External Languages, External Libraries, Files, Fulltext Catalogs, Fulltext Stoplists, Functions, Logins, Model Sources, Naming Standards, Partition Functions, and Partition Schemes. The main workspace shows a logical database model with various tables and their attributes, connected by relationship lines. A 'Spelling Options' dialog box is open in the center, allowing users to configure spelling rules. The dialog includes checkboxes for ignoring capitalized words, all-caps words, words with numbers, words with mixed case, domain names, and doubled words. It also has options for case sensitivity, phonetic suggestions, typographical suggestions, split words, and auto-correct. The main dictionary language is set to 'American English'. Below these options are radio buttons for suggestion quality: 'Fast but less accurate', 'Moderately fast and accurate' (selected), and 'Slow but accurate'. The dialog has 'OK', 'Help', and 'Cancel' buttons. On the right is the Properties panel, showing settings for the selected object. The 'General' tab is active, displaying the object name 'Skills 101 Model 1', author, definition, type 'Logical/Physical', logical notation 'Information Engineering', physical notation 'IDEF1x', current ER diagram 'Physical', current subject area, current DSM option set, current NSM option set, allow manual relationships (checked), unique names 'Not Unique', and is NSM option from AM1 (unchecked). The 'Defaults' tab shows non-key attributes null as 'Null', non-identifying relationships as 'Nulls Allowed', theme as 'Default Theme', use data type in unification (unchecked), and enforce relationship rule (checked). The 'Font' tab shows font color as red and font bold as checked. At the bottom, there are tabs for 'Model Explorer', 'Project Explorer', 'Logical', and 'Physical', with 'Logical' currently selected. The bottom status bar shows 'Overview', 'Action Log', and 'Advisories'.





Skills 101 Model 2.erwin X

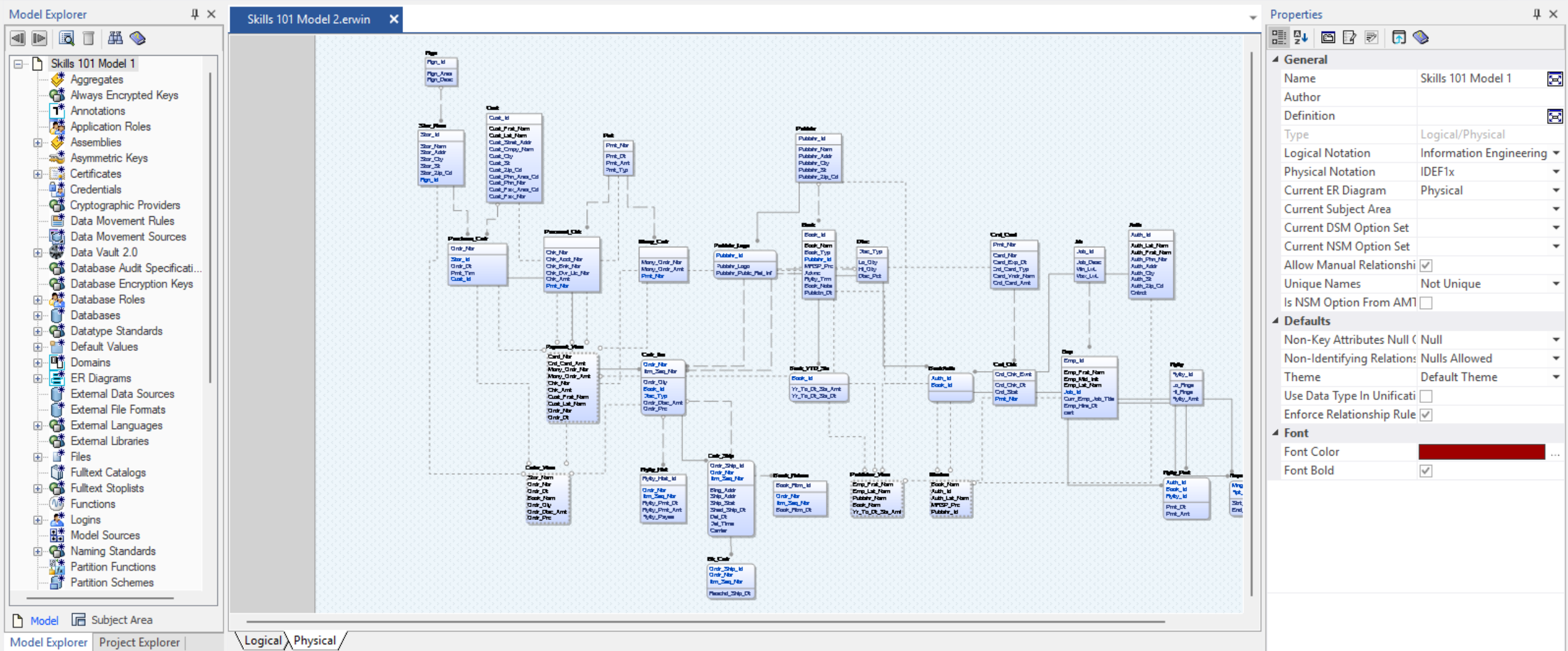


Logical Physical

Non-Mart Model

SQL Server 2010/2008

12%



Model Explorer

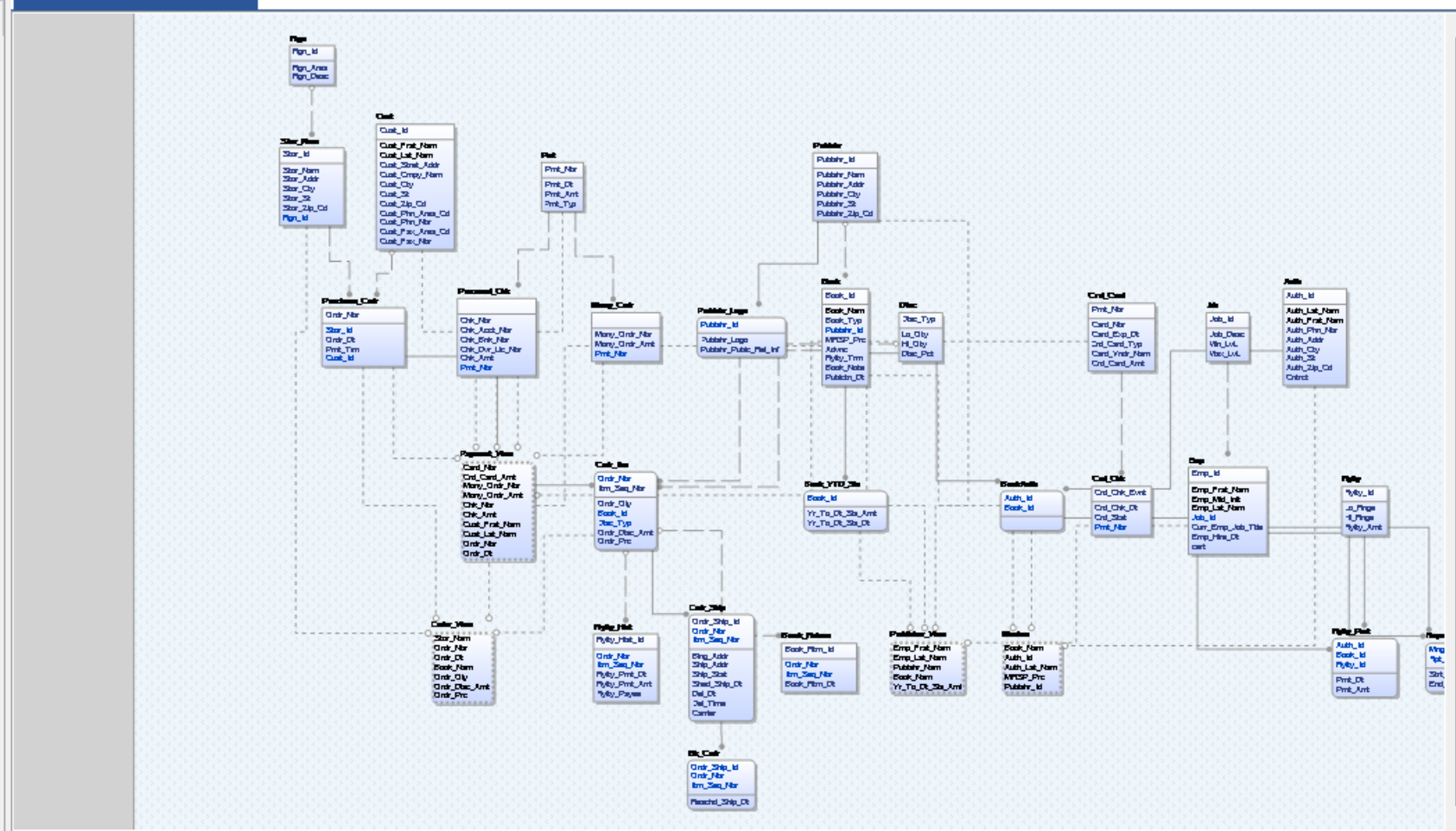
- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
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 - Database Encryption Keys
 - Database Roles
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Model Explorer | Project Explorer |

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Skills 101 Model 2.erwin X



Properties  

General		
Name	Skills 101 Model 1	
Author		
Definition		
Type	Logical/Physical	
Logical Notation	Information Engineering	▼
Physical Notation	IDEF1x	▼
Current ER Diagram	Physical	▼
Current Subject Area		▼
Current DSM Option Set		▼
Current NSM Option Set		▼
Allow Manual Relationship	☒	
Unique Names	Not Unique	▼
Is NSM Option From AMT	☐	

- 4 Defaults
 - Non-Key Attributes Null (Null)
 - Non-Identifying Relations (Nulls Allowed)
 - Theme (Default Theme)
 - Use Data Type In Unification ☐
 - Enforce Relationship Rule ☒

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Font Bold ☒

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erwin Data Modeler

Workgroup Edition (64-bit)

Release: 15.1 Build: 38109

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Third Party Notices

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Tech Support

OK

Properties

General

Name

Skills 101 Model 1

Author

Definition

Type

Logical/Physical

Logical Notation

Information Engineering

Physical Notation

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Unique Names

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Defaults

Non-Key Attributes Null

Null

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Nulls Allowed

Theme

Default Theme

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Physical

SQL Server 2019/2022

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erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Model 'Skills 101 Model 1' Editor

GeneralDefaultsRI DefaultsHistory OptionsDefinitionUDPHistoryNotesExtende

Type: Logical / PhysicalTarget Server And Version: SQL Server 2019/2022

Model Information

NameSkills 101 Model 1

Author

Integration Id

Notation

Logical NotationInformation Engineering

Physical NotationIDEF1x

Modeling Features

Is Dimensional☐

Data Vault 2.0☐

Data Movement☐

CloseCancelDetails...

Properties

General

NameSkills 101 Model 1

Author

Definition

TypeLogical/Physical

Logical NotationInformation Engineering

Physical NotationIDEF1x

Current ER Diagram

Current Subject Area

Current DSM Option Set

Current NSM Option Set

Allow Manual Relationship Layout☒

Unique NamesNot Unique

Is NSM Option From AMT☐

Defaults

Non-Key Attributes Null OptionNull

Non-Identifying Relationship Null OptionNulls Allowed

ThemeDefault Theme

Use Data Type In Unification☐

Enforce Relationship Rules☒

Font

Font Color

Font Bold☒

For Help, press F1

Non-Mart Model

SQL Server 2019/2022

43%

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Model ExplorerProject Explorer

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Skills 101 Model 2.erwin

Model 'Skills 101 Model 1' Editor

GeneralDefaultsRI DefaultsHistory OptionsDefinitionUDPHistoryNotesExtend

Default Null Options

- Non-Key Attributes Null OptionNull
- Non-Identifying Relationship Null OptionNulls Allowed

Default Datatypes

- Logical Data TypeCHAR(18)
- Physical Data Typechar(18)

Default Theme

- Reset ThemeReset
- ThemeDefault Theme

Unification

- Use Data Type In Unification

Migrated Column Options

- Display Diagram Highlights
- Color
- Bold

Subtype Restrictions

- Enforce Relationship Rules

Set Default Owners...

Close

Cancel

Details...

Properties

General

NameSkills 101 Model 1

Author

Definition

TypeLogical/Physical

Logical NotationInformation Engineering

Physical NotationIDEF1x

Current ER DiagramPhysical

Current Subject Area

Current DSM Option Set

Current NSM Option Set

Allow Manual Relationship Layout

Unique NamesNot Unique

Is NSM Option From AMT

Defaults

- Non-Key Attributes Null OptionNull
- Non-Identifying Relationship Null OptionNulls Allowed
- ThemeDefault Theme
- Use Data Type In Unification
- Enforce Relationship Rules

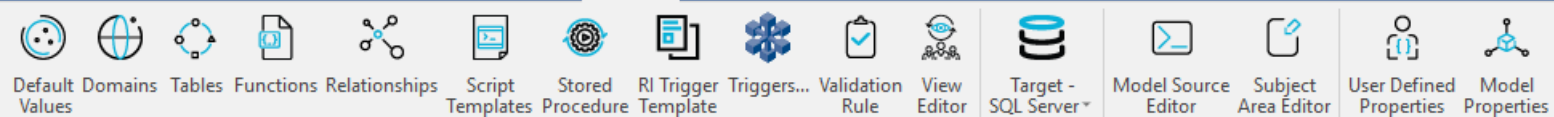
Font

- Font Color
- Font Bold

LogicalPhysical

Non-Mart Model

SQL Server 2019/202243%



Model Explorer  

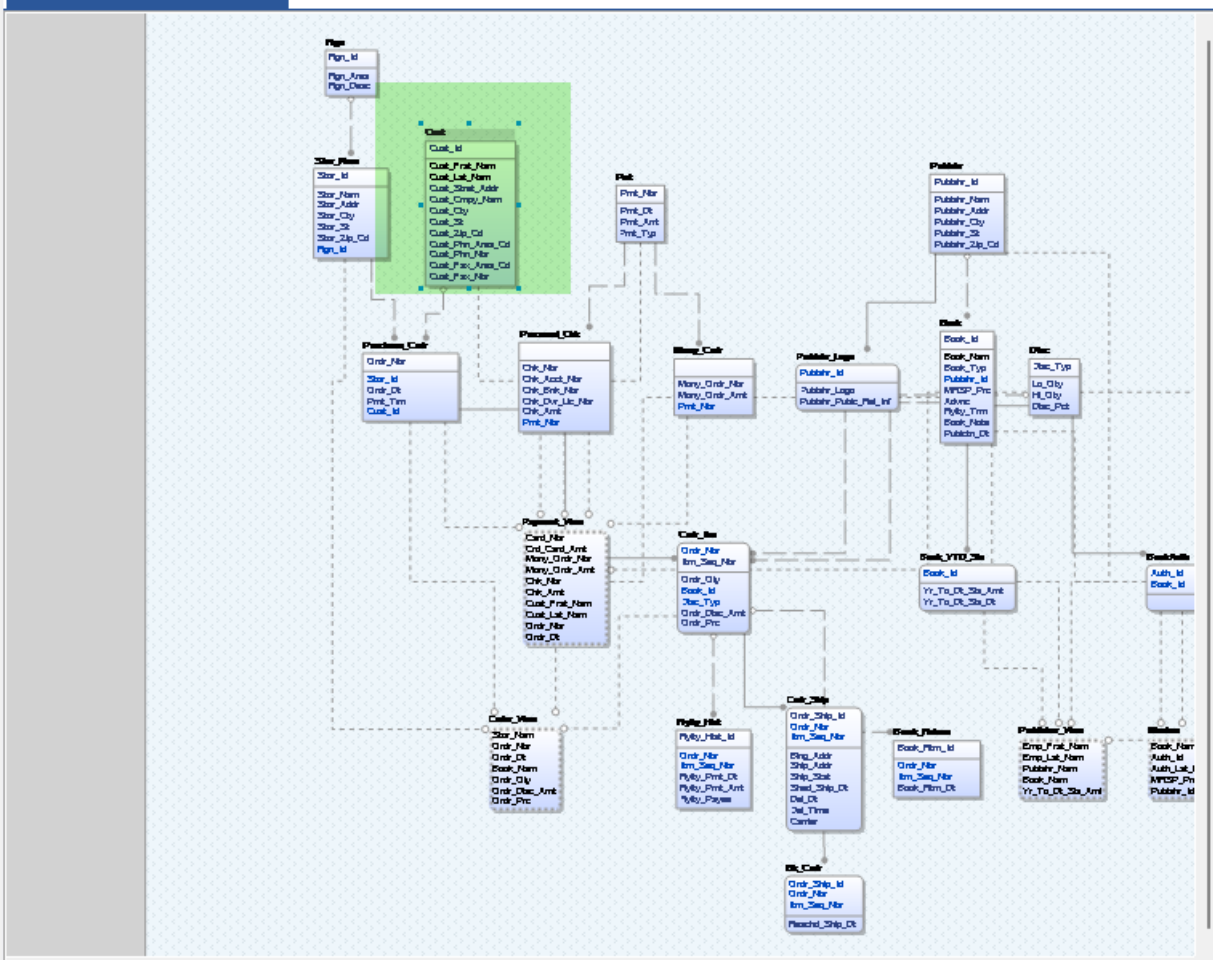
- Skills 101 Model 1
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Model Explorer | Project Explorer

Overview Action Log Advisories

Skills 101 Model 2.erwin X



Properties 🔍 ✕

General		
Name	Cust	
Physical Name	%EntityName()	
Owner Path	Skills 101 Model 1	
Comments		
Update Entity Definition to Match	☐	
Physical Only	☐	
Do Not Generate	☐	
Storage Locations		
Filegroup	PRIMARY	
Text Image		
Filestream Filegroup		
Filestream Partition Scheme		
Change Tracking Options		
Change Tracking	Disable	
Track Columns Updated	-- -- --	
Table Options		
Lock Escalation Type	Table	
Vardecimal Storage Format	☐	
Temporal Options		
Temporary Table	☐	
History Table Name		
Data Consistency Check	☐	
Property Types		
Theme		
Icons		
Image	Default Entity Small Icon	
Icon Image	Default Entity Icon	

erwin DM - [Skills 101 Model 2.erwin : Physical * (Read-Only)]

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Default DomainsTablesFunctionsRelationshipsScript TemplatesStored Procedure TemplateRI TriggerTriggers...Validation RuleView EditorTarget - SQL ServerModel Source EditorSubject Area EditorUser Defined PropertiesModel Properties

Model

Microsoft Sans10

B I U S A

Physical

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Skills 101 Model 2.erwin

Properties

Skills 101 Model 1

AggregatesAlways Encrypted KeysAnnotationsApplication RolesAssembliesAsymmetric KeysCertificatesCredentialsCryptographic ProvidersData Movement RulesData Movement SourcesData Vault 2.0Database Audit SpecificationsDatabase Encryption KeysDatabase RolesDatabasesDatatype StandardsDefault ValuesDomainsER DiagramsExternal Data SourcesExternal File FormatsExternal LanguagesExternal LibrariesFilesFulltext CatalogsFulltext StoplistsFunctionsLoginsModel SourcesNaming StandardsPartition FunctionsPartition Schemes

ModelSubject Area

LogicalPhysical

Stor_Addr

Stor_Dy

Stor_St

Stor_Zip_Cd

Ran_Id

Purchase_Ord

Ord_Nbr

Stor_Id

Ordr_Dt

Pmt_Trm

Cust_Id

Cust_Empty_Zean

Cust_Qy

Cust_St

Cust_Zip_Cd

Cust_Phn_Area_Cd

Cust_Phn_Nbr

Cust_Fax_Area_Cd

Cust_Fax_Nbr

Personal_Chk

Chk_Nbr

Chk_Acct_Nbr

Chk_Bnk_Nbr

Chk_Dvr_Loc_Nbr

Chk_Amt

Pmt_Nbr

Pmt_Dt

Pmt_Amt

Pmt_Typ

Mony_Ord

Mony_Ord_Nbr

Mony_Ord_Amt

Pmt_Nbr

Publ_Publ

Publ_Publ

Publ_Publ

Pubshr_Logs

Pubshr_Id

Pubshr_Logs

Pubshr_Publo_Rel_Inf

Book_Y

Book_K

Yr_To

Yr_To

Book_Return

Book_Rtn_Id

Card_Nbr

Ord_Card_Amt

Mony_Ord_Nbr

Mony_Ord_Amt

Chk_Nbr

Chk_Amt

Cust_Frst_Nam

Cust_Lst_Nam

Ord_Nbr

Ordr_Dt

Payment_View

Ord_Nbr

Ordr_Qty

Book_Id

Diso_Typ

Ord_Disc_Amt

Ordr_Pro

Ord_Itn

Ryly_Hist

Ryly_Hist_Id

Ord_Nbr

Ryly_Hist

Ord_Ship

Ord_Ship_Id

Ord_Nbr

Itm_Seq_Nbr

Bling_Add

Ord_Ship

General

NameChk_Acct_Nbr

Physical Name%AttName

Owner PathSkills 101 Model 1.Personal_Chk

TypeNon Primary Key

Domain ParentNumber

Physical Data Typeint

ImageDefault Number Icon

Null OptionNull

Property Types

Theme

FontMicrosoft Sans Serif

OverviewAction LogAdvisories

For Help, press F1

Non-Mart Model

SQL Server 2019/2022

72%

The screenshot displays the IBM Model Explorer interface. On the left, the 'Model Explorer' pane shows a tree view of the 'Skills 101 Model 1' with various database objects like Aggregates, Annotations, and Tables. The main area shows a logical model diagram with several tables and views connected by lines. A tooltip is visible over the 'FK_Mony_Ord_r_Pmt_N_7B5B524B' relationship, showing its parent-child details. On the right, the 'Properties' pane shows the configuration for the selected relationship, including its name, type, cardinality, and role actions.

Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Database Audit Specificati...
 - Database Encryption Keys
 - Database Roles
 - Databases
 - Datatype Standards
 - Default Values
 - Domains
 - ER Diagrams
 - External Data Sources
 - External File Formats
 - External Languages
 - External Libraries
 - Files
 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
 - Naming Standards
 - Partition Functions
 - Partition Schemes

Model Explorer | **Subject Area**

Model Explorer | **Project Explorer**

Logical | **Physical**

Skills 101 Model 2.erwin

FK_Mony_Ord_r_Pmt_N_7B5B524B (Pmt to Mony_Ord_r)

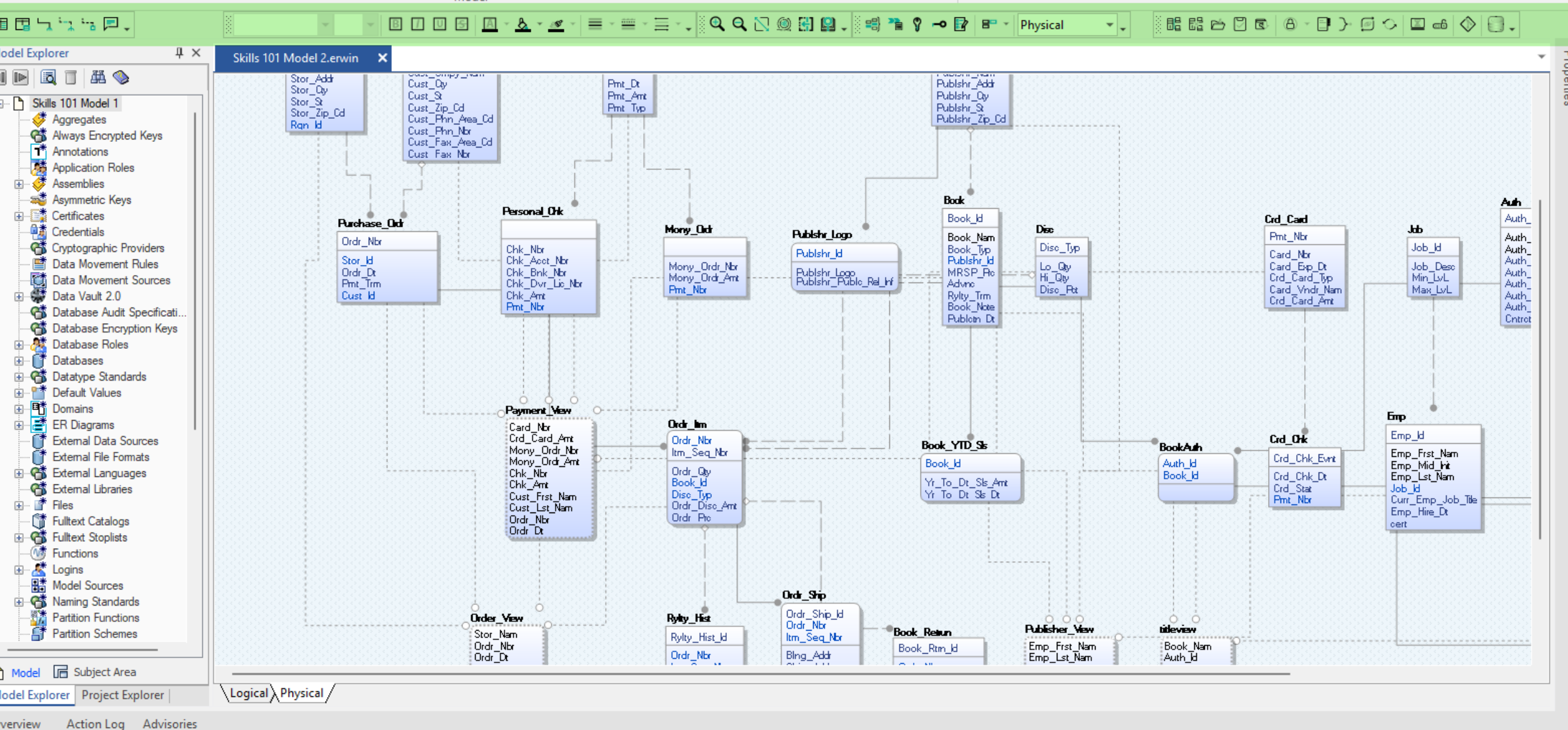
Parent: Pmt
Child: Mony_Ord_r
Auto Routing: Off

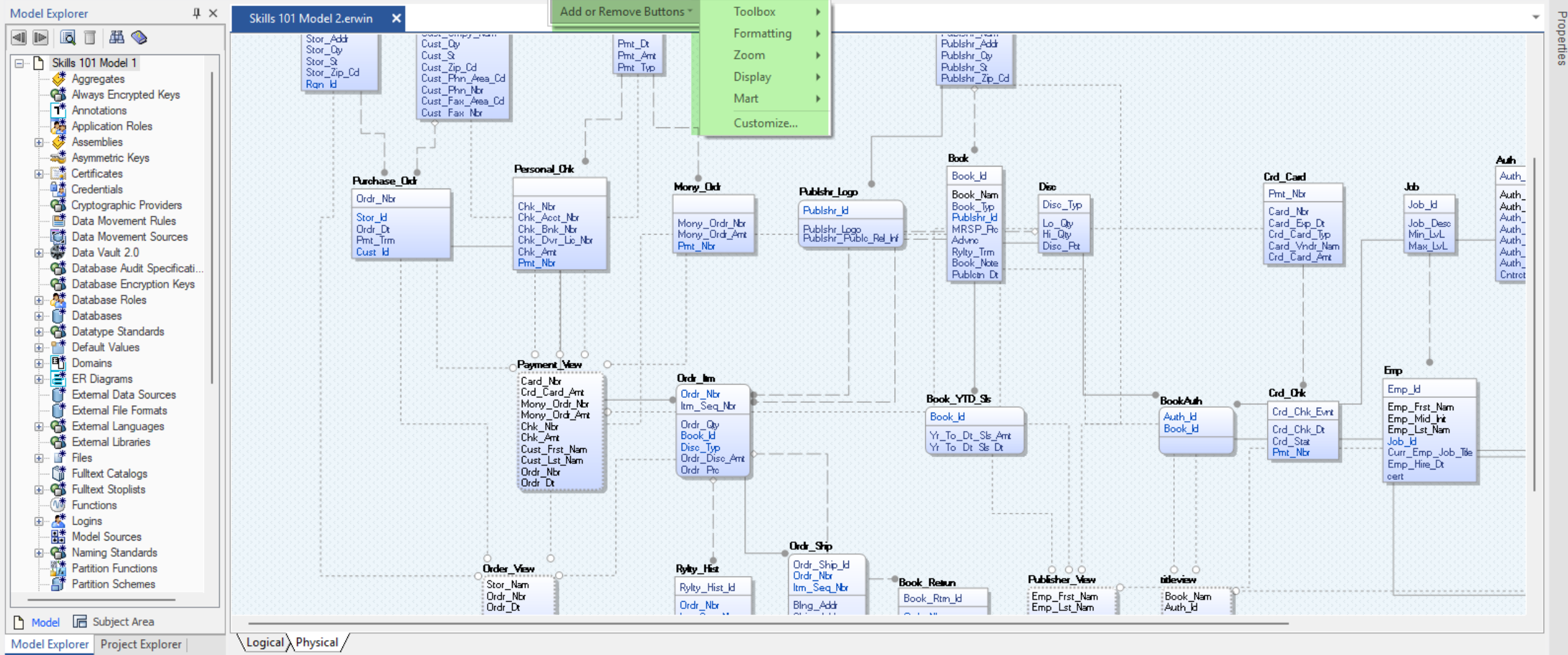
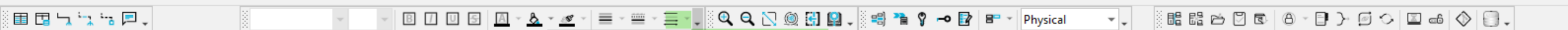
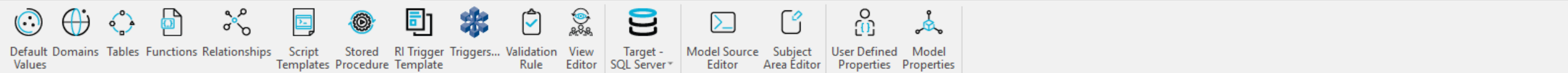
Properties

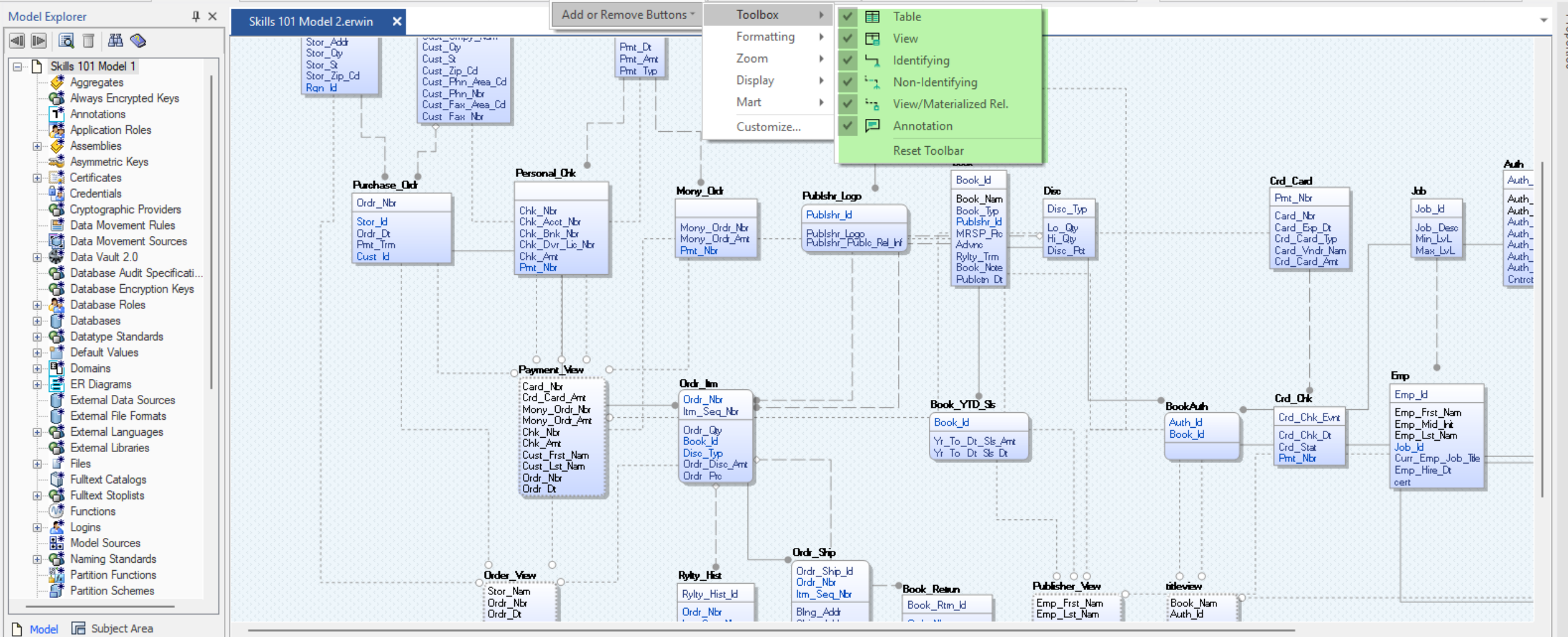
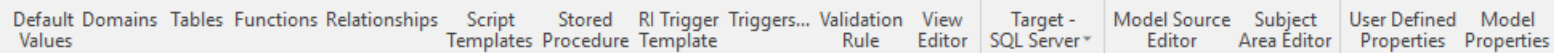
Owner Path	Skills 101 Model 1
Type	Non-Identifying
Parent Entity	Pmt
Child Entity	Mony_Ord_r
Parent-to-Child Phrase	
Cardinality	Zero, One or More
Cardinality Value	
Role Name	
Key Group	
RI Actions	
Child Delete Rule	No Action
Child Insert Rule	None
Child Update Rule	No Action
Parent Delete Rule	Cascade
Parent Insert Rule	None
Parent Update Rule	Cascade
Property Types	
Theme	



Toolbars



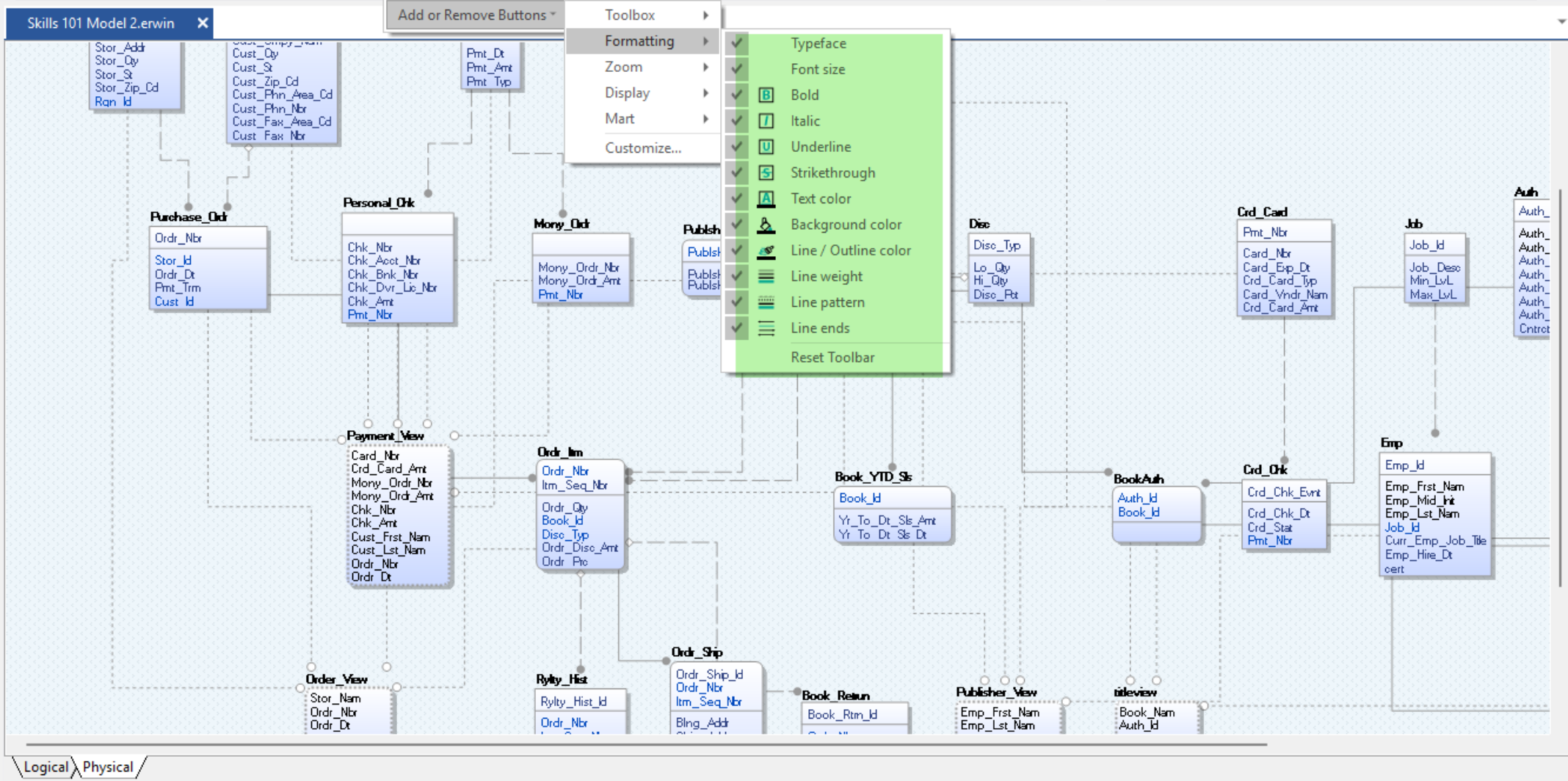


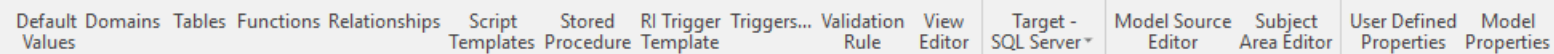


Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
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 - Cryptographic Providers
 - Data Movement Rules
 - Data Movement Sources
 - Data Vault 2.0
 - Database Audit Specificati...
 - Database Encryption Keys
 - Database Roles
 - Databases
 - Datatype Standards
 - Default Values
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 - ER Diagrams
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 - Files
 - Fulltext Catalogs
 - Fulltext Stoplists
 - Functions
 - Logins
 - Model Sources
 - Naming Standards
 - Partition Functions
 - Partition Schemes

Model Explorer | Project Explorer

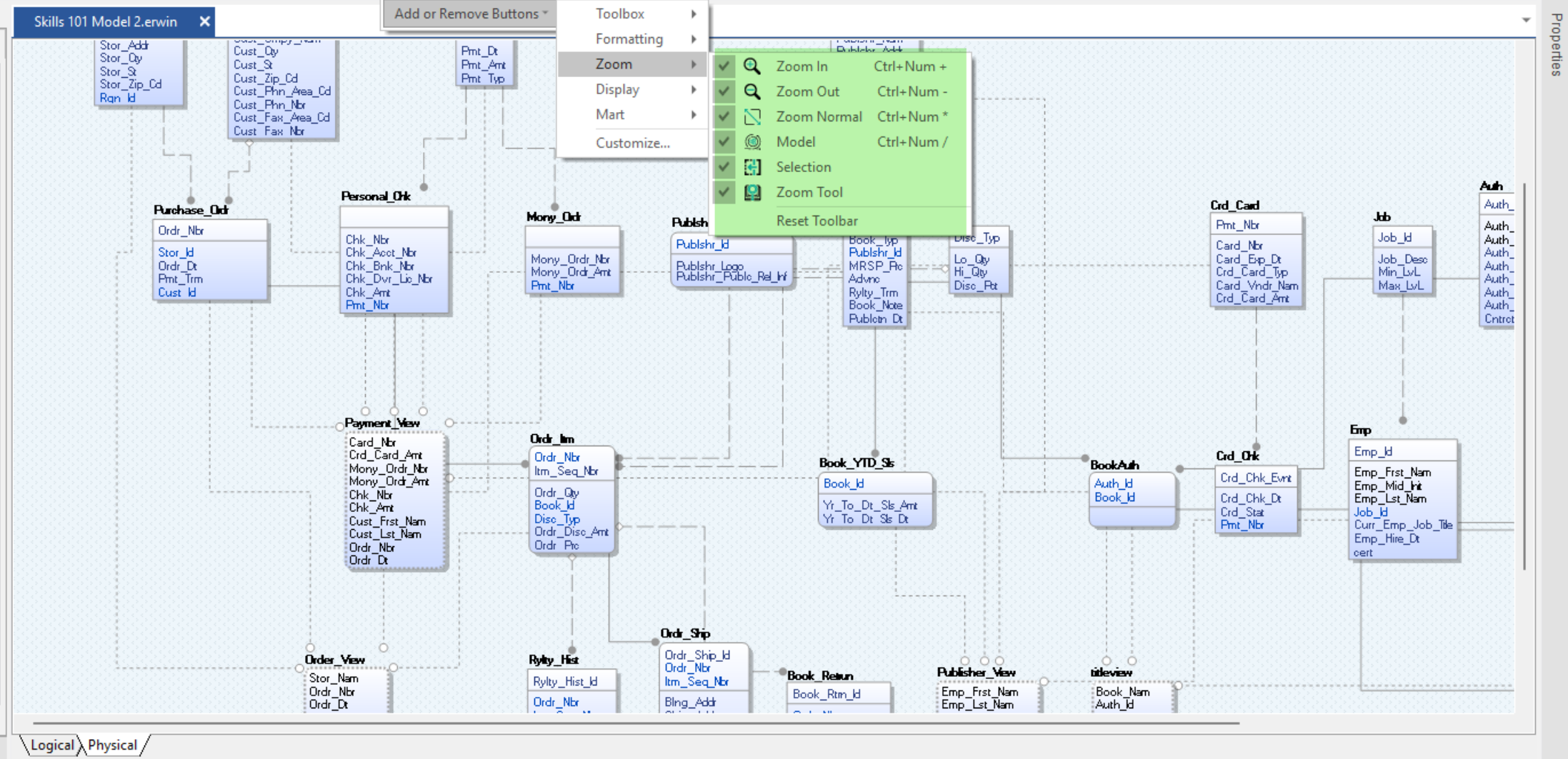


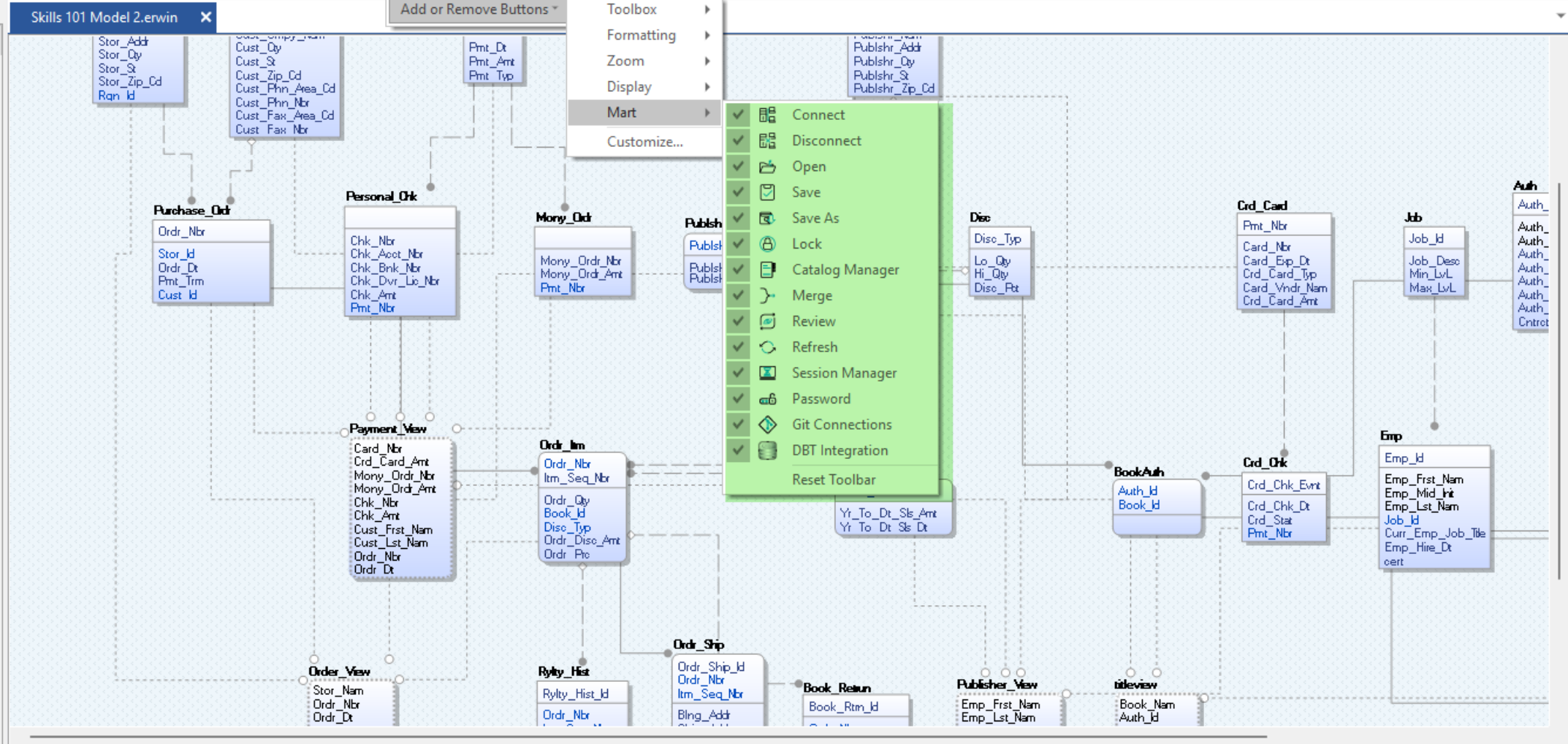


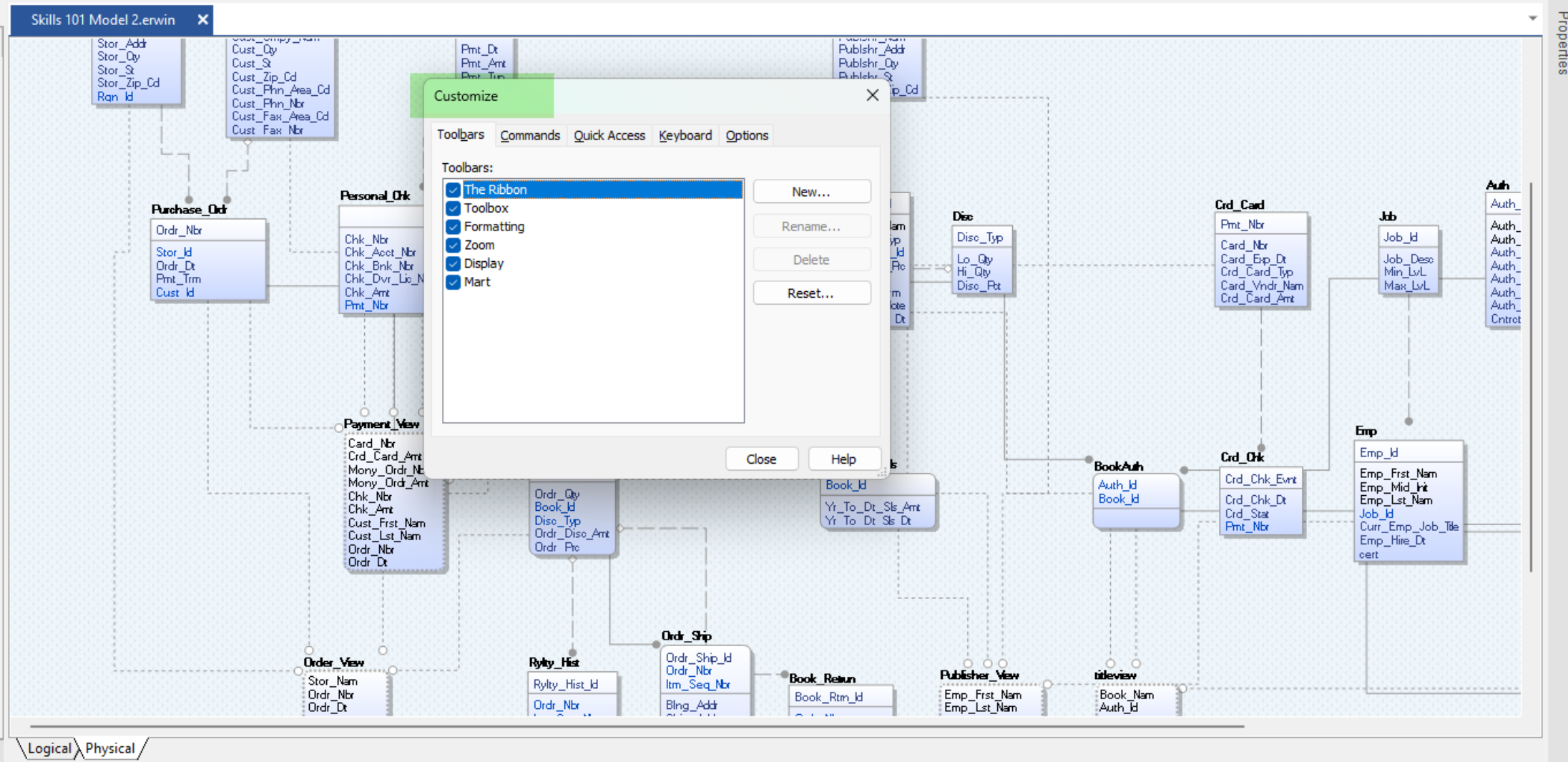
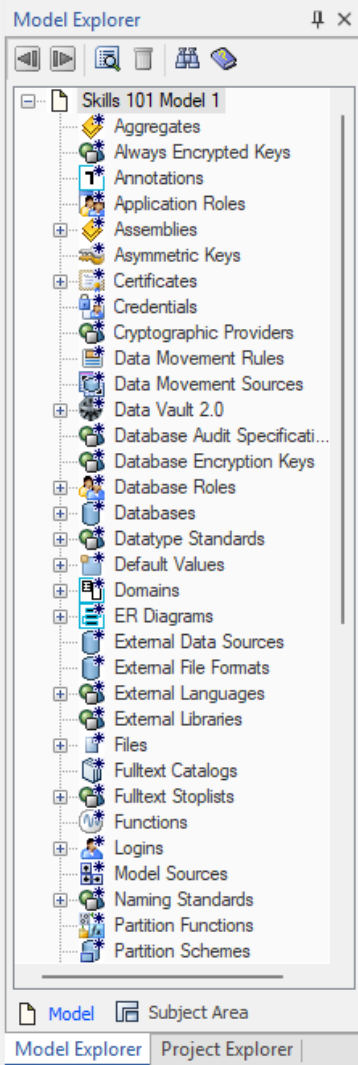
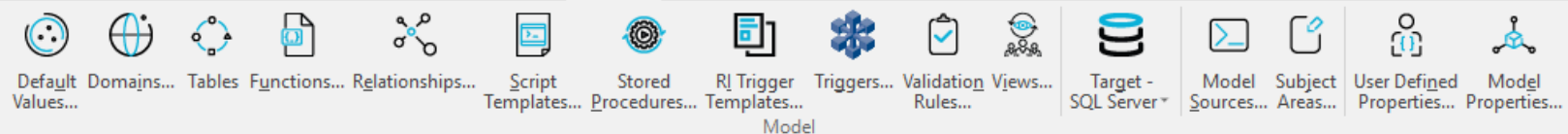
The screenshot displays the 'Model Explorer' pane in SQL Server Enterprise Manager. The tree view is titled 'Skills 101 Model 1'. The following items are listed in the tree:

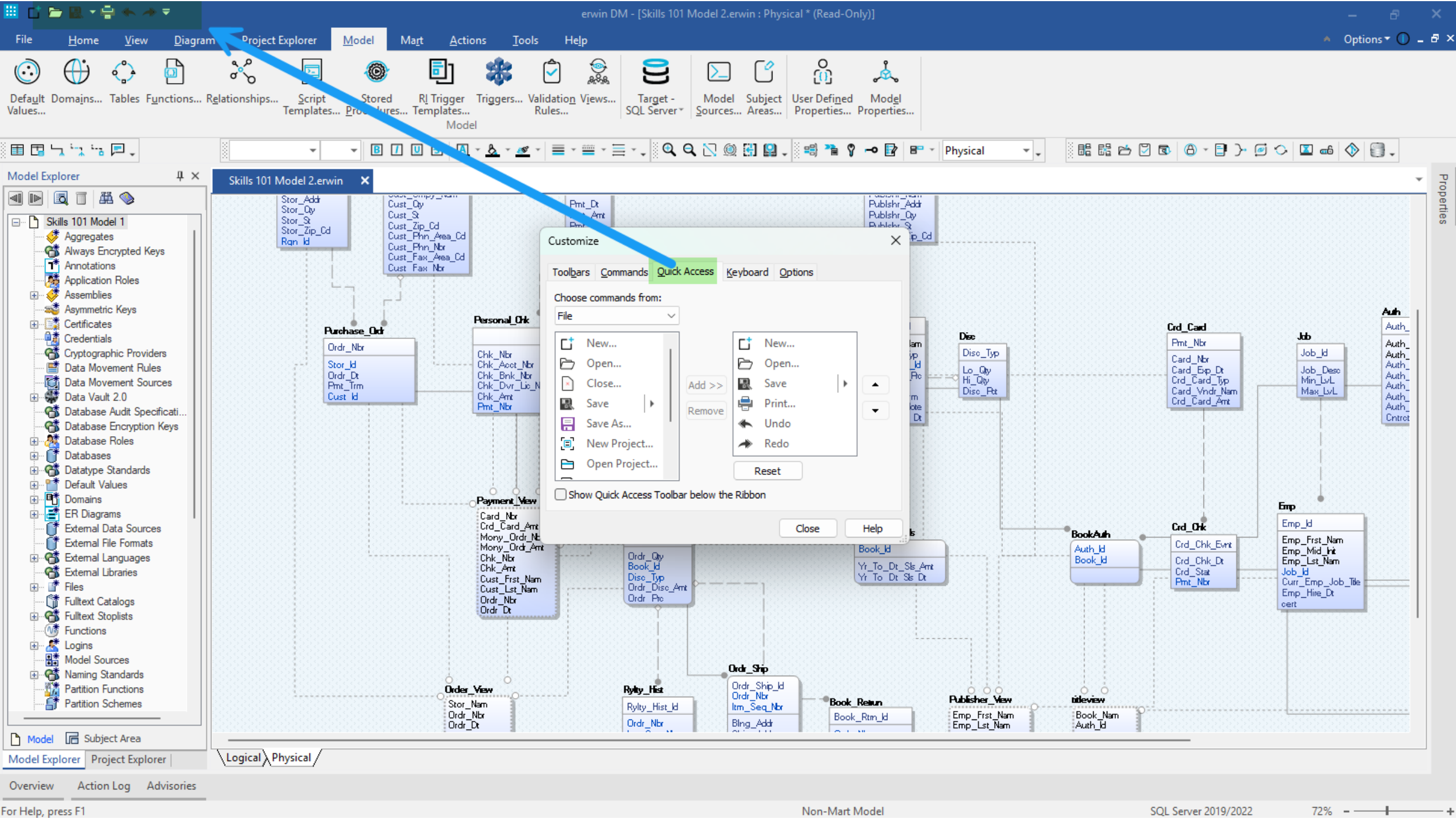
- Aggregates
- Always Encrypted Keys
- Annotations (Expanded)
- Application Roles
- Assemblies
- Asymmetric Keys
- Certificates
- Credentials
- Cryptographic Providers
- Data Movement Rules
- Data Movement Sources
- Data Vault 2.0
- Database Audit Specifications
- Database Encryption Keys
- Database Roles
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- Fulltext Catalogs
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- Functions
- Logins
- Model Sources
- Naming Standards
- Partition Functions
- Partition Schemes

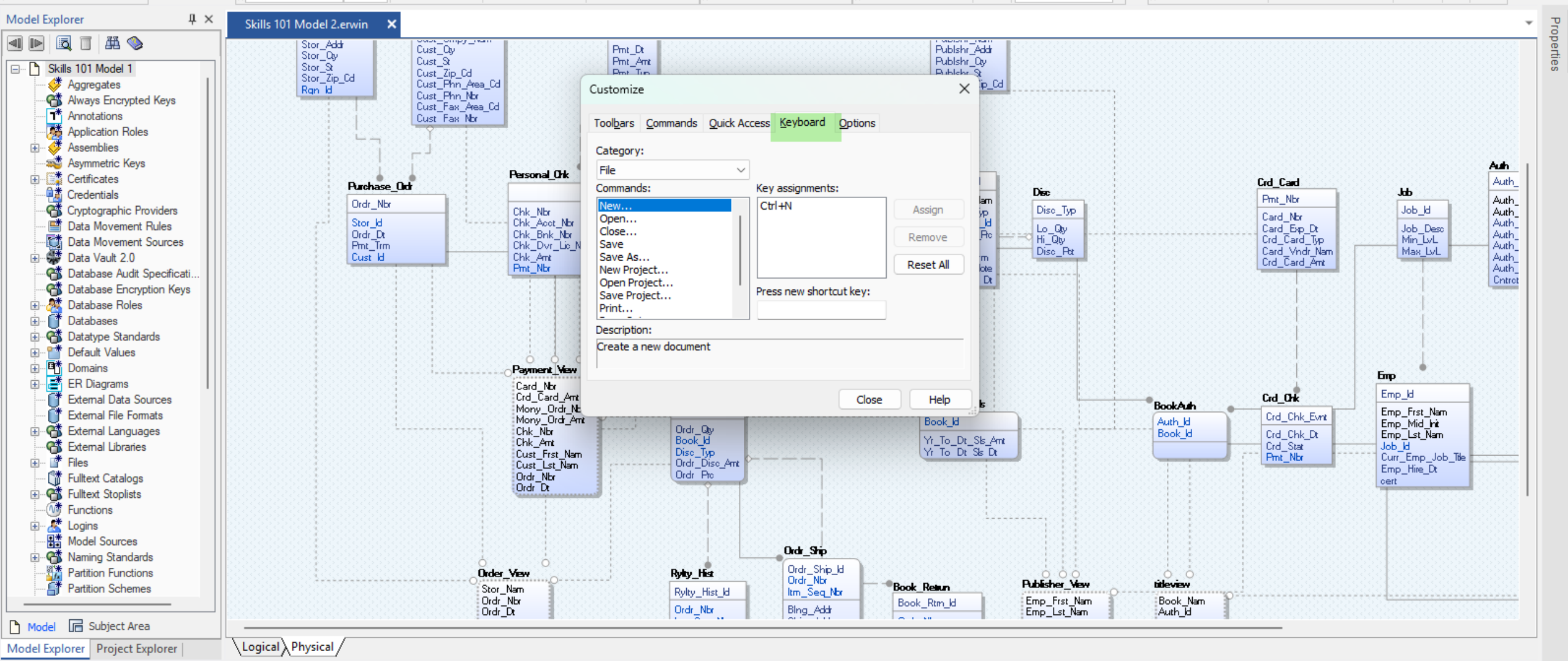
The 'Annotations' folder is expanded, showing a list of annotations. The bottom of the pane shows the 'Model Explorer' and 'Subject Area' tabs.









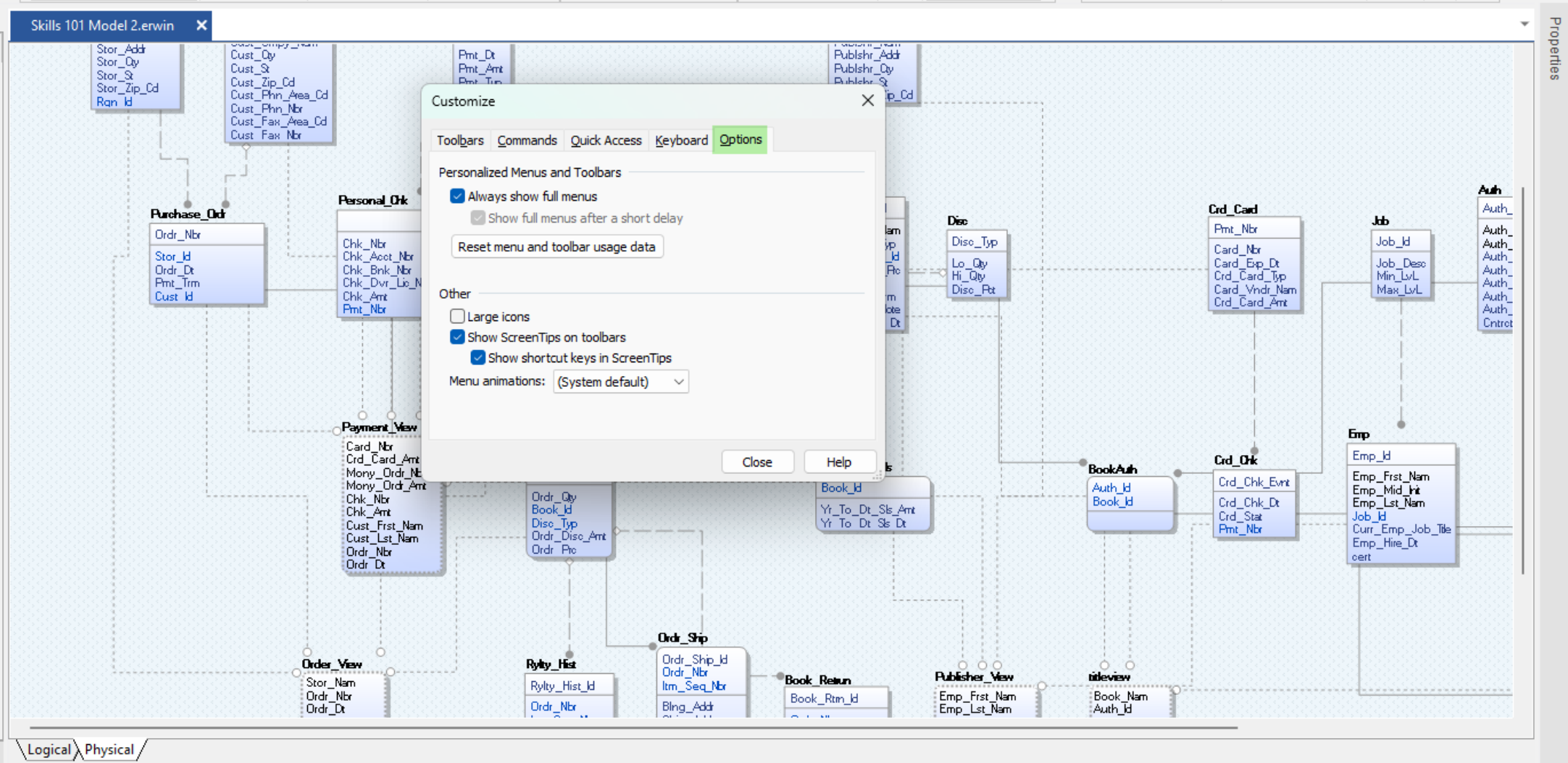


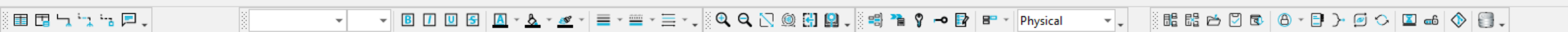
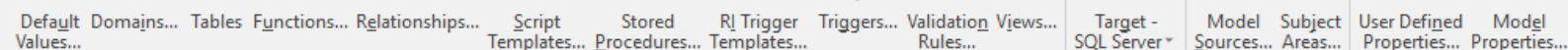


Model Explorer

- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
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Model Explorer | Subject Area

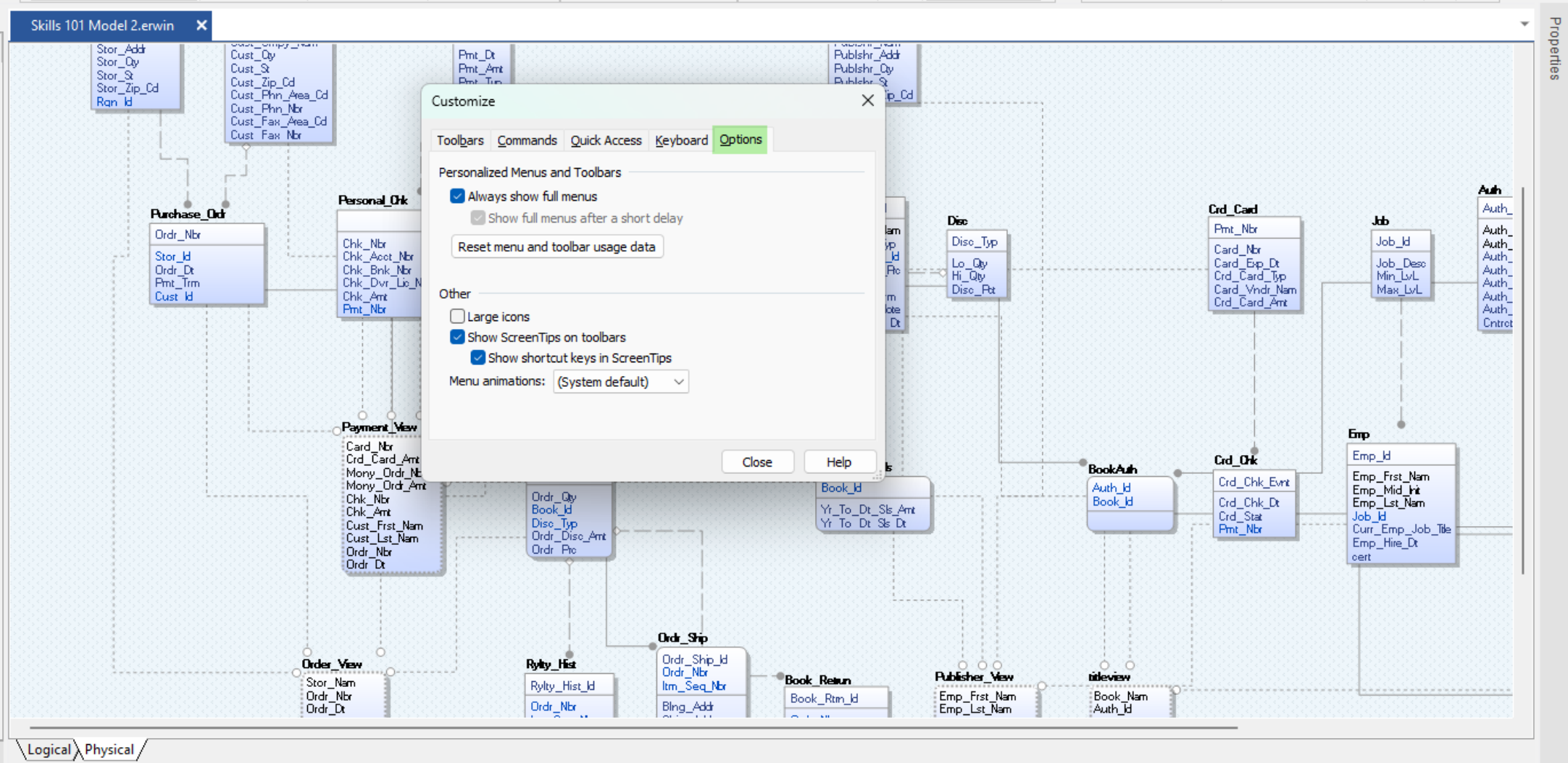




Model Explorer

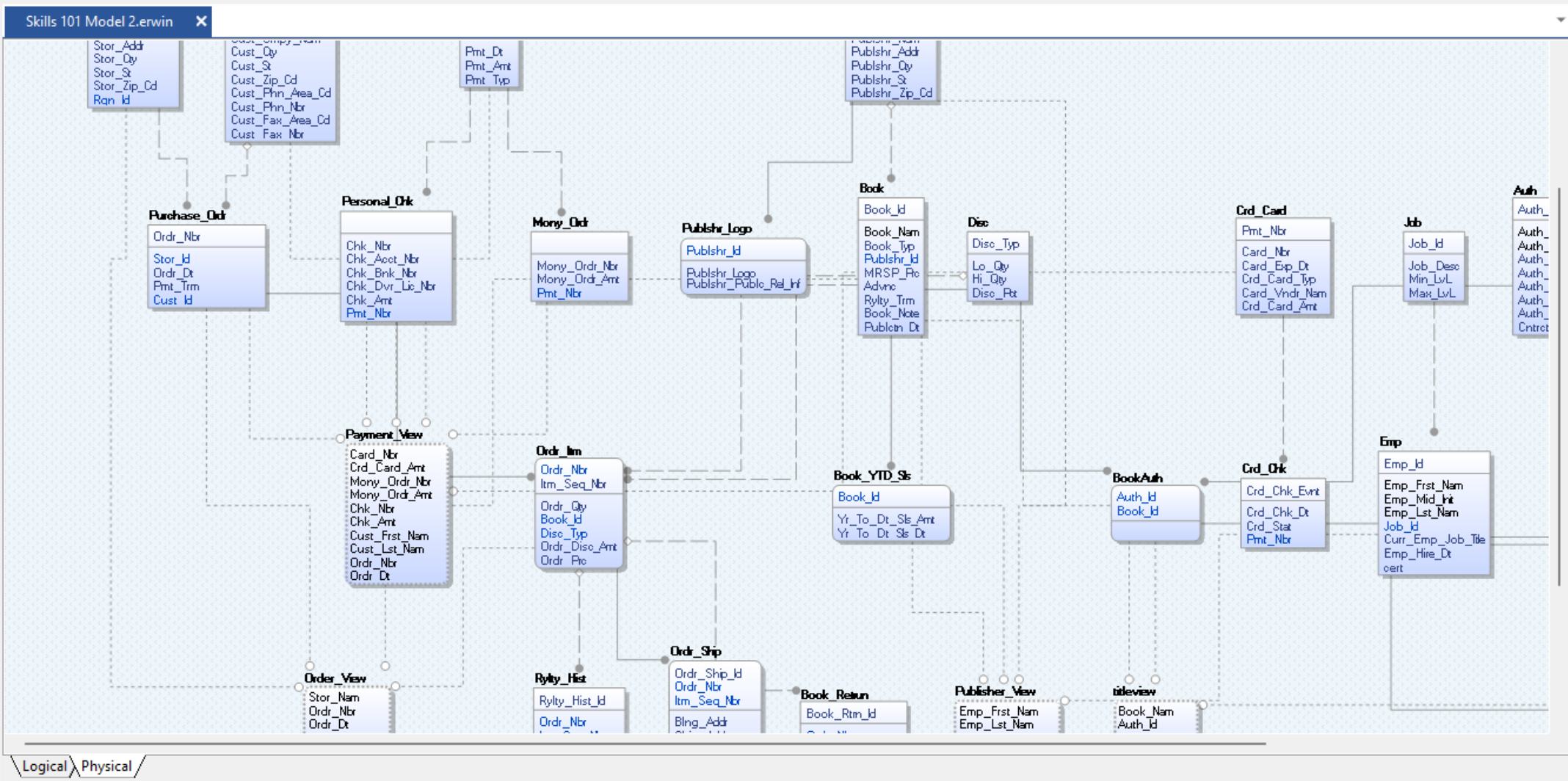
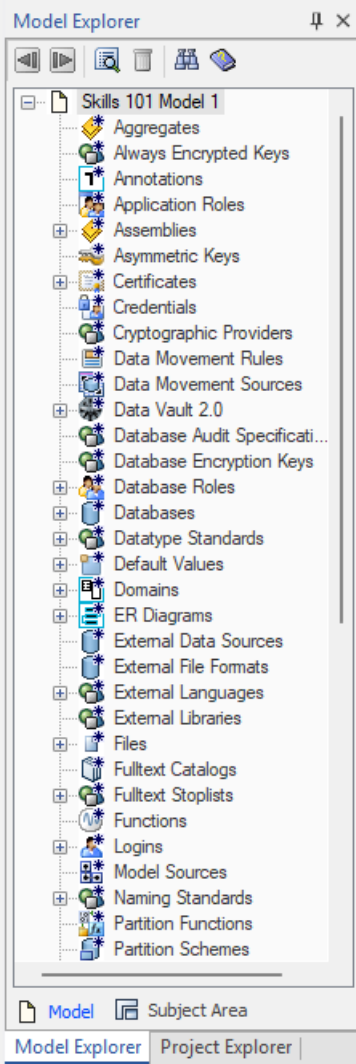
- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
 - Credentials
 - Cryptographic Providers
 - Data Movement Rules
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 - Partition Schemes

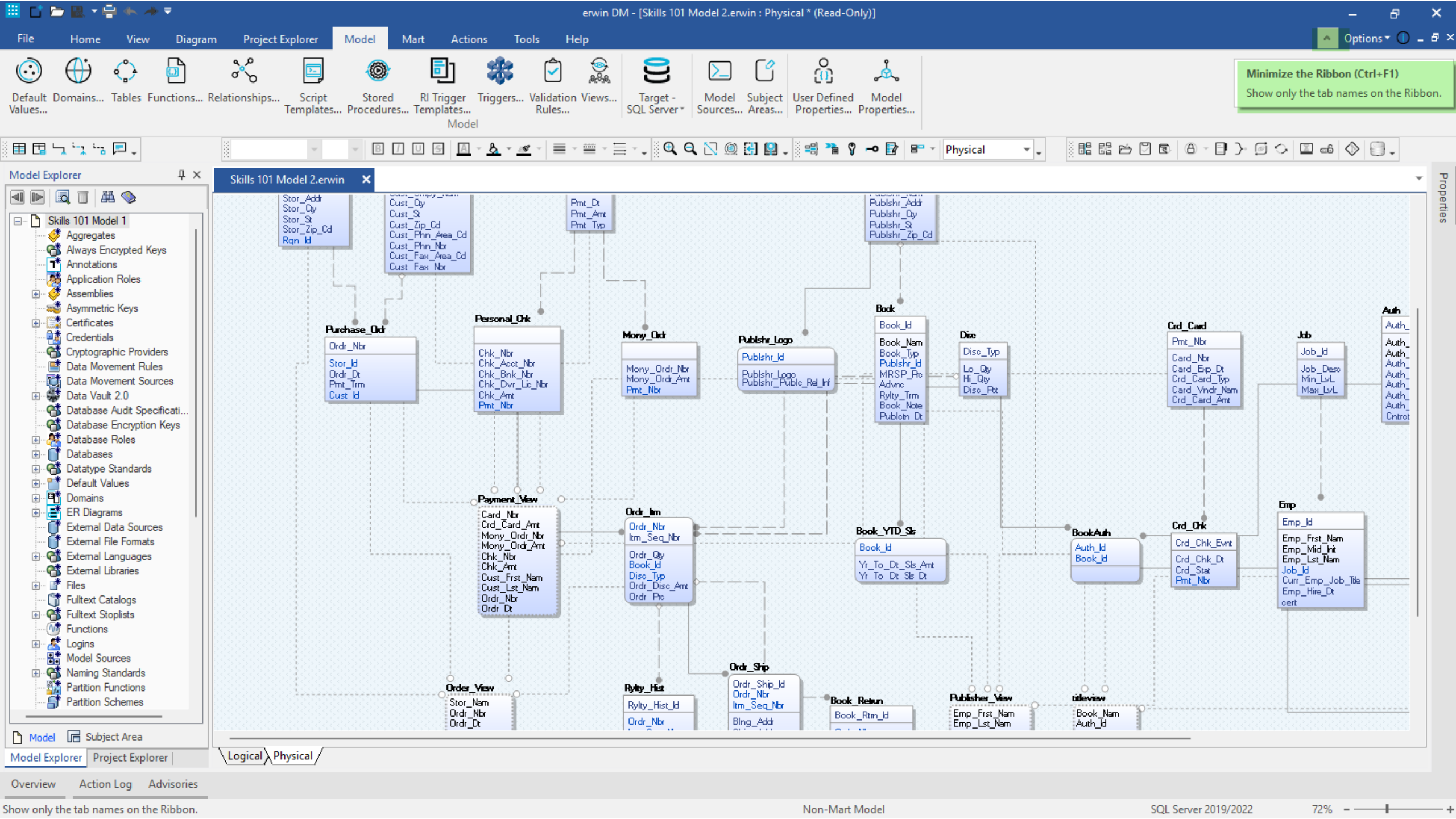
Model Explorer | Subject Area

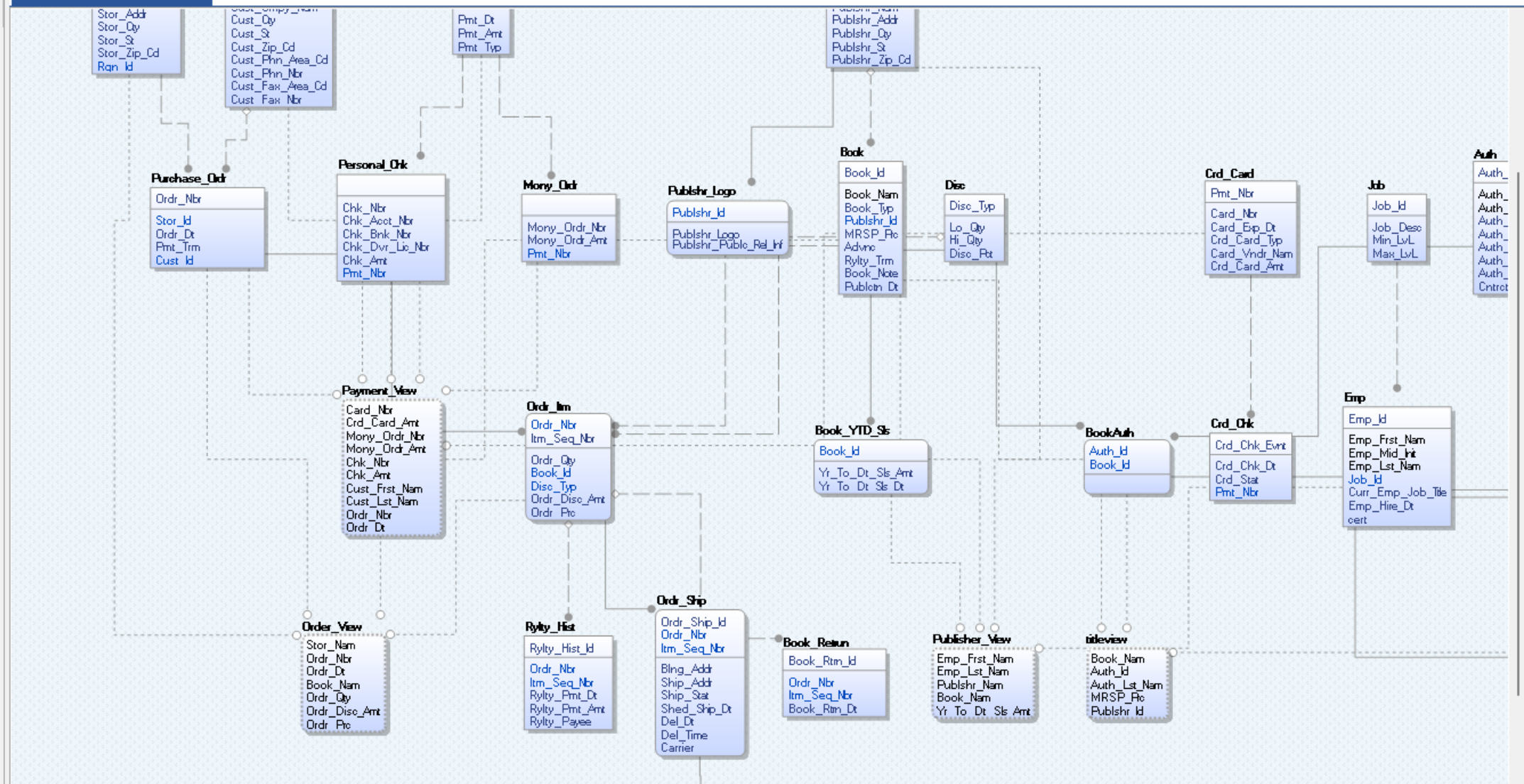
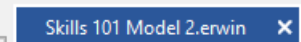
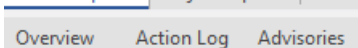
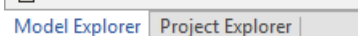
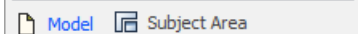
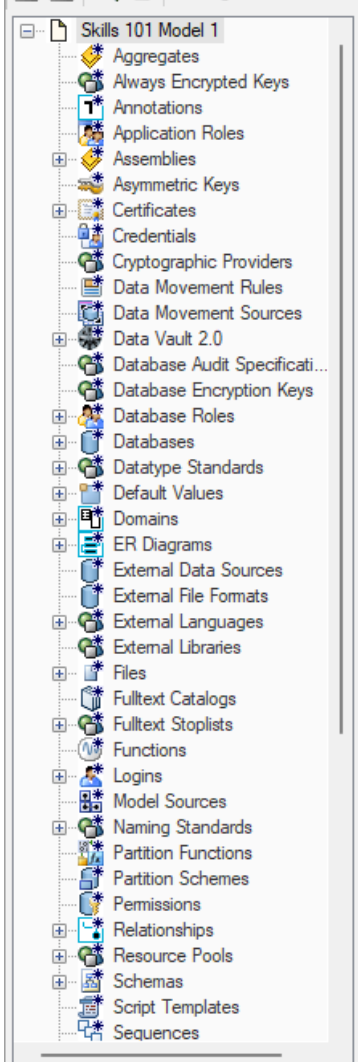
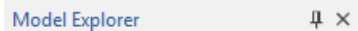


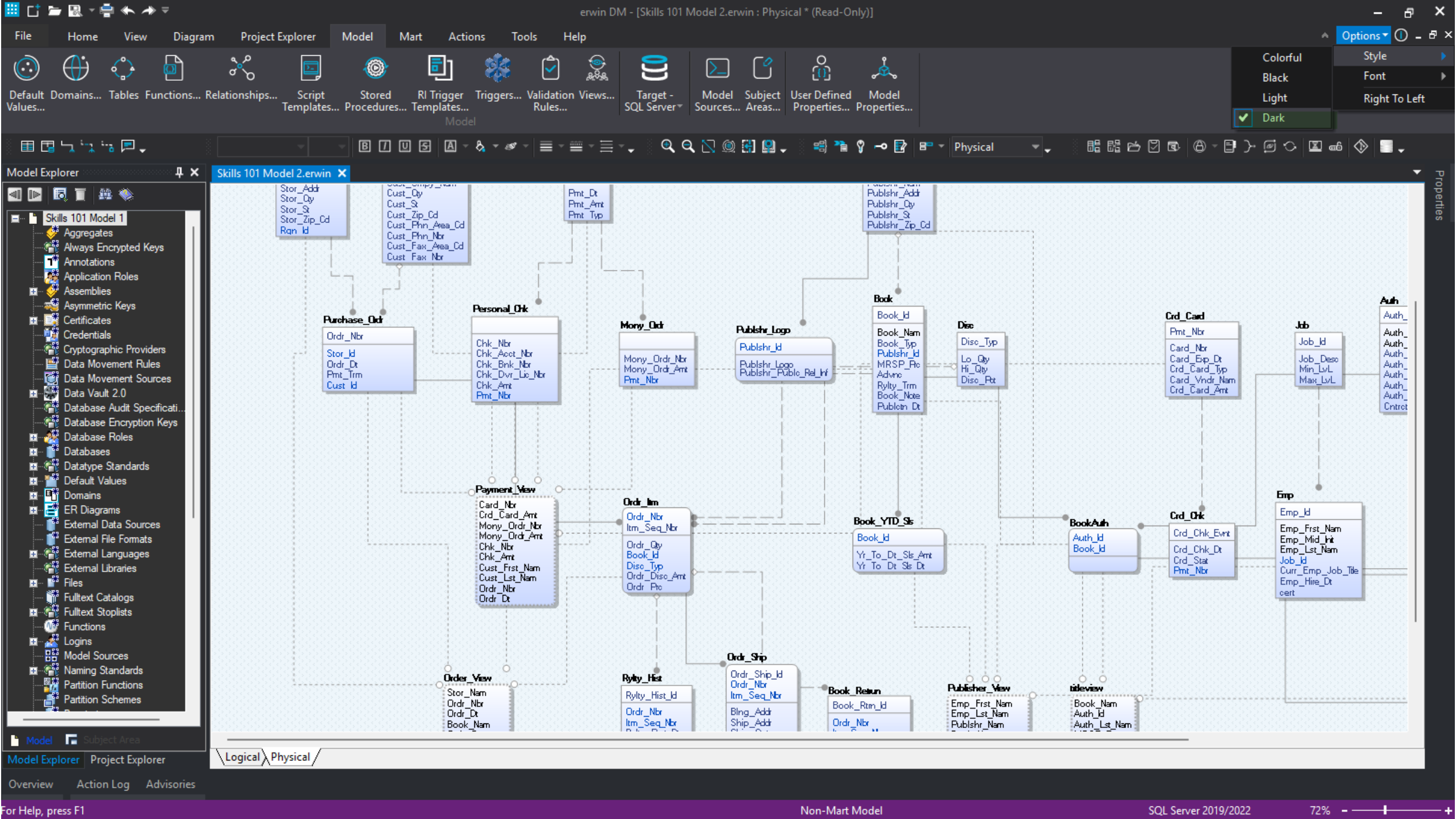


Top Right





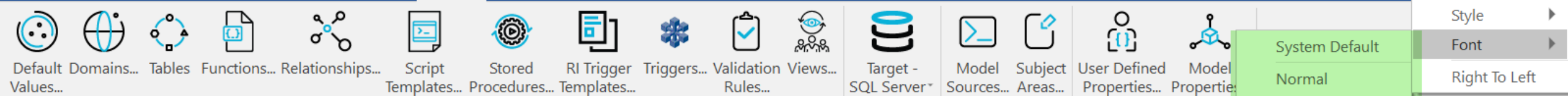




The screenshot displays the Skills 101 Model 1 database design tool interface. On the left, a tree view lists various database components: Aggregates, Always Encrypted Keys, Annotations, Application Roles, Assemblies, Asymmetric Keys, Certificates, Credentials, Cryptographic Providers, Data Movement Rules, Data Movement Sources, Data Vault 2.0, Database Audit Specifications, Database Encryption Keys, Database Roles, Databases, Datatype Standards, Default Values, Domains, ER Diagrams, External Data Sources, External File Formats, External Languages, External Libraries, Files, Fulltext Catalogs, Fulltext Stoplists, Functions, Logins, Model Sources, Naming Standards, Partition Functions, and Partition Schemes. The main workspace shows a complex ER diagram with the following tables and their attributes:

- Stor**: Stor_Addr, Stor_Qty, Stor_St, Stor_Zip_Cd, Rgn_Id
- Cust**: Cust_Qty, Cust_St, Cust_Zip_Cd, Cust_Phn_Area_Cd, Cust_Phn_Nbr, Cust_Fax_Area_Cd, Cust_Fax_Nbr
- Pmt**: Pmt_Dt, Pmt_Amt, Pmt_Typ
- Publishr**: Publishr_Addr, Publishr_Qty, Publishr_St, Publishr_Zip_Cd
- Purchase_Ord**: Ord_Nbr, Stor_Id, Ord_Dt, Pmt_Trm, Cust_Id
- Personal_Chk**: Chk_Nbr, Chk_Acct_Nbr, Chk_Bnk_Nbr, Chk_Dvr_Loc_Nbr, Chk_Amt, Pmt_Nbr
- Money_Ord**: Money_Ord_Nbr, Money_Ord_Amt, Pmt_Nbr
- Publishr_Logo**: Publishr_Id, Publishr_Logo, Publishr_Publo_Rel_Inf
- Book**: Book_Id, Book_Nam, Book_Typ, Publishr_Id, MRSP_Prc, Advnc, Rlyty_Trm, Book_Note, Publein_Dt
- Disc**: Disc_Typ, Lo_Qty, Hi_Qty, Disc_Ret
- Crdr_Card**: Pmt_Nbr, Card_Nbr, Card_Exp_Dt, Crd_Card_Typ, Card_Vndr_Nam, Crd_Card_Amt
- Job**: Job_Id, Job_Desc, Min_Lvl, Max_Lvl
- Auth**: Auth_
- Payment_View**: Card_Nbr, Crd_Card_Amt, Money_Ord_Nbr, Money_Ord_Amt, Chk_Nbr, Chk_Amt, Cust_Frst_Nam, Cust_Lst_Nam, Ord_Nbr, Ord_Dt
- Order_Item**: Ord_Nbr, Itm_Seq_Nbr, Ord_Qty, Book_Id, Disc_Typ, Ord_Disc_Amt, Ord_Prc
- Book_YTD_Sls**: Book_Id, Yr_To_Dt_Sls_Amt, Yr_To_Dt_Sls_Dt
- BookAuth**: Auth_Id, Book_Id
- Crdr_Chk**: Crd_Chk_Evnt, Crd_Chk_Dt, Crd_Stat, Pmt_Nbr
- Emp**: Emp_Id, Emp_Frst_Nam, Emp_Mid_Ini, Emp_Lst_Nam, Job_Id, Curr_Emp_Job_Tile, Emp_Hire_Dt, cert
- Order_View**: Stor_Nam, Ord_Nbr, Ord_Dt
- Rlyty_Hist**: Rlyty_Hist_Id, Ord_Nbr
- Order_Ship**: Ord_Ship_Id, Ord_Nbr, Itm_Seq_Nbr, Blnk_Add
- Book_Return**: Book_Rtn_Id
- Publisher_View**: Emp_Frst_Nam, Emp_Lst_Nam
- titleview**: Book_Nam, Auth_Id

The diagram uses solid lines for primary keys and dashed lines for foreign keys to show the relationships between these tables.



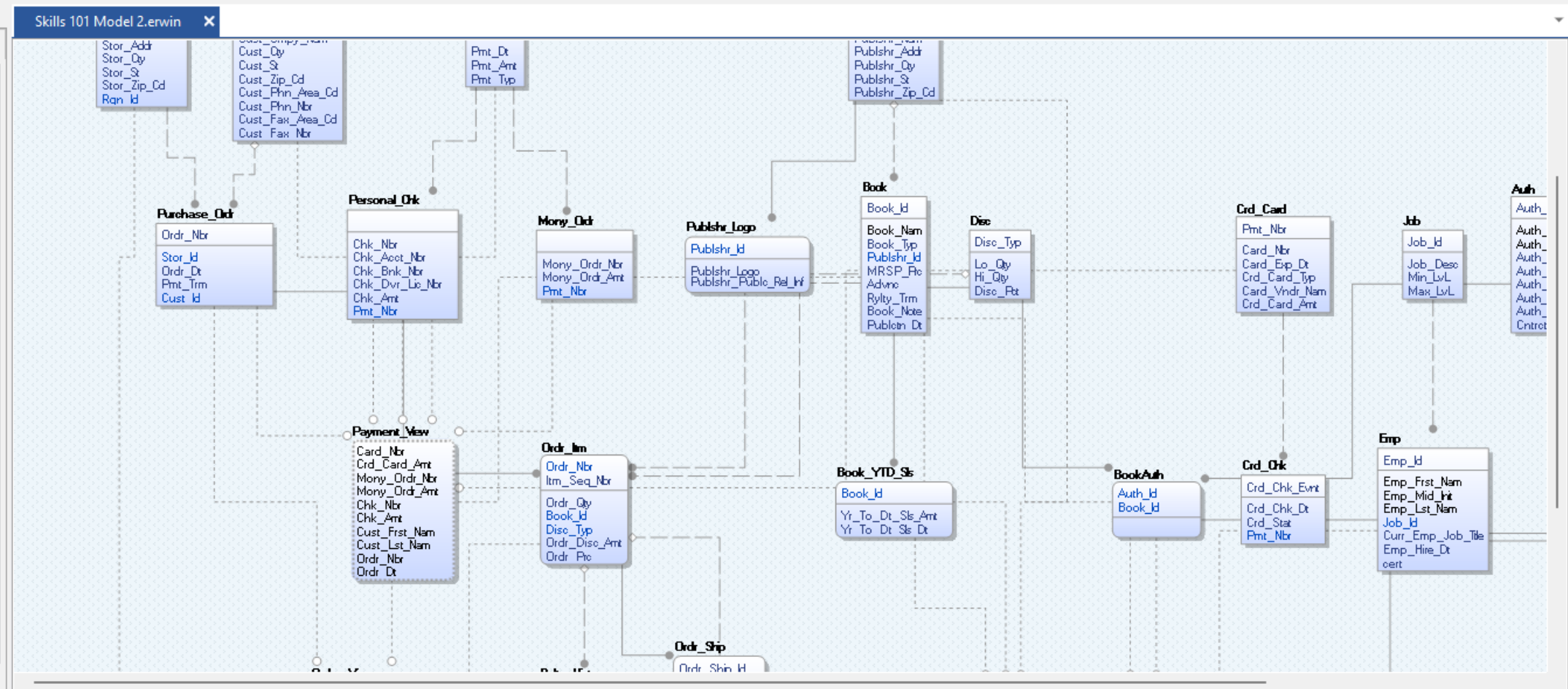
Model Explorer

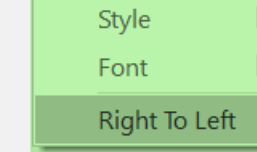
- Skills 101 Model 1
 - Aggregates
 - Always Encrypted Keys
 - Annotations
 - Application Roles
 - Assemblies
 - Asymmetric Keys
 - Certificates
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 - Logins
 - Model Sources

Model Subject Area

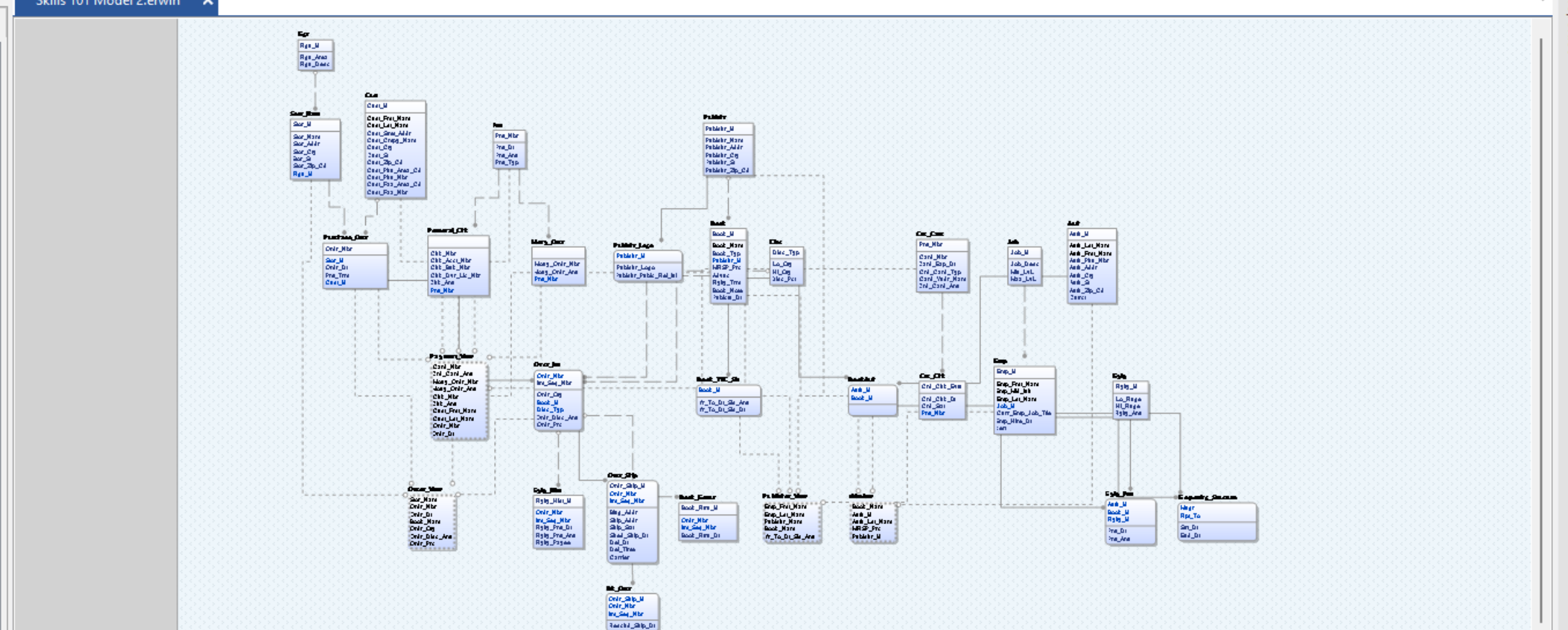
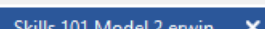
Model Explorer | Project Explorer

Overview Action Log Advisories



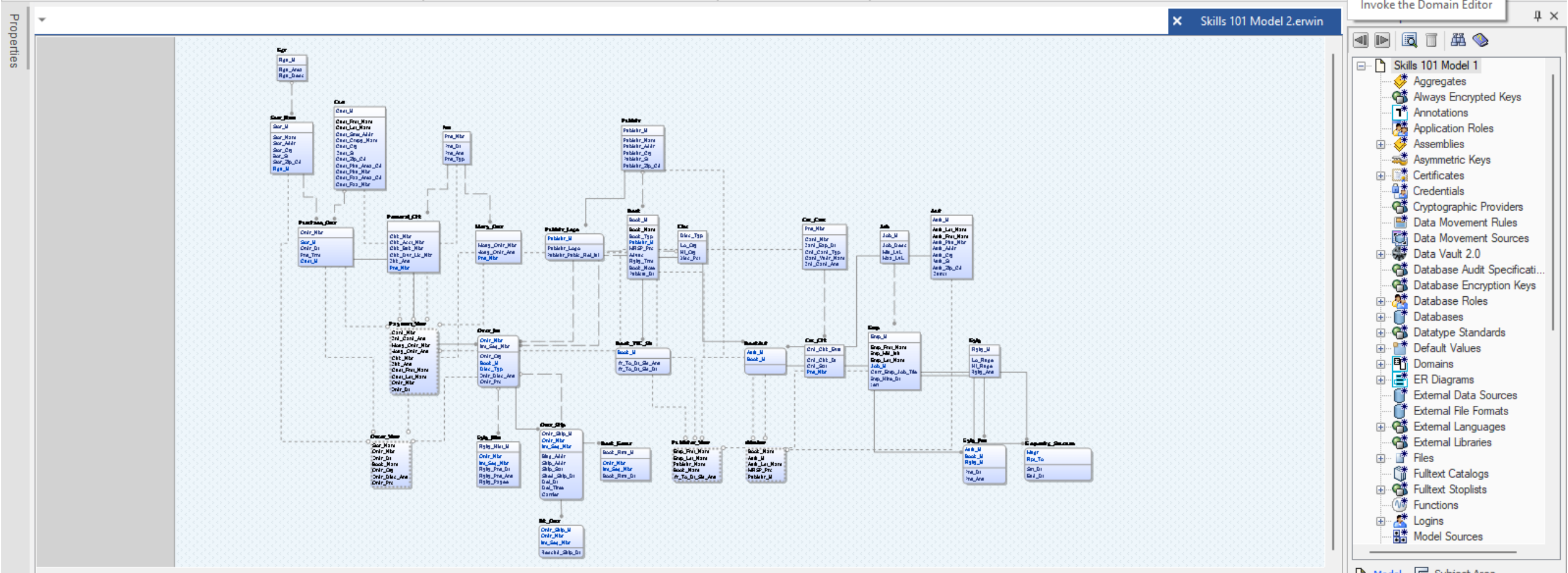
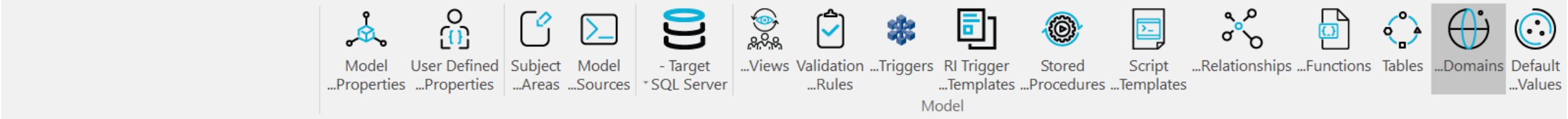


Set the alignment of erwin Data Modeler UI to appear in right to left direction



Model Explorer Project Explorer

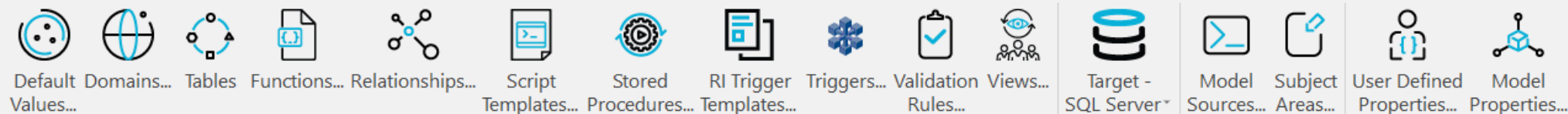
Logical Physical



Logical Physical Model Explorer Project Explorer

40% SQL Server 2019/2022 Non-Mart Model Invoke the Domain Editor

40% SQL Server 2019/2022 Non-Mart Model Invoke the Domain Editor



About (F12)

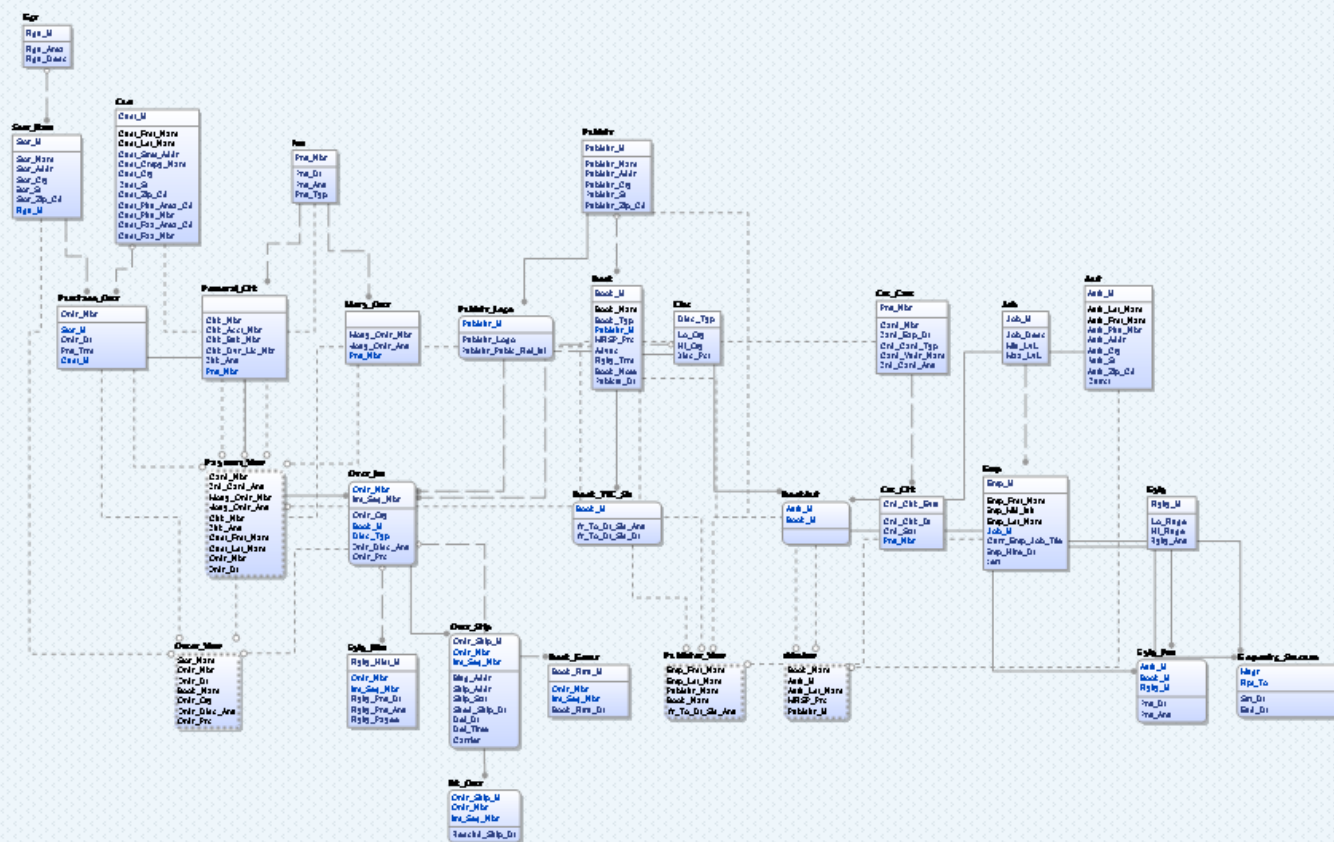
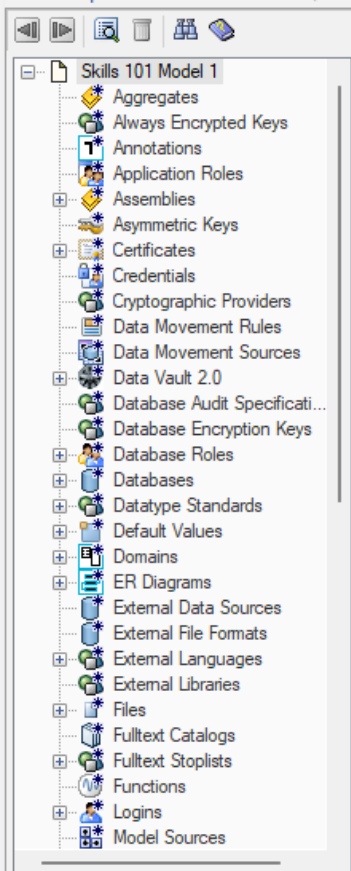
Display program information, version number and copyright

Model



Model Explorer

Skills 101 Model 2.erwin X



Model Subject Area

Model Explorer Project Explorer

Logical Physical

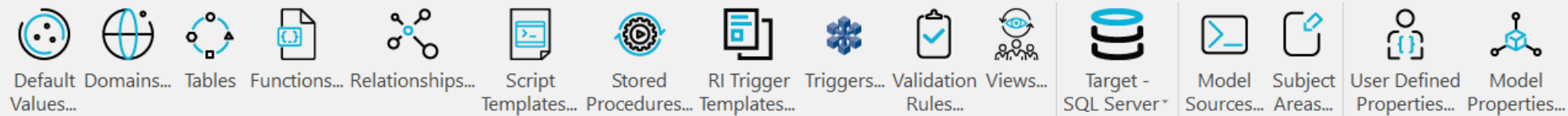
Overview Action Log Advisories

Display program information, version number and copyright

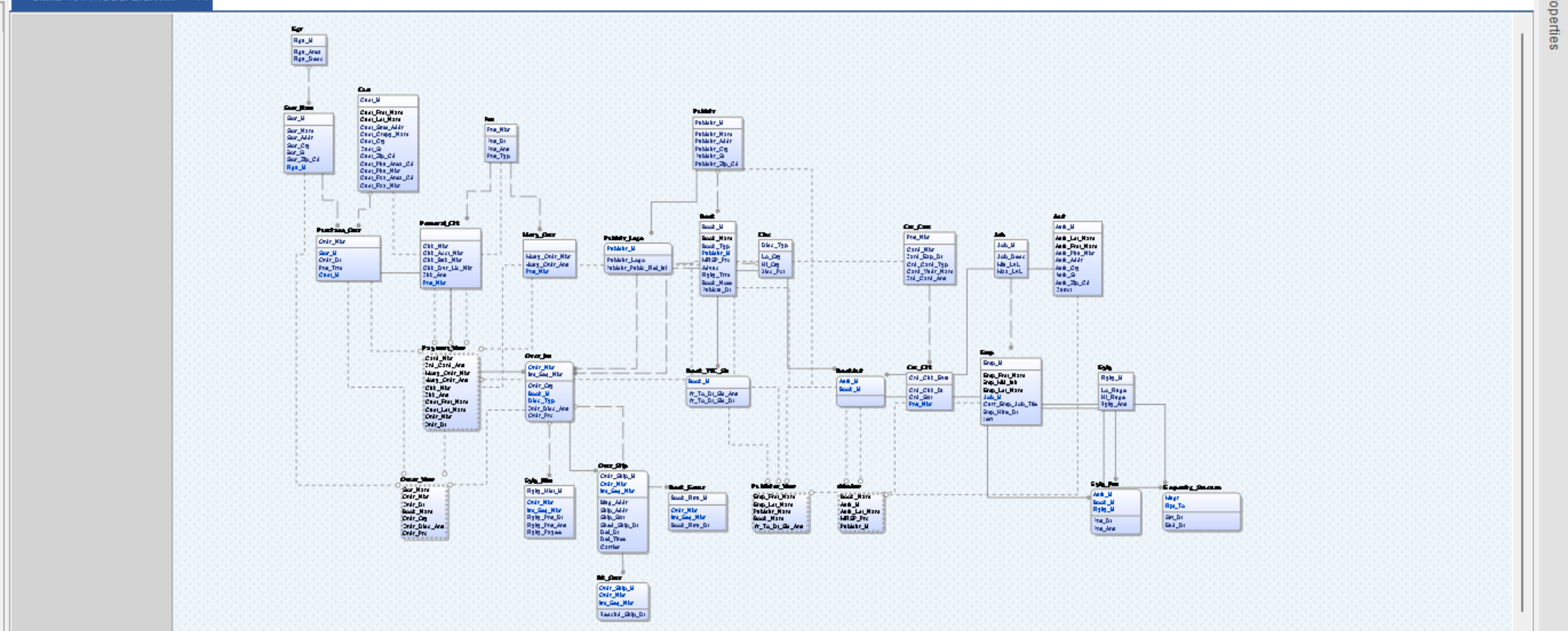
Non-Mart Model

SONI Server 2019/2022

40% - 



Skills 101 Model 2.erwin X

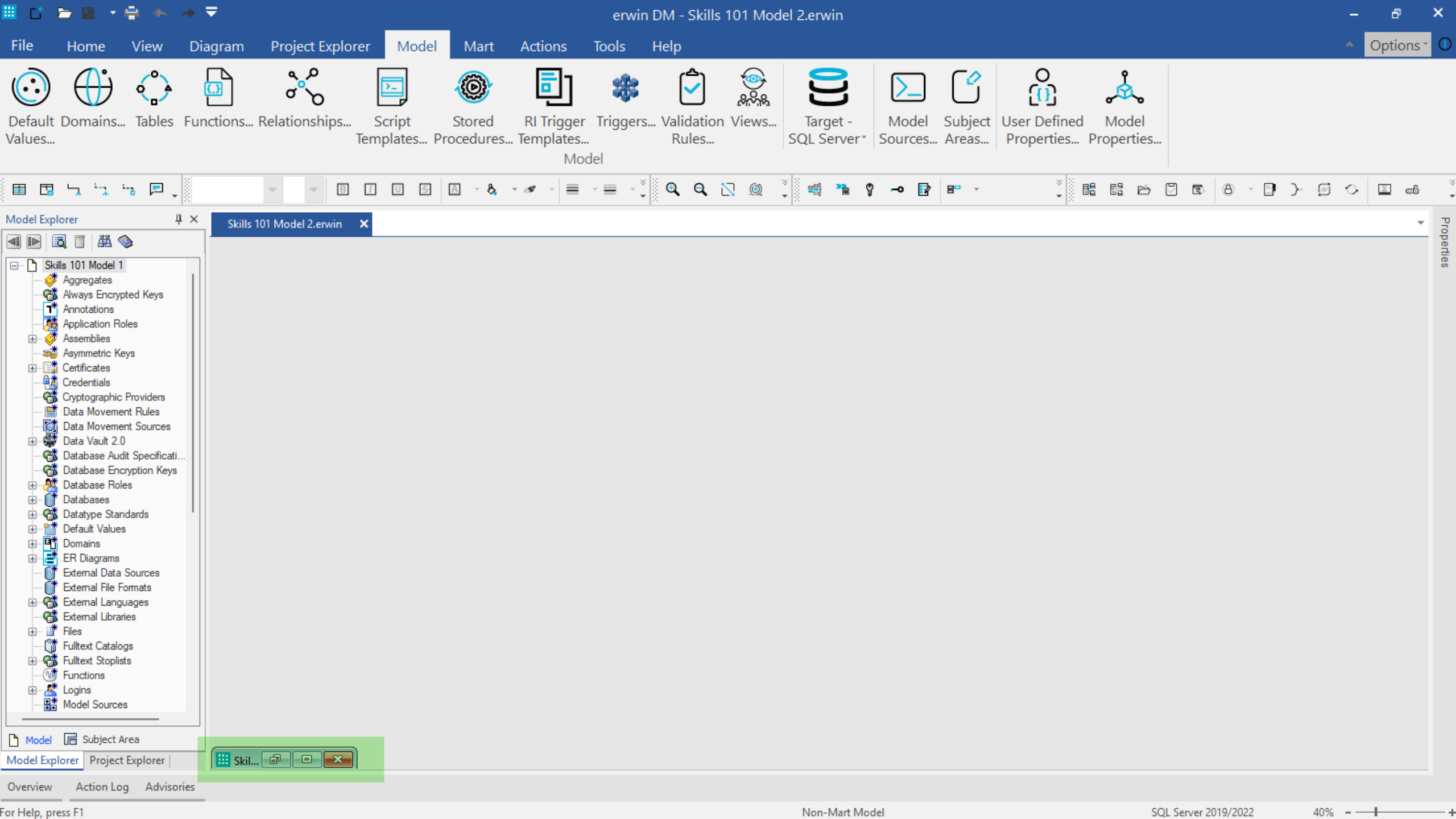


Logical Physical

Non-Mart Model

SNI Server 2019/2022

40%



erwin DM: Key Resources & Feature Guides

Foundations & Orientation

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[erwin Data Modeler User Interface](#)

Erwin DM Modeling & Design

[Design Layer Modeling](#)

[Working with Transformations](#)

[Complete Repair](#)

Model Management & Analysis

[Complete Compare](#)

[Manage Model Snapshots](#)

[The Report Designer](#)

[Set Spelling Options](#)

Q&A

→ Quest

Don't Miss What's Next!

Themes & Templates made clean and consistent

March 11th @ 11:00a.m. ET

 Quest

