

# erwin Data Intelligence

# **User Guide**

Release v14.0

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## Contents

Introduction	7
Architecture	
User Interface	
Application Menu	
Quick Start	
Resource Management	
Metadata Management	
Data Literacy	
Reference Data Management	
Life Cycle Management	
Mapping Management	
Creating Roles	20
Creating Users and Assigning Roles	
Creating Systems	
Creating Environments	
Scanning Metadata	
Creating Maps	
Defining Transformations	
Mapping Source and Target	
Categorizing Codesets and Defining Code Values	
Publishing Codesets	65
Creating Code Crosswalks (Mappings)	

Associating Code Mappings with Data Item Mappings	78
Publishing Code Maps	78
Associating Code Maps	80
Creating Business Terms	83
Setting Up Associations for Business Terms	86
Creating Test Cases	89
Documenting Requirements	92
Linking Requirements to Mappings	97
Running Lineage Analysis	99
Running Impact Analysis	105
Exporting Mapping Specifications to ETL Tools	109

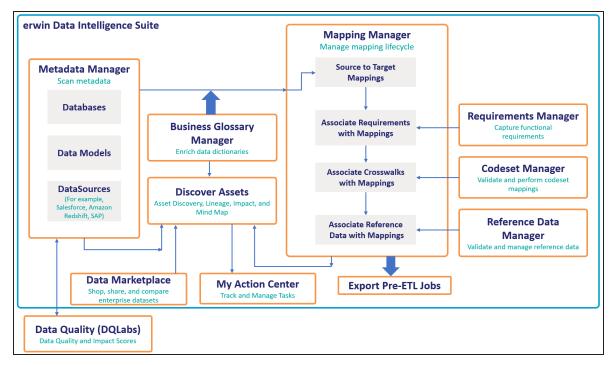
### Introduction

erwin Data Intelligence (erwin DI) is a unified platform for data professionals that offers metadata-driven framework to:

- **Discover data**: Identify metadata from isolated data management sources.
- Harvest data: Automate metadata collection from the isolated data management sources, and consolidate it into a single source.
- Discover assets: Search, discover, access, and analyze assets across the organization.
- **Structure and deploy data sources**: Connect physical metadata to specific data models, business terms, definitions, and reusable design standards.
- Analyze metadata: Analyze the harvested data to understand its attributes and relation to business.
- Map data flows: Identify data integration possibilities, and track its flows and transformations.
- **Govern data**: Develop a governance model to manage standards, policies, and best practices, and associate them with physical assets.
- **Socialize data**: Empower stakeholders with role-based data availability in one place.
- erwin Data Marketplace: Shop, share, and compare enterprise datasets at a centralized location. Create and manage datasets, view insights, raise data literacy, and ensure governance.
- **Data Quality**: Data quality analysis provides in-depth analysis of your environments, tables, and columns.

This section introduces you to <u>erwin DI architecture</u>, its <u>user interface (UI)</u>, and the tasks that you can accomplish using it.

To get you started with erwin Data Intelligence (erwin DI), this topic gives you an overview of erwin DI architecture and its modules. The following diagram shows a high-level architecture and data flow.



The following sequence gives a high-level understanding of how the modules interact in a typical data integration project:

- 1. Scan metadata from data sources.
- 2. Connect your environment with DQLabs and get data quality for technical assets.
- 3. Create business assets and associate them with technical assets.
- 4. Create marketplace assets, set up association, and add tasks.
- 5. Add tasks to collaborate with team members.
- 6. Tag your assets for asset discovery and sensitivity.
- 7. Create source data to target data maps, and track data flow and transformations.

- 8. Analyze lineage, impact, and mind maps.
- 9. Capture functional requirements.
- 10. Associate requirements with mappings.
- 11. Define codesets and perform code crosswalks (mappings).
- 12. Associate code crosswalks with mappings.
- 13. Validate and manage reference data.
- 14. Associate reference data with Mappings.
- 15. Generate code for:
  - ETL jobs
  - SQL scripts
  - Python code
  - Spark code
  - DDL scripts
  - Stored procedures

erwin DI consists feature rich modules that are categorized as core and add-on modules.

- Core modules perform the major functions of erwin DI offering.
- Add-on modules offer additional functions on top of the core functions.

The following table gives an overview of modules and their functions.

Module	Туре	Function
Discover		Use Discover Assets for asset (technical, business, and mapping assets)
Assets	corc	discovery, lineage, mind maps, impact analysis, and tasks.
My Action	Core	Use My Action Center to track and manage tasks for better col-
Center	COLE	laboration with team members.
Resource	Coro	Use the Resource Manager to add application users and create roles
Manager	Core	for them here. You can also manage access-level permissions.
		Use the Metadata Manager to harvest source or target metadata from
Metadata	Core	a data source. You can run impact and lineage analysis to have better
Manager		control on a data integration project.

Module	Туре	Function				
Mapping Man- ager	Core	Use the Mapping Manager to perform source to target mappings. You can also link code mapping objects, reference data objects, and requirements to the mappings.				
Business Glossary Man-	Core	Use the Business Glossary Manager to create, manage, and collaborate on common business vocabulary across the organization. You can also view lineage maps to understand how semantic definitions are related to physical data dictionaries, data mappings, and data lineages.				
ager		Business Glossary Manager is core module of erwin DI, and it is available as an add-on.				
Data Mar- ketplace	Core	Use the Data marketplace to create, manage, share, and compare enterprise datasets and other marketplace assets at a centralized loc- ation.				
Codeset Man- ager	Add- On	Jse the Codeset Manager to manage your enterprise and legacy code-				
Reference Data Manager	Add-	sets. You can perform code mappings (crosswalks) and manage them. Use the Reference Data Manager to manage your reference data (tables). You can run validation rules on the reference data and per- form data quality checks. Further, you can associate codesets with the reference data.				
Requirements Manager	Add- On	Use the Requirements Manager to standardize functional require- ments documentation. Further, you can link requirements with data mappings.				
Test Manager	Add- On	Use the Test Manager to manage test specifications created under Metadata Manager and Mapping Manager.				
Release Man-	Add-	Use the Release Manager to release data mappings, database objects,				
ager	On	and release notes to standardize the release process.				
Reports Man- ager	Add- On	Use the Reports Manager to create statistical reports and evaluate your team's productivity.				
Workflow Manager	Add- On	Use the Workflow Manager to manage Business Glossary Manager, Metadata Manager, and Mapping Manager workflows. You can also create custom workflows and monitor their execution.				
Data Quality	Add-	Ise DQLabs to profile and analyze your metadata and gain in-depth				

Module	Туре	Function
	On	knowledge on key data quality parameters such as DQ Score. Then, you can view these data quality parameters for environments, tables, and columns in erwin DI.
Enterprise	Add-	Use Enterprise Tags to classify and organize all business assets, tech-
Tags	On	nical assets, and mapping assets.

For more information on erwin DI's user interface, refer to the User Interface topic.

To get you started with using erwin Data Intelligence (erwin DI), this topic walks you through the erwin DI UI, its components, and their functions.

Once you have installed erwin DI, follow these steps to access and use it:

1. Start erwin DI.

The Login page appears. It displays your license information at the bottom of the page.

- 2. Enter your credentials.
- 3. Select the I accept & agree to the terms of the EULA check box.
- 4. Click Sign In.

After a successful log in, the following page appears.

Alternatively, you can setup a Single Sign On (SSO) for login. For more details on configuring SSO, refer to the <u>SSO Configuration Guide</u>.



By default, the landing module is set to the Mapping Manager. You can change this under your <u>account settings</u>.

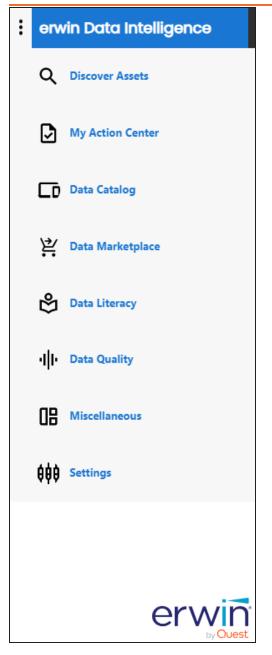
orkspace Mappings	2	Project	t Summary									
Mappings	^	#	Project Name	Project Description		Project Owner	Subjec Count	Mappi Count	Created By	Created Date Time	Last Modified By	Last Modified Date Time
🙀 Transformations					_						-,	
▲ Projects				L								
ABC (3)		1	Lineage Demo				0	14	Administrator	26-02-2020 04:01:32	Administrator	26-02-2020 04:01:32
batter (0)										26-02-2020		26-02-2020
Del (0)		2	Test Source				0	3	Administrator	04:02:38	Administrator	04:02:38
DigitalAdoption (8)		3	TestData Map				0	30	Administrator	26-02-2020	Administrator	26-02-2020
erwinDIS (7)										04:03:32		04:03:32
ffgg (2)		4	TestMap				0	4	Administrator	26-02-2020 04:04:19	Administrator	26-02-2020 04:04:19
FlowTest (3)												
<ul> <li>Hi-Tunes (2)</li> <li>Lineage Dame (14)</li> </ul>		5	WhatfixTrial				0	0	Administrator	16-03-2020 05:30:34	Administrator	16-03-2020 05:30:34
<ul> <li>Lineage Demo (14)</li> <li>Project (4)</li> </ul>										16-03-2020		16-03-2020
<ul> <li>Project (4)</li> <li>project 1 (4)</li> </ul>		6	WhatfixIntegration				0	0	Administrator	06:12:05	Administrator	06:12:05
<ul> <li>Project Tech Pubs (8)</li> </ul>		7	ABC				0	3	Administrator	17-03-2020 05:34:23	Administrator	17-03-2020
<ul> <li>Tech Pubs Online (6)</li> </ul>		-					-			05:34:23		05:34:23
TechPubs (6)		8	TechPubs				0	6	Administrator	15-04-2020 09:56:37	Administrator	15-04-2020 09:56:37
Test (4)												
Test Source (3)		9	Tech Pubs Online				0	6	Administrator	23-04-2020 07:28:42	Administrator	23-04-2020 07:28:42
TestData Map (30)										23-04-2020		23-04-2020
TestMap (4)		10	Test				0	А	Administrator	23-04-2020	Administrator	23-04-2020

UI Section	Function			
	<b>Application Menu</b> : Click this icon to access modules of erwin DI. For more information, refer to the <u>Application Menu</u> section.			
	Messaging Center: Click this icon to view notifications and messages.			
	Search: Use this feature to search for a keyword based on the module that you are working in.			
1-Navigation Pane	Search Options: Click this icon to set the search criteria.			
rane	<b>Help</b> : Click this icon to access the context sensitive help.			
	Bookshelf: Click this icon to access the erwin DI bookshelf.			
	Options: Click this icon to manage your profile options.			
	Suggestions: Send an enhancement request to our team through an email.			

UI Section	Function					
	Change Password: Change your password.					
	My Dashboard: View your activity report and mapping assign- ments.					
	• My Profiles: View your profiles.					
	• My Workflow: View and update your workflow queues.					
	• Logout: Log out of the application.					
2-Workspace Mappings	Use this pane to browse and work on different projects and mappings.					
3-Published Map-	Use this pane to browse through published mappings and export them, if					
pings	needed.					
4-Central Pane	Based on your selection in the Workspace Mappings pane, use this pane					
4-Central Falle	to view or work on the data.					
5-Mapping Man-	Use this pane to view statistics related to mappings and projects in the					
ager Dashboard	Mapping Manager.					

## **Application Menu**

To access the Application Menu, click



The Application Menu classifies the functional module in different categories. Select a category to view its modules. Refer to the following table for a list of categories and their relevant modules.

Category	Modules
Discover Assets	Discover Assets
My Action Center	My Action Center
	Resource Manager
	Metadata Manager
	Mapping Manager
	Codeset Manager
Data Catalog	Reference Data Man- ager
	Requirements Man- ager
	Release Manager
	Test Manager
Data Marketplace	Data Marketplace
	Business Glossary
Data Literacy	Manager
	AIMatch
Data Quality	Data Quality
	Enterprise Tags
	Reporting Manager
	Workflow Manager
Miscellaneous	Download Template
	Plugins
	<ul> <li>Automation Frame- work</li> </ul>
	Mapping Manger
Settings	Metadata Manager
	Codeset Manager

Category	Modules
	Release Manager
	Test Manager
	Requirements Man-
	ager
	Business Glossary
	Manager
	Miscellaneous
	License
	Plugins

## **Quick Start**

This section gives a quick hands-on experience of erwin Data Intelligence (erwin DI). It walks you through the operations that you would perform regularly and helps you understand Metadata Management, Mapping Management, Data Literacy, Data Governance, and Life Cycle Management.

The following are the tasks that you would be performing regularly in a data integration project.

### **Resource Management**

Creating Roles

Creating Users and Assigning Roles

### Metadata Management

Creating Systems Creating Environments Scanning Metadata Performing Lineage Analysis Performing Impact Analysis

### **Data Literacy**

<u>Creating Business Terms</u> Defining Associations for Business Terms

### **Reference Data Management**

Categorizing Codesets and Defining Code Values
Publishing Codesets
Creating Code Crosswalks (Mappings)

### Life Cycle Management

**Documenting Requirements** 

Creating Test Cases

### **Mapping Management**

Creating Projects and Maps Defining Transformations Mapping Source and Target Associating Code Crosswalks with Data Item Mappings Linking Requirements to Mappings Exporting Mapping Specifications to ETL Tools

Use roles to assign access-level permissions to users. While few roles are available by default in erwin DI, you can create custom roles.



The Administrator role is system-generated and you cannot edit or delete it.

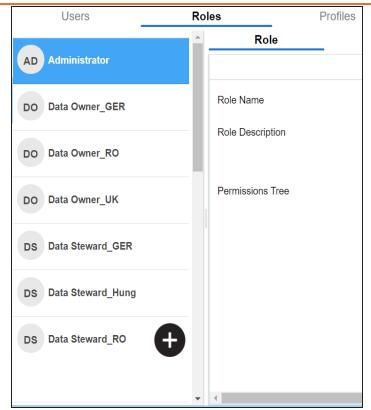
To create roles, follow these steps:

1. Go to Application Menu > Data Catalog > Resource Manager.

The Resource Manager page appears. By default the Users tab opens.

Users	Roles	Profiles Governance Responsib	vilities Access Rights Report	
SETTINGS	User Details	User Account Activities User Assi	gnments Access Rights	
USERS (26)	Login Type	Database	Telephone Number	9999999999
	User ID	Administrator	Email ID	abc@abc.com
AD Administrator Administrator - Default System	User Full Name	Administrator - Default System U	Alternate Telephone Number	9999999999
dvaghani	Password	///////	Manager Name	
DV Daya Vaghani	Mobile	9999999999	Company	erwin, Inc.
esimpson	Company Title	Administrator	Created Date Time	26-02-2020 03:48:28
ES Erica Simpson	Default Role	Admin	Last Modified Date Time	26-02-2020 03:48:28
JA jadams	Created By	System	Theme	erwin
Joey Adams	Last Modified By	System	Language Preference	English

2. Click the Roles tab.



3. Click •

The Role page appears.

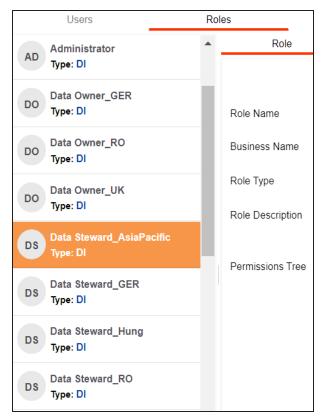
Role	
	Save Cancel
Role Name*	Note: Role Name once created cannot be edited
Business Name	
Role Type	DI 🗸
Role Description	
Permissions Tree	▲ □ ■ Permissions
	Resource Manager
	Metadata Manager
	Mapping Manager
	▶ 🔄 🛃 Codeset Manager
	Release Manager
	Reference Data Manager
	Automation Framework
	🔄 🖹 Test Manager

4. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Tab	Description		
Role Name	Specifies the user-defined role name.		
NOIE Mairie	For example, Data Steward_AsiaPacific.		
Business	Specifies the user-defined business name.		
Name	For example, Data_Steward_Mapping.		
	Specifies the role type		
Role Type	<ul> <li>DI: Indicates that the role is available only for a Data Intelligence (DI) user</li> </ul>		
	<ul> <li>BU: Indicates that the role is available only for a Business User (BU)</li> </ul>		
Role Descrip-	Specifies the role description.		
tion	For example, This role has access to the Resource Manager and Map-		
	ping Manager.		

- 5. Under the **Permissions Tree** section, select the check box for the modules or the permission object to which you want to grant access to the role.
- 6. Click Save.

A role is created and added to the Roles list.



Once roles are created, you can create users and assign roles to them. For more information on managing resources, refer to the <u>Managing Resources</u> section.

Users are used to grant members of your team access to erwin DI and your projects. While a few users are available by default, you can create users for your organization using the Resource Manager. While you create users, you also assign them roles to define their access-level permissions.

When you upgrade from 11.5 or lower app version, the Business User Portal (BUP) users migrate to the latest erwin DI version as BU user type.



The Administrator user is available by default and you cannot edit or delete this user.

To create users, follow these steps:

1. Go to Application Menu > Data Catalog > Resource Manager.

By default, the Users tab opens.

Users	Roles	Profiles Governar	nce Responsibilities	Access Rights Report	
SETTINGS	User Details	User Account Activities	User Assignments	Access Rights	
USERS (25)	Login Type	Database		Telephone Number	9999999999
	User ID	Administrator		Email ID	abc@abc.com
Administrator Administrator - Default System Us	User Full Name	Administrator - Default	System User	Alternate Telephone Number	9999999999
	Password	/////	///	Manager Name	
JD John Doe John Doe	Mobile	9999999999		Company	erwin, Inc.
jwilson	Company Title	Administrator		Created Date Time	02/26/2020 03:48:28
JW Joey Wilson	Default Role	Admin		Last Modified Date Time	02/26/2020 03:48:28
Imichal	Created By	System		Theme	erwin
LM Luqman Michal	Last Modified By	System		Language Preference	English
MA madams	Landing Module	Mapping Manager		User Type	DI
MA Mike Adams	User Image	a factor			

2. Click •

The New User page appears.

New User				Ľ ×
Login Type	Database 🗸	Telephone Number		
User ID*		Email ID*		
User Full Name*		Alternate Telephone Number		
Password*		Manager Name		
Mobile		Company		
Company Title		Send Email		
Default Role		Theme	erwin (Web Blue)	~
Landing Module	Mapping Manager 🗸 🗸	Language Preference	English	~
User Roles*		User Type	DI	~
Available Roles	Assigned Roles	User Image		
Data Owner_GER Data Owner_KO Data Owner_UK Data Steward_GER Data Steward_Hung Data Steward_UK ETL Developer Mapping Admin Manala Datapase	* *		Drag-n-Drop files here or click to select files for upload.	1

3. Enter appropriate values in the fields. Refer to the following table for field descriptions.

Field Name	Description	
	Specifies whether the user type is Database, LDAP (Lightweight Directory Access Protocol), SAML (Security Assertion Markup Language), or NON LOGIN.	
	For example, Database.	
Login Type	<ul> <li>Database: Select this option if the user authentication is through the credentials created in the Resource Manager.</li> </ul>	
Login Type	<ul> <li>LDAP: Select this option if the user authentication is through a dir- ectory server, such as MS Active Directory, OpenLDAP or OpenDJ.</li> </ul>	
	<ul> <li>SAML: Select this option if the user authentication is through SAML attributes.</li> </ul>	
	For more details on configuring SSO, refer to the <u>SSO Configuration</u> <u>Guide</u> .	

Field	Description		
Name			
	<b>NON LOGIN</b> : Select this option if the user is not required to log on		
	to the application.		
User ID*	Specifies the user name of the user to log on to erwin DI.		
	For example, Imichal.		
User Full	Specifies the user's full name.		
Name*	For example, Luqman Michal.		
	Specifies the password to log on to erwin DI.		
	For example, Luqman@1.		
Password*	The administrator provides a default password, which can be changed		
	later. The administrator can also enforce a password policy. For more		
	information on enforcing password policy, refer to the <u>Configuring Set</u> -		
	tings topic.		
Mobile	Specifies the user's valid mobile number.		
	For example, +658374414288.		
Company	Specifies the user's company title or designation.		
Title	For example, Data Administrator.		
Default	Specifies the default role of the user.		
Role	For example, Data Steward_RO.		
Landing	Specifies the landing module for the user.		
Module	For example, Mapping Manager.		
Wibdule	The Landing Module is the first page displayed when a user logs in.		
	Select roles under Available Roles list-box and move them to Assigned		
	Roles list-box using the arrows (➡ or 榊 ). Similarly, to change existing		
	role assignment, select roles under Assigned Roles list-box and move		
User Roles*	them back to Available Roles list-box using the arrows (年 or ┿ ).		
NOIES	For adding a new role under the Available Roles list-box, refer to the		
	Creating Roles topic.		
	You can assign the Legacy Data Steward role to a user. This enables you		

Field Name	Description
	to assign this user as a Data Steward in the Metadata Manager and Refer- ence Data Manager.
Telephone	Specifies the valid telephone number of the user.
Number	For example, 1-800-783-7946.
Email ID*	Specifies the user's email address.
	For example, l.michal@mauris.edu
Alternate Telephone	Specifies the user's valid alternate telephone number.
Number	For example, 1-802-456-7946.
Manager	Specifies the name of the user's reporting manager.
Name	For example, John Doe.
Compony	Specifies the name of the user's company.
Company	For example, ABC Consulting Services.
	Specifies whether to send email to the user's email ID.
Send Email	Select the Send Email check box to send an email notification to the user's email ID. For more information on configuring notifications, refer to the
	Configuring Notifications topic.
Thoma	Specifies the theme for the user to set the appearance of erwin DI.
Theme	By default, it is set to erwin (Web Blue).
	Specifies the language preferred by the user.
Language	For example, English.
Preference	For more information on language settings, refer to the Configuring Lan-
	guage Settings topic.
	Specifies the user type.
User Type	<ul> <li>DI: Indicates the user type is Data Intelligence (DI), and the users have access to DI, and BU modules</li> </ul>
	BU: Indicates that the user type is Business User (BU), and the users have access to BU module

Field Name	Description
User Image	Specifies the physical image file being attached to the user. Drag and drop a user's image file or click 📤 to select and upload the image file.

4. Click

A new user is created and added to the Users list.

For more information on managing resources, refer to the <u>Managing Resources</u> section.

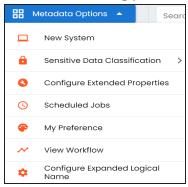
You can harvest (scan) metadata from data sources in the Metadata Manager. The scanned metadata is stored in a hierarchical manner (System > Environment > Table > Column) in the Data Catalog.

A System can contain multiple environments and in a typical data integration project a system can be a source or target type. You can create a system and specify data steward, system owner, and its business purpose etc.

Apart from creating systems, you can manage other system configurations using **Metadata Options** available in the top-right corner.

To create systems, follow these steps:

- 1. Go to Application Menu > Data Catalog > Metadata Manager > Explore.
- 2. In the Data Catalog pane, click Metadata Options.



3. Click New System.

New System		→ <b>∂</b>
etails Miscellaneous		Classification
System Name * System	Primary Move Type(Source/Target)	Sensitive Data Indicator(SDI) Classifi 👻
Server Platform	Server OS Version	Sensitive Data Indicator Description
DBMS Platform	DBMS Version	♣ Miscellaneous
File Management Type	File Location	Data Steward
Owner Name	Release	DQ Score 🗸
Telephone Number	Email Address	

4. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
	Specifies the physical name of the system.
System Name	For example, Enterprise Data Warehouse.
System Name	For more information on naming conventions, refer to the <u>Best</u>
	Practices section.
Server Platform	Specifies the server platform of the system.
	For example, Windows.
	Specifies the DBMS platform of the system (if the system is an
DBMS Platform	RDBMS source).
	For example, SQL Server.
Eile Management	Specifies the file management system (if the system is a file-
File Management Type	based source).
	For example, MS Excel.
Owner Name	Specifies the full name of the system owner.
	For example, Talon Smith.

Field Name	Description
Telephone Number	Specifies the telephone number of the system owner.
relephone Number	For example, 1-800-783-7946.
	Specifies whether the system is source, target, or both.
	Valid values are:
Primary Move Type	Source
(Source/Target)	Target
	<ul> <li>Both</li> </ul>
	Specifies the OS version of the system's server.
Server OS version	For example, Windows Server 2012 R2.
	Specifies the DBMS version of the system (if the system is an
DBMS Version	RDBMS source).
	For example, SQL Server 2017.
File Location	Specifies a file path (if the system is a file-based source).
	For example, C:\Users\Talon Smith\erwin\Mike - Target System
Release	Specifies the system release including the point release number.
	For example, Oracle 18c.
Email Address	Specifies the system owner's email address.
	For example, talon.smith@mauris.edu
	Specifies the sensitivity classification of the system. Also, you can
Sensitive Data Indic-	add multiple classifications to the system.
ator (SDI) Clas-	For example, PHI, Confidential.
sification	For more information on configuring Sensitive Data Indicator
	(SDI) classifications, refer to the <u>Configuring Sensitivity Clas</u> -
	<u>sifications</u> topic.
Sensitive Data Indic- ator Description	Specifies the description of the SDI classification.
	Specifies the name of the data steward responsible for the sys-
Data Steward	tem.
	For example, Jane Doe.

Field Name	Description	
	Users assigned with the Legacy Data Steward role appear as drop	
	down options. You can assign this role to a user in the Resource	
	Manager.	
	To assign data steward, select a data steward from the drop	
	down options.	
	Specifies the overall data quality score of the system.	
DQ Score	For example, High (7-8).	
	For more information on configuring DQ scores, refer to the <u>Con</u> -	
	figuring Data Profiling and DQ Scores topic.	

### 5. Click the **Miscellaneous** tab or click $\rightarrow$ I.

→ <b>∂</b>
ESB Q Manager Name
Total Number Of Tables
Batch Extract Window
Average Concurrent Users
Business Purpose E Align ▼

6. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
ESB Platform Type	Specifies the enterprise platform bus type (if the system is an ESB

Field Name	Description					
	source).					
	For example, Mule.					
	Specifies the ESB queue manager's name of the system (if the					
ESB Q Manager Name	source is an ESB).					
INdiffe	For example, John Doe.					
Total DBSize	Specifies the total physical size of the database.					
TOLAT DESIZE	For example, 198 GB.					
Total Number of	Specifies the total number of tables associated with the system.					
Tables	For example, 300.					
Definition of the	Specifies the definition of the system at the end of the day.					
Day	For example: Extraction of details from the source system is com-					
Duy	plete.					
Batch Extract Win-	Specifies the daily batch extract window of the system.					
dow	For example: Batch extract from the source system is scheduled					
	at 3:30 P.M. everyday.					
Average User	Specifies the average number of system users.					
	For example, 30.					
Average Con-	Specifies the average number of concurrent system users.					
current Users	For example, 15.					
	Specifies any special instructions or comments about the system.					
Special Instructions	For example: The system acts as a source for creating the map-					
	ping specification.					
	Specifies the DBMS platform of the system (if the system is an					
Business Purpose	RDBMS source).					
	For example, SQL Server.					

# 7. Click 🔁.

A new system is created.

Alternatively, before saving this system, you can add a new environment and configure the connections. To setup an environment, click  $\rightarrow$  to view the New Environment page.

Once a system is created, you can create environments under it and scan metadata from different database types. For more information on managing metadata, refer to the <u>Managing</u> <u>Metadata</u> section.

### **Creating Environments**

After creating a system in the Metadata Manager, you can create environments under the system. An environment can be created for different database types and flat files by ful-filling prerequisites and providing the connection parameters.

- 1. Go to Application Menu > Data Catalog > Metadata Manager > Explore.
- 2. In the Asset Catalog pane, hover over the system card and click

The system details page appears and displays available environments in the Data Catalog pane.

Dashboard Explore									<b>\$</b>
🔅 Options 👻		A	Home > 🖵	erwin DI Suite 🕒	STEM				
Data Catalog	<		Data Dictionary	System	Details Ext	ended Properties	Data Linea	ge	
Environments C	F	#	Environment	Environment	DBMS Name	DBMS Schema	IP Address	Port	La
Search			Name	Туре		Name			D
erwin_Sales (v1.00)	>	1	Local	erwin DM Mart -	cn/a		N/A	N/A	03
_Local (v1.01)	>	2	erwin_Sales		MS Excel File	dbo			12-

**Creating Environments** 

3. Click **Options**.

The available options appear.

🏚 op	otions
	New Environment
1	Edit System
	Delete System
<	Share Link
	New Document
•••	Report - System Information
•••	Report - Data Dictionary
Ŕ	Execute Connector
~	View Workflow

### 4. Click New Environment.

The New Environment page appears and displays supported database in the Datasources tab.

erwin DI Suite $\rightarrow$	(1.00)				
Datasources C	onfiguration Details	Miscellaneous			
Filter Datasource Ty	ре				
XLS	æ	ХМІ	A	erwin	
MS Excel File	CSV (Flat File)	ХМІ	MS Access File	ERwin	ETL
ХМІ	xsd L	{i} JSON	IEM DB2	MySQL.	N
CWM XMI (v1.1)	XSD	JSON	DB2	MySql	IBM Netezza
	$\bigcirc$	(J)	PEÌVASIVE	SAP	SQL Server
Oracle	Greenplum	Postgresql	Pervasive	SAP	Sql Server

 Click a datasource, the Configuration Details tabs appears. The screenshot below displays connection details for Sql Server. The connection details vary based on database selection.

New Environment erwin DI Suite → (1.00)		
Datasources Configuration Details	Connection Properties Miscellaneous	
Datasource Type * Sql Server ⊗	•	Classification
System Environment Name *	System Environment Type	Sensitive Data Indicator (SDI) Descri
Server Platform	Server OS Version	
File Management Type	File Location	Miscellaneous     Business Entity Type     Select
Production System Name Choose Production System	✓ Production Environment Name ✓	
Version Label	Enable DQ Sync	

Alternatively, enter a keyword in the search bar to search for datasources. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description		
Datasource Type	metadata list. For exam Dependin	the datasource (database) type from where you wish to scan . You can change the datasource type using the drop down ple, Sql Server. Ig upon your choice of database type, you need to provide I fields in the <b>Connection Properties</b> tab.	
туре	Ð	For SQL Server (Windows Authentication), Sybase, HP Ver- tica, and Neteeza databases, the TestConnectionQuery option is selected by default to validate the internal con- nection. The system displays exceptions if this option is not selected.	

Field Name	Description				
	There are no additional fields for MS Excel File, and XSD.				
	Specifies the unique name of the environment.				
	For example, EDW-Test.				
System Envir- onment Name	The environment name supports - (hyphen), ( (opening parenthesis), ) (closing parenthesis), / (slash), # (), . (full stop), [] (left and right square brackets), ! (exclamation mark), + (plus), % (percentage), ~ (tilde), ; (semicolon), , (comma), = (equals sign), ^ (circumflex accent), and {} (left and right curly brackets) as special characters.				
	For more information on naming conventions, refer to the <u>Best</u> <u>Practices</u> section.				
System Envir-	Specifies the type of the environment.				
onment Type	For example, development, test, or production.				
Server Plat-	Specifies the server platform of the environment.				
form	For example, Windows.				
Server OS	Specifies the OS version of the environment's server.				
Version	For example, Windows Server 2012 R2.				
File Man-	Specifies the file management system (if the environment is a file-				
agement	based source).				
Туре	For example, MS Excel.				
File Location	Specifies a file path (if the environment is a file-based source).				
	For example, C:\Users\Jane Doe\erwin\Mike - Target System				
Production	Specifies the system name being associated with the environment as				
System Name	the production system.				
	For example, Enterprise Data Warehouse.				
Production	Specifies the environment name being associated with the envir-				
Environment	onment as the production environment.				
Name	For example, EDW-PRD.				
Version Label	Specifies the version label of the environment to track change history.				
	For example, Alpha.				

Field Name	Description				
	For more information on configuring version display, refer to the <u>Con</u> - figuring Version Display of the Environments topic.				
	Specifies whether to sync data quality analysis results from DQLabs.				
Enable DQ	To view data quality analysis, ensure that you have configured DQLabs connection setting in erwin DI. For more information, refer to the <u>Con</u> - <u>figuring DQLabs</u> topic.				
Sync	Data quality analysis is available for environments using Oracle, Salesforce, Snowflake, MySQL, MSSQL, Hadoop, and PostgreSQL database types.				
Sensitive Data Indic- ator (SDI) Classification	Specifies the sensitivity data indicator (SDI) classification of the envir- onment. Also, you can add multiple classifications to the environment. For example, PHI, Confidential. For more information on configuring SDI classifications, refer to the				
clussification	Configuring Sensitivity Classifications topic.				
Sensitive Data (SDI) Indicator Description	Specifies the description of the SDI classification.				
Business Entity Type	Specifies the database type of business entity.				

6. Click  $\rightarrow$  to navigate to the Connection Properties tab.

Different datasource types have different prerequisites and connection parameters. See the list below for datasource type and its connection parameters:

- SQL Server via SQL or Window authentication mode
- Oracle and Oracle RAC
- MySQL
- Snowflake

- MS Dynamics CRM (and other datasources)
- SAP ECC R/3 and IS-U Metadata via JCO Driver
- 7. Click  $\stackrel{>}{>}$  to test the connection.

If the connection with database is established successfully then a success message pops up.

- Click to save and continue to Miscellaneous tab.
   Or, click to save and exit.
- 9. On the Miscellaneous tab, enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
Intended Use	Specifies the description about the objective of the environment.
Description	For example: The environment contains the source metadata for
Description	the data integration project.
Environment Notes	Specifies relevant notes about the environment.
	For example: The environment uses Sql Server as database to scan
	the metadata.
Approval Instruc- tions	Specifies any instructions for the environment's approval.
	For example: The environment must contain 50 tables from erwin
	DI database.

10. Click 🔁 to save and exit.

A new environment is created.

Once an environment is created, you can scan source or target metadata from the database type.

Different database types have different prerequisites and connection parameters:

- SQL Server via SQL or Window authentication mode
- Oracle and Oracle RAC
- MySQL
- Snowflake

- MS Dynamics CRM
- SAP ECC R/3 and IS-U Metadata via JCO Driver

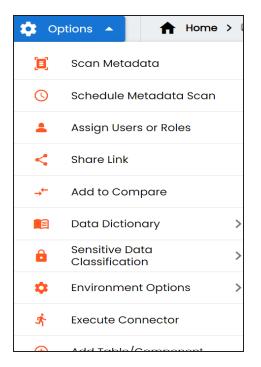
## **Scanning Metadata**

After creating systems and environments, the next logical step is to scan source and target metadata. Ensure that the environment database type and connection parameters are correct and the environment is able to establish connection with the database.

To scan source or target metadata, follow these steps:

- 1. Go to Application Menu > Data Catalog > Metadata Manager > Explore.
- 2. On the Explore tab, click an environment tile.
- 3. Click **Options**.

The available options appear.



4. Click Scan Metadata.

The <Data\_Base> Metadata Scan-Step1 page appears. For example, if it is the SQL Server environment, then the SqlServer Metadata Scan - Step1 page appears.

SqlServer Metadata Scan - Step1	_ <b>_</b> ×
	→ ×
Database Schema(s)	MetaData Content
Select All	Import Metadata Options:
Version Environment	

- 5. In the **Database Schema(s)** pane, select the database schemas.
- 6. In the Metadata Content pane, select the appropriate Import Metadata Options.

Refer to the following table for the descriptions of the metadata import options.

Import Metadata Options	Description
Add New	This option adds new objects to the existing object list. The exist- ing metadata is not updated.
Update Existing + Add New	This option adds new objects to the existing list and at the same time the existing metadata is also updated.
Update Existing + Add New + Inval- idate	This option adds new objects to the existing list, updates existing and invalidates table/column during the scanning process.
Delete & Reload	This option deletes all existing metadata and scans only the new objects that have been selected.

**Scanning Metadata** 

Import Metadata Options	Description			
Import Comments	Select the check box to import comments.			
Import Sensitive Data	Select the check box to import sensitivity classification of the metadata from the data source.			
	This option is available for SQL, Oracle, and Snow- flake environments.			
Table(s)	Select the check box to import Tables.			
View(s)	Select the check box to import Views.			
Synonym(s)	Select the check box to import Synonyms.			
Version Envir- onment	Select the check box to create a version of the environment.			

### 7. Click →.

The <Database\_Name> Metadata Scan Step-2 page appears. It pulls up the objects selected in Metadata Scan Step-1, such as Tables, Views and Synonyms.



- 8. Select the required objects.
- 9. Click

The metadata is scanned successfully and saved under the environment node.

For more information on managing metadata, refer to the Managing Metadata section.

### Scanning Metadata

You can also import metadata from:

- MS Excel File
- SON
- CSV (Flat File)
- <u>XMI</u>
- MS Access File
- × XSD

Maps are categorized under projects and a project can have multiple maps. The maps are stored in a hierarchical manner, Projects > Mappings. Source to target mappings are performed in maps. You can create maps under a new or existing projects.

To create maps under a new project, follow these steps:

- 1. Go to Application Menu > Data Catalog > Mapping Manager.
- 2. Under the **Workspace Mappings** pane, right-click the **Projects** node.

kspace Mappings 🛛 👻	Projec	t Summary						
Mappings	#	Project Name	Project Description	Project Owner	Subjects Count	Mapping Count	Created By	Create
🕨 🚦 BE 🛛 🌴 Run Template	1	ERP			0	2	Administrator	2018-0 10:50:1
BF 🚓 View Workflow     Ganeroor (7)	2	EDW			0	2	Administrator	2018-1 10:15:1
Eata Lake Migration (3) EDW (2)	3	Sales Data Mart			0	8	Administrator	2018-1 10:15:2
<ul> <li>ERP (2)</li> <li>Erwin_Project (2)</li> </ul>	4	BFSI Integration			0	1	Administrator	2018-1 10:15:3
<ul> <li>Exeter (2)</li> <li>IQVIA (1)</li> </ul>	5	Data Lake Migration			3	3	Administrator	2018-1 10:16:2
<ul> <li>New_Project (1)</li> <li>OBIEE (23)</li> </ul>	6	OBIEE			3	23	Administrator	2018-1 12:44:1
Sales Data Mart (8)	7	AdventureWorks_/			0	8	Administrator	2018-1
-	8	Carrefour			12	9	Administrator	2018-1 01:00:2
	9	IQVIA			0	1	Administrator	2018-1

3. Click Create Project.

The Create Project page appears.

Create Project			_ <b>□</b> ×
Project Details Project D	ocuments Project Users	Project Roles	•
		Save & Continue Sav	ve & Exit Cancel
Project Name*		Cost Center	
Description	🕅 <u>А</u> <u>Н</u> В <i>I</i> <u>U</u>	⋷⋷⋷∎ ╞╞╘╘✔	
			•
Project Manager Name		IT Sponsor Name	
Business Sponsor Name			
Project ETL	BODS Pseudocode	Enable display of Transformation without pseudocode	NO

4. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
	Specifies the name of the project.
Project Name	For example, Data Lake Migration.
	For more information on naming conventions, refer to the
	Best Practices section.
	Specifies the description of the project.
Description	For example: The project contains the mapping spe-
	cifications for the sales data migration.
Project Manager Name	Specifies the project manager's name.
Project Manager Name	For example, John Doe.
Pusinoss Sponsor Namo	Specifies the business sponsor of the project.
Business Sponsor Name	For example, ABC Consulting Services.
Drojact ETI	Specifies the ETL tool assigned to the project.
Project ETL	For example, Informatica Pseudocode.
Cost Center	Specifies the cost center of the project.
Cost Center	For example, Finance and Accounting.
IT Spansor Nama	Specifies the IT sponsor of the project.
IT Sponsor Name	For example, XYZ IT Services.

Field Name	Description
	Specifies whether the transformation is displayed without
Enable display of Trans-	pseudocode.
formation without pseudo-	Switch Enable display of Transformation without pseudo-
code	code to Yes to display transformation without pseudo-
	code.

### 5. Click Save and Exit.

A new project is created and stored in the project tree.

6. Right-click the project.

DATA INTELLIGENCE SUI	New Map		
Workspace Mappings	Pload Legacy Maps	Project Det	ails Project Docu
Workspace Mappings Mappings Transformations Projects A_Project (6) AdventureWor APJ_Demo (1) B_Project (2) BBT (1) BFSI Integration Carrefour (9) Data Lake Mig EDW (3) ERP (2) Erwin_Project ( Erwin_Sales (0) Exeter (2) QVIA (1)	<ul> <li>UpLoad XML</li> <li>New BaseLine</li> <li>Export All</li> <li>Export Change Log</li> <li>Export Mapping Manager XML</li> <li>Publish Mappings</li> <li>Edit Published Maps</li> <li>Reports</li> <li>New Subject Area</li> <li>Reorder Subject Areas</li> <li>Share Link</li> <li>Delete Project</li> <li>Run Template</li> <li>End To End Lineage</li> </ul>	Project Det	ails Project Docu Map Name
<ul> <li>New_Project (;</li> <li>OBIEE (23)</li> <li>Sales Data Mar</li> <li>Sample_Project</li> <li>X_Project (1)</li> </ul>			

7. Click New Map.

The New Mapping Wizard appears.

Create a New Mapping		_ 🖻 🗙
Mapping Name* Mapping Version Version Label Sync Source Metadata Sync Target Metadata Job Name XRef Mapping Description		
		Self Help
Mail Comments		
	Proceed with Auto Map	Finish Cancel

8. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
	Specifies the mapping specification name.
Mapping	For example, EDW_PROD_IDS_Benefits_Detail.
Name	For more information on naming conventions, refer to the <u>Best</u>
	Practices section.
	Specifies the version of the mapping specification.
ManningVor	For example, 1.00.
Mapping Ver-	It is autopopulated.
	For more information on configuring version display of maps, refer to
	the <u>Configuring Version Display</u> topic.
Sync Source	Switch <b>Sync Source Metadata</b> to <b>ON</b> to sync source metadata with the
Metadata	mapping.
Sync Target	Switch Sync Target Metadata to ON to sync target metadata with the
Metadata	mapping.

Field Name	Description
Manning	Specifies the description about the mapping.
Mapping Description	For example: This is a map between EDW source and IDS target sys- tems.
	Specifies the mail comments, which can be sent to the project users through an email notification.
Mail Com- ments	For example: Source and target have identical columns, hence they can be mapped using auto-map technique.
	For more information on configuring notifications, refer to the <u>Con</u> - <u>figuring Notifications</u> topic.

### 9. Click Finish.

A new map is created and saved under the map tree.

For more information on performing source to target mappings, refer to the <u>Creating and</u> <u>Managing Mapping Specifications</u> section.

## **Defining Transformations**

Transformations specify rules that derive values from source columns to get the required values in target columns. You can define enterprise-level and project-level transformations. These transformations can be used as business rules and extended business rule transformations in mapping specifications. Ensure that you define transformations for the same ETL option as that of your mapping project.

To define transformations, follow these steps:

- 1. Go to Application Menu > Data Catalog > Mapping Manager.
- 2. In the Workspace Mappings pane, click any one of the following:
  - **Transformations node**: Click this option to define enterprise-level transformations.
  - **Transformations node under a project**: Click this option to define project-level transformations.

For example, if you click the Transformations node, then the Transformation Details page appears.

Workspace Mappings 🔹 👻		nsformation Details		🌣 🛨 🔶 👚 📸
<ul> <li>Mappings</li> <li>Transformations</li> <li>Projects</li> <li>A_Project (0)</li> </ul>				
		Transformation Name	SSIS Pseudocode	Informatica Pseudocode
<ul> <li>AdventureWorks_Migration (8)</li> <li>APJ_Demo (1)</li> </ul>				
<ul> <li>BBT (1)</li> <li>BFSI Integration (1)</li> </ul>	1	1-DataGov(HighDate:12/31/9999)		To_date(mm/dd/yyyy,12/31/9999)
<ul> <li>Carrefour (9)</li> <li>Data Lake Migration (3)</li> </ul>	2	2-DataGov(LowDate01/01/0001)		To_date(mm/dd/yyyy, 01/01/0001)
EDW (2)		3-DataGov(AverageChum)		Count(active customers)/(Count o Cancelled Customers for current month)

## 3. Click 🖸.

The Transformation Rule Editor page appears.

### **Defining Transformations**

🙀 Transformation Rule Editor		_ 🗆 X
		ĽI ×
Published	OFF	
Transformation Name*		
Scope	All Projects	-
ETL Option	SSIS Pseudocode	-
Pseudocode	Replace Transformation Name with Pseudocode	
	Note: Press 'Ctrl + Space' to select Transformations	
Intended Use		

4. Enter or select appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
Published	Switch <b>Published</b> on (.) to publish the transformation.
Transformation Name	Specifies a unique name of the transformation.
Industry industry industry	For example, ASCII.
	Specifies the projects to which the transformation can be
Scope	applied.
	For example, All Projects.
ETL Option	Specifies the ETL option.
ETL Option	For example, Informatica Pseudocode.

**Defining Transformations** 

Field Name	Description		
	You can <u>configure ETL option list</u> and add or remove an ETL		
	option from the list.		
Replace Transformation	Switch Replace Transformation Name with Pseudocode on (		
Name with Pseudocode	Ito replace the transformation name with pseudocode.		
	Specifies the pseudocode for the transformation.		
Pseudocode	Enter a pseudocode or use Ctrl + Space keys to select a pseudocode.		
	For example, To_date(mm/dd/yyyy,1231,9999).		
Intended Use	Specifies the objective of the transformation.		
	For example: Data governance rule - use on projects.		

# 5. Click 💾.

A new transformation is added on the Transformations Details page.

For more information on transformations, refer to the <u>Defining Transformations</u> section.

## **Mapping Source and Target**

You can create mapping specifications using drag and drop method, even when source column names are different from target column names. After mapping source to target, you can set the target update strategy and enter a description about the strategy.

To create mapping specifications using drag and drop method, follow these steps:

1. Under the **Workspace Mappings** pane, click the required map.

By default, it opens the Mapping Specification tab.

1	Mapping Specificatio	n Graphica	5	Test Specification	Workflow Log	Profiles	: Mapping_Design	ner_Profil 🔻 🕸	G 👯 🗐 <	•
#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale	Target Column Nullable Flag	Ta E1 Va

2. Click 2.

You can now, edit the Mapping Specification tab.

3. Drag source table or column from **Metadata Tree View** and drop in **Mapping Spe**cification.

You cannot drop source system or source environment in Mapping Specification. Ensure that you drop source table or column under the respective column.



4. Drag target table or column from **Metadata Tree View** and drop in **Mapping Specification**.

You cannot drop target system or target environment in Mapping Specification. Ensure that you drop target table or column under the respective column.

### Mapping Source and Target

5. Click 🚾.

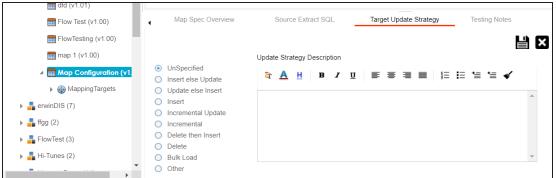
The mapping specification is saved.

To set the target update strategy, follow these steps:

1. Expand the Additional Mapping Information pane.

The pane is available at bottom of the central pane when you click the map in Workspace Mappings.

2. Click the Target Update Strategy tab.



- 3. In the Target Update Strategy tab, click **2**.
- 4. Click the required strategy, enter **Update Strategy Description**, and click

The target update strategy is set.

You can enrich a mapping specification by:

- Adding transformation and lookup details
- Associating code cross walks (code mappings)
- Associating reference tables
- Linking requirements

After creating a mapping specification, you can analyze a mapping specification. <u>Analyzing</u> mapping specification involves:

- Generating virtual preview of target
- Previewing Data
- Performing table gap analysis

### Mapping Source and Target

- Performing column gap analysis
- Running impact analysis
- Running lineage analysis
- Running end to end lineage
- Opening business view
- Viewing mapping statistics

You can create and manage codesets in Codesets Manager. Its workspace has two sections, Enterprise Codesets and Codeset Mappings. You can categorize and define codesets in the Enterprise Codesets section, while you can create codeset crosswalks (mappings) in the Codeset Mappings section.

Before defining codesets, you need to create categories to hold the codesets.

To create categories, follow these steps:

- 1. Go to Application Menu > Data Catalog > Codeset Manager.
- 2. In Codesets Workspace, right-click the Codesets node.

∢ Er	nterprise Codese	ts Codeset Mappings		
Code	Codesets Workspace 🗸 🗸			ary
E	Environme		#	Category Name
÷	Codesets	New Category	1	SAP
		Export All	2	EDW
			3	EDW
			4	EDW
			5	ICD 10
			6	ICD 10

3. Click **New Category**.

The New Category page appears.

🚪 New Category	_ 🗆 🗙
Category Name*	
Category Description	

4. Enter Category Name and Category Description.

For example:

- Category Name EDW
- Category Description This category contains three codesets, Country Codes, Gender, and Marital Status.
- 5. Click 💾.

A new category is created and added to the category tree.

After creating a category, you can define codesets, which are stored inside the category.

To define codesets, follow these steps:

1. Right-click the category node created by you in the above step.

•	Enterprise	Codesets	Codeset Mappings	
C	odesets Wo	rkspace	•	Codeset Grid
		3rd Party Fl APJ Demo EDW ICD 10 ICD 9 New_Cc <sup>+</sup> New_Cc SAP		Codeset Name

2. Click New Codeset.

The New Codeset page appears.

New Codeset	<b>- ×</b>
Codeset Name*	
Codeset Description	

3. Enter Codeset Name and Codeset Description.

For example:

- Codeset Name Country Codes
- Codeset Description This codeset has code names and code values for four countries.

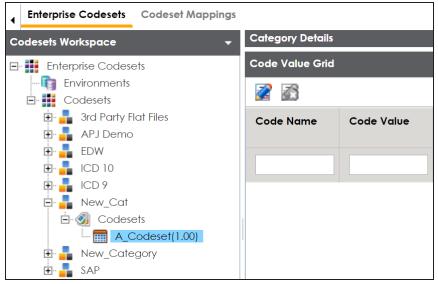
4. Click

A codeset is created and stored in the codesets tree.

We can populate code values in codesets by scanning the database.

To populate code values in codesets via DB scan, follow these steps:

1. Click the codeset created by you.



- 2. In Code Value Grid, click **2**.
- 3. Click s and expand the Quick Connection pane.

Quick Connection			
*Mandatory Fields	X		
DBType: *	Select DB Type		
Driver Name:			
IP Address/Host Name:*			
Port:*			
Database Name:*			
System Name:*			

4. Enter appropriate values in the fields (connecting parameters). Fields marked with a red asterisk are mandatory. Refer to the following table for field description.

Field Name	Description
	Specifies the database type.
DBType	For example, Sql Server.
	Select the database type from which you wish to scan codes.
	Specifies the JDBC driver name for connecting to the database.
Driver Name	For example, com.microsoft.sqlserver.jdbc.SQLServerDriver
Divername	It is autopopulated depending on the DB type. You can also
	update the driver name.
IP Address/Host	Specifies the IP address or server host name of the database.
Name	For example, localhost.
	Specifies the port to connect with the database.
Port	For example: 1433 is the default port for a Sql Server database
	type.
	Specifies the database name being used to connect to the code-
Database Name	set.
	For example, ErwinDIS931.
System Name	Specifies the name of the system related with the codeset.
System Name	For example, EDW.

Field Name	Description
	The name of the system should be same as provided in
	Metadata Manager.
	Specifies the name of the environment related with the codeset.
System Envir-	For example, EDW-DEV.
onment Name	The name of the environment should be same as provided in
	Metadata Manager.
User Name	Specifies the user name to connect with database.
User Marile	For example, sa.
Password	Specifies the password to connect with database.
Passworu	For example, goerwin@1.
	Specifies the full JDBC URL that is used to establish a connection
	with the database.
URL	For example, jdbc:sqlserver://SERVER_NAME:PORT#;data-
	baseName=DatabaseName
	It is autopopulated based on the other parameters.

5. Click  $\stackrel{>}{>}$  to test the connection.

If connection is established then a success message pops up.

- 6. Write a query in the **Query Panel** and click **Solution** to validate the query.
- 7. Click  $\boxed{\square}$  to preview the query result.
- 8. Double-click the **Select CSMHeader Template** cell of the required column.

The columns of the Code Value Grid appears as an option list.

						Sat	D
uery Panel			<	Quick Connection			
elect*from CAT_DIA	LOG_TAB			*Mandatory Fields		* TEST	
				DBType: *	Sql Server	•	
				Driver Name:	com.microso	oft.sqlserver.jdbc.SC	
				IP Address/Host Name:*	localhost		
				Port:*	1433		
				Database Name:*	ErwinDIS931		
				System Name:*	A_System		
					_ /		
				Metadata Browser			
ery Result				Metadata Browser			
ery Result	CAT_DIALOG_TAB_ID	CAT_DIALOG_PROFILE_ID	CAT_DIALOG_TAB_NAME	Metadata Browser CAT_DIALOG_TAB_PROF	PERTIES	CREATED_BY	i
ery Result	CAT_DIALOG_TAB_ID Select CSMHeader Template	CAT_DIALOG_PROFILE_ID	CAT_DIALOG_TAB_NAME Select CSMHeader Template	_		CREATED_BY Select CSMHeader	Tem
ry Result		Code Value Code Name		CAT_DIALOG_TAB_PROP	plate S		Tem
ery Result		Code Value Code Name Code Value Code Description	Select CSMHeader Template	CAT_DIALOG_TAB_PROP	plate S	Select CSMHeader	Temp
ny Result	Select CSMHeader Template	Code Value Code Name Code Value Code Description System Environment Name Start Date	Select CSMHeader Template  DefaultTab  DefaultTab  DefaultTab	CAT_DIALOG_TAB_PROP	plate S	Select CSMHeader Administrator	Temp
ry Result	Select CSMHeader Template 1 2	Code Value Code Name Code Value Code Description System Environment Name	Select CSMHeader Template DefaultTab DefaultTab	CAT_DIALOG_TAB_PROP	plate S	Select CSMHeader Administrator Administrator	Temp
ry Result	Select CSMHeader Template 1 2 3	Code Value Code Name Code Value Code Description System Environment Name Start Date	Select CSMHeader Template CefaultTab DefaultTab DefaultTab DefaultTab	CAT_DIALOG_TAB_PROP	plate S	Select CSMHeader Administrator Administrator Administrator	Temp

9. Select the required **Code Value Grid** column.

You can select multiple columns from the data base.

10. Click to import the selected columns in the **Code Value Grid**.

The selected columns are imported in the Code Value Grid.

You can also enter codes in the Code Value Grid:

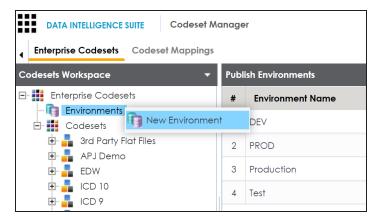
- Manually
- Using MS Excel files

For more information on maintaining codesets, refer to the <u>Maintaining Enterprise Codesets</u> section.

You can publish your codesets to an environment. To publish the codesets, ensure that you have created and setup an environment.

To create publish environments, follow these steps:

- 1. Go to Application Menu > Data Catalog > Codeset Manager.
- 2. In the Codesets Workspace pane, right-click the Environments node.



3. Click New Environment.

The New Environment page appears.

Transferrence Invironment	_ 🗆 X
	li ×
Environment Name* :	

4. Enter Environment Name.

5. Click 💾.

A new publish environment is created and saved in the Publish Environments pane.

To publish codesets, follow these steps:

- 1. Go to Application Menu > Data Catalog > Codeset Manager>.
- 2. In the Codesets Workspace pane, right-click a codeset.



3. Click Publish.

The Publish Codesets page appears.

🖹 Publish Codeset 🛛 💶 🗆				
* Publishing the Codeset will create	e a new version.	×		
Codeset Name	A_Codeset			
Codeset Version	1.01			
Codeset Version Label				
Codeset Changed Description*				
Publish Environment*	DEV PROD	•		
	Production Test	-		

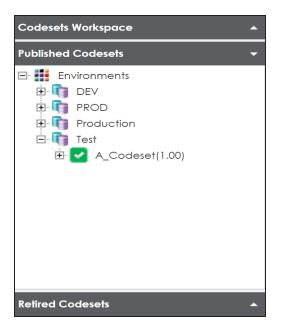
4. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field description.

Field Name	Description
	Specifies the name of the codeset which is being published.
Codeset Name	For example, Country Codes.
	It autopopulates with the codeset name and cannot be
	edited.
	Specifies the new version of the codeset.
Codeset Version	For example, 1.03.
	It autopopulates with the new version and cannot be edited.
Codeset Version Label	Specifies the version label of the codeset.
	For example, Beta.
Codeset Changed	Specifies the description about the changes in the codeset.
Description	For example: Code Value for CANADA was changed to CAN.
Publish Environment	Specifies the publish environment to which the codeset is

Field Name	Description
	being published.
	For example, Production.

# 5. Click 💾.

The codeset is published successfully and the published codesets move under Published Codesets pane.

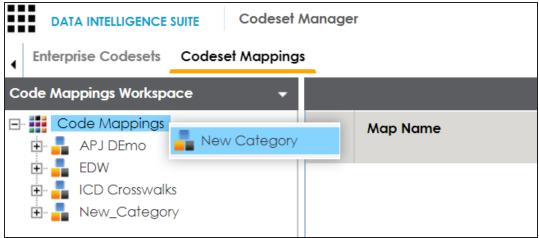


You can create code crosswalks (mappings) for the source and target codesets in Codeset Manager. These codesets can have the same or different code values. Using the Auto-Map functionality, you can map codesets having same code values. Codesets having different code values can be mapped using the drag and drop method.

A category can hold multiple code maps. Code maps are stored in a hierarchical manner, Category > Mappings. You can also create sub-categories under a category to provide one more level of categorization to mappings.

To create a category, follow these steps:

- 1. Go to Application Menu > Data Catalog > Codeset Manager > Codeset Mappings.
- 2. In the Code Mappings Workspace pane, right-click the Code Mappings node.



3. Click New Category.

The New Category page appears.

🚦 New Category	_ <b>_ x</b>
	<b>Ľ</b> ×
Category Name * :	
Category Desc :	

4. Enter Category Name and Category Description.

For example:

- Category Name: EDW
- **Category Description**: This category contains two code mappings, Gender Crosswalk and Marital Status Crosswalk.
- 5. Click

A new category is created and saved under the category tree.

To create sub-categories under a category, follow these steps:

1. Under the **Code Mappings Workspace** pane, right-click the required category.



2. Click New Sub Category.

The New Category page appears.

🚦 New Category	_ 🗆 X
	li X
Category Name * :	
Category Desc :	

3. Enter Category Name and Category Description.

For example:

- Category Name EDW-Finance
- Category Description This sub-category contains two code mappings, Gender Crosswalk and Marital Status Crosswalk.

4. Click

A new sub-category is created and saved under the sub-category tree.

You can use Auto-Map functionality to map source and target codesets having same code values.

To create code mappings when source and target codesets have same code values, follow these steps:

1. Right-click the required category.

DATA INTELLIGENCE SUIT	E Codeset /	Nanager			
Enterprise Codesets     Codeset Mappings					
Code Mappings Workspace   Codeset Mapping Grid					
🖃 📕 Code Mappings 🗄 📲 APJ DEmo					
C_Name DW DDC Crosswalks D_ ICD Crosswalks D_ Integrated_Datc DC Mappings D New_Category		#	Source Category	Source Codeset	Source Codeset Version
			rin DIS	Sales_Codeset	1.00
			in DIS	Sales_Codeset	1.00
			in DIS	Sales_Codeset	1.00
			in DIS	Sales_Codeset	1.00

### 2. Click New Map.

The New Codeset Map page appears.

🕂 New Codeset Map			_ 🗆 ×
			×
Codeset Map Name*			
Codeset Map Version	1.00		
Codeset Map Description			
Source Codeset		Source	
3rd Party Flat Files.Misc Marital Status Coc 3rd Party Flat Files.Misc Gender Codes APJ Demo.Gender Codes EDW.Gender EDW.Marital Status EDW.Country Codes	des	3rd Party Flat Files 3rd Party Flat Files.3rd Party Flat Files A_System A_System.A_Environment AdventureWorks AdventureWorks.AdentureWorks_Staging	-
Target Codeset		Target	
3rd Party Flat Files.Misc Marital Status Coc 3rd Party Flat Files.Misc Gender Codes APJ Demo.Gender Codes EDW.Gender EDW.Marital Status EDW.Country Codes	des	3rd Party Flat Files 3rd Party Flat Files.3rd Party Flat Files A_System A_System.A_Environment AdventureWorks AdventureWorks.AdentureWorks_Staging	*
Auto Map	mapping occurs	for source and target codes having the same value	es.

### 3. Enter Codeset Map Name and Codeset Map Description.

For example:

- Codeset Map Name Gender Crosswalk
- Codeset Map Description The codeset map is the code mappings between the two codesets, Misc Gender Codes and Gender.
- 4. Select the Source Codeset/System and Target Codeset/System.
- 5. Select the Auto Map check box and click

A new code mapping is created and source and target codesets are mapped in the Codeset Mapping Grid.

DATA INTELLIGENCE SUITE Codeset	Manage	r					Search		۹	¢ 0	88
Enterprise Codesets Codeset Mapping	<u>js</u>										•
Code Mappings Workspace 🗸	Codes	et Mapping Grid						^	Codeset Tre	ee	>
E- 🗱 Code Mappings	2	ß					🥖 🗟 🤣 💈	ç	⊡- <b>∰</b> Coo	deSets 3rd Party Flat Fi	les
C_Name     EDW     ICD Crosswalks	*	Source Category	Source Codeset	Source Codeset Version	Source System/Environment	Source Code Description	Source Code ID	1		APJ Demo Data_Integratio D Codesets	n
<ul> <li>Integrated_Data</li> <li>Mappings</li> </ul>								[	Ē	- 🔲 Integrate	ed_Codese
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	Code	<b>M MapSpec Overview</b> eset Map Name	Inte	25 rows per	page •	Ø		> •		ICD 9 N_Cat New_Cat New_Category	odeset
Published Code Mappings	Cod	eset Map Version	1.0	0				$\sim$	<		>

6. Click  $\stackrel{\text{loc}}{\Longrightarrow}$  to validate the code mapping.

You need to use drag and drop method to map codesets having different code values.

To create code mappings when source codesets and target codesets have different code values, follow these steps:

1. Right-click the category.

DATA INTELLIGENCE SU	ITE Codeset /	Manager			
Enterprise Codesets	Codeset Mapping	s			
Code Mappings Workspac	e 🔻	Codeset	Mapping Grid		
🖃 🏭 Code Mappings 🗄 📕 APJ DEmo					
EDW		#	Source Category	Source Codeset	Source Codeset Version
<ul> <li>Integrated_Date</li> <li>Mappings</li> </ul>	<sub> </sub> New Sub Ca	tegory			
E New_Category	🖉 Edit Categor	у	in DIS	Sales_Codeset	1.00
	Delete Cates	gory	in DIS	Sales_Codeset	1.00
	Minport Legad	cy Maps	in DIS	Sales_Codeset	1.00
	Assign Users		in DIS	Sales_Codeset	1.00

2. Click New Map.

The New Codeset Map page appears.

New Codeset Map			_ 🗆 ×
Codeset Map Name*			
Codeset Map Version	1.00		
Codeset Map Description			
Source Codeset		Source	
3rd Party Flat Files.Misc Marital Status Cod 3rd Party Flat Files.Misc Gender Codes APJ Demo.Gender Codes EDW.Gender EDW.Marital Status EDW.Country Codes	des	3rd Party Flat Files 3rd Party Flat Files.3rd Party Flat Files A_System A_System.A_Environment AdventureWorks AdventureWorks.AdentureWorks_Staging	•
3rd Party Flat Files.Misc Marital Status Cod 3rd Party Flat Files.Misc Gender Codes APJ Demo.Gender Codes EDW.Gender EDW.Marital Status EDW.Country Codes	des	3rd Party Flat Files 3rd Party Flat Files.3rd Party Flat Files A_System A_System.A_Environment AdventureWorks AdventureWorks.AdentureWorks_Staging	~
Auto Map 📄 *Auto	mapping occur	s for source and target codes having the same valu	ues.

3. Enter Codeset Map Name and Codeset Map Description.

For example:

- Codeset Map Name Gender Crosswalk
- Codeset Map Description The codeset map is the code mappings between the two codesets, Misc Gender Codes and Gender.
- 4. Select the Source Codeset/System.
- 5. Click 💾.

The source codesets details are updated in the Codeset Mapping Grid.

Creating	Code	Crosswalks	(Mappings)
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s								
Codese	et Mapping Grid						^ 0	Codeset Tree
2	ß					🥖 🗟 🍪 🤅	ç E	CodeSets Image: Image: CodeSets Image: Image: Image: CodeSets Image: Image: Image: CodeSets
*	Source Category	Source Codeset	Source Codeset Version	Source System/Environment	Source Code Description	Source Code ID	:	<ul> <li>APJ Demo</li> <li>Data_Integration</li> <li>Source with the second secon</li></ul>
							]	E- 📰 Integrated_Co
1	erwin DIS	Sales_Codeset	1.00	Project_System		710	Α	1 22 1 33
2	erwin DIS	Sales_Codeset	1.00	Project_System		711	Je	🚺 44
3	erwin DIS	Sales_Codeset	1.00	Project_System		712	к	EDW
4	erwin DIS	Sales_Codeset	1.00	Project_System		713	R	e 🦪 Codesets ⊡ 🥅 Project_System
<	Records from	1 to 4 🔉 👔	25 rows per	poge •			>	Sales_Codese     1     1     2     3     4     CD 10     CD 10     CD 9
		Inte	əgrated_Map		Ď		•	B NcCat New_Cat New_Cat New_Category B SAP
	1 2 3 4 4 	1 erwin DIS 2 erwin DIS 3 erwin DIS 4 erwin DIS	Source Category Source Codeset     Source revin DIS Sales_Codeset     envin DIS Sales_Codeset     envin DIS Sales_Codeset     envin DIS Sales_Codeset     envin DIS Sales_Codeset     Codeset     Codeset     Codeset     Codeset	Source Category Source Codeset Version  Source Category Source Version  I envin DIS Sales_Codeset 1.00  envin DIS Sales_Codeset 1.00  envin DIS Sales_Codeset 1.00  C Codeset Source So	Source Calegory     Source Codeset     Source Codeset     Source System/Environment       1     erwin DIS     Sales_Codeset     1.00     Project_System       2     erwin DIS     Sales_Codeset     1.00     Project_System       3     erwin DIS     Sales_Codeset     1.00     Project_System       4     erwin DIS     Sales_Codeset     1.00     Project_System       4     erwin DIS     Sales_Codeset     1.00     Project_System	Source Calegory Source Codeset Version Source System/Environment Source Code Description Codeset L.00 Project_System Project_System Project_System Source Codeset L.00 Project_System Codeset	Source Calegory Source Codeset Source Codeset Source System/Environment Source Code Description Source Code ID Codeset Codeset L00 Project_System 710 Project_System 711 Codeset L00 Project_System 712 Codeset L00 Project_System 713 Codeset L00 Project_System 713 Codeset Codeset Codeset L00 Project_System 713 Codeset Cod	Image: Source Calegory       Source Codeset       Source Codeset       Source System/Environment       Source Code Description       Source Code ID       Image: Source Code ID         1       erwin DIS       Sales_Codeset       1.00       Project_System       710       A         2       erwin DIS       Sales_Codeset       1.00       Project_System       711       J         3       erwin DIS       Sales_Codeset       1.00       Project_System       712       K         4       erwin DIS       Sales_Codeset       1.00       Project_System       713       R         K        Records from 1 to 4       > >1       25 rows per page •

- 6. Click 🌌.
- 7. Scroll to right of the Codeset Mapping Grid to see the Target Code Value column.
- 8. In **Codeset Tree**, expand the target category and the Codesets node.
- 9. Drag and drop the target codeset into the Code Set Mapping Grid under the Target Code Value column.

DATA INTELLIGENCE SUITE Codeset	-	ler						Search		२ ✿ Ø ▣ ₽
Enterprise Codesets Codeset Mappings										•
Code Mappings Workspace 🔹 Codeset Mapping Grid										Codeset Tree >
E- I Code Mappings	Z	<u>8</u>					Ø	2 🖶 🍫 🛛		E- 🗱 CodeSets È- 🍶 3rd Party Flat Files
E C_Name EDW CDC Crosswalks	me	Source Code Value	Target Code Value	Target Code Name	Target Code ID	Target Code Descriptic	Target System/Environment	Target Codeset	Targe Versi	🗈 📕 APJ Demo
🖹 📑 Integrated_Data		1	Integrated_C	odeset						Integrated_Codese
Mappings     Integrated_Map(1.00)     Map1(1.00)		4								EDW     EVW     erwin DIS     ICD 10
New_Category		2								🗄 📲 ICD 9
		3								
	<	:SM MapSpec Overview		_					>	Bran New Collegory Bran New Collegory Bran SAP
		deset Map Name	•				Ø		•	
Published Code Mappings		deset Map Version	1.00	grated_Map					~	<

10. Click 📕.

The code mappings are successfully saved.

11. Click 🍄 to validate the code mapping.

The code map is validated. Ensure that all the required codes are mapped.

Use the following options:

## Export

To download the code map details in .xlsx format, click  $\textcircled{ extsf{a}}$ .

## Extend Mapping Grid

To extend the Codeset Mapping Grid, click

A code map can be associated with a data item mapping to standardize data across the organization. These code maps are maintained in Codesets Manager. For more information on codesets and code mappings, refer to the <u>Using Codesets Manager</u> section.

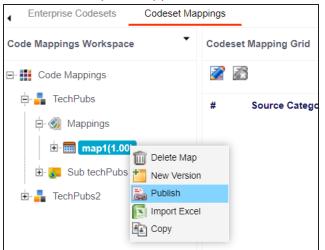
Before associating a code map with data item mappings, ensure that you publish the code map.

## **Publishing Code Maps**

To publish code maps, follow these steps:

- 1. Go to Application Menu > Data Catalog > Codeset Manager > Codeset Mappings.
- 2. In the Code Mappings Workspace pane, right-click a code map.

The available options appear.



3. Click Publish.

The Publish Codeset Map page appears.

💦 Publish Codeset Map	_ <b>_</b> ×
Codeset Map Name*	Integrated_Map
Codeset Map Version	1.01
Codeset Map Description	Code map when source and target have different code values.
Map Version Label	
Map Changed Description*	Updated Code Values.
Publish Environment*	DEV A PROD Production Test

4. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

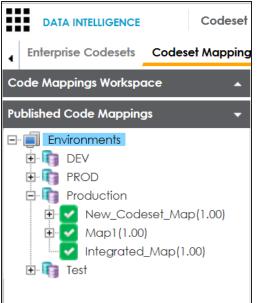
Field Name	Description					
Codeset Map	Specifies the name of the code map.					
Name	For example, Gender Crosswalk.					
Codeset Map	Specifies the new version of the code map.					
Version	For example, 1.02.					
Codeset Man	Specifies the description about the code map.					
Codeset Map Description	or example: The codeset map is the code mappings between the					
Description	two codesets, Misc Gender Codes and Gender.					
Map Version	Specifies the version label of the code map.					
Label	For example, Beta.					
Map Changed	Specifies the description about the changes made in the code map.					
Description	For example: Code values were updated.					
	Specifies the environment where the code map is being published.					
Publish Envir-	For example, test.					
onment	You can create publish environments in Enterprise Codesets.					

Field Name	Description
	For more information on creating publish environments, refer to the
	Publishing Codesets topic.

5. Click 💾.

The code map is published and it can be found in the Published Code Mappings pane under the selected Publish Environment.

A new version of the code map is created under the Mappings tree.



A published code map can be associated with a mapping in the Mapping Manager. The published code map is available under the Code Mappings Catalog.

# Associating Code Maps

To associate published code maps with data item mappings, follow these steps:

- 1. Go to Application Menu > Data Catalog > Mapping Manager.
- 2. In the **Workspace Mappings** pane, click the required map.

Associating Code Mappings with Data Item Mappings

Workspace Mappings	Mapping Specificat	ion Graphic	al Designer T	est Specification	Workflow Log	
	2 🗐 🔯 🗉 🍣	[Data Integrat	ion]			Profiles:
<ul> <li>Project (4)</li> <li>Transformations</li> <li>Test Cases</li> </ul>	# Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length
A 📑 Mappings	1 SQLTechPubs	SQLTechPubs	dbo.Customers	CustomerID	nchar	5
MappingTargets DragDrop (v1.00)	2 SQLTechPubs	SQLTechPubs	dbo.Customers	CompanyName	nvarchar	40
SalesforceIntegration (v1.0) TechPubs (v1.00)	3 SQLTechPubs	SQLTechPubs	dbo.Customers	ContactName	nvarchar	30
<ul> <li>project 1 (4)</li> <li>Project Tech Pubs (8)</li> </ul>	4 SQLTechPubs	SQLTechPubs	dbo.Customers	ContactTitle	nvarchar	30
<ul> <li>Tech Pubs Online (6)</li> <li>TechPubs (6)</li> </ul>	5 SQLTechPubs	SQLTechPubs	dbo.Customers	Address	nvarchar	60

The Mapping Specification grid appears.

- 3. Click 🜌.
- 4. In the **Mapping Specification** grid, right-click the header menu.

er 7	Fest Specification	Workflow Log			•		Metadata Catalog
tion]		Pro	files: Mapping_D	esigner_Profil 🔻	\$ 14 14 14 14 14 14 14 14 14 14 14 14 14		Metadata Combo (
t Table	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Scale Nullable Flag		
					✓ Target Table Alias □Target Column Class □Target Column Alias	^	Metadata
					Target Business Key Flag CSM Mapping Specification Artifacts		Systems
istomers	PostalCode	nvarchar	10	0	Reference Table Business Rule	Ŧ	Search
istomers	City	nvarchar	15	0	0	Γ	erwin DI Suite
							erwin DM

5. Select the **CSM Mapping** check box.

The CSM Mapping Column appears in the Mapping Specification grid.

- 6. In the right pane, expand **Code Mapping Catalog**.
- 7. Drag the code map into the **Mapping Specification** grid and drop it under the **CSM Mapping** column for the required row.

8. Click 🔜.

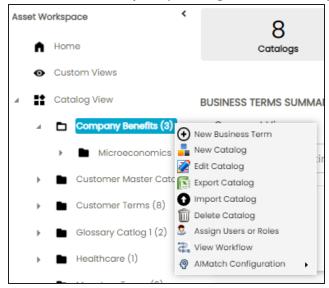
The code map is associated with the data item mappings.

# **Creating Business Terms**

Business terms are globally defined terms that represent your business terminology usage. Using business terms, you can maintain a common business vocabulary across your organization. You can create business terms in new or existing catalogs. For more information about catalogs, refer to the <u>Creating Catalogs</u> topic.

To create business terms, follow these steps:

- 1. Go to Application Menu > Data Literacy > Business Glossary Manager > Explore.
- Go to the Business Terms tab. The Workspace switches to the business terms view.
- 3. In the Asset Workspace pane, right-click a catalog.



Creating Business Terms

4. Click New Business Term.

The New Business Term page appears.

New Business Term	<b>B</b> ×
Term Details       Business Term       Cefinition       E Mage +       Ø +       B       I       U       -       0 +       I       I	Acronym     Governance Responsibilities     No Assignments Found     Classification
Description ≝ Align ▼   Ø ▼ ● ▼   B I U   − ∞ ▼   ● ∷   文   Ⅲ 油 ⊡ ⊡	BusinessTerm Image Uploader
Notes E Maga •   ♂ • ● •   B Z U   - ∞ •   ● □   文   □ □ □	

5. Enter appropriate values to the fields. Fields marked with a red asterisk are mandatory.

Field Name	Description
Acronym	Specifies whether the business term is an acronym.
Business Term	Specifies the name of the business term.
	For example, Account.
Definition	Specifies the definition of the business term.
	For example: An Account contains data for a party.
	Specifies the description of the business term.
Description	For example: Account contains data for posting, payments, debt
	recovery, and taxes.
	Specifies the reference notes, if any.
Notes	For example: The data for posting, payments, debt recovery, and
	taxes was imported from the Account.xlsx file.
Governance	Specifies the users assigned with data governance responsibilities for

Refer to the following table for field descriptions.

**Creating Business Terms** 

Field Name	Description					
Responsibilities	the business assets. For more information, refer to Updating Data					
Responsibilities	Governance.					
	Specifies the sensitive data indicator (SDI) classification of the busi-					
	ness term. Also, you can add multiple SDI classifications to a business					
	term.					
	For example, PHI.					
Classification	For more information on configuring SDI classifications, refer to the					
	Configuring Sensitive Data Indicator Classifications topic.					
	By default, this field is enabled for business terms. For more information on enabling sensitivity fields, refer to the <u>Configuring Asset Details</u> topic.					
Business Term	Drag and drop a picture of business term or click 🕒 to browse and					
Image						
Uploader	upload a picture.					

# 6. Click 💾.

A business term is created and added to the catalog.

Based on your workflow assignment settings, the business term may need further action for review or approval. For more information, refer to the <u>Managing Business</u> <u>Glossary Workflows</u> topic.

Once, a business term is created you can set up associations for business terms.

You can also create Business Policies, Business Rules, and other business assets in the Business Glossary Manager. For more information on creating business assets, refer to the Managing Business Glossary section.

## **Setting Up Associations for Business Terms**

By default, you can associate business terms with business assets (business policies and other business terms) and technical assets (columns, environments, and tables). You can control the available asset types for association using the Business Glossary Manager settings page. For more information, refer to the <u>configuration</u> topic.

To set up associations, follow these steps:

1. On the **Compact View** tab, click **\*\***.

Alternatively, on the **Grid View** tab, under the **Options** column, click S. Then, click **Associations**.

The Associations tab opens in edit mode.

	Customer Te						0	×
<	Edit Business Term	Additional Information	Associations	Rich Media Libra	ry My Acti	on Center W	orkflow Log	н 🔰
Busine	ss Term 🔻	l						î +
Actio	ns Qualifier Name	Relationship Name	Term Name	Description	Definition	Catalog Name	Catalog Hie	erarchy
			N	lo Records Found				

**Setting Up Associations for Business Terms** 

2. In the asset type (business policies, business terms, columns, environments, and tables) list, select an asset type to associate with the business term.

Customer T		
K Edit Business Term	Additional Information	Associations
Business Term	•	
Business Term	A	
Dataset	Relationship	Term Name
Business Policy	Name	Terminame
Business Rule		
Tags		
System		
Environment		
Table	•	
Table	•	

3. Click +.

The Relationship Associations page appears. Based on the asset type that you select, it

Relation	ship Associations				_ 1	⊐ ×
					Save Cance	el
Current	Context:	Economic Growth				4
Current	Context Type:	Business Term				
Relations	ship Name:	is a Synonym of			-	
Search (	partial matches):					•
	Term Name	Description	Definition	Catalog Name	Catalog Hierarc	hy
	<u>3 -Hydroxyl End</u>	len(d3)	The hydroxyl group that is attached to the 3 carbon atom of the sugar (ribose or deoxyribose) of the terminal nucleotide of a nucleic acid molecule.	Macroeconomics	Monetary Terms → Macroeconomics	
			3-A Sanitary Standards, Inc. (3-A SSI) is a non-profit association representing equipment manufacturers, processors, regulatory sanitarians and other public health professionals.			

displays a list of available assets

- Select assets to associate with your business term.
   If you know the asset name, use the Search (partial matches) field to look up for it.
- 5. Click Save.

The selected assets are associated with the business term and added to the list of associations.

You can define as many associations as required.

# **Creating Test Cases**

You can create multiple test cases at project level and, record expected and actual results. Using these test cases, you can test data mappings and ETL process. You can also manage test cases as per your requirements.

To create test cases, follow these steps:

- 1. In the Workspace Mappings pane, expand a project.
- 2. Click the Test Cases node.

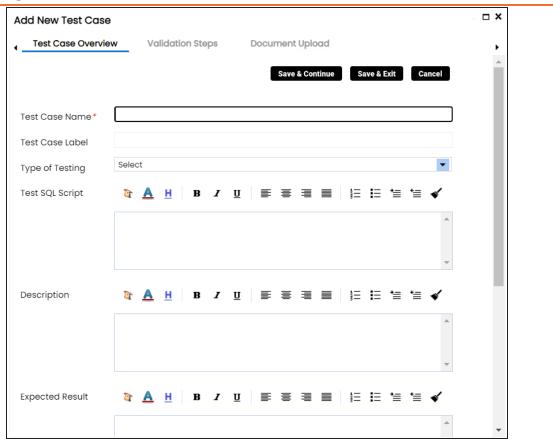
The Test Case Summary pane appears.

Workspace Mappings 🔹 👻	Test Co	ase Summary				
<ul> <li>Mappings</li> <li>Transformations</li> </ul>	€	⊕ ⊕				
🔺 🇱 Projects	#	Test Case Id	Test Case Name	Test Case Label	Type of Testing	Des
A_Project (1)						
AdventureWorks_Migration (8)						
🕨 🚦 APJ_Demo (1)						
🔺 譶 Erwin_Project (2)						
Transformations						
Test Cases						
🖌 🔜 Mappings						
Erwin_Map (∨1.00)						
K_New_Mapping (v1.00)						

3. Click •.

The Add New Test Case page appears.

**Creating Test Cases** 



4. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
Test Case	Specifies the name of the test case.
Name	For example, Verifying the Completeness of Source Metadata.
Test Case	Specifies the unique label for the test case.
Label	For example, Source Metadata.
Type of Test-	Specifies the type of testing.
ing	For example, Metadata Testing.
Test SQL	Specifies the SQL script required in the test execution.
Script	For example, select * from dbo.ADS_ASSOCIATIONS.
Description	Specifies the test objective in brief.

**Creating Test Cases** 

Field Name	Description
	For example: The objective of the test case is to verify the com-
	pleteness of source metadata.
Expected Res-	Specifies the expected result of the test case in detail.
ult	For example: The source table should have 50 columns.
Actual Decult	Specifies the actual test result after the execution of the test.
Actual Result	For example: The source table has 39 columns.
Testing Com	Specifies the testing comments about the test case.
Testing Com- ments	For example: The source metadata was scanned from a Sql Server data-
	base.

## 5. Click Save and Exit.

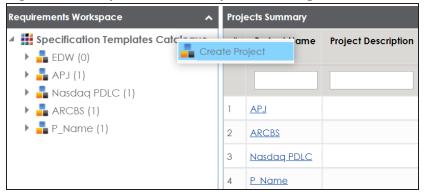
The test case is created and saved under the **Test Cases** node.

For more information on test cases, refer to the <u>Creating and Managing Test Cases</u> topic.

You can document functional requirements in a standardized manner in Requirements Manager. It is an agile and collaborative platform to create customized requirements templates.

To document your requirements in standard templates, follow these steps:

- 1. Go to Application Menu > Data Catalog > Requirements Manager > Requirements Workspace.
- 2. Right-click the **Specification Templates Catalogue** node.



3. Click Create Project.

Create Project page appears.

Create	Proje	ct											- <b>- ×</b>
												>	<
Projec	t Nam	ie*							 				
-		ription											
1	A	H	В	I	Ū	≣	畺	⊒	123 23	ŧ≡	*≣	*≣	
													•
													·

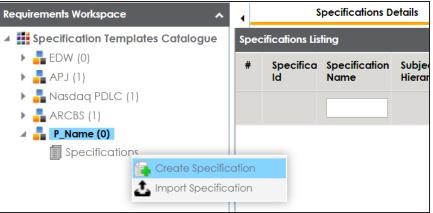
4. Enter Project Name and Project Description.

For example:

- Project Name Nasdaq PDLC
- Project Description This project captures functional and business requirements of the data migration project.
- 5. Click 💾.

A new project is created and stored in the project tree.

6. Right-click the project node.



7. Click Create Specifications.

Create Specifications page appears.

Create Specification	
Specification Template Type	Specification Description
Default	■
Specification Template Description	
Default Template	A
Specification Name*	Specification Owner
	-Select Owner-
Specification Version	Status
1.00	Pending Review
Version Label	Mail Comments

8. Enter appropriate values in the fields. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
	Specifies the template of the specification.
Specification	For example, Health Migration Template.
Template Type	You can create templates and add artifacts to templates in the
	Requirements Manager Settings.
Specification	Specifies the description about the specification template.
Template	For example: The Health Migration Template is to capture functional
Description	and business requirements of the data migration project.
Specification	Specifies the name of the specification.
Name	For example, OrganMatch.
Specification	Specifies the version of the specification.
Version	For example, 1.01.

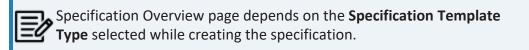
Field Name	Description
	The specification version is autopopulated. For more information on
	configuring version display of specifications, refer to the Configuring
	Version Display topic.
	Specifies the version label of the specification.
Version Label	For example, Beta.
	For more information on configuring version display of specifications,
	refer to the Configuring Version Display topic.
	Specifies the description about the specification.
Specification	For example: The specification uses the Health Migration Template to
Description	capture functional and business requirements of the data migration
	project.
Specification	Specifies the specification owner's name.
Owner	For example, Jane Doe.
Status	Specifies the status of the specification.
Status	For example, Pending Review.
	Specifies the mail comments, which are sent to the project users.
Mail Com-	For example: The specification uses the Health Migration Template.
ments	For more information on configuring email notifications, refer to the
	Configuring Email Settings topic.

# 9. Click 💾 .

A new specification is created and stored in the specifications tree. The specifications tree is nested under the project node.

10. Document your requirements in the **Specification Overview** page.

DATA INTELLIGENCE SUITE Requiremen	nts Manager				<b>A O E</b>
Requirements Workspace	Specification Overview	Specification Details	Supporting Documents	Collaboration Center	Hisl
Specification Templates Catalogue					<u>^</u>
EDW (0)	Specification - Sp_Name				
<ul> <li>APJ (1)</li> <li>Aryan and a policy (1)</li> </ul>	Project: P_Name				
<ul> <li>ARCBS (1)</li> </ul>	Owner:				
⊿ 🔓 P_Name (1)	Status: Pending Review				
Specifications     Sp_Name (v1.00)	General Context				Edit
Context Diagram Business Requirements	Context Diagram				LOIT
Dobigations for the Control					
	Functional Requirements				
	Obligations for the Contract	tor			
	Appendix				
4					
Summary					• •



11. Click 🗐.

The artifact is saved.

For more information on creating specifications and documenting requirements, refer to the Using Requirements Manager section.

# **Linking Requirements to Mappings**

To ensure enterprise-wide traceability, you can link your functional requirements to data mappings.

To link functional requirements to mappings, follow these steps:

- 1. Go to Application Menu > Data Catalog > Mapping Manager.
- 2. Click a mapping.

The mapping opens in the detailed view.

Workspace Mappings 🔹 👻		Mapping Specifico	ation Grap	hical Designer	Test Specification	Workflow Lo	g	•	Metadata Catalogue 🔍 🗸
Mappings	<u>iii</u> 🖬	APPEND OT	🎅 [A_Map]		Profiles: Default	•	🌣 🗟 👯 🗟	) 🖬 🔜 😣 < 🗷	Metadata     Matadata     Matadata     Matadata
Projects     Aproject (1)     Aproject (1)	#	Source System Name	Source Environment Name	Source Table Name	Source Column Name	Source Column Data Type	Source Column Length	Business Rule	ald run y hal hies     ald run y hal hies
Test Cases         ▲         →	1	A_System	A_Environment	dbo.CAT_DIALOG	CAT_DIALOG_TAB	int	4	A	<ul> <li>Atlas Sales System</li> <li>BI</li> <li>BO Reports</li> </ul>
MappingTargets     AdventureWorks_Migration (8)     APJ_Demo (1)     B8T (1)	2	A_System	A_Environment	dbo.CAT_DIALOG	CAT_DIALOG_PRC	int	4		
<ul> <li>BFSI Integration (1)</li> <li>Carrefour (9)</li> <li>Data Lake Migration (3)</li> <li>EDW (2)</li> </ul>	3	A_System	A_Environment	dbo.CAT_DIALOG	CAT_DIALOG_TAB	varchar	50		
ERP (2)     Erwin_Project (2)     Exeter (2)	4	A_System	A_Environment	dbo.CAT_DIALOG	CAT_DIALOG_TAB	varchar	4000		<ul> <li>PeopleSoft</li> <li>Salesforce</li> <li>SAP</li> </ul>
<ul> <li>QVIA (1)</li> <li>New_Project (1)</li> <li>OBIEE (23)</li> <li>Sales Data Mart (8)</li> </ul>	5	A_System	A_Environment	dbo.CAT_DIALOG	CREATED_BY	varchar	50		
	6	A_System	A_Environment	dbo.CAT_DIALOG	CREATED_DATE_TI	datetime	8		
	•	i	1					•	Code Mappings Catalogue
4			< <	Records from 1 to 9	> >I 🕻	Page 1	100 rows per page	•	Specification Artifact Catalogue
Published Mappings 🔹 🔺	Additic	onal Mapping Infor	mation					^	Reference Table Catalogue

3. On the Mapping Specification tab, right click the grid header.

A list of header columns appears.

Linking Requirements to Mappings

Workspace Mappings 🔹 👻	•	Mapping Specifico	<b>tion</b> Gra	phical Designer	Test Specification	Workflow Lo	g
Mappings		APPEND OFF	😂 [A_Map]		Profiles: Default	•	Ô.
Projects	#	Source System Name	Source Environment	Source Table	Source Column	Source Column Data Type	Source Length
Transformations Test Cases Mappings Test Cases	1	A_System	A_Environment	<ul> <li>CSM Mapping</li> <li>Specification Artification</li> <li>Lookup Reference</li> <li>Lookup On</li> </ul>	Column	nt	4
MappingTargets AdventureWorks_Migration (8) APJ_Demo (1) BBT (1)	2	A_System		Trans Lookup Cor Source Column Pr Source Column Sc	ecision	nt	4
<ul> <li>BFSI Integration (1)</li> <li>Carrefour (9)</li> <li>Data Lake Migration (3)</li> </ul>	3	A_System	A_Environment	dbo.CAT_DIALO	G CAT_DIALOG_TAE	3 varchar	50

4. Scroll down the list and select the **Specification Artifact** check box.

The specification Artifact column becomes visible on the Mapping Specification tab.

- 5. In the right pane, click **Specification Artifact Catalog**.
- 6. Expand the project that contains the required specification.
- 7. Drag and drop the specification on the **Specification Artifacts** column in the required row.

Manager						ê Sec	arch 🤉 🗘 🖉 🖪
4 Map	ping Specification	Graphical	Designer Tesl	Specification Workflow Log		•	Metadata Catalogue 🔍 🔺
<u>i</u>		A_Map]	Profi	les: Default	: 🐚 🔣 🖬	J 🐻 😣 < 🗵	Code Mappings Catalogue
et Column	Target Column	Created By	Created Date	Specification Artifacts	Last Modified By	Last Modified Date Time	Specification Artifact Catalogue 👻
Туре	Length					Date time	Specification Templates Catalogue  EDW (0)
	4	Administrator	2019-10-16 15:44:32.383	<b>Sp_Name (v1.00</b>	Administrator	2019-10-17 11:56:07.883	<ul> <li>LOW (0)</li> <li>APJ (1)</li> <li>Assdaq PDLC (1)</li> <li>ARCBS (1)</li> </ul>
	4	Administrator	2019-10-16 15:44:32.383		Administrator	2019-10-16 15:45:28.353	<ul> <li>P.Name (1)</li> <li>Specifications</li> <li>Sp_Name (v1.00)</li> </ul>
ar	50	Administrator	2019-10-16 15:44:32.383		Administrator	2019-10-16 15:45:28.353	

8. Click 🐻.

Requirements are linked to the selected mapping.

After mapping source metadata with target metadata, you can run the lineage analyzer in Metadata Manager. You can run forward, reverse, and dual lineage analysis to trace metadata at the system, environment, table, and column level.

Forward lineage analysis generates lineage with the table as source. And reverse lineage analysis generates lineage with the table as target. The Dual lineage analysis generates a lineage, which includes both forward and reverse lineage.

This topic walks you through the steps to run lineage at the table level as an example.

To run lineage at the table level, follow these steps:

- 1. Go to Application Menu > Data Catalog > Metadata Manager.
- 2. In the **Data Catalog** pane, click the required table.
- In the right pane, click the Data Lineage tab.
   By default, dual lineage of the table appears in Graphical View.

	Graphical View	Grid View		
Dual Lineage: SQLTechPubs		Search		Q 7 \$\$
	SQL System SQL Env SQL Env Good DatabaseLog Good Databas		TechPubs	Northwind

- 4. You can click Graphical View or Grid View to switch between them:
  - Graphical View: The graphical view displays the lineage of the table in a graphical format. Selecting a table on the graphical view displays its Legends. Hovering over a table displays an 
     icon. Clicking this icon opens the object's properties.

	Graphical View Grid View	$\sim$	
ual Lineage: SQLTechPubs			> Legend
Alternative      Anternative      A		î	Systems System Environments MS Excel File SQ Sql Server Tables TA Table
<ul> <li>→ Cosepuv0</li> <li>→ Cosepuv0</li> <li>→ Cosepuv6ame</li> <li>→ P Instee</li> </ul>	Scharten     Orgent     Orgent     Doubboarduar     Doubboarduar	rition	Columns Co Column
etadata Properties ① Business Technical Extended Properties			
Intended Use	Data Ste	ward	
Sensitive Data Indicator (SDI) Classification	- Sensitive	e Data Inc	dicator (SDI) Descripti

Grid View: The grid view displays the lineage of the table in a tabular format. You can view the source and target system, environment, table and column associated with the selected table.

				Graphical View Grid V	/iew		
Dual Linea	ge: SQLTechPubs $\rightarrow$ SQLT	echPubs $\rightarrow$ dbo.Categories					
#	Source System Name	Source Environment Name	Source Table Name	Source Column Name	Target System Name	Target Environment Name	Target Table N
1	SQL System	Northwind			SQL System	Northwind	
2	SQL System	TechPubs			SQL System	Northwind	
3	SQL System	SQL Env	dbo.AdventureWorksDWBuild Version		SQL System	TechPubs	
4	erwinDoc	erwinDOC	CustDetails		TABLEUAU		
5	SQL System	TechPubs			SQLTechPubs	SQLTechPubs	dbo.Categories
6	SQL System	TechPubs			SQLTechPubs	SQLTechPubs	dbo.Categories
7	SQLTechPubs	SQLTechPubs	dbo.Categories	Picture	SQL System	TechPubs	
8	SQL System	TechPubs			SQLTechPubs	SQLTechPubs	dbo.Categories

Use the following options to work on the lineage in graphical view:

## Search ( $^{O}$ )

Use this option to search for tables that you want to see on the lineage.

As you type in the search box, a list of related tables that are available on the lineage appears.

	Graphical View Grid View
Dual Lineage: SQLTechPubs	(a Q)
	Oracle System
	TABLEUAU System
	Salesforce System
	erwinSales SQLTechPubs
SQLTechPubs	Account
🔽 📄 erwinSales	stem SQLTechPubs → Table V
>> Account	✓ ■ TechPubs

## Filter Objects ( abla )

Use this option to filter and display required tables in the lineage view.

Filter Objects	C	<b>X</b>
SQLTechPubs		
Vacle		
▶ 🗹 SQL System		
✓ TABLEUAU		
▶ 🗹 erwinDoc		
Salesforce		
Table Business Entity Types		
TABLE		

The unselected objects are replaced with black dots on the lineage diagram.



# Switch View ( 🖑 )

Double-click an object to see Switch View option. Use this option to switch the level of objects displayed and see the system, environment, or table in which

the object is located.

Q 7 @	\$ 錄
Level	
System Level	YES
Environment Level	NO
Table Level	NO
Default	NO

## Options (🕸)

Use this option to view lineage types, business properties and customizations options. For more information on lineage options, refer to the running lineage analysis on <u>Table</u> topic.

Q 7 \$	E <
Lineage Options	
Forward Lineage	NO
Reverse Lineage	NO
Dual Lineage	YES
Business Properties	
Sensitivity Indicator	NO
Logical Name	NO
Expanded Logical Name	NO
DQ Score	NO
Customization Options	
Auto Layout	YES
Overview Lineage	YES
Overview Pane	NO

# Export ( 🗟 )

Use this option to export the lineage. Click 🗟 and use the following options:

Image (>>): Use this option to download the lineage as an image, in the .JPG format. Ensure that you expand the required nodes in a lineage before downloading the lineage as image.

- PDF ( PDF ( PDF ): Use this option to download the lineage report in the .PDF format. Ensure that you expand the required nodes in a lineage before downloading the lineage report as PDF.
- Excel ( ): Use this option to download the lineage report in the .XLSX format. Ensure that you expand the required nodes in a lineage before downloading the report.

On the lineage, expand a table node, and select a column to view its lineage path. The column is highlighted in blue color, its forward lineage path appears in red, and its reverse lineage path appears in blue. The assets that are not part of a lineage path disappear.

	Graphical View	Grid View	
Dual Lineage: SQLTechPubs		Search	Q 7 🅸
	D Gracie	Salesforce	
SQLTechPubs	SQL Env		
🗡 🕞 📄 erwinSales	💌 🏢 dbo.DatabaseLog		
SQLTechPubs	P DatabaseLogID		
> ) III dbo.Customers	PostTime	TechPubs	
🔍 🏢 dbo.Categories	T XmiEvent	Description	
Description	🕂 Schema	CategoryID	Northwind
≻ 中 CategoryID	₽ Event	Picture	
≻ 中 Picture	Çi isqi	CategoryName	
► 中 CategoryName	다 Object		
	P DatabaseUser		
	> III dbo.AdventureWorksDWBuildVersion		

Click a path around the selected object to highlight its path of the source or target in the lineage.

## Viewing Transformations

Transformations between columns are indicated using  $\clubsuit$  in the lineage. Hover over  $\diamondsuit$  to view transformation rules for the columns on a pop-up. Or, click the path between the columns to highlight it to view detailed transformations between them in the Transformation Details pane.

Dual Lineage: SQLTechPub	os	Search		Q   7	\$ E	> Legend	
Map ID	105					Systems	
Project Name	Project Tech Pubs					-	
Map Name	erwinSalesIntegration					Node Properties	
Map Spec Version	1.01						
Source Extract SQL						Transformation D	etails
Lource Column Name	customerid					Transformation b.	otano
Source Column Data Type	nchar					Property	Value
Source Column Precision	0						
Source Column Length	5					Transformation	
Source Column Scale	0					<ul> <li>Iransformation</li> </ul>	
Target Column Name	OPER						
Target Column Data Type	NUMBER					# Transformation	
Target Column Precision						- manaformation	
Target Column Length		ER_PLAN					
Target Column Scale						Project Nam	Project Tech Pubs
Business Rule	TRUNC						
Extended Business Rule				_			
Trans lookup Condition SELECT Custo	meriD FROM dbo.Customers WHERE CustomerID =	dbo.Customers.CustomerID	E C Saksford	>0		Map Name	erwinSalesIntegration
Lookup On	CustomerID						, and the second s
Map Sequence Id	935						
	C me data Categories					Map Spec Ve	1.01
	> cf calegoryo	Р снам				JOB_XREF	
						Source Extra	
						Source Colu	customerid

You can expand the transformation node to view the transformation details that includes Business Rule, Extended Business Rule, Trans lookup Condition, Lookup On, and more relevant properties.

You can also run the lineage at the following levels:

- System
- Environment
- Column

For more information on performing lineage analysis in Metadata Manager, refer to the <u>Run</u>-<u>ning Lineage Analysis</u> section.

After mapping source metadata with target metadata, you can run impact analysis on the technical assets that form the mappings. Impact analysis helps you understand upstream and downstream dependencies of technical assets. It helps you assess the impact of transformations and source or target-level changes.

This topic walks you through the steps to view impact analysis of a table. Similarly, you can view impact of a column, system, and environment.

To run impact analysis at table level, follow these steps:

- 1. Go to Application Menu > Data Catalog > Metadata Manager > Explore.
- 2. On the Explore tab, click an environment tile to see its details.
- 3. In the **Data Catalog** pane, click a table.
- 4. Click the **Impact Analysis** tab.

Impact analysis of the table appears.

It displays the asset hierarchy, sensitivity data indicator (SDI) classification, data quality analysis, and table's impact based on related assets in your metadata.

Columns	Properties	Extended Propertie	s Data Lineage	Impact Analysis	Mindmap	Associations	Workflow Log	Documents	Indexes	Test Specification
Asset dbo.Customers		Asset Type	Environn SQLTech		System SQLTechP	ubs	Cla	ssification Secret	DQ Score	LINEAGE EXPORT
Impacts 3 Systems → DOW	2 INSTREAM	Impacts 3 Environments	Impacts Impacts 3 WNSTREAM Tables		19	UPSTREAM DOWNSTREAM	Has 32 Other Impacts	TRANSFORMATION RUL EXTRACT SQL LOOKUPS	0	s Assets

Alternatively, click **\*** to switch the **Overview Impact** option **ON** to exclude non-existent systems and environments from the impact analysis. When this option is switched off, the view includes systems and environments that do not exist in the Metadata

Manager.		
0%	LINEAGE	EXPORT
DQ Score		<b>\$</b> •
Linked To	Overview Impact	
0 Business Assets	Includes only Metad	ata Assets

5. On the Tables card, click **Upstream**.

The upstream dependencies of the environment appear in a grid format.

4 –		mpacts 4 Environments	Impacts 4 Tables 2 4 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2	Impacts 21 Columns ← UPSTREA	[14]	
Has 32 Other Impacts Upstream (2)	TRANSFORMATION RULES	Linked To     O     Business Assets				
# System	Name	Environment Name	Table Name	Project	Subject Area	Mapping
1 TABL	EUAU	PRESENTATION LAYER	Account	Test		Data Integration
2 erwin	nDoc	erwinDOC	CustDetails	erwinDIS		Data Integration

Similarly, you can view downstream dependencies on the Downstream tab.

6. On the Upstream or Downstream tab, click an asset to view its lineage or impact analysis. For more information on running lineage analysis on assets, refer to the <u>Running</u>

Linea	<u>ge Analysis</u> topic.		
Upstrea	m (5) Downstream (5)		
#	System Name	Environment Name	Project
1	SQL System	TechPubs	TestingBugs
2	SQLTechPubs	1 Lineage	TestingBugs
3	SQL System	→ Impact Analysis	Flow Test
4	Oracle	TechPubs	erwinSalesIntegration

Use the Other Impacts tile, and click one of the following to view them:

- Business rules
- Source Extract SQL
- Lookups

For example, the image below displays the In Lookups tab with lookup conditions that impacts the asset type. Also, you can switch between In Source Extract SQL and In Business Rules tabs to view relevant impacts.

Impacts 4 Systems → DOWNSTREAM 4 Enviro	ts ← UPSTREAM 2 ronments → DOWNSTREAM	Impacts 4 Tables  ↓ UPSTREAM 2 ↓ DOWINISTREAM 2	Impacts 21 Columns (UPSTREAM (14) Columns
Has TRANSFORMATION RULES 32 EXTRACT SQL Other Impacts LOOKUPS 32	Linked To O Business Assets		
In Transformation Rules (0) In Source Ex	xtract SQL (0) In Lookups (32	2) -	
Source Table	Source Column Lookup Conditio	n	
dbo.Customers	SELECT Compa	anyName FROM dbo.Customers WHERE	CompanyName = dbo.Customers.CompanyName
dbo.Customers	SELECT Contac	tName FROM dbo.Customers WHERE Co	ontactName = dbo.Customers.ContactName
dbo.Customers	SELECT Contac	tTitle FROM dbo.Customers WHERE Con	tactTitle = dbo.Customers.ContactTitle
dbo.Customers	SELECT Custor	nerID FROM dbo.Customers WHERE Cus	tomerID = dbo.Customers.CustomerID

You can also view the upstream and downstream dependencies of other impacted assets from selected tablet's perspective. For example, the image below displays upstream column dependencies from the table's perspective.

Impacts 4 Syster	← UPSTREAM 2 → DOWNSTREAM	Impacts 4 Environments	<ul> <li>← UPSTREAM</li> <li>&gt; DOWNSTREAM</li> </ul>	← UPSTREAM	2 Impacts 21 Columns → DOWNS	<b>32</b>	TRANSFORMATION EXTRACT SQ LOOKUPS	0
Upstrear	ess Assets	)						
#	System Name	Environment Name	Table Name		Column Name	Project	Subject Area	Mapping
1	Salesforce	TechPubs	Account		Туре	Project		SalesforceIntegration
2	Oracle	TechPubs	APPQOSSYS.W	/LM_CLASSIFIER_PLAN	СНКЅИМ	erwinDIS		erwinSalesIntegration
3	Oracle	TechPubs	APPQOSSYS.W	/LM_CLASSIFIER_PLAN	ACTIVE	erwinDIS		erwinSalesIntegration
4	Oracle	TechPubs	APPQOSSYS.W	/LM_CLASSIFIER_PLAN	TIMESTAMP	Project Tech Pubs		erwinSalesIntegration

Additionally, use the following options:

### Lineage

Use this option to view lineage based on the asset type.

## Export

Use this option to export the impact analysis in the XLSX format.

For more information on performing lineage and impact analysis in the Metadata Manager, refer to the <u>Running Impact</u> and <u>Lineage Analysis</u> section.

You can also run impact analysis in the Mapping Manager on:

- Any source/target table
- Any source/target column

Once the mappings are considered 'approved for coding', you can export the mappings as coding requirements to automatically generate ETL/ELT jobs. The ETL jobs can be generated for tools, such as Informatica PowerCenter, IBM DataStage, Microsoft SQL Server SSIS, and Talend.

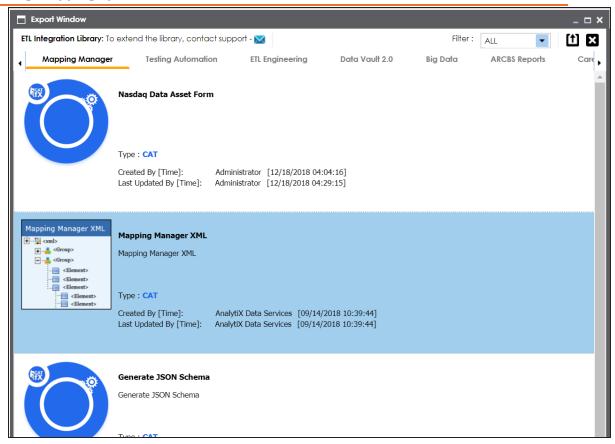
- 1. Go to Application Menu > Data Catalog > Mapping Manager.
- 2. In the **Workspace Mappings** pane, click the required map.

The **Mapping Specification** grid appears.

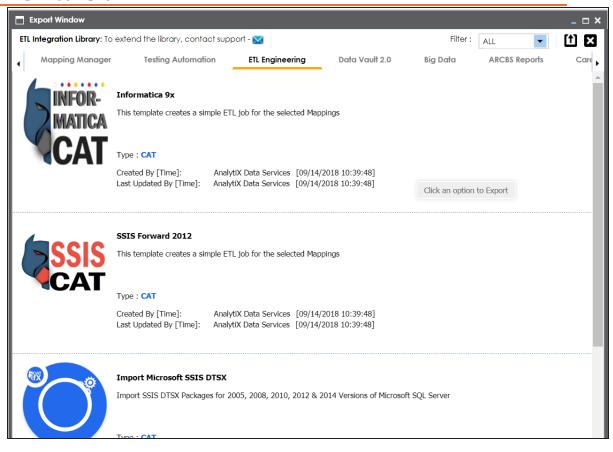
Workspace Mappings 🛛 👻		Mapping Specifico	ation Grap	hical Designer	Test Specification	Workflow Lo	g	۱.
<ul> <li>Mappings</li> <li>Transformations</li> </ul>	28	🗉 🔯 🔳 🍣 (Er	win_Map]		Profile	es: Default	▲ Ô	🗟 ี 🖉 🖉
<ul> <li>Projects</li> <li>Data Lake Migration (3)</li> <li>EDW (2)</li> </ul>	#	Source System Name	Source Environment Name	Source Table Name	Source Column Name	Source Column Data Type	Source Column Length	Business Rule
ERP (2)	1	erwinDIS	erwinDIS	dbo.ADS_ASSOCI,	ID	bigint	8	ABS
<ul> <li>Test Cases</li> <li>Mappings</li> <li>mervin_Map (v1.00)</li> <li>mervin_Mapping (v1.00)</li> </ul>	2	erwinDIS	erwinDIS	dbo.ADS_ASSOCI.	SOURCE_OBJECT_	, bigint	8	ABS
<ul> <li>Exeter (2)</li> <li>IQVIA (1)</li> </ul>	3	erwinDIS	erwinDIS	dbo.ADS_ASSOCI	SOURCE_OBJECT_	bigint	8	ABS

# 3. Click **K**.

The Export Window page appears.

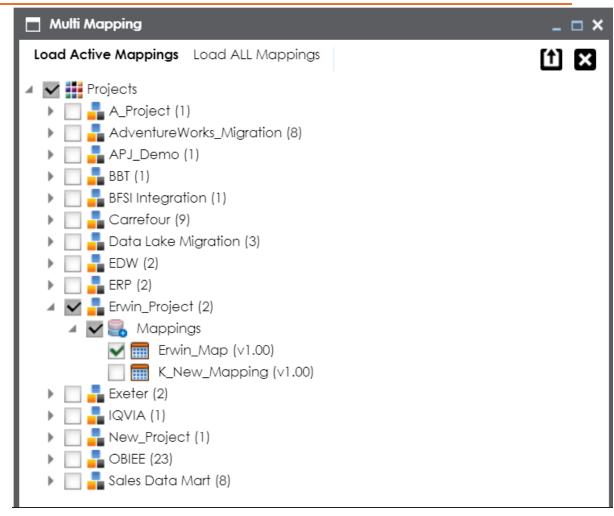


4. Click the ETL Engineering tab.



5. Select the required ETL tool and click 🛍.

The Multi Mapping page appears.



6. Select the mapping and click 🛍.

The following notification appears.

	_		Learch	Task Done			
Workflow Lo	Profiles		ownload File	×	, 1 < D	Metao	Metadato
Source Column Data Type	Source Colui Length			Trar	nded Busine nsformation		A_Syst
bigint	8	ABS			<b>^</b>	*	Atlas S

7. Click the **Download File** hyperlink.

The mapping specification is exported.