

erwin Data Intelligence

Reference Data Management Guide

Release v12.0

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Editing Code Mappings
Versioning Code Mappings
Associating Code Maps with Data Item Mappings
Publishing Code Maps
Associating Code Maps

Managing Reference Data

This section walks you through reference data and codeset management.

Reference data management is done via Reference Data Manager. It involves creating database like structures to maintain all your reference data. You can add reference data in a reference table from a spreadsheet, manually or via a DB scan. To validate reference tables for data quality tests, you can use SQL queries. You can also version, publish (to environments like production, development, test etc.), and link the reference tables to relevant mappings.

For further information on accessing and using the Reference Data Manager, refer to the Using Reference Data Manager topic.

- Codeset management is done via Codeset Manager. It involves creating, managing, and mapping codesets in the Codeset Manager. It has two sections:
 - Enterprise Codesets: Under the Enterprise Codesets section, you can create and manage codesets. It involves importing legacy codesets, categorizing codesets, defining code values, versioning codesets, and publishing codesets to various environments.
 - Codeset Mappings: Under the Codeset Mappings section, you can create and manage code crosswalks (mappings). It involves categorizing code mappings, defining code crosswalks, versioning code crosswalks, and publishing code crosswalks to various environments.

For further information on accessing and using the Codeset Manager, refer to the Using Codeset Manager topic.

Using Reference Data Manager

To access the Reference Data Manager, go to **Application Menu > Data Catalog > Reference Data Manager**. The Reference Data Manager dashboard appears:

space	Validat	ion Rule Grid								-
Reference Datasets										2
Validation Rules Environments	*	Validation Name	Validation Description	Created By	Created Date	Modified By	Modified Date	Validation Rule	Edit	De
Reference Folders										
EON Erwin	1	EMPLOYEE MANAGER CHECK	Rule to check for valid manager	Administrator	2018-10-19 09:05:10.51			Ť	1	,
Erwin_Sales	2	EMPLOYEE NAME RULE	checking for valid employee nam	Administrator	2018-10-19 09:05:40.04	Administrator	2019-03-13 22:43:50.60	Ť	1	×
NASDAQ HEALTHCARE New_Folder	3	Incorrect_Object_Id	desc	Administrator	2019-09-11 14:11:59.4	Administrator	2019-11-01 13:19:02.19	Ť	1	×
	4	INVALID EMP RULE		Administrator	2018-10-19 09:05:57.25			Ť	1	×
	11									

UI Section	Function
1 Workspace	Use this pane to browse and work on validation rules, environments,
1-Workspace	reference folders, and reference tables.
2 Dight Dana	Use this pane to work on the data based on your selection in the Work-
2-Right Pane	space pane.
3-Additional Table	Use this pane to view or work on additional information of a reference
Information	table selected in the Workspace pane.
4-Published Tables	Use this pane to browse, view, and export published reference tables.

Managing reference data involves the following:

- Creating reference folders
- Creating reference tables
- Creating publish environments

Using Reference Data Manager

- Adding validation rules
- Associating codesets with reference tables
- Versioning reference tables
- Publishing reference tables
- Associating reference tables with mappings

Creating Reference Folders

Reference folders group reference tables based on your data integration project. Therefore, before creating reference tables, you need to create a reference folder. You can also create sub-folders to group reference tables further.

To create reference folders, follow these steps:

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

DATA INTELLIGENCE SUITE Reference Data Manager						
Workspace 👻	Reference Tables					
Reference Datasets Audit History Validation Rules Environments	#	Table Name				
Reference Folder: New Folder		TECHPUBS_TEAM				

3. Click New Folder.

The New Folder page appears.

🛓 New Folder	_ 🗆 🗙
	Ľ ×
Folder Name* :	
Folder Description :	

4. Enter the Folder Name and Folder Description.

For example:

Creating Reference Folders

- **Folder Name**: City Names
- Folder Description: This folder contains reference tables for city names.
- 5. Click

The folder is created and saved in the Reference Folders tree.

Once a reference folder is created, you can manage it using the options available on rightclicking the reference folder. <u>Managing reference folders</u> involves:

- Creating sub-folders
- Editing reference folders
- Assigning users
- Deleting reference folders

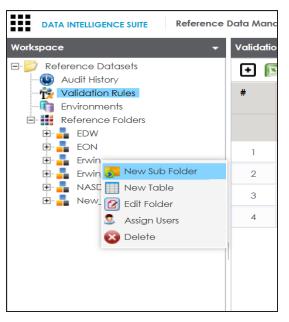
Managing Reference Folders

Managing reference folders involves:

- Creating sub-folders
- Editing reference folders
- Assigning users
- Deleting reference folders

To manage reference folders, follow these steps:

1. In the **Workspace** pane, right-click a reference folder.



2. Use the following options:

New Sub Folder

Use this option to create sub-folders and group reference tables further.

Edit Folder

Use this option to update reference folder's name and description.

Assign Users

Use this option to assign users to a reference folder based on project, departments, functions, and so on. On the Assign Users page, select user IDs under User ID list-box and move them to Assigned Users list-box using the arrows (or). Similarly, to change existing user assignment, select user IDs under Assigned Users list-box and move them back to User ID list-box using the arrows (or).

Delete

Use this option to delete a reference folder that is no more required.

Reference tables store reference data. You can create reference tables in new or existing reference folders. You can also create reference tables under the reference sub-folders.

To create reference tables, follow these steps:

- 1. Go to Application Menu > Data Catalog > Reference Data Manager.
- 2. In the Workspace pane, right-click a reference folder or sub-folder.

For example, if you right-click a reference folder the following options appear.

Workspace 👻							
□· D Reference Datasets							
🖙 💏 Validation Rules							
- Environments							
Reference Folders							
🗄 📕 EDW							
EON							
🗄 📲 Erwin							
🕀 📲 Erwin 🚺 New Sub Folder							
🗈 📕 NASE 🛄 New Table							
🗄 📲 New 🕜 Edit Folder							
🧕 Assign Users							
😵 Delete							

3. Click New Table.

The New Reference Table page appears.

📕 New Reference To	able			_ 🗆 🗙
			Save	Cancel
Folder Name :	Erwin			
Table Name* :				
Version :	1.00]
Owner* :				
Data Steward :	-Select Data Steward-		۲	
Description :				
Import Data from Spre	adsheet			
			Đ) ×
Column Name		Order		

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 reference folder.
Folder Name	For example, NASDAQ Healthcare.
	It is autopopulated and cannot be edited.
Table Name	Specifies the name of the reference table.
	For example, Data_Classifications_Levels.
	Specifies the version of the reference table.
Version	For example, 1.00.
	It is autopopulated and cannot be edited.
Owner	Specifies the reference table owner's name.
Owner	For example, Talon Smith.

Field Name	Description
	Specifies the name of the data steward responsible for the reference table.
	For example, Jane Doe.
Data Ste- ward	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 description about the reference table.
Description	For example: This reference table serves as domain for the data clas- sification column.
Import Data	Use this check box to import reference data into the reference table
from Spread-	from the XLSX file. For more information, refer to the Importing Data
sheet	from Spreadsheets section below.
1.0	

5. Click

A reference table is created and saved in the Reference Tables tree.

Importing Data from Spreadsheets

To import reference data from MS Excel files, follow these steps:

1. On the **New Reference Table** page, click the **Import Data from Spreadsheet** check box.

📕 New Reference Table	_ 🗆 X
1	Next Cancel
Folder Name :	erwin Sales
Table Name* :	HR_REF_TABLE
Version :	1.00
Owner* :	Sojha
Data Steward :	John Doe 🗸
Description :	This is a reference table for HR Dept.
Import Data from Spreads	heet 🗹
	g-n-Drop files here or to select files for upload.

- 2. Drag and drop or use to browse and select the XLSX file.
- 3. Click Next.

The Preview Screen page appears. To exclude a column from the import process, double-click the column header and click **NOT_IN_USE**.

Previ	🗆 Preview Screen 📃 🗆 🗙									
Table N	Table Name: HR_REF_TABLE To exclude a column from the import process, double click on the column header and select 'NOT_JN_USE'							'NOT_IN_USE' 🚹 🗙		
S.NO	TABLE_NAME	TABLE_DEF	TABLE_COMMENTS	LOGICAL_TABLE_NAME	COLUMN_NAME	COL_DEF	COLUMN_COMMENTS	LOGICAL_COLUMN_NA		
1	dbo.RM_RESOURCE_New				RESOURCEID_New					
2	dbo.RM_RESOURCE_New				RESOURCENAME_New					
3	dbo.RM_RESOURCE_New				RESOURCEDESC_New					
4	dbo.RM_RESOURCE_New				RESOURCECELLPHONE_Net					
5	dbo.RM_RESOURCE_New				RESOURCEHOMEPHONE_N					
6	dbo.RM_RESOURCE_New				RESOURCEEMAIL_New					

4. Click 1

The reference data is imported into the reference table.

If you do not click the Import Data from Spreadsheet check box, you need to <u>add columns</u> to the reference table and then add column values:

- Manually
- From MS Excel files
- Through DB scans

You can manage a reference table using the options available on right-clicking the reference table. <u>Managing reference tables</u> involves:

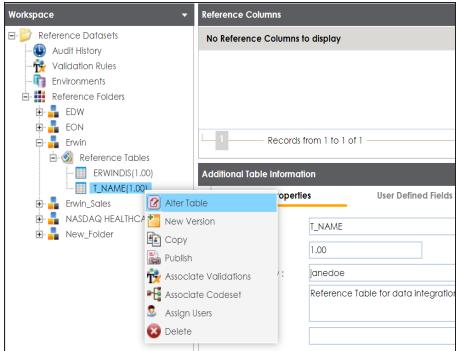
- Altering reference tables
- Copying reference tables
- Assigning users to reference tables
- Deleting reference tables

Adding Columns to Reference Tables

After creating a reference table, you can add columns to the reference table.

To add columns to reference tables, follow these steps:

1. In the **Workspace** pane, right-click a reference table.



2. Click Alter Table.

The Alter Table page appears.

Adding Columns to Reference Tables

🖉 Alter Table						_ 🗆 >
					Li ×	
Folder Name :	Erwin					
Table Name* :	T_NAME					
Version :	1.00					
Owner* :	Samuel					
Data Steward :	janedoe				•	
	Reference	Table for da	ta integration proje	ect.		
Description :						
Created By :	Administra	tor		Created Date :	2019-12-23 17:13:09.15	
Modified By :				Modified Date :		
					Ð	×
Column Name	Order	Created By	Created Date	Modified By	Modified Date	
[]						

3. Click 🖸.

A new row is added to the grid.

4. Double-click the cell under the **Column Name** and enter the column name.

You can add multiple columns.

Adding Columns to Reference Tables

🖉 Alter Table						_
Folder Name :	Erwin					
Table Name*:	T_NAME					
Version :	1.00					
Owner* :	Samuel					
Data Steward :	janedoe				•	
Description :	Reference	Table for dat	ta integration proje	ct.		
Created By :	Administra	tor		Created Date :	2019-12-23 17:13:09.15	
Modified By :				Modified Date :		
					÷	×
Column Name	Order	Created By	Created Date	Modified By	Modified Date	
ID	1					

5. Click 💾.

The columns are added to the reference table.

Workspace 👻	Reference Columns					^
Reference Datasets G Audit History	2 🦻					2
- 🙀 Validation Rules	ID	NAME	CREATED BY	CREATED DATE	MODIFIED BY	MODIFIED DATE
E- 🗱 Reference Folders						
EDW E- LON						
🖻 🍶 Erwin 🖹 🚳 Reference Tables						
ERWINDIS(1.00)	4					Þ
Erwin_Sales NASDAQ HEALTHCARE	- No Records Found					

Once columns are added to a reference table, you can import column values:

- Manually
- From MS Excel files
- Through DB scans

Adding Column Values Manually

You can add data to a reference table manually. It involves adding columns to the reference table and then adding column values. For more information on adding columns to reference tables, refer to the <u>Adding Columns to Reference Tables</u> topic.

To add column values manually, follow these steps:

1. In the **Workspace** pane, click a reference table.

Columns in the reference table appears.

Workspace 👻	Reference Columns						^
Reference Datasets Audit History	2 🖗						8
Validation Rules Environments Reference Folders B EDW		NAME	CREATED BY	CREATED DATE	MODIFIED BY	MODIFIED DATE	
	No Records Found						F

- 2. Click 🜌.
- 3. Click 🚳.

The Add Reference Data page appears.

Add Reference Data		_ 🗆 X
A		
ID	NAME	
		A.

4. Double-click the cells under the columns and type the respective column values.

🖓 Add Reference Data		_ 🗆 🗙
ID	NAME	
12341		
	Andrew	

Adding Column Values Manually

5. Click 😡.

The column values are added to the reference table.

Importing Column Values from MS Excel Files

You can import reference data from MS Excel files into reference tables. First, you need to add columns to a reference table and then import column values from an MS Excel file. For more information on adding columns to reference tables, refer to the <u>Adding Columns to</u> <u>Reference Tables</u> topic.

To import column values from MS Excel files, follow these steps:

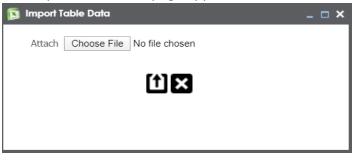
1. In the **Workspace** pane, click a reference table.

Columns in the reference table appear.

Workspace 👻	Reference Columns						^
E- Datasets	2 🖗						
- 🙀 Validation Rules	ID	NAME	CREATED BY	CREATED DATE	MODIFIED BY	MODIFIED DATE	
- 🛐 Environments							
E Reference Folders							
EDW							
E EON							
E- 🔒 Erwin							
Reference Tables							
T_NAME(1.00)	4						F
Erwin_Sales	- No Records Found						

- 2. Click 🜌 .
- 3. Click

The Import Table Data page appears.



- 4. Click Choose File and browse and select the XLSX file.
- 5. Click 1

The Import Table Data page appears.

Importing Column Values from MS Excel Files

6. Double-click the **Select Column to Import** cell of the required column.

Column names added by you in the previous steps appear as options.

🛐 Import Table Data					_ = ×
Delete And Rela	ad				í) 🗙
ID	CREATED BY	CREATED DATE	MODIFIED BY	MODIFIED DATE	
ID	Clear Selection	Select Column To Import	Select Column To Import	Select Column To Import	A
813	ID NAME	2019-09-11 14:09:18.503	Administrator	2019-09-11 14:15:20.543	
813	Clear Selection	2019-09-11 14:09:18.503	Administrator	2019-09-11 14:15:20.543	
813		2019-09-11 14:09:18.503	Administrator	2019-09-11 14:15:20.543	
813	Administrator	2019-09-11 14:09:18.503	Administrator	2019-09-11 14:15:20.543	
813	Administrator	2019-09-11 14:09:18.503	Administrator	2019-09-11 14:15:20.543	
813	Administrator	2019-09-11 14:09:18.503	Administrator	2019-09-11 14:15:20.543	

7. Select the appropriate <Column_Name>.

You can select multiple columns.

8. Click 1.

The column values are imported from the XLSX file.

You can import reference data from a database to a reference table by connecting the database to the application. It involves adding columns to reference table and then importing column values from the database. For more information on adding columns to reference tables, refer to the <u>Adding Columns to Reference Tables</u> topic.

To import column values from databases, follow these steps:

1. In the **Workspace** pane, click a reference table.

Columns in the reference table appear.

Workspace 👻	Reference Columns						^
Reference Datasets Outrace Audit History	2 9						8
Validation Rules Fivironments Reference Folders	ID	NAME	CREATED BY	CREATED DATE	MODIFIED BY	MODIFIED DATE	
EPW EDW EVIn EVIn EVIN EV	4						Þ
B- ■ Erwin_Sales B- ■ NASDAQ HEALTHCARE	- No Records Found						

- 2. Click 🜌.
- 3. Click 📭.

The DB Scan page appears.

💱 DB Scan			-	×
Delete And Reload			Sat (B)
Query Panel <	Quick Connection			>
	* Mandatory Fields		* TEST	^
	DBType: *	Select DB Type	•	
	Driver Name:			
	IP Address/Host Name:*			
	Port:*			11
	Database Name:*			11
	User Name:*			
	Password:*			
		· · · · · · · · · · · · · · · · · · ·		·
Preview				~
				_
Note*: Only top 50 rows will be displayed in grid.				

4. Enter appropriate values in the fields on the **Quick Connection** tab to establish a connection with a database. Fields marked with a red asterisk are mandatory. Refer to the following table for field descriptions.

Field Name	Description
	Specifies the database type.
DB Туре	For example, Sql Server.
	Specifies the JDBC driver name for connecting to the database.
Driver Name	For example, com.microsoft.sqlserver.jdbc.SQLServerDriver
	The field is autopopulated based on the DB Type.
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 ref-
Database Name	erence table.
	For example, ErwinDIS931.

Field Name	Description
Licor Namo	Specifies the user name to connect with the database.
User Name	For example, sa.
Password	Specifies the password to connect with the database.
	For example, goerwin@1.

5. Click 🕅 to test the connection.

If the connection is established, the success message appears.

- 6. Write a query in the **Query Panel** to pull the data from the database.
- 7. Click $\overline{\mathbf{M}}$ to validate the query.
- 8. Click 🔯 to preview the data.

The data is previewed.

👼 DB Se	can						_ = ×		
	elete And Reload						📓 🗋 1		
Query	Panel			<	Quick Connection				
select	t * from <u>dbo.Project</u>		* Mandatory Fields	大 TEST					
					DBType: *	Sql Server	-		
			Driver Name:	com.microsoft	.sqlserver.jdbc.SC				
					IP Address/Host Name:*	localhost			
					Port:*	1433			
					Database Name:*	ErwinDIS931			
					User Name:*	sa			
					Password:*	•••••			
Preview							•		
SNo	PROJ_ID	PROJ_NAME	PROJ_DESCR	PROJ_COST_CENTER	PROJ_IT_SPONSO		PROJ_BUS_SPONSOR		
3140									
	Select column to import	Select column to import	Select column to import	Select column to import	Select column to in	mport	Select column to ir		
1	1	ERP							
2	2	EDW							
3	3	Sales Data Mart							
4	4	BFSI Integration							
5	4	Data Lako Migration							

9. Double-click the **Select Column to Import** cell under the required column.

A drop-down option appears displaying the reference columns.

Preview						~
SNo	PROJ_ID	PROJ_NAME	PROJ_DESCR	PROJ_COST_CENTER	PROJ_IT_SPONSOR_FULL_NAME	PROJ_BUS_SPONSOR
	ID	Select column to import	Select column to import	Select column to import	Select column to import	Select column to ir
1	1	ID NAME				
2	2	Clear selection Select column to import				
3	3					
4	4	BFSI Integration				
5	4	Data Laka Migratian				Ψ
4						•

10. Choose an appropriate <Reference_Column_Name> from the drop-down.

You can import multiple columns from the database.

11. Click 🛍.

The column values from the database are imported into the selected reference columns.

Managing Reference Tables

Managing reference tables involves:

- Altering
- Copying
- Assigning users
- Deleting

To manage reference tables, follow these steps:

1. In the **Workspace** pane, right-click a reference table.

Workspace 🗸 🗸	Reference Columns	
E- 💋 Reference Datasets	🚳 🚳 🖪 📦	
Validation Rules Environments Reference Folders	ID	NAME
EDW	813	Administrator
Erwin Greence Tables ERWINDIS(1.00) T_NAME(1.00)	813	Administrator
Erwin_Sales Alter Tab	le	
New_Folder	Prope	
Associate Associate	e Validations e Codeset	T_NAME
Assign Us		janedoe
😵 Delete	Description.	Reference Table for data integration project.

2. Use the following options:

Alter Table

Use this option to update a reference table. You can edit table name, owner, data steward, and add or remove columns.

Сору

Managing Reference Tables

Use this option to copy a reference table. You can paste the copied reference table in a reference folder. To paste the reference table, right-click the reference folder and click **Paste**.

Assign Users

Use this option to assign users to reference tables. Before, you assign a user to a reference table, ensure that the user is assigned to the corresponding reference folder.

On the Assign Users page, select user IDs under User ID list-box and move them

to **Assigned Users** list-box using the arrows (rightarrow or rightarrow). Similarly, to change existing user assignment, select user IDs under **Assigned Users** list-box and move them back to **User ID** list-box using the arrows (rightarrow or rightarrow).

Delete

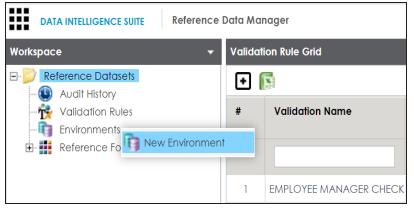
Use this option to delete a reference table that is no longer required.

Creating Publish Environments

You can publish reference tables to various environments like development, production, test etc. You can also specify the schema of the environment, for example, DBO.

To create publish environments, follow these steps:

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



3. Click New Environment.

The New Environment page appears.

👔 New Environment		_ 🗆 🗙
	Li ×	
Environment Name* :		
Schema Name* :		

4. Enter the Environment Name and Schema Name.

For example:

- Environment Name: Production
- Schema Name: DBO

Creating Publish Environments

5. Click 💾.

The publish environment is created and saved on the Publish Environments page.

Adding Validation Rules

You can define a validation rule in the form of SQL queries and use it to validate reference tables.

To add validation rules, follow these steps:

- 1. Go to Application Menu > Data Catalog > Reference Data Manager.
- 2. In the Workspace pane, click the Validation Rules node.

The Validation Rule Grid page appears.

Workspace 🗸										^
Reference Datasets Audit History	Ð									
Validation Rules	#	Validation Name	Validation Description	Created By	Created Date	Modified By	Modified Date	Validation Rule	Edi	Dele
🗄 🏭 Reference Folders										
	1	EMPLOYEE MANAGER CHECK	Rule to check for valid manag	Administrator	2018-10-19 09:05:10			ŤŻ	1	×
	2	EMPLOYEE NAME RULE	checking for valid employee	Administrator	2018-10-19 09:05:40	. Administrator	2019-03-13 22:43:50	ŤŻ	1	×
	3	Incorrect_Object_Id	desc	Administrator	2019-09-11 14:11:59			ŤŻ	1	×
	4	INVALID EMP RULE		Administrator	2018-10-19 09:05:57			Ť	1	×

3. Click 🖸

The New Validation Rule page appears.

New Validation Rule		_ 🗆
	li ×	
Validation Name * :		
Validation Description :		
Validation Rule * :		
Note* : Validation query sho	ould be in the following format for successful execution	
Or	ION ERROR MESSAGE' from ION ERROR MESSAGE' ERROR_MSG from	
ROW_NUM should always b second column (with or with	e the first column and the validation error message should be the out the column alias).	

Adding Validation Rules

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
Validation Name	Specifies the name of the validation rule.
	For example, Incorrect_Object_ID.
Validation Descrip-	Specifies the description about the validation rule.
tion	For example: This validation rule validates the ERWIN_SALES ref-
	erence table.
Validation Rule	Specifies the SQL query of the validation rule.
	For example: select * from ERWIN_SALES where ID = 1000000.

5. Click

The validation rule is created and saved in the Validation Rule Grid.

Validatio	Validation Rule Grid										
•											
#	Validation Name	Validation Description	Created By	Created Date	Modified By	Modified Date	Validation Rule	Edit	Delet		
1	EMPLOYEE MANAGER CHECK	Rule to check for valid manager	Administrator	2018-10-19 09:05:10.51			Ť	/	×		
2	EMPLOYEE NAME RULE	checking for valid employee nam	Administrator	2018-10-19 09:05:40.04	Administrator	2019-03-13 22:43:50.60	ŤŻ	/	×		
3	Incorrect_Object_Id	desc	Administrator	2019-09-11 14:11:59.4			Ť	1	×		
4	INVALID EMP RULE		Administrator	2018-10-19 09:05:57.25			Ť	/	×		

Use the following options to work on the Validation Rule Grid page:

Validation Rule (11)

Use this option to view validation rule queries.

Edit (🖍)

Use this option to update validation rules.

Delete (X)

Use this option to delete validation rules that are no longer required.

Once a validation rule is added, you can:

Adding Validation Rules

- 1. Associate it with a reference table
- 2. <u>Run validation against the reference table</u>

Associating Validation Rules with Reference Tables

After creating a validation rule, you need to associate the validation rule with a reference table.

This allows you to execute the validation rule to validate data in the reference table.

To associate validation rules with reference tables, follow these steps:

1. In the **Workspace** pane, right-click a reference table.

The available options appear.

Workspace 🗸 🗸	Reference Columns
Reference Datasets Generation Audit History	🔏 🚳 🗟 📾
 Validation Rules Environments Reference Folders EDW 	
	813
Reference Tables ERWINDIS(1.00)	Records fr
I_NAME(Alter Table Sub_Folder Formin_Sales	
🗈 🚦 NASDAQ HEALT 🏝 Copy 🗈 🚦 New_Folder 💦 Publish	le Propertie
Associate V	
 Assign Users Delete 	view :
	Description :

2. Click Associate Validations.

The Associate Validation page appears.

Associating Validation Rules with Reference Tables

📸 A:	ssociate Validations				_ 🗆 ×
Availo	able Validations	<	Assoc	iated Validations	>
#	Validation Rule Name	Validation Rule Description	#	Validation Rule Name	Validation Rule Description
1	EMPLOYEE MANAGER CHECK	Rule to check for valid manc			
2	EMPLOYEE NAME RULE	checking for valid employee			
3	INVALID EMP RULE				
4	Incorrect_Object_Id	desc			

3. Drag and drop the required validation rule from the **Available Validation** pane to the **Associated Validation** pane.

For more information on adding validation rules, refer to the <u>Adding Validation Rules</u> topic.

4. Click 💾.

The associated validation rules appear on the Associated Validations tab.

Reference	ce Columns				
<u>í</u>	R 💀				1 1
ID		CREATED BY	CREATED DATE	MODIFIED BY	MODIFIED DATE
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43:51.143
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43:51.143
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43:51.143
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43:51.143
1	Records from 1	to 59 of 59	0010 11 01 11 10 51 1 10		0010 11 01 11 10 51 1 10
Addition	al Table Information				
4	Table Properties	User Defined Fields	Associated Validations	Associated Codesets	Assigned Users
#	Validation F	tule Name		Validation Rule Descri	ption
	1 Incorrect_Ob	vject_ld		desc	

Running Validations Against Reference Tables

You can run a validation rule query against a reference table after associating the table with the validation rule. Executing validation rule validates the data in the reference table.

To run validation rules against reference tables, follow these steps:

1. In the **Workspaces** pane, click a reference table.

The following page appears. Ensure that you are not in edit mode. If you are in edit mode, click storage to cancel edit.

ce Data Manage	r				९ 🗢 🛛 🖻	
Reference G	Columns					
2 🦻					a a	
ID		CREATED BY	CREATED DATE	MODIFIED BY	MODIFIED DATE	
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:40	
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43	
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43	
813		Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43	
Records from 1 to 59 of 59						
Additional T	able Information					
۲ T	able Properties	User Defined Fields	Associated Validations	Associated Codesets	Assigned Users	
#	Validation Rule	e Name		Validation Rule Description		
1	Incorrect_Object	ct_ld		desc		
	Reference C ID 813 813 813 813 813 813 813 813 813 813 813	Reference Columns ID ID 813 813 813 813 813 813 813 813 814 815 817 818 818 819 819 810 813 813 813 813 813 813 813 813 813 813 813 813 813 814 815 816 817 818 819 819 810 813 813 813 814 815 816 817 818 818 819 810 810 811 812 813 813 814 815 816 817 818 818 818 8	Reference Columns ID CREATED BY ID CREATED BY B13 Administrator Additional Table Information User Defined Fields # Validation Rule Name	Reference Columns Reference Columns Reference Columns CREATED BY CREATED DATE ID CREATED BY CREATED DATE B13 Administrator 2019-11-01 11:43:51.143 B14 Administrator 2019-11-01 11:43:51.143 B15 Administrator 2019-11-01 11:43:51.143 B16 Mainistrator 2019-11-01 11:43:51.143 B17 Records from 1 to 59 of 59	Reference Columns ID CREATED BY CREATED DATE MODIFIED BY B13 Administrator 2019-11-01 11:43:51.143 Administrator 813 Administrator 2019-11-01 11:43:51.143 Administrator 1 Records from 1 to 59 of 59	

2. Click 🧐.

The Validate Table page appears.

Running Validations Against Reference Tables

🤯 Validate Ta	ble	_ □ ×
Select Environ	ment:* DEV	Ľ X
Select	Validation Name	
	Incorrect_Object_Id	
L		

3. Select an environment and a validation rule.

For more information on creating environments, refer to the <u>Creating Publish Envir</u>onments topic.

4. Click 💾.

Validation is successfully executed.

The error rows returned by executing the validations are highlighted in red color.

DATA INTELLIGENCE SUITE Reference	ce Data Manager			Search	Q 🗘 🛛 🛛
Norkspace ·	Reference Columns				
Reference Datasets Audit History Matchedia Dataset	2 0	CREATED BY	CREATED DATE	MODIFIED BY	
	ID	CREATED BT	CREATED DATE	MODIFIED BT	MODIFIED DATE
Reference Folders EDW					
🖻 📲 EON	813	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43
Erwin_Sales	813	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43
Reference Tables ERWIN_SALES(1.00)	813	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:43
🗉 🔒 NASDAQ HEALTHCARE	813	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:4
New_Folder Reference Tables	813	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:4
	813	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:4
	9	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:4
	9	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:4
	9	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:4
	9	Administrator	2019-11-01 11:43:51.143	Administrator	2019-11-01 11:4
	Records from 1	to 59 of 59			
	Additional Table Information				
blished Tables	Table Properties	User Defined Fields	Associated Validations	Associated Codesets	Assigned Users

Associating Codesets With Reference Tables

You can associate codesets with columns of a reference table. Codesets can be used as configurable pick lists so that data can be selected from the drop-down.

To associate codesets with columns of reference tables, follow these steps:

- 1. Go to Application Menu > Data Catalog > Reference Data Manager.
- 2. In the **Workspace** pane, right-click a reference table.

The available options appear.

Workspace 🗸 👻	Reference Columns
Workspace Workspace Reference Datasets Audit History Validation Rules Environments Reference Folders EDW CON EDN EDN	Reference Columns
Erwin Erwin ERWINDIS(1.00) ERWINDIS(1.00) Erwin_Sales New Version NASDAQ HEAL New_Folder New_Folder Associate Va	2 Reco ble Inforr ible Prop
Associate Co Assign Users Delete	

3. Click Associate Codesets.

The Associate Codeset page appears.

Associating Codesets With Reference Tables

•	🗧 Associate Codeset	_ _ ×
	Column Name	Associated Codeset
	ID	N/A
	NAME	N/A

4. Double-click the cell for the required column and select an appropriate codeset.

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

Associate Codeset		_ 🗆 ×
		×
Column Name	Associated Codeset	
ID	N/A	
NAME		
	EDW.Marital Status EDW.Country Codes envin DIS.Project_System ICD 10.Certain zoonotic bacterial diseases ICD 10.Malignant neoplasm of ovary ICD 10.Tuberculosis	×

5. Click 💾.

The codeset is associated with the column of the reference table.

The corresponding column in the reference table is now configured as a drop-down and populated with values from the selected codeset.

Associating Codesets With Reference Tables

🐼 🎕 🖪 📾					
ID	NAME	CREATED BY	CREATED DATE	MODIFIED BY	M
	ERP	Administrator	2019-12-24 15:12:28.273	Administrator	:*
2	EDW	Administrator	2019-12-24 15:12:28.273	Administrator	:
5	Sales Data Mart	Administrator	2019-12-24 15:12:28.273	Administrator	:
	Admin(1) Joe Villers(4)	Administrator	2019-12-24 15:12:28.273	Administrator	1
	Kartik Sridhar(2) Resource_Name(3)	Administrator	2019-12-24 15:12:28.273	Administrator	3
	Clear Value Sales Data Mart	∆dministrator	2010-12-24 15-12-28 273	Administrator	,▼

Versioning Reference Tables

You can create versions of reference tables and track the legacy of reference tables. The old version is archived and new version is added to the Reference Table tree in the Workspace pane.

To create versions of the reference tables, follow these steps:

- 1. Go to Application Menu > Data Catalog > Reference Data Manager.
- 2. In the **Workspace** pane, right-click a reference table.

Ensure that the reference table is not in edit mode (locked condition). If it is in edit mode, click 🚳 to cancel edit.

Workspace 👻	Reference Columns
Reference Datasets Audit History Validation Rules Environments Reference Folders EDW	20 🚳 🔝 📚
EDW EON Erwin ERWINDIS(1.00) T_NAM Sub_Folder Alter Table	1 2 3
 Bob_loide Brwin_Sales New Version NASDAQ HEAI Copy New_Folder Publish Associate Val Associate Cod Assign Users Delete 	

3. Click New Version.

The New Version page appears.

Versioning Reference Tables

🎦 New Version	_
Table Name*	T_NAME
Version	1.01
Description	Reference Table for data integration project.
Version Label	
Changed Description*	

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

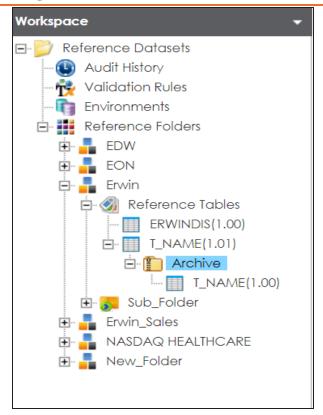
Field Name	Description
Table Name	Specifies the name of the reference table.
	For example, Data_Classifications_Levels.
Version	Specifies the new version of the reference table.
Version	For example, 1.02.
	Specifies the description about the reference table.
Description	For example: This reference table serves as domain for the data clas-
	sification column.
Version Label	Specifies the version label of the reference table.
	For example, Beta.
Changed	Specifies the description of the changes made in the reference table.
Description	For example: A new column, Object_ID was added in the reference
	table.

5. Click 💾.

The new version of the reference table is created and saved under the Reference Table tree.

The previous version of the reference table is archived.

Versioning Reference Tables



You can publish a reference table to a publish environment. Before publishing a reference table, you must ensure that the table has passed all validations successfully.

To publish reference tables, follow these steps:

- 1. Go to Application Menu > Data Catalog > Reference Data Manager.
- 2. In the **Workspace** pane, right-click a reference table.

Workspace 👻	Reference Columns
Reference Datasets Audit History	2 🤣
Validation Rules	ID
Reference Folders EDW EON Frwin Frwin Reference Tables	1 2
Erwin_Sales NASDAQ HEAL New_Folder New_Folder New_Folder New_Polder Publish	3
Associate Val Associate Co Assign Users Delete	
	Table Name :

3. Click Publish.

A warning message appears.

4. Click Yes.

The Publish Table page appears.

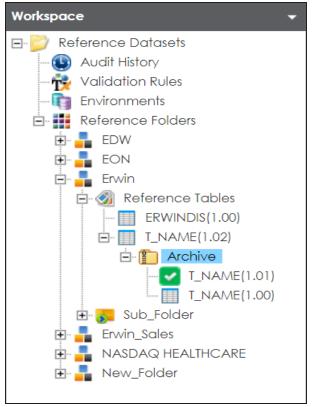
🖹 Publish Table			_ 🗆 ×
* Publishing the table will crea	ate a new version.	Ľ	×
Table Name	T_NAME		
Version	1.01		
Version Label			
Change Description*			
Publish Environment*	DEV Production		•
			-

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

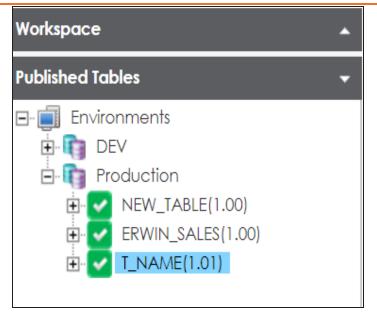
Field Name	Description
	Specifies the name of the reference table.
Table Name	For example, Data_Classifications_Levels.
	It is autopopulated and cannot be edited.
	Specifies the current version of the reference table.
Version	For example, 1.00.
	It is autopopulated and cannot be edited.
Version Label	Specifies the version label of the reference table.
	For example, Beta.
	Specifies the description about the changes made in the reference
Change	table.
Description	For example: A new column, Object_ID was added in the reference
	table.
	Specifies the environment to which the reference table would be pub-
Publish Envir-	lished.
onment	For example, Production.
onnene	For more information on creating publish environment, refer to the
	Creating Publish Environments topic.

6. Click

The reference table is published. The published version is archived and a new version of the reference table is created in the Workspace pane.



The published version is also saved in the Published Tables pane.



Associating Reference Tables with Mappings

Reference data sets the permissible values for other data fields. To standardize your data, you can associate a reference table with mappings. Ensure that you publish the required reference table before associating it with mappings.

To associate reference tables with Mappings, follow these steps:

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

The Mapping Specification grid appears.

Workspace Mappings 🛛 👻	• _	Mapping Specifico	tion Graph	nical Designer	Test Specification	Workflow Lo	g	•
Mappings	<u>8</u>	APPEND 077	🛛 😂 [Integration	n]	Profiles:	Default	🔽 🗘 🛛	, 👫 🗟 🖬 🐻 🐼 < 🗵
 Projects ERP (3) Erwin_Feb (1) 	#	Source System Name	Source Environment Name	Source Table Name	Source Column Name	Source Column Data Type	Source Column Length	Business Rule
 Erwin_Project (5) Erwin_Sales (1) Transformations 	1	Erwin_Sales	Integration	dbo.RM_RESOURC	RESOURCEID	int	4	FLOOR
 Test Cases ✓ Set Cases ✓ Mappings ✓ mintegration 	2	Erwin_Sales	Integration	dbo.RM_RESOURC	RESOURCENAME	varchar	100	REVERSE
	3	Erwin_Sales	Integration	dbo.RM_RESOURC	RESOURCEDESC	varchar	150	dbo.RM_Resource

- 3. Click 🜌.
- 4. Right-click the header menu.

₄	Mapping Specifico	ation Grap	hical Designer	r Test Specificatio	n Workflow L	og
<u>í</u>		🛛 👌 [Integratio	on]	Profiles:	Default	🔽 🗘 🖸
#	Source System Name	Source Environment Name	Source Tab Name	User Defined-46	Source Column	Source Column Length
1	Erwin_Sales	Integration	dbo.RM_RE	User Defined-47 User Defined-48 User Defined-49 User Defined-50		4
2	Erwin_Sales	Integration		 Mapping Spec Row Co Row Order Reference Table 	mments	100

5. Select the **Reference Table** check box.

Associating Reference Tables with Mappings

The Reference Table column appears in the Mapping Specification grid.

6. Drag the reference table from **Reference Table Catalogue** and drop it on the required row under the **Reference Table** column.

Mappin	g Specification	Graphical Desi	gner Test Spe	cification W	/orkflow Log		🕨 Metadata Catalogue 🔍
💰 🖬 🛃 🕻	APPEND 077	[Erwin_Map]	Profiles:	Default	- Q	ū, 👯 🖲 🖬 🐻 😣 < 🗷	Code Mappings Catalogue
arget Column ength	Created By	Created Date 2019-10-21 14:36	CSM Mapping 5:15.057	Last Modified By	Last Modified Date Time	Reference Table	Code Mappings
	Administrator	2019-10-21 14:36:15.057	Integrated_Map(1	.00) ^{ninistrator}	2019-12-10 14:49:07.187		 ICD Crosswalks Integrated_Data Wappings
	Administrator	2019-10-21 14:36:15.057		Administrator	2019-12-10 14:49:07.187		Map1(1.00)

7. Click 🐻.

The reference table is associated with the mappings.

Using Codeset Manager

To access the Codeset Manager, go to **Application Menu > Data Catalog > Codeset Manager**. The Codeset Manager dashboard appears:

^{ce} 1	Summa	ry							
odesets	٠	Category Name	Category Hierarchy	Codeset Name	# of Active Codes	Created By	Created Date	Modified By	Modified Da
ts arty Flat Files	1	SAP	SAP	Material Number	2	Administrator	2018-09-14 11:04:4	Administrator	2018-09-14 11:
Demo	2	EDW	EDW	Gender	3	Administrator	2018-10-05 10:47:1	Administrator	2018-10-05 10:
n DIS	3	EDW	EDW	Marital Status	5	Administrator	2018-10-15 10:27:3	Administrator	2018-10-15 10:2
0	4	EDW	EDW	Country Codes	5	Administrator	2019-07-16 11:32:5	Administrator	2019-07-16 11:
t t	5	ICD 10	ICD 10	Certain zoonotic bacterial	18	Administrator	2018-10-15 09:42:0	Administrator	2018-10-15 09:4
/	6	ICD 10	ICD 10	Malignant neoplasm of ove	4	Administrator	2018-10-15 09:42:0	Administrator	2018-10-15 09:4
	7	ICD 10	ICD 10	Tuberculosis	18	Administrator	2018-10-15 09:42:0	Administrator	2018-10-15 09:4
	8	ICD 10	ICD 10	Intestinal infectious disease	10	Administrator	2018-10-15 09:42:0	Administrator	2018-10-15 09:4
	9	ICD 10	ICD 10	Multiple myeloma	10	Administrator	2018-10-15 09:42:0	Administrator	2018-10-15 09:4
	10	ICD 9	ICD 9	Ovary	1	Administrator	2018-10-15 09:42:4	Administrator	2018-10-15 09:4
	- 11	ICD 9	ICD 9	Tuberculosis	9	Administrator	2018-10-15 09:42:4	Administrator	2018-10-15 09:4
	12	ICD 9	ICD 9	Intestinal infectious disease	9	Administrator	2018-10-15 09:42:4	Administrator	2018-10-15 09:4
	13	ICD 9	ICD 9	Multiple myeloma	10	Administrator	2018-10-15 09:42:4	Administrator	2018-10-15 09:4

UI Section	Function
	Use this pane to browse through Codesets Workspace and Code Mappings
1-Work-	Workspace panes.
space	Codesets Workspace enables you to create and categorize codesets. Code Map- pings Workspace enables you to create and categorize code mappings.
2-Right	Use this pane to work on the data based on your selection in the Workspace
Pane	pane.
3-Pub-	
lished	Use this pane to browse, view, and export published codesets.
Codesets	
4-Retired	Use this pane to browse, view, and export retired codesets.
Codesets	ose this parte to browse, view, and export retired todesets.

Managing codesets involves the following:

Using Codeset Manager

- Maintaining enterprise codesets
- Maintaining code mappings

Maintaining Enterprise Codesets

You can create and maintain codesets using the Enterprise section of the Codeset Manager. Under the Enterprise section, you can create codesets, add code name and code value pairs, and version them. You can also publish the codesets to various environments such as development, test, or production and used it create code crosswalks (mappings).

Maintaining enterprise codeset involves:

- Creating categories
- Adding codesets
- Versioning codesets
- Deleting codes and codesets
- Publishing codesets

Creating Categories

Codes are stored in a hierarchical manner Categories > Codesets. You can group codesets into categories based on your organization's projects, departments, or functions. Therefore, before creating codesets, you need to create a category. You can also create sub-categories to group codesets further.

To create categories, follow these steps:

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

DATA INTELLIGENCE SUITE	deset Manager	
Enterprise Codesets Codeset N	ppings	
Codesets Workspace	- Summary	
Enterprise Codesets	# Catego	ory Name
🕀 👬 Codesets 📲 New Categ	ry 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 the Category Name and Category Description.

Creating Categories

For example:

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

A category is created and saved in the category tree.

Once a category is created, you can:

- Assign users to the category
- Add codesets to the category

You can also manage it using the options available on the right-clicking category. <u>Managing</u> <u>categories</u> involves:

- Updating categories
- Creating sub categories
- Deleting categories
- Creating new codesets
- Exporting codesets
- Deleting codesets
- Exporting category codesets
- Importing codesets
- Assigning users

Managing Categories

Managing categories involves:

- Updating categories
- Creating sub categories
- Deleting categories
- Creating new codesets
- Exporting codesets
- Deleting codesets
- Exporting category codesets
- Importing codesets
- Assigning users

To manage categories, follow these steps:

1. In the **Codesets Workspace** pane, right-click a category.

anager	
Category Details	
Category Name	Tec
Category Description	
odesets Created By Created Date Time	Adr 202
	Category Name Category Description odesets Created By

2. Use the following options:

New Sub Category

Use this option to create a sub-category and group codesets further.

Delete Category

Use this option to delete a category that is no longer required. Deleting a category also deletes codesets in it.

New Codesets

Use this option to create new codesets. For more information on creating new codesets, refer to the <u>Adding Codesets</u> topic.

Export Codesets

Use this option to export codesets to an XLSX file.

Delete Codeset(s)

Use this option to delete one or multiple codesets in a category. On the Delete Codesets page select a codeset(s) and delete them.

Export Category Codesets

Use this option to export the category codesets to an XLSX file.

Import Codesets

Use this option to import codesets from another category. On the Import Codesets page you can browse and upload files.

Assign Users

Use this option to assign users to a category based on your organization's projects, departments, functions, and so on. On the Assign/Unassign Users page,

select or remove users and click . For more information on assigning users, refer to <u>Assigning Users</u> topic.

Assigning Users

You can assign users to a category and enable write access to all sub-folders and codesets within the category.

To assign users, follow these steps:

1. In the **Codesets Workspace** pane, right-click a category.

DATA INTELLIGENCE SUITE Codeset Manager	
Enterprise Codesets Codeset Mappings	
Codesets Workspace Category Details	
	Category Name Category Description
 Export Codesets Delete Codeset(s) Export Category Codesets Import Codesets Import Codesets Assign Users 	Created By Created Date Time Last Modified By Last Modified Date

2. Click Assign Users.

🚨 Assign Users	_ 🗆 ×
User ID	Assigned Users
ks123 mboggs mread new_user_id public	
Note*: Only Non-Administrator Ids will be o	lisplayed here.

3. Use (⇒ or ⇒) to move users from User ID box to Assigned Users box and use (← or
(+) to move users from Assigned Users box to User ID box.

Assigning Users

4. Click

The users are assigned to the category.



Follow the same procedure to add/remove users to/from the category.

Adding Codesets

After creating a category, you can add codesets to enter codes.

Codesets store codes in a code value grid.

To add new codesets, follow these steps:

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

Enterprise Codesets		DATA IN	NTELLIGENCE	SUITE	Codeset Mo	anager	
Enterprise Codesets Environments Codesets Codesets Codesets APJ Demo EDW Codesets Codese	•	Enterprise	Codesets	Codese	et Mappings		
Environments Codesets ard Party Flat Files APJ Demo EDW Codesets EDW Codesets	C	odesets Wo	rkspace		-	Category Deta	ils
 Export Category Codesets Import Codesets Assign Users 			vironments odesets 3rd Party F APJ Demo EDW erwin DIS ICD 10 ICD 9 New_Cat	itat Files New Delet New Expor Expor	e Category Codeset 1 Codesets e Codeset(s) 1 Category C rt Codesets		

3. Click New Codeset.

The New Codeset page appears.

📲 New Codeset		_ 🗆 ×
	Ľ X	
Codeset Name*		
Codeset Description		

4. Enter Codeset Name and Codeset Description.

Adding Codesets

For example:

- Codeset Name: Country Codes
- **Codeset Description**: This codeset has code names and code values for four countries.
- 5. Click 💾.

A new codeset is created and saved under the Codesets tree.

Once a codeset is created you can add codes to the code value grid in the following ways:

- Entering codes manually
- Importing codesets from a MS Excel file
- Importing codesets through a DB scan

After creating codesets, you can add codes manually in the code value grid.

To enter codes manually, follow these steps:

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

The Code Value Grid appears.

DATA INTELLIGENCE SUITE Codeset M	anager				
Enterprise Codesets Codeset Mappings					
Codesets Workspace 🗸	Category Details				
🖃 📕 Enterprise Codesets	Code Value Grid				
Environments	2				
3rd Party Flat Files APJ Demo EDW Codesets Image: Codeset (1.00) Image: Codeset (1.00) <tr< th=""><th>Code Name</th><th>Code Value</th><th>Code Description</th><th>Codeset Name</th><th>System Name/Environment</th></tr<>	Code Name	Code Value	Code Description	Codeset Name	System Name/Environment

- 3. Click 🌌.
- 4. Click 🚳.

The New Code page appears.

🖨 New Code			_ = ×
Code Name*		User Defined Field 3	
Code Value*			
Code Description		User Defined Field 4	
		User Defined Field 5	
System/Environment Name	Please select System/Environment	User Defined Field 6	
Start Date			
End Date		User Defined Field 7	
Activate User Defined Fields			
User Defined Field 1		User Defined Field 8	
		User Defined Field 9	
User Defined Field 2		osci benned held /	
		User Defined Field 10	
Note* : Date Format = MM/DD/	YYYY		

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

Field Name	Description	
Code Name	Specifies the code name.	
	For example, Admin.	
Code Value	Specifies the code value of the code name.	
	For example, 1.	
Code Descrip	Specifies the description about the code.	
tion	For example: The code value for Admin is 1.	
System/ Specifies the system and environment related with the code.		
Environment	For example, EDW.EDW-DEV.	
Name	Select the System/Environment name.	
	Specifies the start date of the code validity.	
Start Date	For example, 02/24/2020.	
	Enter the start date using 🕅.	
End Date	Specifies the end date of the code validity.	
	For example, 03/22/2021.	

Field Name	Description
	Enter the end date using 🛄.
Activate User Defined Fields	Turn Activate User Defined Fields to ON to use the user defined fields in the Code Value Grid.
li iser Detined	You can use your own UI labels for user defined fields. For more inform- ation on using UI labels for user defined fields, refer to the <u>Configuring</u> <u>Language Settings</u> topic.

6. Click

The codes are entered into the Code Value Grid.

DATA INTELLIGENCE SUITE Codeset M	anager						Searc	h
Enterprise Codesets Codeset Mappings								
Codesets Workspace 🗸	Category Details							
🖃 📕 Enterprise Codesets	Code Value Grid							
Environments Codesets	2						F	Profiles : Profile_ABC
APJ Demo	Code Name	Code Value	Code Description	Codeset Name	System Name/Environment	Active Indicator	Delete Indicator	Extended Properties
Data_Integration EDW erwin DIS								
erwin Dis	Admin	1		Sales_Codeset	Project_System			View
Project_System(1.00) Sales_Codeset(1.00)	Joe Villers	4		Sales_Codeset	Project_System			<u>View</u>
🕀 🚦 ICD 10	Kartik Sridhar	2		Sales_Codeset	Project_System			View
	Resource_Name	3		Sales_Codeset	Project_System			<u>View</u>
B- New_Cat B- New_Category B- SAP								

7. Use the following options:

Maximize

To maximise the Code Value Grid view, click

Export to Excel

To download the codeset, click 🗐.

Managing codesets involves:

- Editing Codesets
- Copying Codesets
- Editing Code Value Grid
- Retiring Codesets

Importing Codes using MS Excel Files

You can import codes into Code Value Grid using .xlsx files. The .xlsx file template must be compatible with the Code Value Grid. To ensure the compatibility, download the template and enter the codes and upload it to the Code Value Grid.

To import codes using MS Excel Files, follow these steps:

1. In the **Codesets Workspace** pane, click a codeset.

The Code Value Grid appears.

2. Click 🕮 to download the template file.

The template in .xlsx format is downloaded.

3. Enter relevant data in the template.



You can use your own UI labels for user defined fields. For more information on using UI labels for user defined fields, refer to the <u>Configuring Language Settings</u> topic.

DATA INTELLIGENCE SUITE Codeset M	anager				
Enterprise Codesets Codeset Mappings					
Codesets Workspace 🗸 🗸	Category Details				
Enterprise Codesets	Code Value Grid				
Environments	2				
Gradient State Stat	Code Name	Code Value	Code Description	Codeset Name	System Name/Environment
EDW					
È- Ø Codesets È- I Sales_Codeset(1.00)					
New_Category					
🗄 📲 SAP					

- 4. Click **2** to enable the edit mode.
- 5. Click 🛐.

Importing Codes using MS Excel Files

The Import Excel page appears.	
😰 Import Excel	_ 🗆 🗙
Attach Choose File No file chosen	
Ĺ	

- 6. Browse the updated .xlsx file using **Choose File**.
- 7. Click 🛍.

The codes are uploaded into the Code Value Grid.

Once you upload the codes in the Code Value Grid, you can manage the codesets.

Managing codesets involves:

- Editing Codesets
- Copying Codesets
- Editing Code Value Grid
- Retiring Codesets

Importing Codes into Code Value Grid using DB Scan

You can import codes into Code Value Grid by scanning a database. Enter connection parameters and establish a connection between the database and erwin DI. Once the connection is established, write an SQL query to preview the required data. You can select the required columns and import them as codes into the Code Value Grid.

To import codes using DB scan, follow these steps:

1. In the Codesets Workspace pane, click the required codeset.

The Code Value Grid page appears.

DATA INTELLIGENCE SUITE Codeset Mo	anager				Se
Enterprise Codesets Codeset Mappings					
Codesets Workspace 🗸	Category Details				
Enterprise Codesets	Code Value Grid				
Environments	2				Pro
Image: State of the state	Code Name	Code Value	Code Description	Codeset Name	Syste

- 2. Click **2**, to enable edit mode.
- 3. Click 📭 .

The Following page appears.

Importing Codes into Code Value Grid using DB Scan

 Quick Connection
Metadata Browser
Metadata A Carty Flat Files A System A Environment AdventureWorks AdventureWorks AdventureWorks AdventureWorks AdventureWorks AdventureWorks AdventureWorks AdventureWorks Bi Microstrateav Microstrateav

4. Expand the **Quick Connection** pane.

<	Quick Connection	
	*Mandatory Fields	火 TEST
	DBType: *	Select DB Type
	Driver Name:	
	IP Address/Host Name:*	
	Port:*	
	Database Name:*	
	System Name:*	
	Metadata Browser	

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

Importing Codes into Code Value Grid using DB Scan

Field Name	Description	
DBType	Specifies the database type.	
	For example, Sql Server.	
	Select the database type from which you wish to scan codes.	
Driver Name	Specifies the JDBC driver name for connecting to the database.	
	For example, com.microsoft.sqlserver.jdbc.SQLServerDriver	
	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.	
Port	Specifies the port to connect with the database.	
	For example: 1433 is the default port for a Sql Server database	
	type.	
Database Name	Specifies the database name being used to connect to the code-	
	set.	
	For example, ErwinDIS931.	
System Name	Specifies the name of the system related with the codeset.	
	For example, EDW.	
	The name of the system should be same as provided in	
	Metadata Manager.	
System Envir- onment Name	Specifies the name of the environment related with the codeset.	
	For example, EDW-DEV.	
	The name of the environment should be same as provided in	
	Metadata Manager.	
User Name	Specifies the user name to connect with database.	
	For example, sa.	
Password	Specifies the password to connect with database.	
	For example, goerwin@1.	
URL	Specifies the full JDBC URL that is used to establish a connection	
	with the database.	

Importing Codes into Code Value Grid using DB Scan

Field Name	Description		
	For example, jdbc:sqlserver://SERVER_ NAME:PORT#;data-		
baseName=DatabaseName			
	It is autopopulated based on the other parameters.		

6. Click 🕅 to test the connection.

On a successful connection, Connection Successful pop-up appears.

- 7. Write an SQL query in the **Query Panel** to fetch the required data from the database.
- 8. Click $\overline{\mathbf{M}}$ to validate the query.
- 9. Click \Box to preview the data.
- 10. Double-click the **Select CSMHeader Template** cell of the required column.

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

👼 DB Scan						_ 🗆 🗙
					Sut	
Query Panel		<	Quick Connection			•
Select*from CAT_DIALOG_TAB			*Mandatory Fields		* TEST	A
			DBType: *	Sql Server	•	- 1
			Driver Name:	com.microsof	ft.sqlserver.jdbc.SC	- 1
			IP Address/Host Name:*	localhost		
			Port:*	1433		- 11
			Database Name:*	ErwinDIS931		
			System Name:*	A_System		
						•
		-	Metadata Browser			•
Query Result				_		~
# CAT_DIALOG_TAB_ID	CAT_DIALOG_PROFILE_ID	CAT_DIALOG_TAB_NAME	CAT_DIALOG_TAB_PROP	ERTIES C	CREATED_BY	
Select CSMHeader Template	Code Value	Select CSMHeader Template	Select CSMHeader Temp	olate Se	elect CSMHeader 1	emplat 🔺
1 1	Code Name 🔺	DefaultTab		A	dministrator	
2 2	Code Description System Environment Name	DefaultTab		A	dministrator	
3 3	Start Date	DefaultTab		A	dministrator	
4 4	End Dale	DefaultTab		A	dministrator	
5 5	5	DefaultTab		A	dministrator	•
4						•
Note*: Only top 50 rows will be displayed in grid.						

Importing Codes into Code Value Grid using DB Scan

11. Select the required Code Value Grid column.

You can select multiple columns from the database.

12. Click to import the selected columns into the **Code Value Grid**.

The selected columns are imported in the **Code Value Grid**.

Once you import the codes in the Code Value Grid, you can manage codesets.

Managing codesets involves:

- Editing Codesets
- Copying Codesets
- Editing Code Value Grid
- Retiring Codesets

Managing Codesets

Managing Codesets involves the following:

- Editing codesets
- Deleting codesets
- Creating new codeset version
- Publishing codesets
- Copying codesets
- Retiring codesets

You can manage the codesets and update its details.

To manage codesets, follow these steps:

- 1. In the **Codesets Workspace** pane, expand a category.
- 2. Expand the **Codesets** node, and right-click a codeset.

Managing Codesets

	Codeset M	anager		
Enterprise Codesets Cod	eset Mappings			
Codesets Workspace	.	Category	Details	
🖃 🏭 Enterprise Codesets		Code Valu	ue Grid	
Environments		2		
🕂 🚽 3rd Party Flat File	S	Code Na	me	Code Value
EDW				
E M Codesets		Admin		1
iter in Sales_Coo ICD 10	Edit Code:	set		4
🕂 - 🚺 ICD 9	Delete Co		ıar	2
	1 New Versio	on	Name	3
New_Category	Publish			
	🧕 Retire			

3. Use the following options:

Edit Codeset

Use this option to update codeset's details.

Delete Codeset

Use this option to delete a codeset.

New Version

Use this option to create a new codeset version. For more information on creating new codeset version, refer to <u>Versioning Codesets</u> topic.

Publish

Use this option to publish the codesets. For more information on publishing codesets, refer to <u>Publishing Codesets</u> topic.

Сору

Use this option to copy the selecte codeset and paste it in different category.

Retire

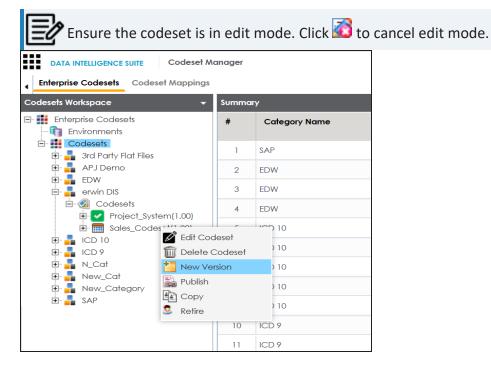
Use this option to retire a codeset and it is moved to Retired Codesets pane. After you retire a codeset, you cannot retrieve that codeset.

Versioning Codesets

You can version codesets and maintain the legacy of codesets with a record of changed description.

To create new versions of 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 New Version.

The New Codeset Version page appears.

Versioning Codesets

🣔 New Codeset Version	_ = ×
Codeset Name	New_Codeset
Codeset Version	1.02
Codeset Description	desc
Codeset Version Label	
Codeset Changed Description *	Metadata management

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 whose version is being cre- ated.				
Codeset Name	For example, Country Codes.				
	It is autopopulated with the codeset name and cannot be edited.				
Codeset Version	Specifies the new version of the codeset.				
Codeset version	For example, 1.03.				
	Specifies the description about the codeset.				
Codeset Description	For example: This codeset has code names and code values for four countries.				
	It is autopopulated with the codeset description 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.				

5. Click 💾.

The new version is created and the older version is archived.

Deleting Codes and Codesets

You can logically delete and restore the codes, and also permanently delete the codesets.

To delete codesets, follow these steps:

- 1. Go to Application Menu > Data Catalog > Codeset Manager.
- 2. In the Codesets Workspace pane, expand a category.
- 3. Expand a Codesets node and click a codeset.

The Code Value Grid appears

DATA INTELLIGENCE SUITE Codeset A	DATA INTELLIGENCE SUITE Codeset Manager							
Enterprise Codesets Codeset Mappings								
odesets Workspace 🗸 🗸	Category Details							
- 📕 Enterprise Codesets	Code Value Grid							
🛐 Environments 	📝 🗟 🍓 🔯 🕸 Profiles: Profile_ABC						s: Profile_ABC	
Grand Party Flat Files APJ Demo	Code Name	Code Value	Code Description	Codeset Name	System Name/Environment	Active Indicator	Delete Indicator	Extended Properties
EDW Servin DIS Codesets								
En Marcodesets Èn ✔ Project_System(1.00)	Admin	1		Sales_Codeset	Project_System	\checkmark		View
E I ICD 10	Joe Villers	4		Sales_Codeset	Project_System			View
🖶 📕 ICD 9	Kartik Sridhar	2		Sales_Codeset	Project_System			View
□ ∎ N_Cat □ Ø	Resource_Name	3		Sales_Codeset	Project_System			View
E Code_Set(1.00) New_Cat New_Category SAP								

4. Select **Delete Indicator** check box for relevant Codeset Name from the Codeset Value Grid.

A warning message appears.

5. Click Yes.

The code is logically deleted and can be restored or purged.

To restore or purge logically deleted codes, follow these steps:

1. Click 🔡.

The Logically Deleted Codes page appears.

Deleting Codes and Codesets

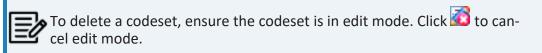
Select Rows	Code Name	Code Value	Code Description	Codeset Name	System Name/Environment	Active Indicator	Start Date	End Date
	Admin	1		Sales_Codeset	Project_System			
	Joe Villers	4		Sales_Codeset	Project_System			
	Kartik Sridhar	2		Sales_Codeset	Project_System			

- 2. Select required rows.
- 3. Click $\overline{\mathbf{s}}$, to delete the selected rows.
- 4. Click $\overline{\mathbb{S}}$, to restore the selected rows.

To permanently delete codesets, follow these steps:

1. Right-click a codeset.





2. Click Delete Codesets.

A warning message appears.

Deleting Codes and Codesets

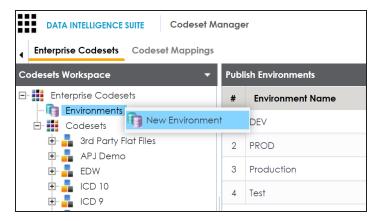
3. Click Yes.

The codeset is deleted.

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.

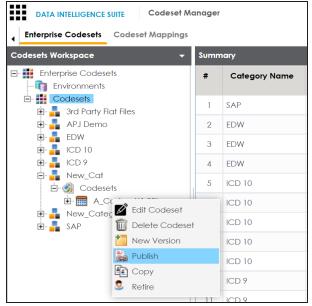
new Environment	_ 🗆 X
	li ×
Environment Name* :	

- 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	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.



Once the source and target codesets are published, you can create code mappings.



You can create code mappings without publishing source or target codesets, but it is recommended that you create code mappings after publishing the codesets.

Maintaining Code Mappings

The Codeset Mappings section in Codeset Manager allows you to define and categorize code mappings. The process is standardized with ability to version and publish code mappings to various environments. Further, these published code mappings can be associated with data item mappings in the Mapping Manager.

Maintaining Code Mapping involves:

- Creating Categories
- Creating code maps
- Versioning codemaps
- Publishing and association codemaps

Creating Categories

Code maps are stored in a hierarchical manner Categories > 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.

		CE SUITE	Codeset Mo	anager
•	Enterprise Codeset	s Code	set Mappings	
C	ode Mappings Work	space	-	
•	Code Mapping		ew Category	Map Name
	EDW ICD Crossw			

3. Click New Category.

The New Category page appears.

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

4. Enter Category Name and Category Description.

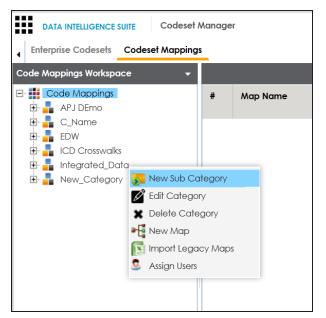
For example:

- 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.

Creating Categories

🚦 New Category		_ 🗆 ×
	li ×	
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.

Once a category is created, you can:

- Creating code crosswalks for mappings
- Verisoning code maps
- Associating code maps with data item mappings

You can also manage it using the options available on the right-clicking category. <u>Managing</u> <u>categories</u> involves:

- Updating categories
- Deleting categories
- Importing legacy maps
- Assigning users

Managing Categories

Managing categories involves:

- Updating categories
- Deleting categories
- Importing legacy maps
- Assigning users

To manage categories, follow these steps:

1. In the **Codesets Mappings** pane, click a category.

The Category Mapping Grid appears.

DATA INTELLIGENCE SUITE Codeset Enterprise Codesets Codeset Mappin		jer				
Code Mappings Workspace 🗸 🗸	Code	eset Mapping Grid				
Code Mappings	#	Map Name	Lock Status	Locked By	Description	Created
i	1	mapl				Administ

2. Right-click a category.

DATA INTELLIGENCE SUITE Codeset A	Manag	er				
Enterprise Codesets Codeset Mappings	5					
Code Mappings Workspace 🗸	Code	eset Mapping Grid				
	#	Map Name	Lock Status	Locked By	Description	Create
🔄 🕢 Map 🦻 New Sub Category		mapl				Adminis
🕀 🌄 Sub t 🗶 Delete Category						
Import Legacy Maps						
S Assign Users						

3. Use the following options:

Edit Category

Use this option to update the category's details.

Delete Category

Use this option to delete a category. Deleting a category also deletes the maps in it.

Import Legacy Maps

Use this option to import old maps to the catalog.

Assign Users

Use this option to assign users to a category based on your organization's projects, departments, functions, and so on.

You can create code crosswalks (mappings) for the source and target codesets in the Codeset Manager. These codesets can have the same or different code values. Using the Auto-Map functionality, you can map source and target codesets with:

- Same code values
- Different code values

Creating Code Crosswalks - Source and Target Codesets with Same Code Value

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 SUITE Codeset	Manager			
Enterprise Codesets Codeset Mapping	S			
Code Mappings Workspace 🔹 👻	Codese	et Mapping Grid		
E- Code Mappings APJ DEmo E- C_Name E- BUW	#	Source Category	Source Codeset	Source Codeset Version
FOW FOR Crosswalks For the state of the stat	itegory			
Edit Category	ſŶ	in DIS	Sales_Codeset	1.00
Delete Cate New Map	gory	in DIS	Sales_Codeset	1.00
Import Lega	cy Maps	in DIS	Sales_Codeset	1.00
Assign Users		in DIS	Sales_Codeset	1.00

2. Click New Map.

New Codeset Map			_ =
			×
Codeset Map Name*			
Codeset Map Version	1.00		
Codeset Map Description			
Source Codeset		Source	
3rd Party Flat Files.Misc Marital Sta 3rd Party Flat Files.Misc Gender C APJ Demo.Gender Codes EDW.Gender EDW.Marital Status EDW.Country Codes		3rd Party Flat Files 3rd Party Flat Files.3rd Party Flat Files A_System A_System.A_Environment AdventureWorks AdventureWorks.AdentureWorks_Staging	•
		Target	
Target Codeset			

3. Enter the 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.

	et Mapping Grid							Codeset Tree >		
pings no	ð					🥖 🝙 🚱 😫	3	CodeSets Grant Files		
a #	Source Category	Source Codeset	Source Codeset Version	Source System/Environment	Source Code Description	Source Code ID	:	APJ Demo APJ Demo Data_Integration G- Odesets		
ted_Map(1.00)	erwin DIS	Sales_Codeset	1.00	Project_System		710]	Integrated_Code I		
2	erwin DIS	Sales_Codeset	1.00	Project_System		711	Je	1 33		
3	erwin DIS	Sales_Codeset	1.00	Project_System		712	к	EDW erwin DIS		
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<			25 rows per				>	Ges_Codeset		
	« Records from		 ICD 10 ICD 9 							
1<										

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

Creating Code Crosswalks - Source and Target Codesets with Dif ferent Code Value

Codesets having different code values can be mapped using the drag and drop method.

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

1. Right-click the category.

DATA INTELLIGENCE SUI	Codeset /	Manager			
Enterprise Codesets	odeset Mapping	S			
Code Mappings Workspace	• •	Codeset	Mapping Grid		
Code Mappings APJ DEmo C_Name EDW ICD Crosswalks		#	Source Category	Source Codeset	Source Codeset Version
Integrated_Datc Integrated_Datc Integrated_Datc	New Sub Cat	tegory			
• Rew_Category	🖉 Edit Categor	У	in DIS	Sales_Codeset	1.00
	🗶 Delete Cateç 🕂 New Map	gory	in DIS	Sales_Codeset	1.00
	S Import Legac	cy Maps	in DIS	Sales_Codeset	1.00
	Assign Users		in DIS	Sales_Codeset	1.00
	Assign Users			Sales_Codeset	1.00

2. Click New Map.

The New Codeset Map page appears.

📲 New Codeset Map			_ 🗆 ×
			X
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	les	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	les 🔺	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 r	mapping occurs	for source and target codes having the same value	es.

3. Enter the 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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DATA INTELLIGENCE SUITE Codeset Enterprise Codesets Codeset Mappin	gs							
Code Mappings Workspace 🔹 👻	Codes	et Mapping Grid						∧ Codeset Tree
E- 🏭 Code Mappings Đ 🎝 APJ DEmo		Z)					🥖 🗟 🚱 😫	CodeSets
EDW ICD Crosswalks	*	Source Category	Source Codeset	Source Codeset Version	Source System/Environment	Source Code Description	Source Code ID	APJ Demo
🖹 💼 Integrated_Data 🖹 🚳 Mappings								E Integrated_C
 Integrated_Map(1.00) Map1(1.00) 	1	erwin DIS	Sales_Codeset	1.00	Project_System		710	A - 1 22 - 33
MopT(1.00) New_Category	2	erwin DIS	Sales_Codeset	1.00	Project_System		711	Ja
	3	erwin DIS	Sales_Codeset	1.00	Project_System		712	K E-B EDW
	4	erwin DIS	Sales_Codeset	1.00	Project_System		713	R Dodesets
	< < CSI	Records from M MapSpec Overview	1 to 4 > ;	25 rows per	baða •			Scies_Codes Scies_Cod
lished Code Mappings		eset Map Name eset Map Version	Inte 1.0	egrated_Map		Ø		Belling New_Cat Belling New_Category Belling SAP

- 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	Manag	ler						Search		९ 🌣 🛛 🖻 🖪		
Enterprise Codesets Codeset Mappings												
Code Mappings Workspace 🗸	Cod	eset Mapping Grid							^	Codeset Tree >		
E- E Code Mappings	2	<u>8</u>					Ø I	2 🖶 🐼 8		E- 🗱 CodeSets 🗄 🍶 3rd Party Flat Files		
E C_Name EDW ICD 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								
 Mappings Integrated_Map(1.00) 		4								🗄 🔒 EDW 🕀 🍶 erwin DIS		
Hap1(1.00)		2								CD 10 ICD 9		
E		3								🕀 📕 N_Cat		
	<								>	Br Brwy,Cat Br Brwy,Category Br Br SAP		
	•	SM MapSpec Overview					Ø		•			
	Co	deset Map Name	Inte	grated_Map								
Published Code Mappings	Co	deset Map Version	1.00						~	<		

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 a.

Extend Mapping Grid

To extend the Codeset Mapping Grid, click

Once the code map is created, you can:

- Edit Code Mappings
- Create new version of the code map
- Publish and associate the code map with data item mappings

Editing Code Mappings

You can update source codesets and target codesets in the Codeset Mapping Grid.

To update source codesets, follow these steps:

- 1. Go to Application Menu > Data Catalog > Codeset Manager > Codeset Mappings.
- 2. In the **Code Mappings Workspace** pane, expand a category and click a codemap.

The Codeset Mapping Grid and CSMMapSpec Overview pane appears.

DATA INTELLIGENCE SUITE Codeset	Manage	r					Search		۹	¢ 0) ()	
Enterprise Codesets Codeset Mapping												•
Code Mappings Workspace 👻	Codes	et Mapping Grid						^	Codeset Tree			>
E- E Code Mappings	2	ZÔ.					🥥 🝙 🌮 :	2	Code		t Files	
C_Name B LEDW E LCD Crosswalks	*	Source Category	Source Codeset	Source Codeset Version	Source System/Environment	Source Code Description	Source Code ID	s	E Do	'J Demo ata_Integro W		
E- 📲 Integrated_Data E- 🥘 Mappings								[🕂 🔒 en 🗄 🚦 ICI	D 10		
Integrated_Map(1.00) Map1(1.00)	1	erwin DIS	Sales_Codeset	1.00	Project_System		710	Ac)9 C-1		
New_Category	2	erwin DIS	Sales_Codeset	1.00	Project_System		711	Jo	E IN			
_	3	erwin DIS	Sales_Codeset	1.00	Project_System		712	Kc	⊡-∎ Ne ⊡-∎ SA	w_Categ	ory	
	4	erwin DIS	Sales_Codeset	1.00	Project_System		713	Re	E -			
Fublished Code Mappings	Code	Records from MapSpec Overview eset Map Name eset Map Version eset Map Description	Int.		page •	values.		>				

3. In **CSM Mapping Overview** pane, click **2**.

You can update Codeset Map Name and Codeset Map Description.



You cannot edit Codeset Map Version.

- 4. Select a new Source Codeset and Source System/Environment.
- 5. Select a Target Codeset and Target System/Environment.
- 6. Click 💾.

Editing Code Mappings

The Codeset Mapping Grid is updated with the new source codeset. But, the target codeset doesn't update in the Codeset Mapping Grid. You need to drag and drop target codeset from the Codeset Tree to Codeset Mapping Grid.

DATA INTELLIGENCE SUITE Codese	t Manager						Search	١	Q	\$) 🛛	
Enterprise Codesets Codeset Mappin	gs											•
Code Mappings Workspace 🗸	Codeset Mapp	ing Grid						^	Codeset	ree		>
E- E Code Mappings	2						9	a) 🐼 😫	⊡ ∰ C	odeSets 3rd Party Flo	at Files	
C_Name EDW CO Crosswalks	urce Code ID	Source Code Name	Source Code Value	Target Code Value	Target Code Name	Target Code ID	Target Code Descriptio	Target System/Envire	Đ 🔒	APJ Demo Data_Integr		
Integrated_Data										erwin DIS ICD 10		
Integrated_Map(1.00) Map1(1.00)		Admin	1						Đ 🔒	ICD 9 N_Cat		
		Joe Villers	4						Đ 🔒	New_Cat		
		Kartik Sridhar	2							New_Categ SAP	jory	
		Resource_Name	3									
	<							>				
	< <	Records from 1 to 4	> >I 25 row	s hei baße 🔹								
	CSM MapS	pec Overview						,				
						<i>D</i> ²		^				
	Codeset Ma	o Name	Integrated_Map			~						
	Codeset Ma	p Version	1.00									
	Codeset Ma	p Description	Code map when s	ource and taraet h	ave different code value	8 5.						
Published Code Mappings								~				

To update target codeset in the Codeset Mapping Grid, follow these steps:

1. In the Codeset Mapping Grid, click 🜌 .

The Codeset is locked and other users cannot make changes.

- 2. In the Codeset Tree, expand the target category and the **Codesets** node.
- 3. Drag and drop the target codeset into the Code Set Mapping Grid under the Target Code Value column.
- 4. Click 💾.

The target codeset is updated in the Codeset Mapping Grid.

To update target code values in the Codeset Mapping Grid, follow these steps:

Editing Code Mappings

- 1. In the Codeset Mapping Grid, click 2.
- 2. Double-click a cell under the Target Code Value column and update it with the one of the options available.

DATA INTELLIGENCE SUITE Codeset							Search		Q 🌣 🛛 🖻	8
Code Mappings Workspace	Codeset Mapping Grid							^	Codeset Tree	•
E 🗱 Code Mappings	2 👔					ŝ	é 🗟 🖶 🍪 🕏		CodeSets Srd Party Flat Files	
C_Name C_	Source Code Name	Source Code Value	Target Code Value	Target Code Name	Target Code ID	Target Code Descriptio	Target System/Environment	Targe		
🖨 📕 Integrated_Data	Admin	1	Ц	Admin	714		Project_System	Integr	E m Integrated_Co	odese
Mappings Integrated_Map(1.00)	Joe Villers	4	11 (Integrated_Co 44 (Integrated_Co		716		Project_System	Integr	🚺 11 🚺 22	
Map1(1.00)	Kartik Sridhar	2	22 (Integrated_Co 33 (Integrated_Co	Posourco Namo	717		Project_System	Integr	- 1 33	
E	Resource_Name	3	Clear Target	Joe Villers	715		Project_System	Integr		
	CSM MapSpec Oven	_	grated_Map		_	Ď	ì	>	Codesets	
	Codeset Map Version	1.0)						🗄 🝶 New_Category 🗄 🝶 SAP	
Published Code Mappings	Codeset Map Descript	ion Cor	de map when source	and target have diffe	rent code values.			~	<	>

3. Click

The target code values are updated.

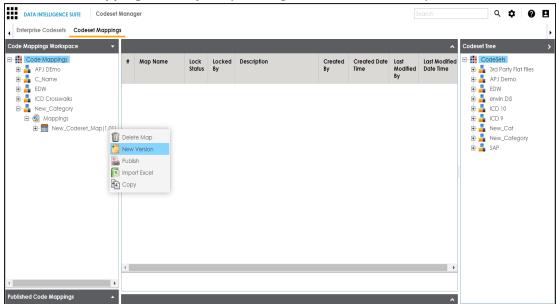
Versioning Code Mappings

You can create versions of code mappings and track legacy of a code map.

The new version is available in the Code Mappings Workspace under the Mappings tree.

To create new versions of code mappings, follow these steps:

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



- 3. Click New Version.
- 4. The New Codeset Map Version page appears.

Versioning Code Mappings

🎽 New Codeset Map Version		_ 🗆 ×
Codeset Map Name*	New_Codeset_Map	
Codeset Map Version	1.02	
Codeset Map Description		
Map Version Label		
Map Changed Description*		

5. 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 codeset map.
Name	For example, Gender Crosswalk.
Codeset Map	Specifies the new version of the codeset map.
Version	For example, 1.02.
Codeset Map	Specifies the description about the codeset map.
Description	For 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 codeset map.
Label	For example, Beta.

6. Click

The new version is created and saved in the Mappings tree while the older version is archived.

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.

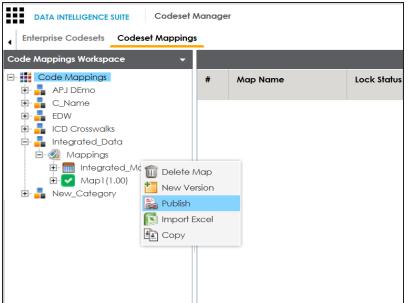
Before associating a code map with data item mappings, ensure that you publish the code map.

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	_ = ×
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 Environmen t *	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 descriptions.

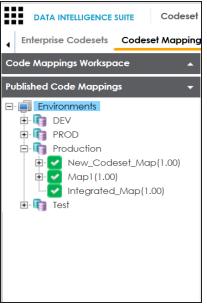
Field Name	Description
Codeset Map	Specifies the name of the code map.
Name	For example, Gender Crosswalk.
Codeset Map	Specifies the new version of the code map.
Version	For example, 1.02.
Codeset Map	Specifies the description about the code map.
Description	For example: The codeset map is the code mappings 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.
Dublich Frank	Specifies the environment where the code map is being published.
Publish Envir- onment	For example, test.
Uninent	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 Catalogue.

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.

The Mapping Specification grid appears.

orkspace Mappings 🔹 🔻		Mapping Specific	ation Grap	hical Designer	Test Specification	Workflow Lo	og		
Mappings ^		I 🔯 🔳 🍣 (E	rwin_Map]			Profiles: Defau	t 🗖	🔅 🐧 👫 🗟 <	2
 Projects Data Lake Migration (3) EDW (3) 	#	Source System Name	Source Environment Name	Source Table Name	Source Column Name	Source Column Data Type	Source Column Length	Business Rule	
 ERP (2) Erwin_Project (4) Transformations 	1	A_System	A_Environment	dbo.CAT_DIALOG	CAT_DIALOG_TAB	int	5	TRUNC	
 Test Cases Mappings Envin Map Mapping Envin Map 	2	erwinDIS	Data_Migration	dbo.ADS_ASSOCI.	ID	bigint	80	TRUNC	
 MappingTargets Mathie Archive K_New_Mapping Trial_Map 	3	erwinDIS	Data_Migration	dbo.ADS_ASSOCI.	SOURCE_OBJECT_	bigint	8	ABS	
Frwin_Subject (1)	4	A_System	A_Environment	dbo.CAT_DIALOG	CAT_DIALOG_PRO	int	4		

3. Click 🜌.

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

_ ١	Mapping Specifica	ation Graph	nical Designer	Test Specifi	cation Workflow Log	g		+
20	🗉 🔯 🔳 🍣 (Er	win_Map]			Profiles: Default		- \$ 14 14 14	2
#	Source System Name	Source Environment Name	Source Table Name	Source Co Name	Iumn Source Column Data Type	Source Column Lenath	Business Rule	
1	A_System	A_Environment	dbo.CAT_DIALOG		□ Target Column Alias □ Target Business Key Flag □ CSM Mapping	g	TRUNC	^
2	erwinDIS	Data_Migration	dbo.ADS_ASSOCI,	ID	Specification Artifacts Lookup Reference Colum Lookup On	nn 🗸	TRUNC	
3	erwinDIS	Data_Migration	dbo.ADS_ASSOCI	SOURCE_OF	3JECT_ bigint	8	ABS	

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 Catalogue**.
- Drag the code map into the Mapping Specification grid and drop it under the CSM Mapping column for the required row.

Mapping	g Specification	Graphical Desi	igner Test Spe	cification W	orkflow Log	•	Metadata Catalogue 🔍
🔏 🚍 🛃 🛛	APPEND 077 🐯	[Erwin_Map]	Profiles:	Default	- Ô	🔌 👯 🗟 🖬 💀 😣 < 🗵	Code Mappings Catalogue
arget Column	Created By	Created Date	CSM Mapping	Last Modified By	Last Modified Date Time	Reference Table	 Code Mappings C_Name
.ength		2019-10-21 14:36	6:15.057		Date time		▶ 📕 EDW
	Administrator	2019-10-21 14:36:15.057	Integrated_Map(1	00) ^{hinistrator}	2019-12-10 14:49:07.187	^	 ICD Crosswalks Integrated_Data Mappings
	Administrator	2019-10-21 14:36:15.057		Administrator	2019-12-10 14:49:07.187		Map1(1.00)

8. Click 🐻.

The code map is associated with the data item mappings.