



erwin Data Intelligence

AIMatch Guide

Release v12.1

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AIMatch

The AIMatch engine automatically finds and suggests the best possible table and column matches scores for business terms. These suggestions are scored based on their relevancy against business terms. Based on the match scores, you can then select and associate tables and columns with business terms.

To access AIMatch, go to **Application Menu > Data Literacy > AIMatch**.

The AIMatch page appears. By default, the Configuration tab opens.

AIMatch

CONFIGURATION AUTOMATED COLUMN MATCHES AUTOMATED TABLE MATCHES

Next Schedule Starts In

0 DAYS

11 HOURS

40 MINUTES

38 SECONDS

Job name
Auto Match Business Term-Technical Metadata

Schedule Job On
11-10-2020 17:14

Local Server

Last Executed DateTime
11-22-2020 17:14

Next Schedule DateTime
11-23-2020 17:14

Interval
Every Day

AIMatch Threshold 64 to 100 (%)

Send Email

[Update](#) [Delete](#)

Using the AIMatch engine involves:

AIMatch

1. [Associating metadata for AI matching](#)
2. [Configuring AIMatch job](#)
3. Associating [table](#) and [column](#) matches

Associating Metadata for AI Matching

Before scheduling an AIMatch job, you need to associate metadata to any business asset catalogs in the Business Glossary Manager. When the AIMatch job runs, the AIMatch engine finds matches between the associated metadata and business assets in the catalogs. You can also configure the AIMatch for Sensitive Data Detection.

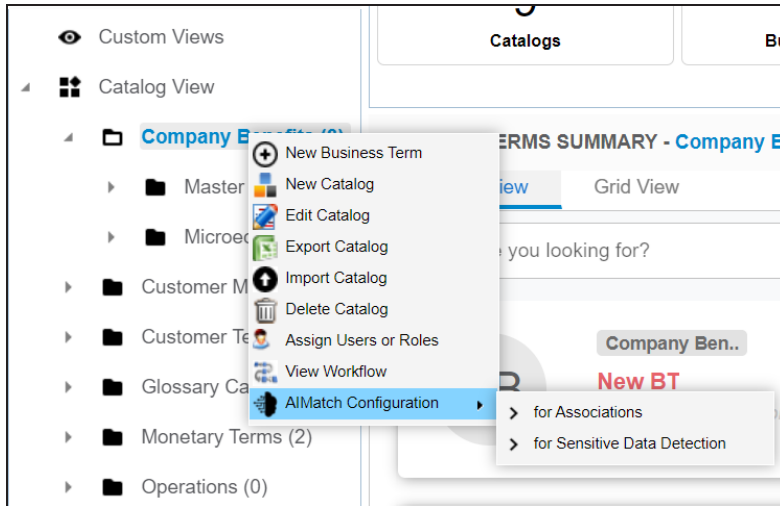
To associate metadata for AI match, follow these steps:

1. Go to **Application Menu > Data Literacy > Business Glossary Manager > Explore**.

By default, the business terms view is displayed in the Asset Workspace pane.

2. In the **Asset Workspace** pane, right-click a catalog.

The options available for the catalog appear.



3. Hover over the **AIMatch Configuration** to click either of the following option:

- **for Associations**

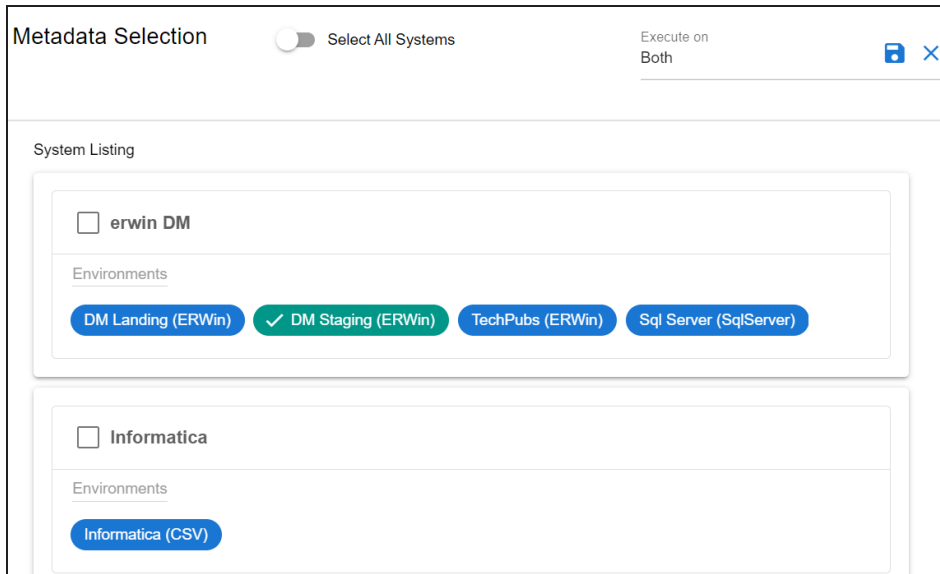
Click this option to find matches between associated metadata and business terms.

- **for Sensitive Data Detection**

Click this option to detect sensitive data for associations.

Associating Metadata for AI Matching

The Metadata Selection page appears. It displays a list of systems available in your erwin Data Intelligence (erwin DI) ecosystem.



1. Under **System Listing**, select the required systems and environments.
2. From the **Execute on** option, select one of the following options:
 - **Both:**
Use this option to use both, table and column names under the selected systems and environments to find matches.
 - **Table Name:**
Use this option to use table names under the selected systems and environments to find matches.
 - **Column Name:**
Use this option to use column names under the selected systems and environments to find matches.



You can execute only the Column Name option to configure AIMatch job **for Sensitive Data Detection**.

3. Click .

Associating Metadata for AI Matching

The selected metadata is associated with the catalog.

Once metadata is associated with catalogs, you can schedule an AIMatch job to find matches between the associated metadata and business terms in the catalogs. For more information on scheduling AIMatch job, refer to the [Configuring AIMatch Job](#) topic.

Configuring AIMatch Job

After associating metadata to business term catalogs, you can schedule an AIMatch job to find matches between the associated metadata and business terms. The job also scores the matches based on their relevancy.

To schedule AIMatch job, follow these steps:

1. Go to **Application Menu > Data Literacy > AIMatch**.

The AIMatch page appears. By default, the Configuration tab opens.

Configuring AIMatch Job

CONFIGURATION
AUTOMATED COLUMN MATCHES
AUTOMATED TABLE MATCHES

Next Schedule Starts In

0

DAYS

11

HOURS

40

MINUTES

38

SECONDS

Job name
 Auto Match Business Term-Technical Metadata

Schedule Job On
 11-10-2020 17:14

Local Server

Last Executed DateTime
 11-22-2020 17:14

Next Schedule DateTime
 11-23-2020 17:14

Interval
 Every Day ▼

AllMatch Threshold 64 to 100 (%)

Send Email




Update

Delete

2. Enter or select appropriate values in the fields. Refer to the following table for field descriptions.

Field Name	Description
Job Name	Specifies the job name. For example, Auto Match Business Term-Technical Metadata. This field autopopulates with a job name and cannot be edited.

Configuring AIMatch Job

Field Name	Description
Schedule Job On	Set the date and time of the job using  and  . For example, 03-24-2020 11:45.
Local or Server	Select whether the job uses local or server time. <ul style="list-style-type: none"> Local: Refers to your local machine. Server: Refers to the machine where your application is deployed.
Last Executed Date Time	Specifies the date and time when the job was run last. For example, 06-15-2020 09:13
Next Scheduled Date Time	Specifies the date and time when the job will run next. For example, 06-16-2020 09:13
Interval	Specifies the frequency of the job. You can run the AIMatch job daily, weekly, or monthly.
AIMatch Threshold	Adjust the AIMatch Threshold slider to select a percentage match range for AIMatch job.
Send Email	Switch Send Email on () to enable email notifications about the job. Email Id: It is autopopulated with your email ID. CC Email Id(s): Enter email IDs that should receive email notifications about the job. For example, talon.smith@mauris.edu.

3. Click **Update**.

The job is scheduled and is executed at the scheduled date and time. The resultant matches for tables and columns are available on the Automated Table Matches and Automated Column Matches tabs.

You can select and associate tables and columns with business terms based on the match scores, and classify relevant data sensitive based on your requirements.

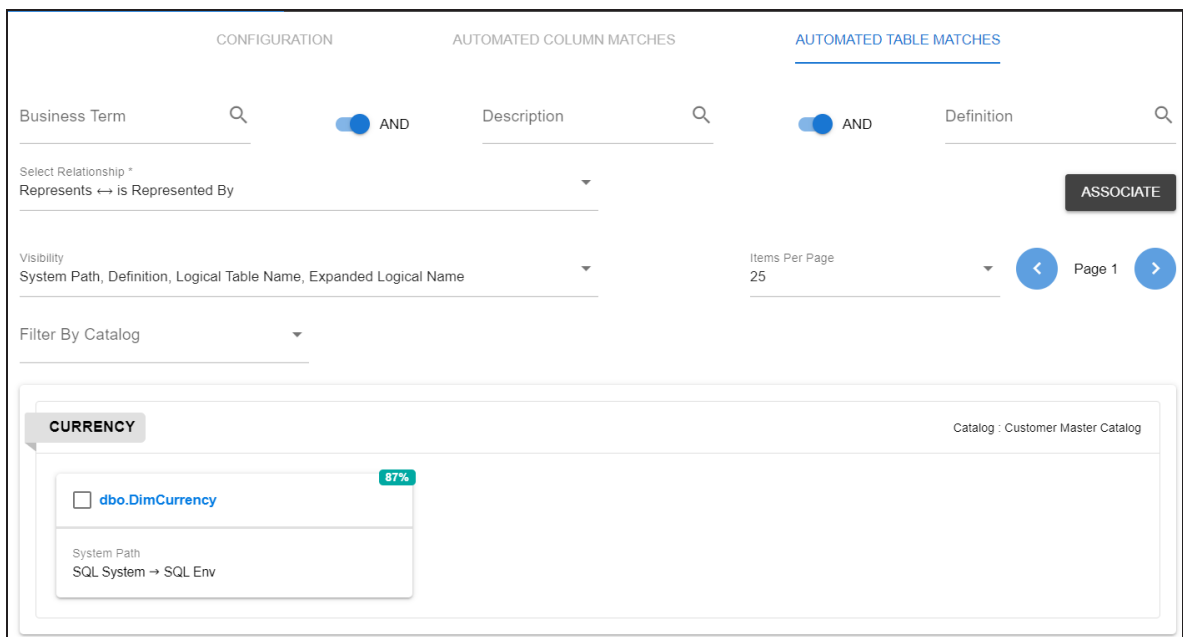
Associating Table Matches

After the AIMatch job runs, the resultant matches for tables are available on the Automated Table Matches tab in a card format. Each match card displays a match score in percentage based on the relevancy between tables and business terms.

To associate tables with business terms using the automated table matches, follow these steps:

1. Go to **Application Menu > Data Literacy > AIMatch > Automated Table Matches** tab.

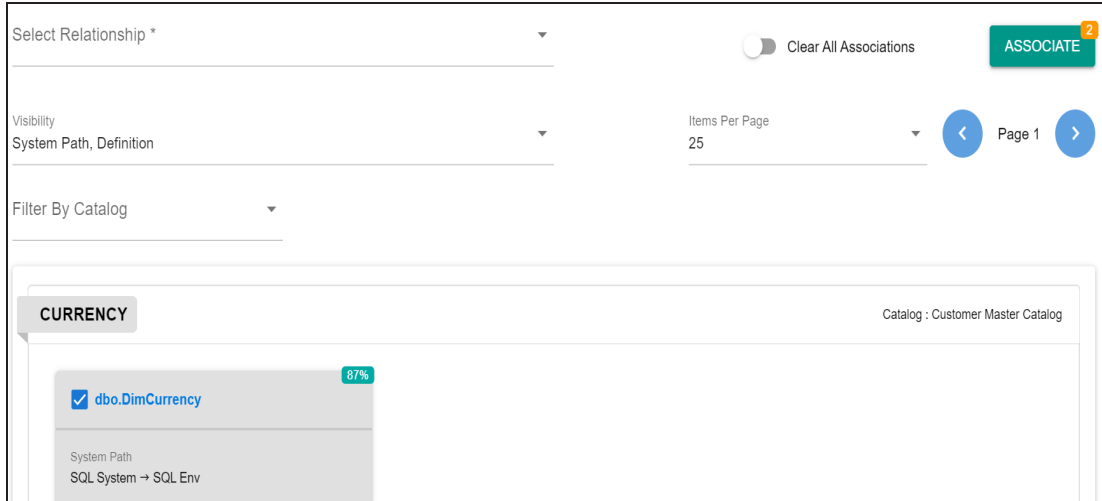
Table matches with their match score in percentage appear in a card format.



2. Select the required table matches.

This enables the Select Relationship list and the Association button.

Associating Table Matches



3. From the **Select Relationship** list, select the relationship between tables and business terms.
4. Click **Associate**.

The selected tables are associated with the business terms.

You can also refine the available matches using the filters and visibility options.

Filter

You can filter the table match cards based on AND or OR combinations of Business Term, Description, and Definition. You can also filter the table match cards based on Catalog.

Visibility

You can control the visibility of information on the table match cards.

To control the visibility of information on table match cards, use the drop down options under **Visibility**.

For example, in the following image, it is opted to view System Path and Definition on the table match cards.

Associating Table Matches

Business Term AND Data Steward AND

Visibility
System Path, Definition

System Path	<input checked="" type="checkbox"/>
Logical Table Name	<input type="checkbox"/>
Expanded Logical Name	<input type="checkbox"/>
Definition	<input checked="" type="checkbox"/>

Associating Column Matches

After the AIMatch job runs, the resultant matches for the columns are available on the Automated Column Matches tab in a card format. Each match card displays a match score in percentage based on the relevancy between columns and business assets.

To associate columns with business assets using the automated column matches, follow these steps:

1. Go to **Application Menu > Data Literacy > AIMatch > Automated Column Matches** tab.

The configuration page appears.

Make your selection to proceed ✕

Step 1 Step 2

Select Asset Type * ▼

Select the Asset Type that you want to begin with to find associations and/or detect sensitive data

Filter By Catalog ▼

Select a Catalog if you wish to view a subset of results

Find Match On

Physical Name Column Comments

Logical Name Column Definition

Visualization Threshold 50 to 100 (%)

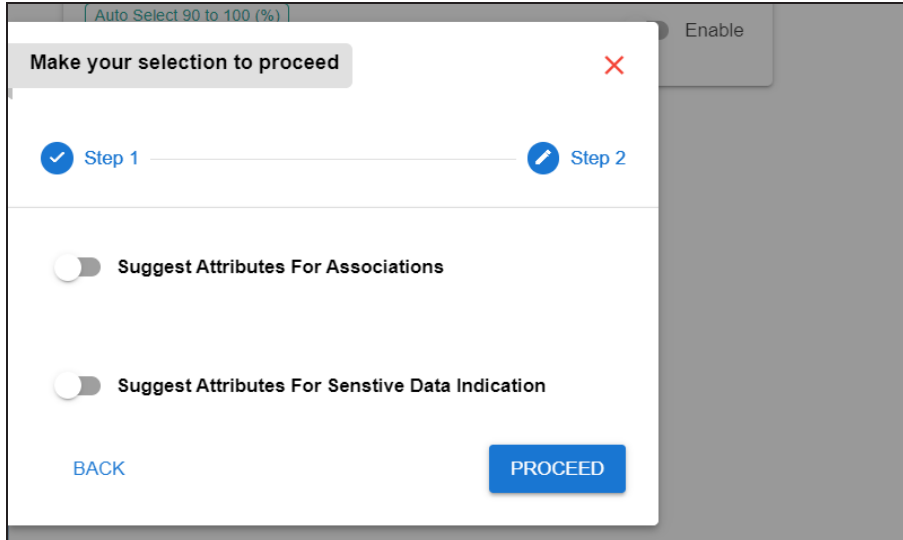
CONTINUE

2. Under **Step 1** page, select an asset type, a filter category and find match option.

Associating Column Matches

3. Click **Continue**.

The step 2 for configuration appears.



4. Under **Step 2**, use the following options:

- **Suggest Attributes For Association**
Switch this option on to select a relationship from the **Select Relationship** drop-down list.
- **Suggest Attributes For Sensitive Data Indication**
Switch this option on to enable the following options:
 - **Sensitive Data Classification:**
Select a sensitivity classification from the drop-down list.
 - **Sensitive Data Classification Description:**
This field displays the description of the selected classification type.
 - **Also propagate classification to:**
Enable the relevant objects to apply a sensitivity classification for business terms, systems, environments, and tables.



You can use one of the **Suggest Attributes For Association** and **Suggest Attributes For Sensitive Data Indication** options or use both.

Associating Column Matches

For example, see the following image, where the **Suggest Attributes For Association** and **Suggest Attributes For Sensitive Data Indication** options are enabled.

Make your selection to proceed

Step 1 Step 2

Suggest Attributes For Associations

Select Relationship *
Represents ↔ is Represented By

Suggest Attributes For Sensitive Data Indication

Sensitive Data Classification
PHI

Sensitive Data Classification Description
Protected Health Information

Also propagate classification to :

Business Terms System Environment Table

BACK PROCEED

5. Click **Proceed**.

Based on the configuration, column matches are displayed in the card format along with their match score percentage in a card format.



Once the column matches are displayed, you can click the **Settings** option to re-configure the suggested attributes for associations and sensitive data classification.

Associating Column Matches

6. Select the required column matches.

Selecting columns enables the Associate and Classify Attributes button.



You can also refine the matches using the [search criteria](#), [visibility setting](#), and [filter matches based on percentage](#) options.

The screenshot displays the 'Automated Column Matches' configuration page. At the top, there are tabs for 'CONFIGURATION', 'AUTOMATED COLUMN MATCHES', and 'AUTOMATED TABLE MATCHES'. Below the tabs, there are buttons for 'SETTINGS', 'SEARCH CRITERIA', and 'VISIBILITY'. A slider for 'Auto Select 90 to 100 (%)' is set to 92%, with an 'Enable' checkbox. Below this, there are buttons for 'Selected Asset Type' (Business Terms), 'Selected Category' (Customer Master Catalog), 'Selected Action' (Associate and Classify Attributes), 'Relationship' (Represents ↔ is Represented By), and 'Classification' (PII). The main section shows a list of matches for the 'CUSTOMER' category, with a count of 6. The matches are: CustomerID (92%), CustomerID (92%), CustomerDesc (88.89%), and CustomerName (88.89%). Each match includes its metadata path and data type.

Match	Percentage	Metadata Path	Data Type
CustomerID	92%	SQLTechPubs → SQLTechPubs → dbo Orders	nchar
CustomerID	92%	SQLTechPubs → SQLTechPubs → dbo Quarterly Orders	nchar
CustomerDesc	88.89%	SQLTechPubs → SQLTechPubs → dbo CustomerDemo graphics	ntext
CustomerName	88.89%	SQLTechPubs → SQLTechPubs → dbo Invoices	nvarchar

7. Click one of the following options:

- **Associate Attributes:**

Use this option to associate the selected columns with business assets. This option appears if you enable the Suggest Attributes For Association option during column match configuration.

- **Classify Attributes:**

Use this option to classify the selected columns as sensitive. This option appears if you enable the Suggest Attributes For Sensitive Data Indication option during column match configuration.

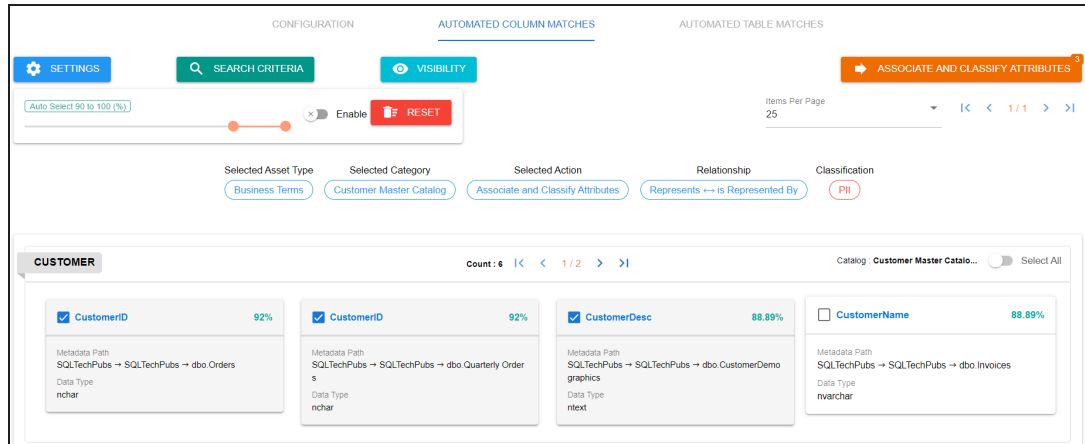
- **Associate And Classify Attributes:**

Use this option to associate the selected columns with business assets and classify the selected columns as sensitive. This option appears if you enable the Suggest Attributes For Association and Suggest Attributes For Sensitive Data Indication options during column match configuration.

For example, the following image displays the Associate And Classify Attribute

Associating Column Matches

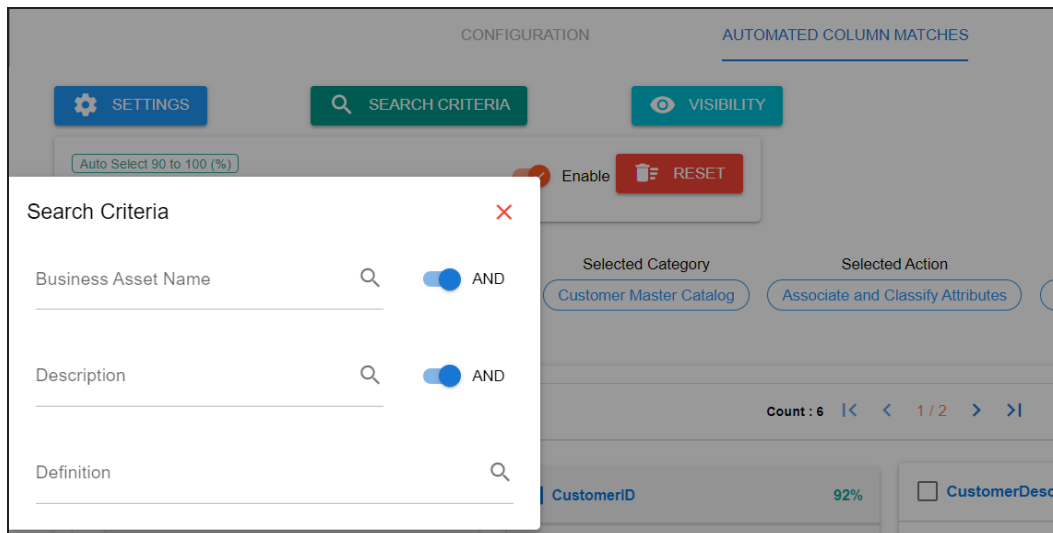
option.



Search Criteria

You can filter the column matches based on AND or OR combinations of Business Asset Name and Description. You can also filter the column matches based on Definitions.

To filter column matches, click **Search Criteria** and configure the required options.



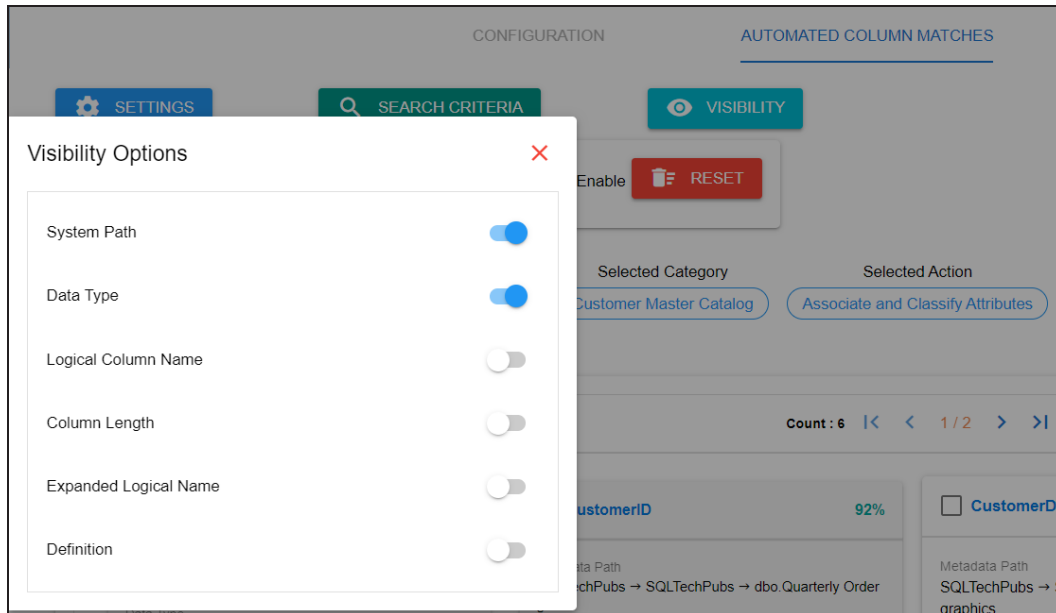
Visibility

You can customize the information displayed on the column match cards.

Associating Column Matches

To set visibility on column match cards, click **Visibility**. Then, switch ON the required objects to view their information on the Automated Column Matches tab.

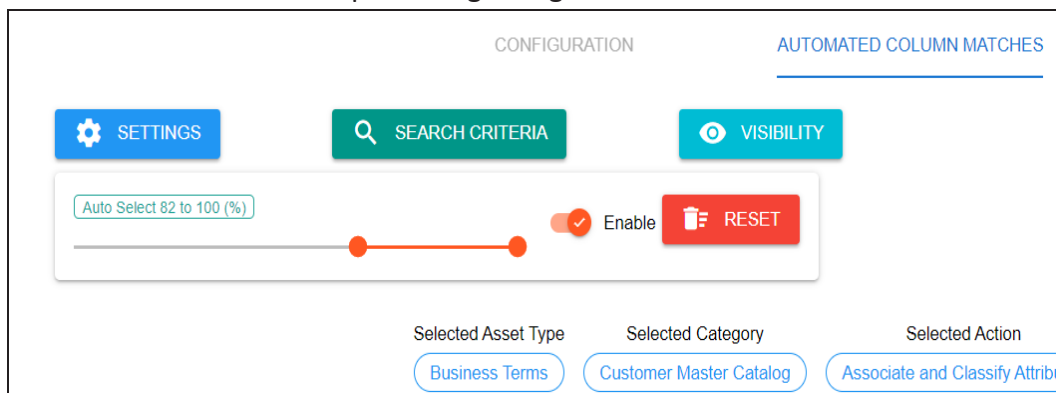
For example, in the following image, System Path and Data Type are switched on to be visible on the column match cards.



Filter based on Match Percentage

You can filter the column matches based on a match percentage range.

To filter matches based on percentage, switch on the **Enable** option. Then, drag to adjust the slider and set a match percentage range.



Associating Column Matches

You can click **Reset** to reset your column selections and search criteria settings.