



Informatica® Data Validation
July 2025

Introducing Data Validation

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Preface

Read *Introducing Data Validation* to learn how to use Data Validation to verify the accuracy and completeness of data integration operations by comparing two data sets.

Informatica Resources

Informatica provides you with a range of product resources through the Informatica Network and other online portals. Use the resources to get the most from your Informatica products and solutions and to learn from other Informatica users and subject matter experts.

Informatica Documentation

Use the Informatica Documentation Portal to explore an extensive library of documentation for current and recent product releases. To explore the Documentation Portal, visit <https://docs.informatica.com>.

If you have questions, comments, or ideas about the product documentation, contact the Informatica Documentation team at infa_documentation@informatica.com.

Informatica Intelligent Cloud Services web site

You can access the Informatica Intelligent Cloud Services web site at <http://www.informatica.com/cloud>. This site contains information about Informatica Cloud integration services.

Informatica Intelligent Cloud Services Communities

Use the Informatica Intelligent Cloud Services Community to discuss and resolve technical issues. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Intelligent Cloud Services Community at:

<https://network.informatica.com/community/informatica-network/products/cloud-integration>

Developers can learn more and share tips at the Cloud Developer community:

<https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-developers>

Informatica Intelligent Cloud Services Marketplace

Visit the Informatica Marketplace to try and buy Data Integration Connectors, templates, and mapplets:

<https://marketplace.informatica.com/>

Data Integration connector documentation

You can access documentation for Data Integration Connectors at the Documentation Portal. To explore the Documentation Portal, visit <https://docs.informatica.com>.

Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit <https://search.informatica.com>. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Intelligent Cloud Services Trust Center

The Informatica Intelligent Cloud Services Trust Center provides information about Informatica security policies and real-time system availability.

You can access the trust center at <https://www.informatica.com/trust-center.html>.

Subscribe to the Informatica Intelligent Cloud Services Trust Center to receive upgrade, maintenance, and incident notifications. The [Informatica Intelligent Cloud Services Status](#) page displays the production status of all the Informatica cloud products. All maintenance updates are posted to this page, and during an outage, it will have the most current information. To ensure you are notified of updates and outages, you can subscribe to receive updates for a single component or all Informatica Intelligent Cloud Services components. Subscribing to all components is the best way to be certain you never miss an update.

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Informatica Global Customer Support

You can contact a Global Support Center through the Informatica Network or by telephone.

To find online support resources on the Informatica Network, click **Contact Support** in the Informatica Intelligent Cloud Services Help menu to go to the **Cloud Support** page. The **Cloud Support** page includes system status information and community discussions. Log in to Informatica Network and click **Need Help** to find additional resources and to contact Informatica Global Customer Support through email.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at <https://www.informatica.com/services-and-training/support-services/contact-us.html>.

CHAPTER 1

Introducing Data Validation

Data Validation is a service in Informatica Intelligent Cloud Services™ that you can use to compare two data sets. You can use Data Validation to verify the accuracy and completeness of data integration operations by comparing and validating the source and target data.

Create Data Validation test cases to compare the data sets. Use the reports of the test cases to view whether there is unmatched, missing, or extra data between the data sets.

You must have the following licenses to successfully run Data Validation test cases:

- Cloud Data Validation
- DVProcessor
- Joiner transformation
- Aggregator transformation
- Sequence Generator transformation
- Union transformation

Data Validation supports the Google Chrome and Microsoft Edge browsers. However, Informatica recommends that you use the Google Chrome browser for better performance.

Data Validation doesn't support sub-organizations, so you can't use Data Validation in a sub-organization.

Data Validation process

Use Data Validation to compare two data sets.

After you determine the validation requirements, create and run a test case and view test results and reports.

A test case report shows the status of the test case, the overall column matching status, and matching status of each column that the test compares. For unsuccessful tests, the report provides information about missing, unmatched, and extra records. If there are mismatches, use the information in the report to correct the data, and then run the test again. Repeat the process as required until test results are successful.

Note: A data validation test can validate data and identify inconsistencies in data, but it can't identify the source of the inconsistencies.

Data Validation test cases

Data Validation test cases are assets that you create to analyze and compare two data sets. They test the accuracy and validity of the data by comparing the data sets.

When you create a test case, you select the connections that contain the data to compare, the data sources and the columns to compare, and configure test parameters. The data sources can be database tables, views, or saved SQL queries. Data Validation maps the columns in the source to the columns in the target.

Data Integration creates a job each time the test case runs. You can monitor the jobs in Data Integration. You can also monitor the latest status of multiple test cases with test suite reports in Data Validation.

Data Integration mapping tasks

Data Validation uses Data Integration mapping tasks to compare two data sets.

When you run a test case, Data Validation creates Data Integration mappings and tasks that map and process the data you compare. By default, Data Validation deletes the mappings and tasks after the test case runs. You can choose to save and use the Data Integration mappings and tasks for debugging purposes when you create a test case.

Test case connections

When you create a test case in Data Validation, you select the connections to the data sources that contain the data to compare. The connections are created in Administrator.

You can use the following types of connections with Data Validation:

- Amazon Redshift v2
- Amazon S3 v2
- Databricks Delta
- Flat file
- Google BigQuery V2
- Microsoft Azure Data Lake Storage Gen2
- Microsoft Azure Synapse SQL
- MySQL
- Netezza
- ODBC connections with the DB2 subtype
- Oracle
- PostgreSQL
- Salesforce
- SAP HANA
- Snowflake Data Cloud

- SQL Server
- Teradata

Amazon Redshift v2 connection

When you select an Amazon Redshift v2 connection in the test case wizard, you must enter a valid path and a valid S3 bucket name for staging the data.

For more information about configuring an Amazon Redshift v2 connection, see the Data Integration help.

Amazon S3 v2 connection

You can create test cases for flat files and Parquet files within an Amazon S3 v2 connection. When you select an Amazon S3 v2 connection in the test case wizard, you can enter a relative path where the flat file is stored or the relative path to the S3 bucket where the Parquet file is stored. If you do not enter a path, Data Validation lists all the files in the folder path specified in the connection.

For more information about configuring an Amazon S3 v2 connection, see the Data Integration help.

Databricks Delta connection

You can create test cases for Databricks Delta objects deployed in Azure and AWS environments.

Before you use a Databricks Delta connection, ensure that you have specified the database name in the Databricks Delta connection in Administrator.

Google BigQuery V2 connection

When you select a Google BigQuery V2 connection in the test case wizard, you can enter a schema name to get a list of objects.

For more information about configuring a Google BigQuery V2 connection, see the Data Integration help.

Microsoft Azure Data Lake Storage Gen2

You can create test cases for files of the following formats within a Microsoft Azure Data Lake Storage Gen2 connection:

- Avro
- CSV flat file
- JSON
- ORC
- Parquet

When you select a Microsoft Azure Data Lake Storage Gen2 connection in the test case wizard, you can enter a relative path to the folder where the file is stored. If you do not enter a path, Data Validation lists all the files in the folder path specified in the connection.

You can't create test cases for hierarchical objects within a Microsoft Azure Data Lake Storage Gen2 connection.

For more information about configuring a Microsoft Azure Data Lake Storage Gen2 connection, see the Data Integration help.

Microsoft Azure Synapse SQL connection

Before you use a Microsoft Azure Synapse SQL connection in Data Validation, in Administrator, enter the Azure DW Schema Name in the following format:

```
<schema name>
```

For more information about configuring a Microsoft Azure Synapse SQL connection, see the Data Integration help.

ODBC connections with the DB2 subtype

You can create test cases for DB2 tables and views using an ODBC connection with the DB2 subtype.

For more information about configuring an ODBC connection with the DB2 subtype, see the Data Integration help.

Snowflake Data Cloud connection

Before you use a Snowflake Data Cloud connection in Data Validation, in Administrator, enter the additional JDBC URL connection parameters in the following format:

```
db=<DATABASE NAME>&schema=<SCHEMA NAME>
```

For more information about configuring a Snowflake Data Cloud connection, see the Data Integration help.

Note: If you use a Microsoft Azure Data Lake Storage Gen2 connection or a Snowflake Data Cloud connection, the Secure Agent must have at least 2048 MB of Java heap size to run test cases. Otherwise, you might face an error. For more information, see the Informatica Knowledge Base article [000167312](#).

Data Validation test suites

Data Validation test suites are assets that you create to generate reports of multiple test cases simultaneously.

When you create a test suite, you select the test cases for the suite. Then, you generate a test suite report that displays a report for each successful job.

Test case monitoring

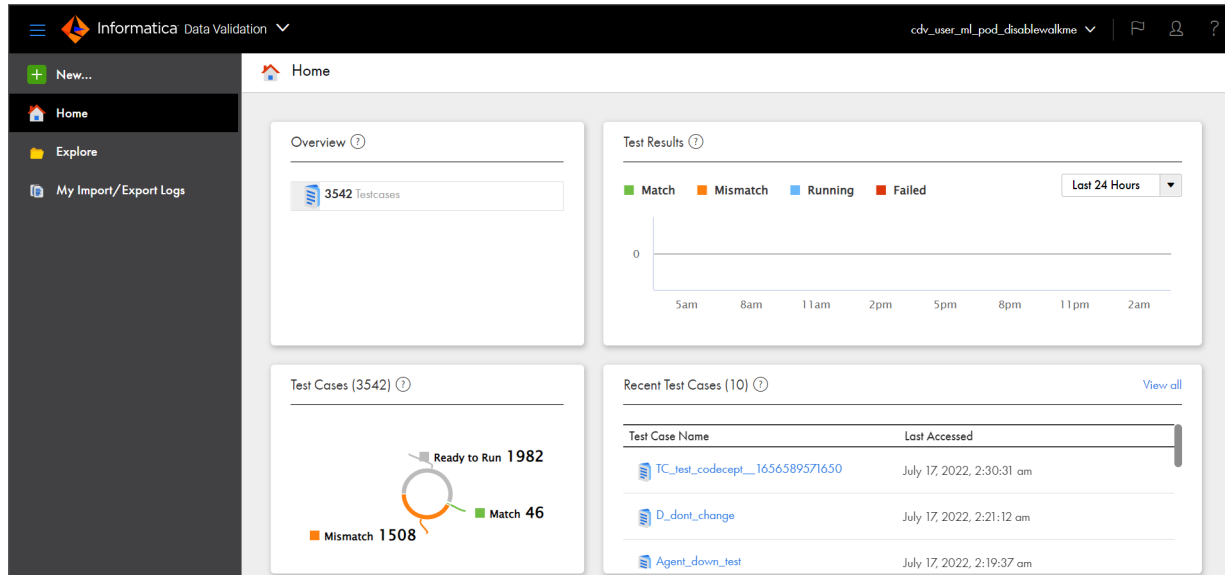
Monitor test cases by viewing test case details, connections, and sources. Monitor test case jobs by viewing job reports. Monitor multiple test case jobs simultaneously by viewing test suite reports. You can learn about the reasons for job failures by viewing logs of test results and error messages in Data Integration or in Monitor.

Reports show detailed mapping results for each successful job run. Use the results to learn where data is mismatched between the source and target.

Home page

The Data Validation **Home** page gives you an overview of the test cases and test results for the current user and the selected time range.

The following image shows the **Home** page:



The **Home** page displays the following information:

- Overview. The number of test cases of the current user.
- Test Results. The test results for the current user and selected time range. The default range is the last 24 hours. To view the results for a specific time, hover over a bar on the graph.
- Test Cases. The matching status of all the test cases for the current user.
- Recent Test Cases. Lists up to 10 of the test cases most recently opened by the current user according to the time of access. Click **View all** to navigate to the **Explore** page. Click a test case to open the test case details page.

You can access the following pages from the navigation bar:

- New. Create a new test case or test case suite.
- Home. Return to the **Home** page.
- Explore. Manage test cases within the organization.
- My Import/Export Logs. Monitor the log files of assets you import or export.

Explore page

Use the **Explore** page to work with your Informatica Intelligent Cloud Services projects, folders, and assets.

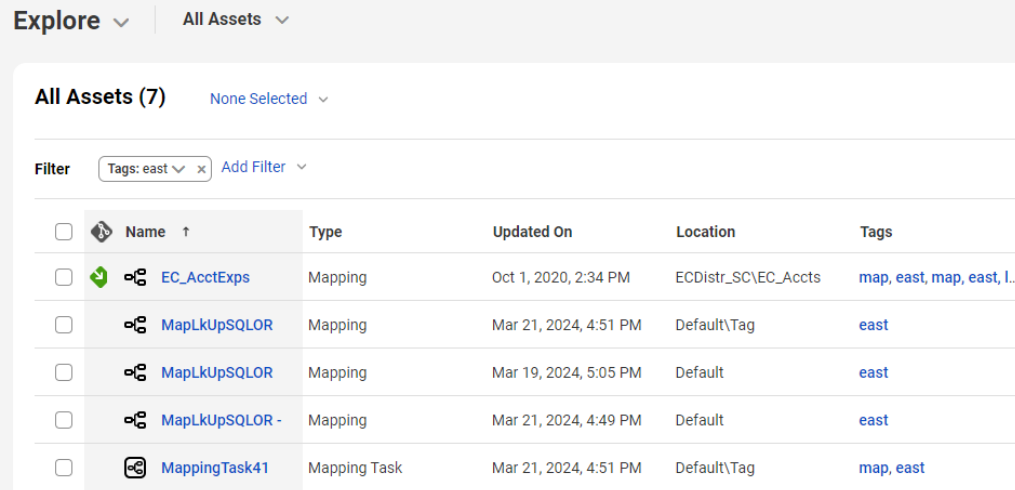
Finding projects and assets on the Explore page

Use any of the following methods to find your projects and assets on the **Explore** page:

- Explore by projects and folders. View all projects or select a particular project.
- Explore by asset types. View all assets or view assets of a particular type.
- Search for projects, folders, or assets. To search for projects, folders, and assets in the organization, view the **Explore** page by **All Projects**, and then enter a name or description in the Find box. Or, view the **Explore** page by **Asset Types** and to narrow your search, select an asset type from the **All Assets** list. Then, in the Find box, enter a name or description in full or part.
- Sort the search results. Sort the **Explore** page by name, asset type, last update date, create date, or description. When you sort by type, the **Explore** page groups assets by asset type. It does not list the asset types in alphabetical order.
- Filter the objects on the page. To filter objects, click the **Filter** icon. To apply a filter, click **Add Filter**, select the property to filter by, and then enter the property value. The filters that are available depend on how you view the page. You can specify multiple filters.

If the result size is large, for example, over 1000 objects, all the objects appear on the **Explore** page but the total number of objects that displays at the top and bottom of the page can be approximate for a minute or so.

Tip: Filtering is available on other pages in addition to the **Explore** page. For example, on the **Import Assets** page, you can filter by status to find the assets that imported successfully.



The screenshot shows the 'Explore' page with the 'All Assets' tab selected. A filter is applied: 'Tags: east'. The table lists 7 assets, with the first 6 visible. The assets are categorized by type: Mapping, Mapping Task, and Mapping Task.

	Name	Type	Updated On	Location	Tags
<input type="checkbox"/>	EC_AcctExps	Mapping	Oct 1, 2020, 2:34 PM	ECDistr_SC\EC_Accts	map, east, map, east, l...
<input type="checkbox"/>	MapLkUpSQLOR	Mapping	Mar 21, 2024, 4:51 PM	Default\Tag	east
<input type="checkbox"/>	MapLkUpSQLOR	Mapping	Mar 19, 2024, 5:05 PM	Default	east
<input type="checkbox"/>	MapLkUpSQLOR -	Mapping	Mar 21, 2024, 4:49 PM	Default	east
<input type="checkbox"/>	MappingTask41	Mapping Task	Mar 21, 2024, 4:51 PM	Default\Tag	map, east

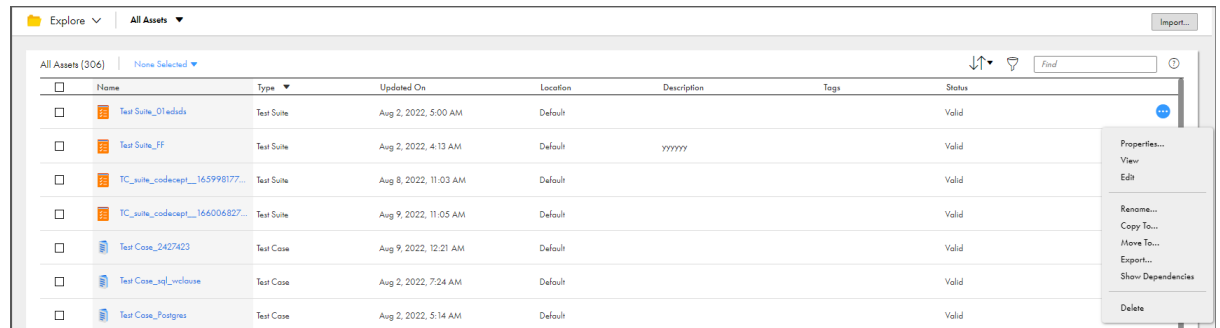
You can see projects, folders, and assets for all of the services that you use. If you select an asset to open it or perform an action, and the asset is created in a different service than the one you have open, the service opens in a new browser tab.

You can't use the following characters:

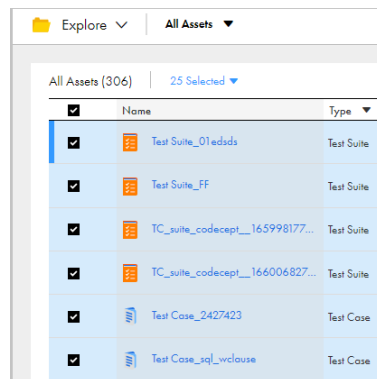
? ' | { } " ^ & [] / \

Working with projects and assets on the Explore page

Perform actions on projects, folders, and assets on the **Explore** page. To see what actions you can perform on an object, in the row that contains the object, click the **Actions** icon, as shown in the following image:

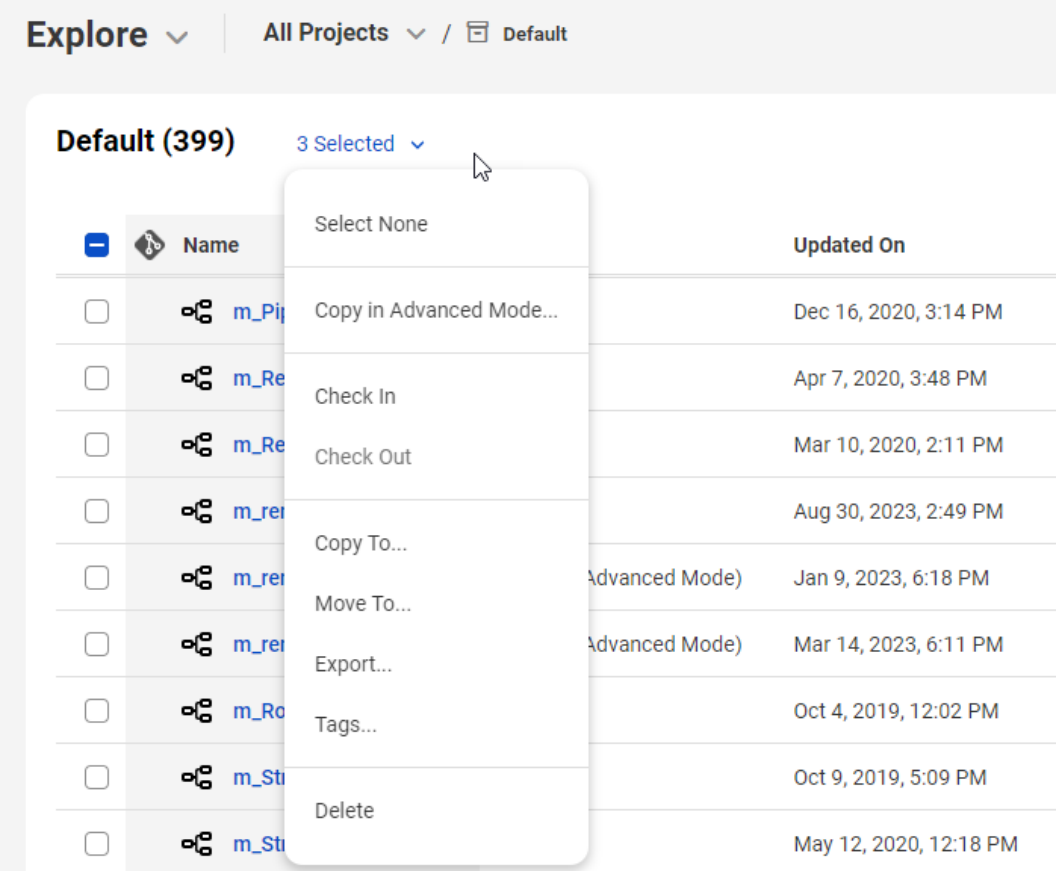


You can also perform an action on multiple objects at one time. Select the check box to the left of each object, or select the Select All check box to select all of the objects that are displayed on the current page. The following image shows the Select All check box in use:



After you select the objects, click **Actions** in the row of any of the selected objects.

Alternatively, you can use the Selection menu to choose the action, as shown in the following image:



Customizing the Explore page

You can display, hide, or rearrange columns on the **Explore** page. To display or hide columns, right-click the column heading area and select or clear the column headings in the list. The headings in the list depend on whether projects, assets, or tags are in view on the **Explore** page.

In the following example, the **Updated By**, **Created On**, and **Created By** columns will be hidden when **All Projects** is selected:

Explore

All Projects / Default

Default (399)

3 Selected

	Name	Type	Updated On
<input type="checkbox"/>	m_PipelineLookupTest	Mapping	
<input type="checkbox"/>	m_RelationalSrc_IF-329	Mapping	
<input type="checkbox"/>	m_RelationalTarget	Mapping	
<input type="checkbox"/>	m_remove_duplicates	Mapping	
<input type="checkbox"/>	m_remove_duplicates-#	Mapping (Advanced Mod	
<input type="checkbox"/>	m_remove_duplicates-#	Mapping (Advanced Mod	
<input type="checkbox"/>	m_RouteCustDataByTie	Mapping	

Updated On

☒ Name

☒ Type

☐ Last Pull Time

☐ Git Hash

☐ Checked Out By

☐ Last Check In

☒ Updated On

To rearrange columns, click a column heading and drag it to a different location.

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