



Informatica® Cloud Data Validation
July 2024

Monitor

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Preface

Read *Monitor* to learn how to view details, jobs, reports, and logs of Data Validation test cases.

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CHAPTER 1

Monitoring test cases

You can view the details, jobs, connections, and sources of Data Validation test cases. You can view reports of successful test case jobs to monitor test cases. You can view Data Integration logs of jobs to learn about test results and reasons for job failure.

A Data Validation job is an instance of a test case. When you start a test case, Informatica Intelligent Cloud Services creates a job to run it. View the jobs of a test case to learn about the mapping results.

Data Validation generates reports about jobs that run successfully. If a job fails, Data Validation doesn't generate a report. Data Validation records the reasons for job failure in a log file.

Reports show specific mapping results for each job. Use the reports to learn if the data you compare matches. View the results to determine what data is unmatched. You can also monitor test case jobs in Data Integration.

You can use test suites to view reports of multiple jobs. Generate a test suite report to display the most recent jobs. Use the test suite report to view reports for each successful job.

You can view test case logs in Data Integration. Based on the logging level that you set, logs include only error messages or include messages of all logging levels.

Test case details and jobs

View test case details to learn about the general details of a test case, the connections that contain the data that a test case compares, and the sources of a test case. View test case jobs to learn about the mapping results of each successful job.

Viewing test case details and jobs

You view details about a test case and the test case jobs on the test case details page.

- To open the test case details page from the **Home** page, on the **Recent Test Cases** panel, click the test case.
- To open the test case details page from the **Explore** page, navigate to the test case and click it.

Details

The **Details** tab of the test case details page shows the general details of the test case.

The following table describes the fields that appear on the **Test Case Details** area of the **Details** tab:

Field	Description
Name	Name of the test case.
Location	Project or folder where the test case is saved.
Description	Description of the test case.
Created on	Date and time when the test case was created.
Updated on	Date and time when the test case was last updated.
Created by	User who created the test case.
Updated by	Last user who updated the test case.
Runtime environment	Runtime environment where the test case runs.

The following table describes the fields for Connection 1 and Connection 2 that appear on the **Connection Details** area of the **Details** tab:

Field	Description
Name	Name of the connection.
Description	Description of the connection that contains the data that the test case compares.
Type	Type of connection.
Created on	Date and time when the connection was created.
Updated on	Date and time when the connection was last updated.
Created by	User who created the connection.
Updated by	User who last updated the connection.
User name	User who created the connection.
Runtime environment	Runtime environment where the connection runs.

The following table describes the fields that appear on the **Source Details** area of the **Details** tab:

Field	Description
Connection 1 Object	Name of the table or view that contains the source data that the test case compares.
Connection 2 Object	Name of the table or view that contains the target data that the test case compares.
Connection 1 Query	Name of the saved SQL query that contains the source data that the test case compares.
Connection 2 Query	Name of the saved SQL query that contains the target data that the test case compares.

Jobs

The **Jobs** tab of the test case details page shows a list of jobs for the test case. The following table describes the fields that appear on the **Jobs** tab:

Field	Description
Instance Name	Name of the test case job.
Start Time	Job start date and time.
Matched Records	Number of records that match in the tables of Connections 1 and 2.
Unmatched Records	Number of records that don't match in the tables of Connections 1 and 2.
Extra Records in Connection 2 Table	Number of records in the Connection 2 table that are absent from the Connection 1 table.
Missing records in Connection 2 Table	Number of records in the Connection 1 table that are absent from the Connection 2 table.
Report	Click View to open the job report. Applies to successful jobs.
Test Result	Status of the job. A job can be in one of the following statuses: <ul style="list-style-type: none">- Match. All the records matched.- Mismatch. Some records are unmatched, extra, or missing.- Failed. The job failed to run.

Reports

Use test case reports to view data about test case connections, sources, and jobs. Use test suite reports to view the most recent job reports for multiple test cases.

Each time you run a test case, Data Validation creates a test case job. Data Validation adds numbers in ascending order to the name of the test case to create unique job names. Data Validation generates a report for each successful job run.

The report shows the general details of the job, sampling data, total records, match results, row count, and column matching status. The row count and the column matching status show the data type, precision, and scale for each row. You can download a report of successful jobs.

The data type match result shows whether the data types of the columns compared in both connection tables match. Data Validation removes trailing zeros from decimal data types to prevent matching errors when comparing table columns.

The report shows details about the missing, unmatched, and extra records in the job. Data Validation shows 100 rows of data for each report.

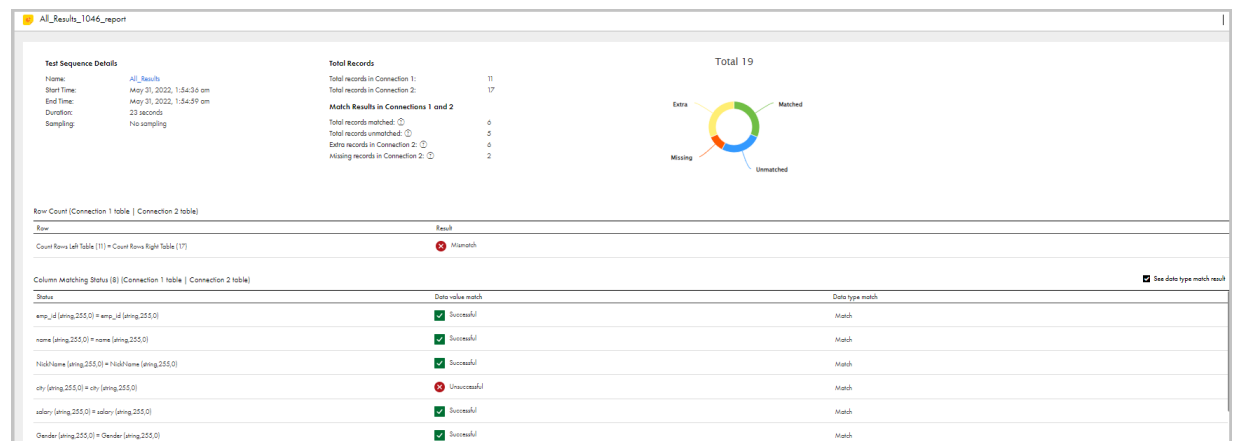
When you create a test case, you select the location where Data Validation saves the reports. Data Validation stores the 10 most recent reports and purges the oldest reports. Data Validation purges detailed reports after the time period that you configure on the Secure Agent. The default time period is seven days.

Viewing a job report

You can view job reports on the job report page. You can open the job report page from the test case details page or from a test suite.

- To open a job report from the test case details page, perform the following tasks:
 - On the **Recent Test Cases** panel of the **Home** page, or on the **Explore** page, click a test case. The test case details page opens.
 - On the test case details page, select the **Jobs** tab and navigate to the row that contains the test case job. On the **Report** column, click **View**. The report page opens.
- To open a job report from a test suite, perform the following tasks:
 - On the **Explore** page, click a test suite.
 - Click the **Test Suite Report** tab. Data Validation generates a test suite report that displays the most recent test case jobs.
 - Navigate to the row that contains the test case job. On the **Report** column, click **View**. The report page opens.
- In the **Column Matching Status** area, select **See data type match result**.

The data type match results appear. The following image shows the report page of a test case job with the data type match results:



4. Expand the **Detailed Report** area to view data of missing, unmatched, and extra records in the job results.

The following image shows the **Unmatched Records** tab in the **Detailed Report** area of the report page:

Detailed Report

Missing Records

Unmatched Records

Extra Records

Connection 2 Table

name	index	altitude	driver_id	bearing	_rev	agency_id	region_id	accuracy	created_at	type	waze_dist	client_id
pick up	3	2218	4feee85ea05593f3dead32cc1f5e9b0f	184.5	e5717e361b18220f3bf9fe4d8fb781e2	154ec8972649d39fbad0abc2beca974f	mexico	3	2018-03-14T12:35:26.637Z	State	1397	3941e4bcebc4f9e6e9eb70c86
pick up	4	2250	4feee85ea05593f3dead32cc1f5e9b0f	184.5	e5717e361b18220f3bf9fe4d8fb781e2	154ec8972649d39fbad0abc2beca974f	mexico	3	2018-03-14T12:35:26.637Z	State	1397	3941e4bcebc4f9e6e9eb70c86

Note: If the tables that you compare contain duplicate records, Data Validation includes the duplicate records in the matched records count.

Downloading a successful job report

You can download a report of successful jobs from the test case details page to a Microsoft Excel file.

1. On the **Explore** page, click a test case.
The test case details page opens.
2. On the test case details page, select the **Jobs** tab and then navigate to the row that contains the test case job. On the **Report** column, click **View**.
The report page opens.
3. Click the download icon to the right of the job report.
The report is downloaded to your machine.

Rules and guidelines for data validation

Consider the following rules and guidelines for data validation:

- When you compare data types across databases, if the corresponding Informatica native type differs in precision compared to the databases, you might see a mismatch.
- If you compare a binary data type with data types such as string or decimal, you might see a mismatch.
- When you compare the time data type across databases, you might see a mismatch because Informatica treats time as datetime and each database has a different default date.
- Informatica treats the datetimeoffset data type as varchar (0). If you compare datetimeoffset values with datetime values, you might see a mismatch.
- When you compare floating point data types across databases, the default exponential notation on each database might be different. You might see a mismatch in the case of large floating point numbers.
- When you compare data between Oracle and Snowflake databases, if the Oracle database contains varchar data, you might see a mismatch. To prevent this issue, map Oracle varchar data to nvarchar2.
- If an Oracle table stores Unicode data in an nvarchar column and you map the column to other databases with Unicode data, you might see a mismatch. The mismatch occurs because Oracle supports Unicode data only in its nvarchar2 data type.

Logs

Data Integration generates a log for each test case job instance. To monitor the jobs, you can access the logs from Data Integration or from Monitor. Use the logs to view error messages and learn about individual output results.

View the logs of jobs that run successfully to learn details about mapping results according to rows of data. View the logs of failed jobs to learn about the reasons for failure. For example, a job fails if the Secure Agent or database is down.

Data Integration adds numbers to the name of the test case job to create unique log names. You can search for logs by field or test case name.

When you configure the test case properties, you can select the test logging level. You can select one of the following logging levels:

- Standard. The log includes error messages.
- Verbose. The log includes messages of all logging levels.

Viewing a test case log

Open a test case log from the **My Jobs** page in Data Integration or in Monitor.

1. In Data Integration, on the navigation bar, click **My Jobs**.
The **My Jobs** page opens.
2. Navigate to the job and click it.
The job page opens.
3. Click **Download Session Log** to download the log file to your local machine.

Configuring log data purging

You can set a purge period for log data in Administrator. The purge period defines the number of days to store the data. Data Validation purges the data accordingly. By default, there is no defined purge period and Data Validation doesn't purge the log data.

1. In **Administrator**, access the Secure Agent that runs Data Validation test cases.
2. Click **Edit** at the top of the page.
3. Under **System Configuration Details**, select **DV Processor** from the **Service** list.
4. Edit the **purge-period** server property and enter the number of days to store the data.
5. Click **Save**.

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