Name of Solution:

Cloud Data Integration: Log error at field level

Business Requirement:

Load error log table with column level errors data when a row contains errors in multiple columns.

Supported Versions:

CDI, CDQ

Description:

Many customers maintain common error tables to log errors encountered when processing data. Often errors are tracked at column level and when a particular row of data has issues in multiple columns then multiple rows have to be inserted into the error table. This can be achieved using IDMC CDI transformations (CDQ rule specification/Expression, Union, Joiner).

Scenario:

Consider that when you are processing input data, if there are NULL values in the Input columns then, they have to be populated as errors in a separate flat file or table. For example, if there are NULL values for Email and Phone_Number for a particular customer, then the output row to the error table should contain the Customer Name and an error message that says Invalid Email or Invalid Phone_Number.

Source Rows:

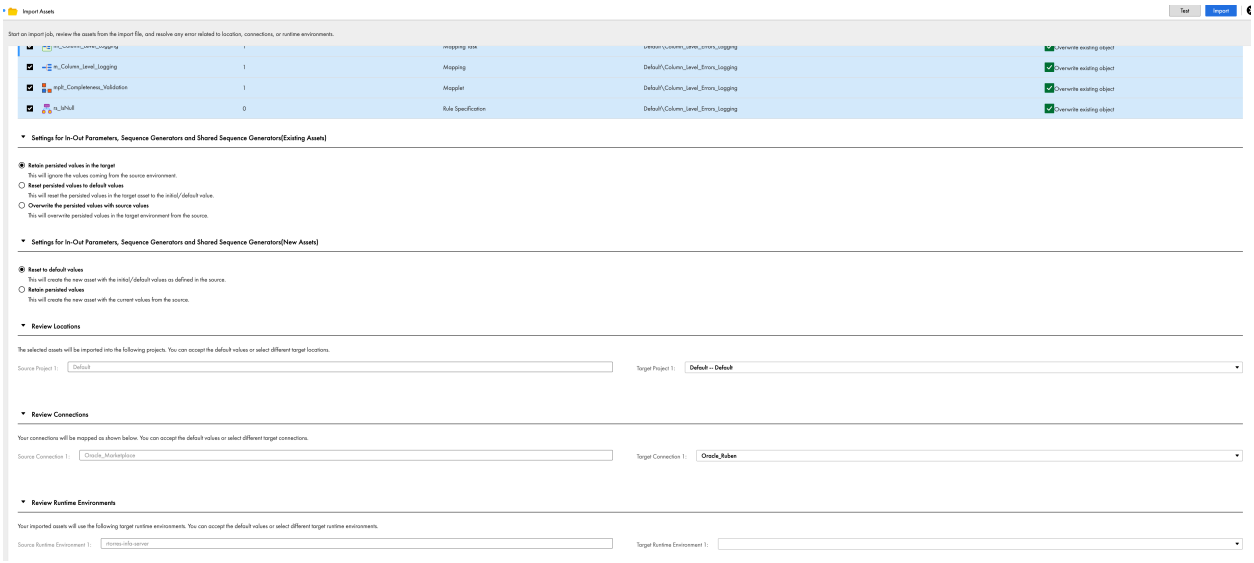
Name	Address	City	State	Phone_Number	Country	Email
Alan	Joshua	NewYork	NY	2012336654	USA	
John	Gates	NewYork	NY		USA	
Michael	Parkway	NewYork	NY		USA	MikeTracy@gmail.com

Custom Error Table entries:

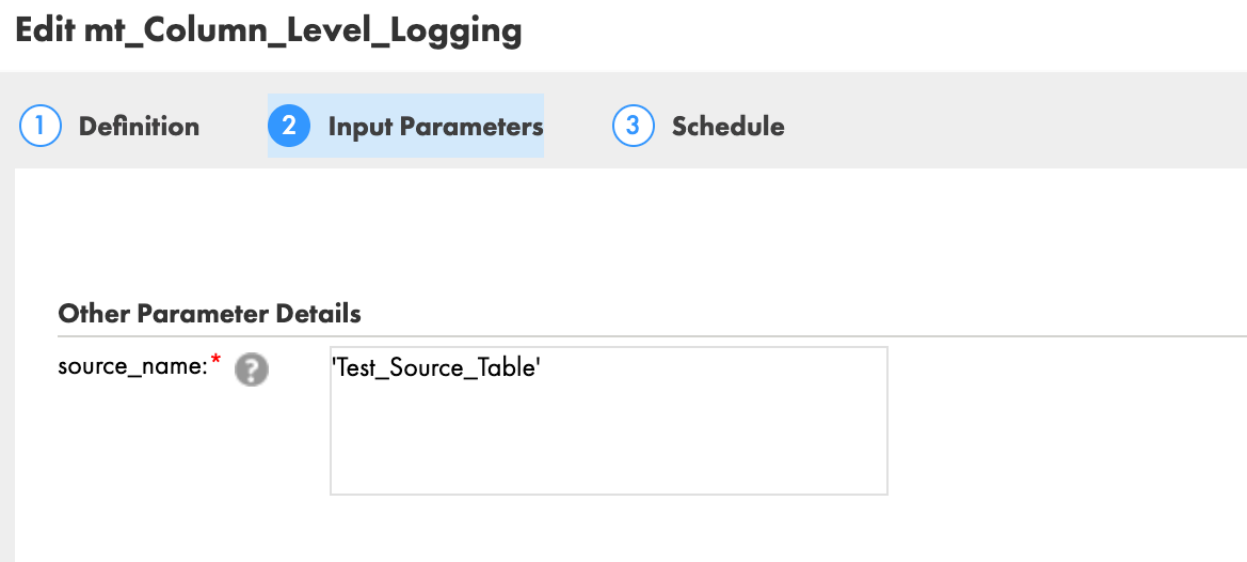
MT Name	Mapping Name	Source Name	Source_Key Value	Error Description
mt_test	m_test	STG_CUSTOMERS	Alan	Email is NULL
mt_test	m_test	STG_CUSTOMERS	John	Email is NULL
mt_test	m_test	STG_CUSTOMERS	John	Phone Number is NULL
mt_test	m_test	STG_CUSTOMERS	Michael	Phone Number is NULL

Steps to implement the solution:

1. Import file to IDMC Org
    a. Define the Project where the code is going to be imported
    b. Define Source and Target connections
    c. Define the Runtime Environment where the code is going to be executed
    d. Import the file



2. Select the Source and Target objects in the mapping
3. Define the Source Object Name in the mapping task parameter



4. Run the mapping task

Note: Source and Target Object/Connection could be parameterized to define it in the mapping task. Also if reusability is desired, field names and field mappings could be parameterized.