

Data Validation Tool

Manual

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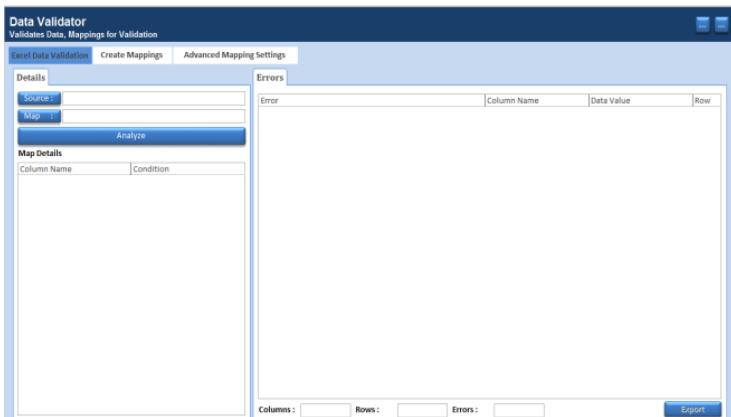
What is Data Validation?

Data Validation is the tool that ensures the legitimacy of data before it is ready to be imported to databases. Without this, the risk of failure to importing of data is high. Therefore, the vulnerability of database is also affected.

Introduction of Data Validation Tool

Data Validation tool consists of 3 modules: the Excel Data Validation, Creating Mappings, and Advanced Mapping Settings.

1. **Excel Data Validation** – it is the tool that is responsible for validating data from its *source*. It requires *source* and *map* excel file for validation.
 - a. Source – Where the data are stored and used as import file for other applications
 - b. Map – Where the validation conditions and column names from source are located.



The screenshot shows the 'Data Validator' application window. The title bar reads 'Data Validator' and 'Validates Data, Mappings for Validation'. The interface has three tabs: 'Excel Data Validation' (selected), 'Create Mappings', and 'Advanced Mapping Settings'. The 'Excel Data Validation' tab is divided into two main sections: 'Details' on the left and 'Errors' on the right. The 'Details' section contains a 'Source' field with a 'Browse...' button, a 'Map' field with a 'Browse...' button, and an 'Analyze' button. Below these is a 'Map Details' section with a table for mapping column names to conditions. The 'Errors' section contains a table with columns for 'Error', 'Column Name', 'Data Value', and 'Row'. At the bottom of the window, there are fields for 'Columns:', 'Rows:', and 'Errors:', along with an 'Export' button.

2. **Create Mappings** – its concern is to create a mapping matrix that matches to its source

Data Validator
Validates Data, Mappings for Validation

Excel Data Validation | **Create Mappings** | Advanced Mapping Settings

Column Name: Data Type: Text

Table Name	Columns	Data Type	Condition	
TEMP_MAP	Name	Text	Alphanumeric + SPC	<input type="button" value="Delete"/>
TEMP_MAP	Address	Text	Alphanumeric + SPC	<input type="button" value="Delete"/>

3. **Advanced Mapping Settings** – Its functionality is to customize the condition of the data

a. Before

Data Validator
Validates Data, Mappings for Validation

Excel Data Validation | Create Mappings | **Advanced Mapping Settings**

Select Table:

Table Name	Columns	Data Type	Condition	Change To	
TEMP_MAP	Address	Text	Alphanumeric + SPC	Alphanumeric	<input type="button" value="Apply"/>
TEMP_MAP	Name	Text	Alphanumeric + SPC	Alphanumeric	<input type="button" value="Apply"/>

b. After

Data Validator
Validates Data, Mappings for Validation

Excel Data Validation | Create Mappings | **Advanced Mapping Settings**

Select Table:

Table Name	Columns	Data Type	Condition	Change To	
TEMP_MAP	Name	Text	Alphanumeric + SPC	Alphanumeric (100)	<input type="button" value="Apply"/>
TEMP_MAP	Address	Text	Alphanumeric (100)	Alphanumeric (100)	<input type="button" value="Apply"/>

How to Use:

1. Click *New Mapping* Button

- a. Under *Create Mappings* module, Match Column name to its Corresponding Column header from its source.
- b. Declare Data Type (Boolean, Byte, Integer, Long, Currency, Single, Double, Date, Text, N/A) according to its database definitions.

Note: Each Data Type has own default condition. You can customize it on Advanced Mapping Settings.

- c. Click add button

Note: For some cases, delete some unnecessary inputs or errors.

2. Customize Mapping

- a. Under *Advanced Mapping Settings*, you can change the condition according to its desired form.
- b. You can click *Export Map* Button and select its destination folder.
- c. Now you can use the exported map to Validate the import source using *Excel Data Validation* module

3. Excel Data Validation

- a. Browse for Source and Map.
- b. Click *Analyze* button.
- c. After Validating, you can export it by clicking *Export* button.

Message Prompts and Solutions

- A. Excel Data Validation
 - a. Source is required – browse an excel type source file.
 - b. Map is required – browse an excel type mappings file.
 - c. Map file is invalid – browse a valid excel mappings file.
 - d. Number of errors: *N* – you can export the error result by clicking export button
 - e. No Detected Errors. The source is valid – *N/A*
 - f. Export Canceled – the export has been canceled by user.
 - g. Successfully exported to *Path* – *N/A*