

Name of Solution:

PowerCenter – Data Masking with an Expression

Business Requirement:

Use the Expression transformation with the Data Masking transformation to maintain a relationship between two columns.

Solution URL:

<https://community.informatica.com/solutions/1941>

Supported Versions:

PowerCenter 9.1 and 9.5

Description:

Use the Data Masking transformation to change sensitive production data to realistic test data for non-production environments. The Data Masking transformation modifies source data based on masking rules that you configure for each column. Create masked data for software development, testing, training, and data mining. You can maintain data relationships in the masked data and maintain referential integrity between database tables.

The following example shows how to use the Expression transformation with the Data Masking transformation to maintain a relationship between two columns after you mask one of the columns.

This example includes the following types of masking:

- Key
- Date blurring
- Number blurring
- Mask formatting

Download file contents:

1. Workflow
2. Source File
3. Document

Steps to implement the solution:

1. Place source file to \$PMSourceFileDir folder.
2. Import workflow "wf_Data_Masking_With_Expression.XML" using Repository Manager. Select the appropriate folder from repository and resolve the conflicts by choosing suitable option.

Note: The core functionality of this solution is present as a mapplet in "wf_Data_Masking_With_Expression_With_Mapplet.XML". If you want to use this solution as a mapplet in any of your mappings, just copy the mapplet after importing the contents in the export file.

3. Open each of the mapplet in PowerCenter Designer, observe the data masking transformation.

Edit Transformations

Transformation | Ports | Properties | **Masking Properties**

Locale : Arabic (United Arab Emirates)

	Port Name	Data Type	Prec	Scale	Masking	Associated O/P
1	Input_String	string	8	0	Random	out_Input_String
2	Input_Integer	integer	10	0	Random	out_Input_Integer
3	Input_Date	date/time	29	9	Random	out_Input_Date

Set the masking rules for the selected string port

☐ Range
Minimum Width : Maximum Width :

☒ Mask Format
(Characters allowed : A,D,N,R,X,+)

☐ Source String Characters
 Characters :

☒ Result String Replacement Characters
 Characters :

OK Cancel Apply Help

4. Open the workflow in Workflow Manager. Assign the integration service in Workflow -> Edit -> Integration Service.
5. Edit session and assign valid connection object for the source and target.
6. For more details for importing object please visit our [YouTube](#) link.
7. Execute the workflow and review the target file "customer_accounts_test1.out"

YouTube Video on Importing and Configuring Workflows:

<http://www.youtube.com/playlist?list=PLLRreK2jjjgWBQ4NPfp0QWTxYDvInEqSJ>

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