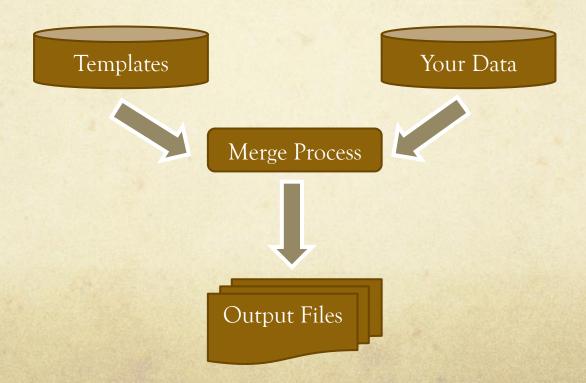
DragonFly © IBM 2015, 2015

A SQL and Template based Merge Tool

Overview

DragonFly is a powerful web based tool that allows you to generate any type of output files from simple text templates and a SQL data source.



Terminology

- O Template The template Content and options.
- O Directive Instructions for the Merge Process, associated with a Template
- Merge The process of <u>replacing tags</u> with <u>data</u> and <u>inserting sub-templates</u> to generate output
- HashTable An associative array with unique Keys associated with a corresponding value. When a duplicate key is added, it replace the existing value for that key.

Merge Process - Replace

The Merge process builds a hash of replace from/to values and then processes them

From	То
{name}	Mr. Smith
{address}	1234 Main St.
{company}	Blue Widgets

Template

Dear {name}

{company} {address}

We are writing to invite your staff to enroll in our special training class.

Thank you

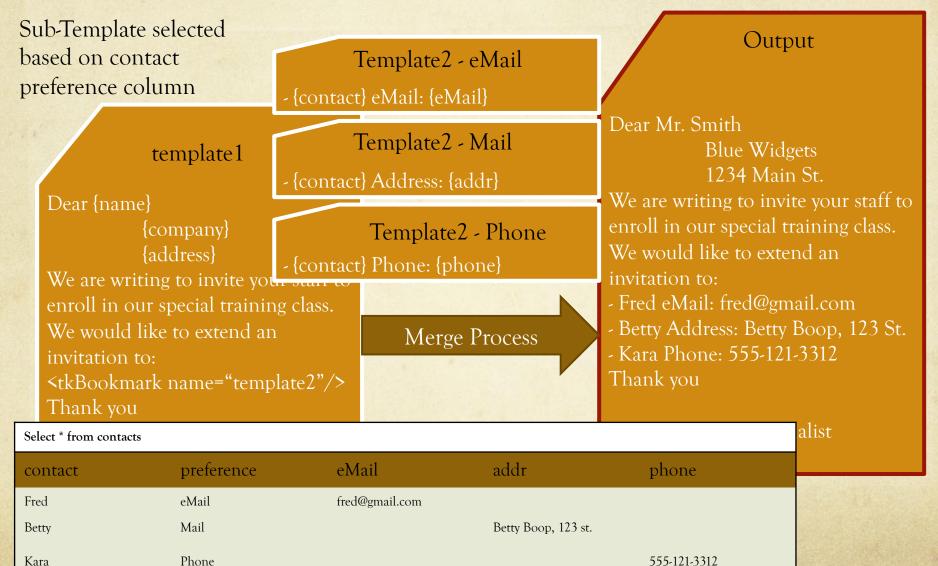
Intense Training Specialist



Merge Sub-Templates

The Merge process will insert sub-templates at Bookmarks template2 template1 - {contact} eMail: {eMail} Output Dear {name} Dear Mr. Smith {company} Blue Widgets {address} 1234 Main St. We are writing to invite your staff to We are writing to invite your staff to enroll in our special training class. enroll in our special training class. Merge Process We would like to extend an We would like to extend an invitation to: invitation to: <tkBookmark name="template2"/> - Fred eMail: fred@gmail.com - Betty eMail: betty@ibm.com Thank you - Kara eMail: kk993@yahoo.com Intense Training Specialist Thank you Intense Training Specialist

Merge Sub-Templates Collections



4 Ways to add Replace Values

- The replace stack is built in the following order:
 - O Parameters to the html request
 - O Directives associated with the Template
 - Replace Value directive
 - Replace Column directive
 - Replace Row directive

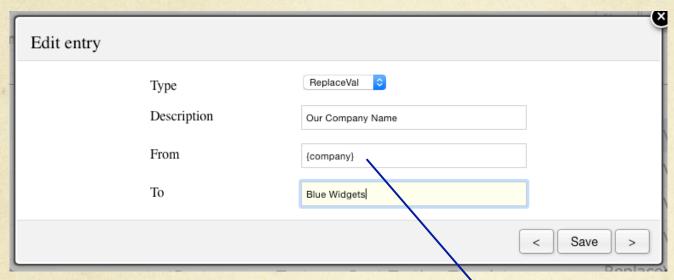
Replace Parameters

http://www.you.com/DragonFly/Merge?name=Mike&age=21

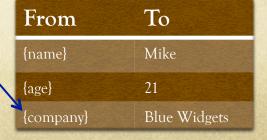


- O Note that { and } are added to the From value
- The parameter "CacheReset" is reserved, with a value of "Yes" will clear the Template Cache on the server.

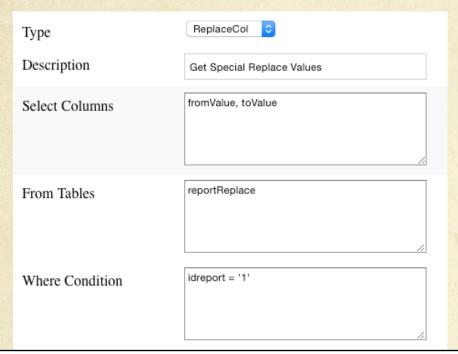
Replace Values Directive



Note that { and } are NOT added to the From value



Replace Column Directive



Note { and } are added to from Value

Select fromValue, toValue from reportReplace where idreport='1'		
fromValue	toValue	
Division	Sales	
CostCenter	East	
Date	June 1 st , 2015	

From
To

{name}
Mike

{age}
21

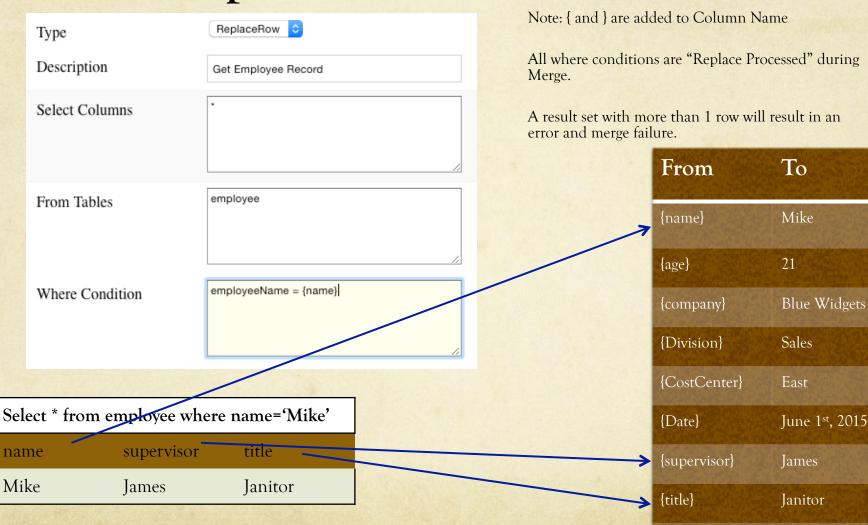
{company}
Blue Widgets

{Division}
Sales

{CostCenter}
East

{Date}
June 1st, 2015

Replace Row Directive



The Insert Directive

Туре	Insert
Description	Insert Contact Info
Insert From Collection	testDirective 💠
Select Columns	
From Tables	customerContacts
Where Condition	repName = {Name}
Not Last Tags:	{and}
Only Last Tags	{and},{or},{coma}

The insert directive will insert sub-templates for each row of the result set.

Sub-templates are inserted at <tkBookmark name="subTemplate" /> tags. Multiple bookmarks are supported.

The current replace hash, along with a replace row of the current result set is the starting set for the sub-template.

Not Last tags are set to "" on the last inserted sub-template

Only Last tags are set to "" on all but the last sub-template.

Sub-Template Collections

- Vary the sub-template inserted based on a column in the result set.
- Sub-Template Collection specifies the Column used to select sub-templates to be inserted.
- Template for Collection, Name, Column Value is inserted if found.
- O If not found, the template for a blank column value is inserted.
- O If the blank value is not found, the merge fails.

Saving Output Files

- O By default a template is either inserted into the parent template, or written to the servlet response. A template can specify an output file name to be created.
- O If a file is created, nothing is inserted into the parent template.
- File names are "replace processed" before the file is saved.