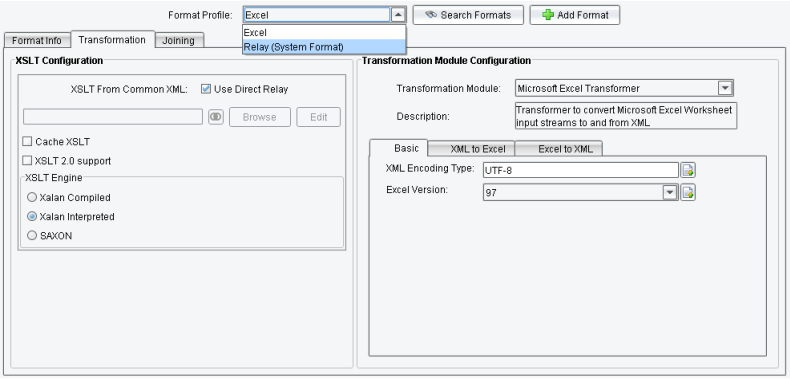
Using Forking

Overview

In this lab, we will ll cover the basic use of Forking. This tutorial expands on content and concepts covered in the “Lab 3: Using Transformers” lab. This exercise will fork a Route based on the Microsoft Excel Sheets contained in a file.

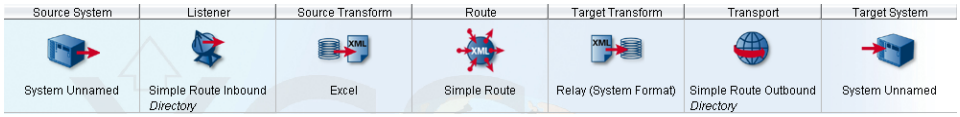
Steps

1. Continuing where we left off with “Using Transformers”, remove the ‘Target Transformation’ by selecting that stage and changing the Format Profile back to “Relay”:

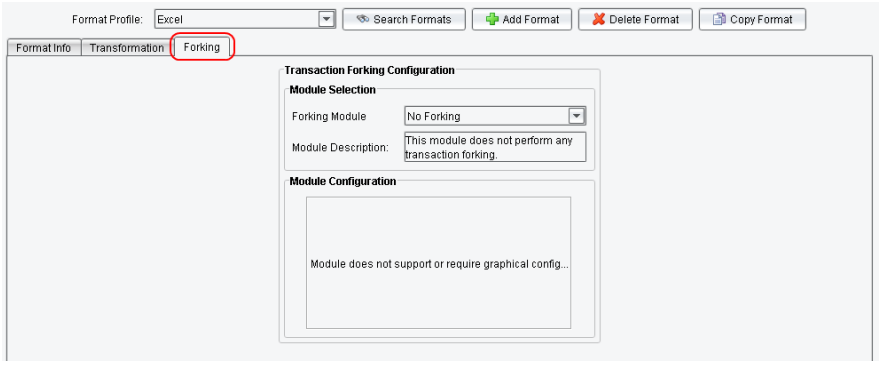


2. Since the output is now going to be XML, change the output ‘file extension’ of the ‘Target Transport’ to “xml”.

   The route should now look like this:



3. Select the ‘Source Transform’ stage and then select the ‘Forking’ tab:



4. Select “XPath Forking” from the Forking Module dropdown.

   The forking stage will be invoked after transformation has taken place. The basic structure of a Spreadsheet once converted to XML can be seen below.

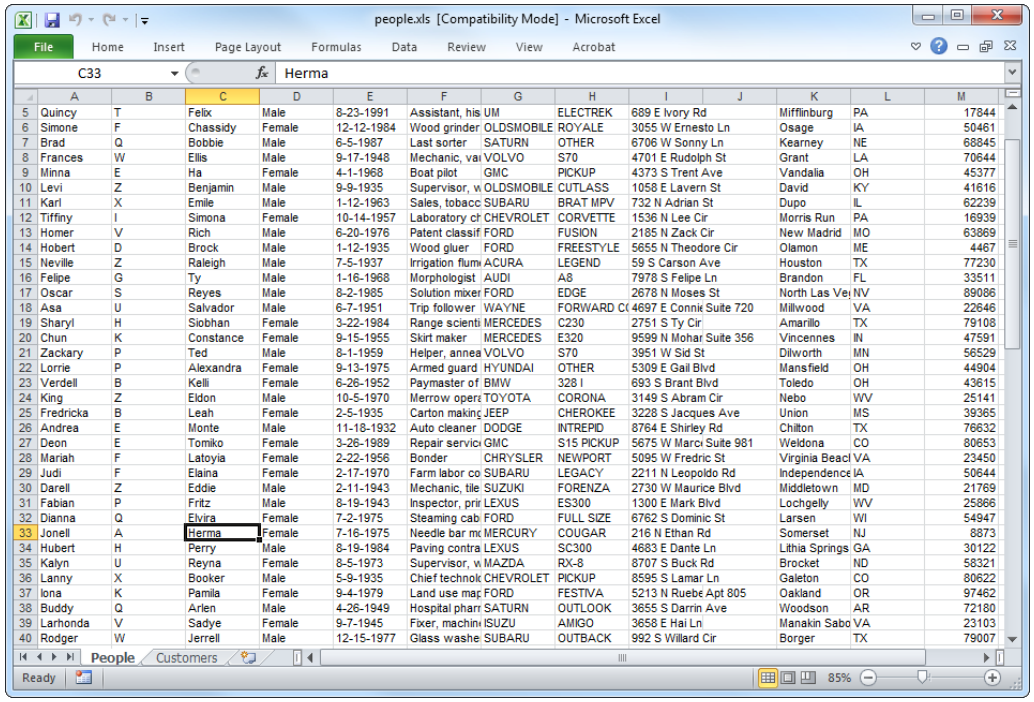
```
<?xml version="1.0" encoding="utf-8"?>
<XCSExcelBook sheetCount="1">
  <XCSExcelSheet name="People" rowCount="98">
    …
  </XCSExcelSheet>
  <XCSExcelSheet name="Customers" rowCount="14">
    …
  </XCSExcelSheet>
</XCSExcelBook>
```

5. Fork based on the following Xpath Expression:

```
//XCSExcelSheet
```

Testing

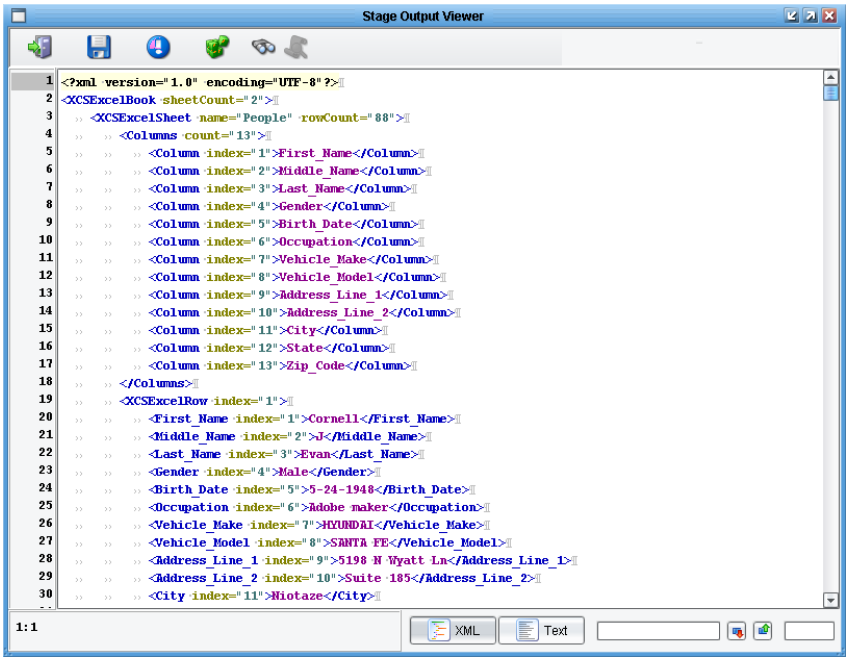
For our sample file, we have created an Excel sheet like so:



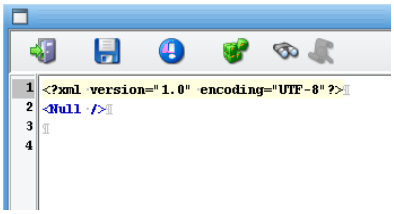
	A	B	C	D	E	F	G	H	I	J	K	L	M
5	Quincy	T	Felix	Male	8-23-1991	Assistant, his	UM	ELECTREK	689 E Ivory Rd		Mifflinburg	PA	17844
6	Simone	F	Chassidy	Female	12-12-1984	Wood grinder	OLDSMOBILE	ROYALE	3055 W Ernesto Ln		Osage	IA	50461
7	Brad	Q	Bobbie	Male	6-5-1987	Last sorter	SATURN	OTHER	6706 W Sonny Ln		Kearney	NE	68845
8	Frances	W	Ellis	Male	9-17-1948	Mechanic, vai	VOLVO	S70	4701 E Rudolph St		Grant	LA	70644
9	Minna	E	Ha	Female	4-1-1968	Boat pilot	GMC	PICKUP	4373 S Trent Ave		Vandalia	OH	45377
10	Levi	Z	Benjamin	Male	9-9-1935	Supervisor, w	OLDSMOBILE	CUTLASS	1058 E Lavern St		David	KY	41616
11	Karl	X	Emile	Male	1-12-1963	Sales, tobacc	SUBARU	BRAT MPV	732 N Adrian St		Dupo	IL	62239
12	Tiffiny	I	Simona	Female	10-14-1957	Laboratory ch	CHEVROLET	CORVETTE	1536 N Lee Cir		Morris Run	PA	16939
13	Homer	V	Rich	Male	6-20-1976	Patent classif	FORD	FUSION	2185 N Zack Cir		New Madrid	MO	63869
14	Hobert	D	Brock	Male	1-12-1935	Wood gluer	FORD	FREESTYLE	5655 N Theodore Cir		Olamon	ME	4467
15	Neville	Z	Raleigh	Male	7-5-1937	Irrigation flum	ACURA	LEGEND	59 S Carson Ave		Houston	TX	77230
16	Felipe	G	Ty	Male	1-16-1968	Morphologist	AUDI	A8	7978 S Felipe Ln		Brandon	FL	33511
17	Oscar	S	Reyes	Male	8-2-1985	Solution mixer	FORD	EDGE	2678 N Moses St		North Las Ve	NV	89086
18	Asa	U	Salvador	Male	6-7-1951	Trip follower	WAYNE	FORWARD C(	4697 E Connie Suite 720		Millwood	VA	22646
19	Sharyl	H	Siobhan	Female	3-22-1984	Range scienti	MERCEDES	C230	2751 S Ty Cir		Amarillo	TX	79108
20	Chun	K	Constance	Female	9-15-1955	Skirt maker	MERCEDES	E320	9599 N Mohar Suite 356		Vincennes	IN	47591
21	Zackary	P	Ted	Male	8-1-1959	Helper, annea	VOLVO	S70	3951 W Sid St		Dilworth	MN	56529
22	Lorrie	P	Alexandra	Female	9-13-1975	Armed guard	HYUNDAI	OTHER	5309 E Gail Blvd		Mansfield	OH	44904
23	Verdell	B	Kelli	Female	6-26-1952	Paymaster of	BMW	328 I	693 S Brant Blvd		Toledo	OH	43615
24	King	Z	Eldon	Male	10-5-1970	Merrow opera	TOYOTA	CORONA	3149 S Abram Cir		Nebo	WV	25141
25	Fredricka	B	Leah	Female	2-5-1935	Carton making	JEEP	CHEROKEE	3228 S Jacques Ave		Union	MS	39365
26	Andrea	E	Monte	Male	11-18-1932	Auto cleaner	DODGE	INTREPID	8764 E Shirley Rd		Chilton	TX	76632
27	Deon	E	Tomiko	Female	3-26-1989	Repair servic	GMC	S15 PICKUP	5675 W Marc Suite 981		Weldona	CO	80653
28	Mariah	F	Latoyia	Female	2-22-1956	Bonder	CHRYSLER	NEWPORT	5095 W Fredric St		Virginia Beac	VA	23450
29	Judi	F	Elaina	Female	2-17-1970	Farm labor co	SUBARU	LEGACY	2211 N Leopoldo Rd		Independence	IA	50644
30	Darell	Z	Eddie	Male	2-11-1943	Mechanic, tile	SUZUKI	FORENZA	2730 W Maurice Blvd		Middletown	MD	21769
31	Fabian	P	Fritz	Male	8-19-1943	Inspector, prir	LEXUS	ES300	1300 E Mark Blvd		Lochgelly	WV	25866
32	Dianna	Q	Elvira	Female	7-2-1975	Steaming cab	FORD	FULL SIZE	6762 S Dominic St		Larsen	WI	54947
33	Jonell	A	Herma	Female	7-16-1975	Needle bar m	MERCURY	COUGAR	216 N Ethan Rd		Somerset	NJ	8873
34	Hubert	H	Perry	Male	8-19-1984	Paving contra	LEXUS	SC300	4683 E Dante Ln		Lithia Springs	GA	30122
35	Kalyn	U	Reyna	Female	8-5-1973	Supervisor, w	MAZDA	RX-8	8707 S Buck Rd		Brocket	ND	58321
36	Lanny	X	Booker	Male	5-9-1935	Chief technol	CHEVROLET	PICKUP	8595 S Lamar Ln		Galeton	CO	80622
37	Iona	K	Pamila	Female	9-4-1979	Land use mar	FORD	FESTIVA	5213 N Ruebe Apt 805		Oakland	OR	97462
38	Buddy	Q	Arlen	Male	4-26-1949	Hospital pharr	SATURN	OUTLOOK	3655 S Darrin Ave		Woodson	AR	72180
39	Larhonda	V	Sadye	Female	9-7-1945	Fixer, machin	ISUZU	AMIGO	3658 E Hai Ln		Manakin Sabo	VA	23103
40	Rodger	W	Jerrell	Male	12-15-1977	Glass washe	SUBARU	OUTBACK	992 S Willard Cir		Borger	TX	79007

This sample (“people.xls”) should be available in the same location as the lab materials. Copy the file into the input directory (“C:\in”), switch to Testing Mode, and Execute Test. Once the processing completes, we'll view the output at three different stages; First, at the Transform, then Forking and finally XSLT.

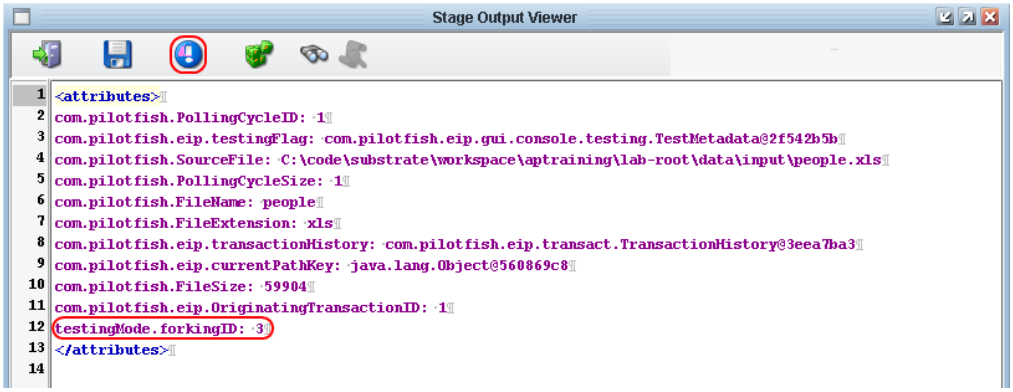
We can see from Transformation Stage Output that the root element is <XCSExcelBook>:



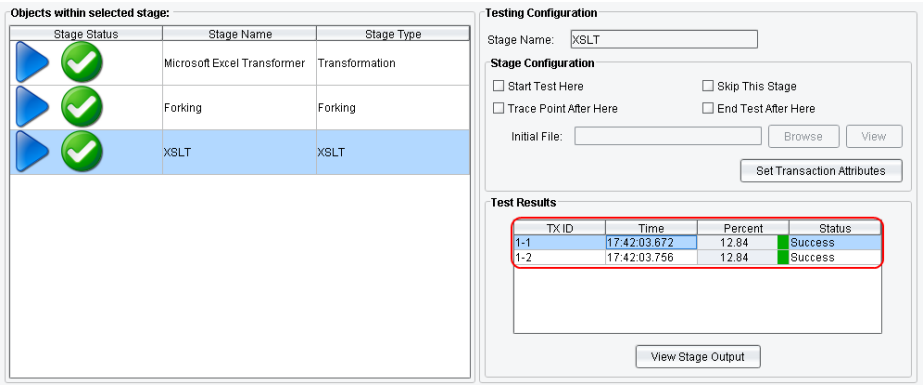
Forking Stage Output is NULL because it spawns new transactions:



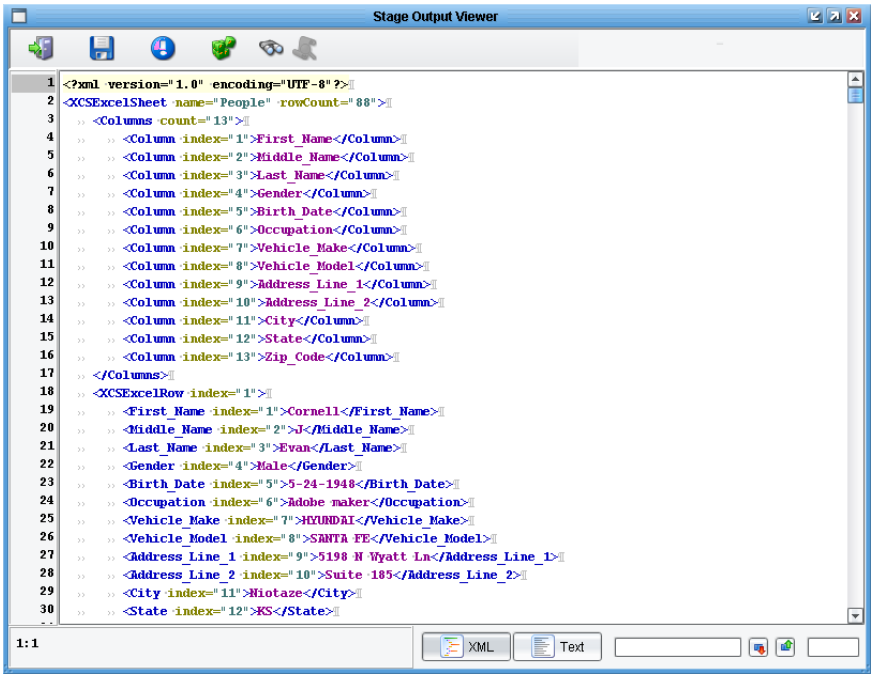
Switching to Attribute View reveals a "forkingID" attribute:



We can see that the transaction was split in two from the 'Test Results' panel on the next stage:



Viewing the output of one of the XSLT stages we can see that the root element is now <XCSExcelSheet>:



Lastly we should see two XML files created in our output directory.