Practical No. 4

Title: - Implementation of ETL transformation with Pentaho

Aim: - ETL Transformation with Pentaho.

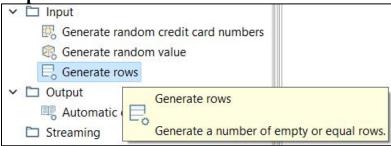
Lab Objectives: -

Students will understand following concepts:

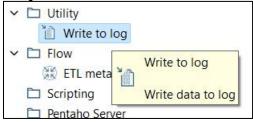
- I. Copy data from Source (Table/Excel/ Oracle) and store it to Target (Table/Excel/ Oracle)
- II. Adding sequence, Adding Calculator, Concatenation of two fields, Splitting of two fields
- III. String Operations, Sorting data, Implement the merge join transformation on tables.

Transformation1: Fetch Data From Data Set

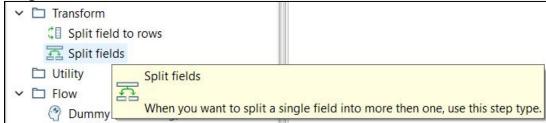


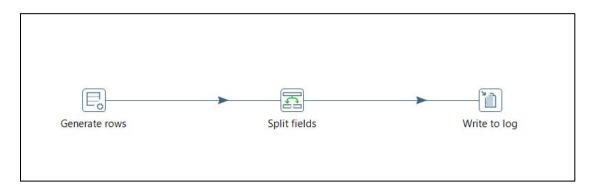


Step 2:

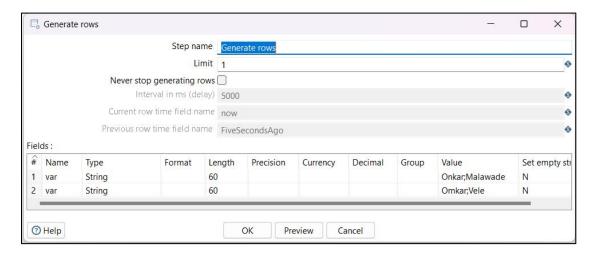


Step 3:

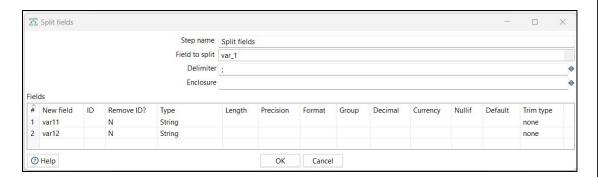




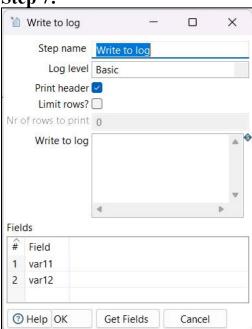
Step 5:



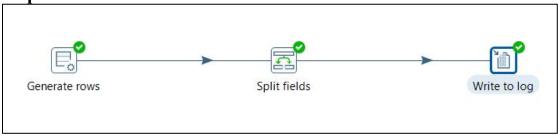
Step 6:



Step 7:



Step 8:



Step 9:

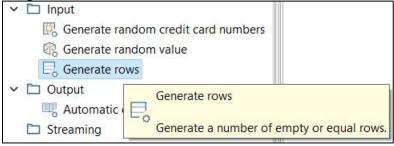


Step 10:

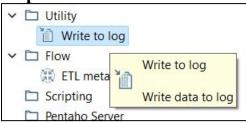
```
2023/12/04 18:31:25 - Write to log.0 - -----> Linenr 1------
2023/12/04 18:31:25 - Write to log.0 - var11 = Omkar
2023/12/04 18:31:25 - Write to log.0 - var12 = Vele
2023/12/04 18:31:25 - Write to log.0 -
2023/12/04 18:31:25 - Write to log.0 -
```

Transformation 2: String Concatenation

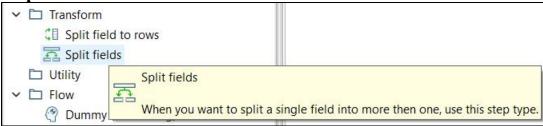
Step 1:



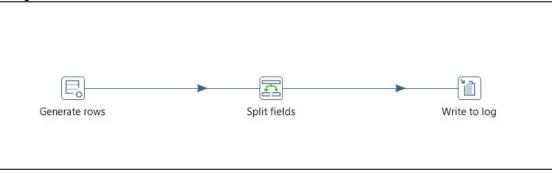
Step 2:



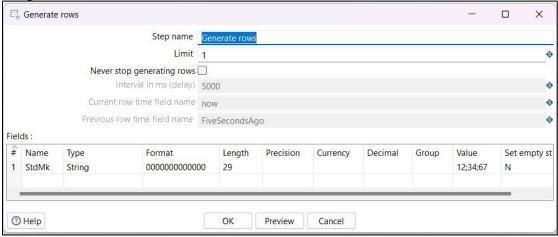
Step 3:



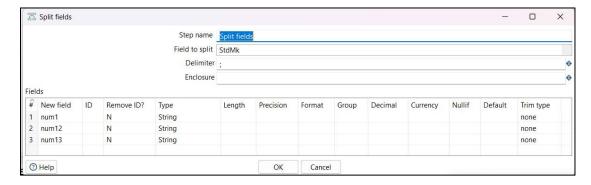
Step 4:



Step 5:

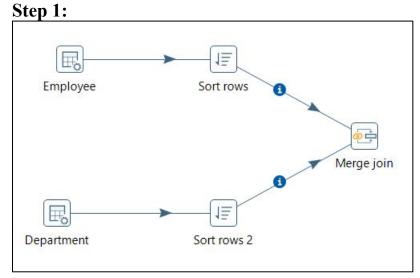


Step 6:

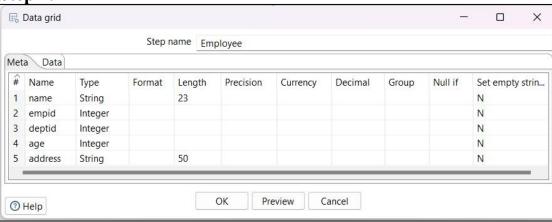


Step 7:

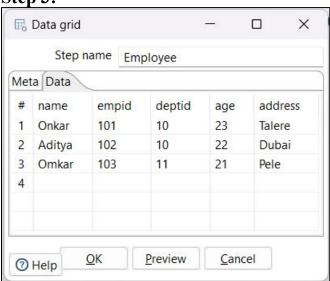
Transformation 3: Merge Join

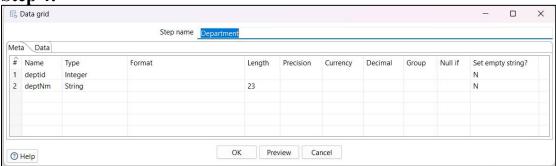


Step 2:

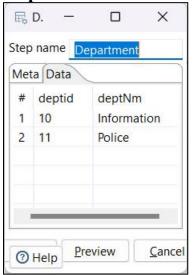


Step 3:

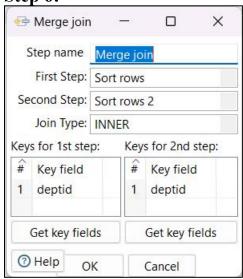




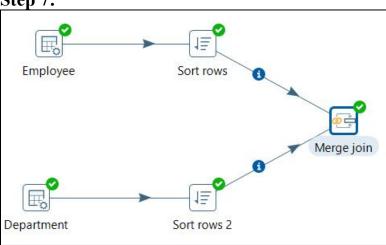
Step 5:



Step 6:



Step 7:

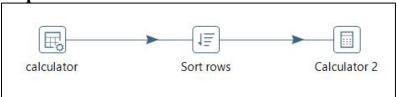


Step 8:

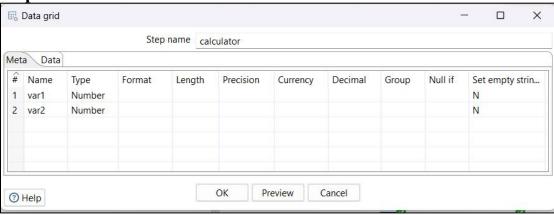
0	First rows(Last rows	○ Off				
<u>^</u>	name	empid	deptid	age	address	deptid_1	deptNm
1	Onkar	101	10	23	Talere	10	Information
2	Aditya	102	10	22	Dubai	10	Information
3	Omkar	103	11	21	Pele	11	Police

Transformation Calculator

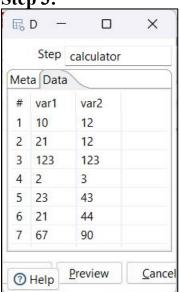
Step 1:

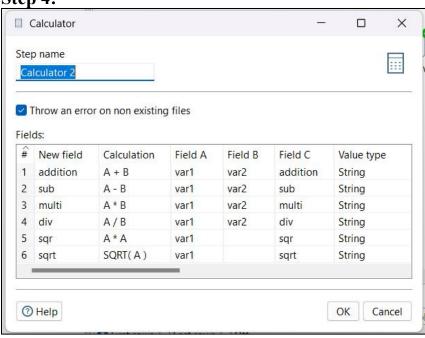


Step 2:



Step 3:



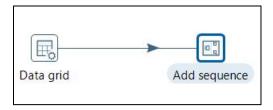


Step 5:

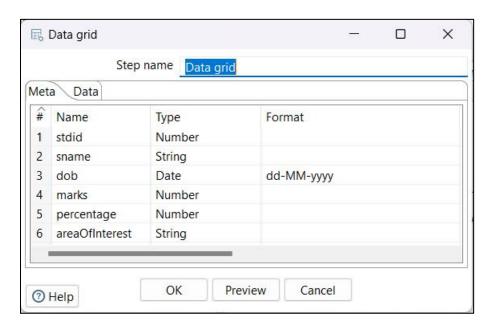
Lo	ogging (2	Execution	on History 2	Step M ■ Step M	etrics 🗠 Per	rformance Graph [Metrics 4	Preview data
O Fi	rst rows (Last ro	ws Off					
^	var1	var2	addition	sub	multi	div	sqr	sqrt
1	2.0	3.0	5.0	-1.0	6.0	0.6666666667	4.0	1.4142135624
2	10.0	12.0	22.0	-2.0	120.0	0.8333333333	100.0	3.1622776602
3	21.0	12.0	33.0	9.0	252.0	1.75	441.0	4.582575695
4	21.0	44.0	65.0	-23.0	924.0	0.4772727273	441.0	4.582575695
5	23.0	43.0	66.0	-20.0	989.0	0.5348837209	529.0	4.7958315233
6	67.0	90.0	157.0	-23.0	6030.0	0.744444444	4489.0	8.1853527719
7	123.0	123.0	246.0	0.0	15129.0	1.0	15129.0	11.0905365064

Transformation Data Grid Add Sequence

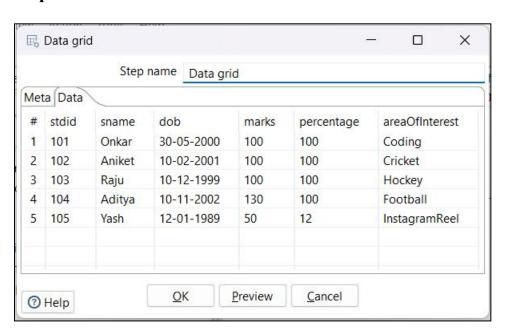
Step 1:



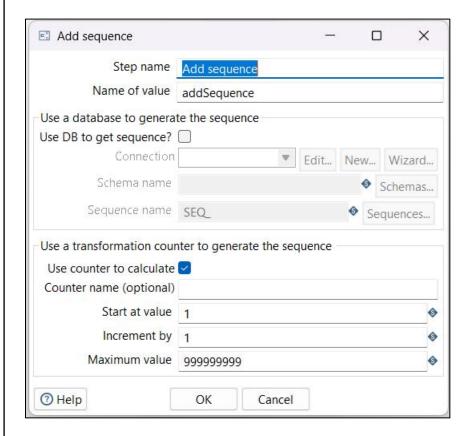
Step 2:



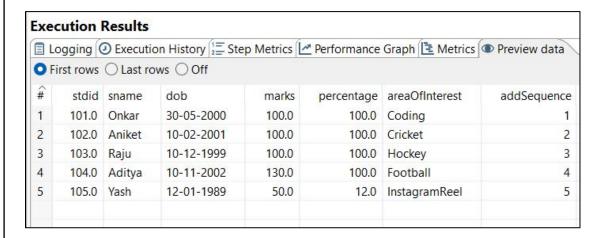
Step 3:



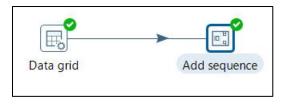
Step 4:



Step 5:



Step 6:

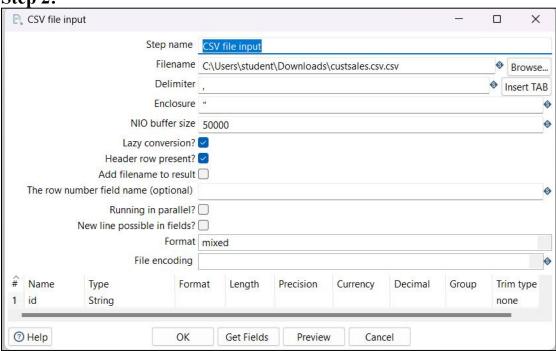


Transformation Csv File Operations on It

Step 1:



Step 2:



Step 3:

