**Name : Fenil Patel**

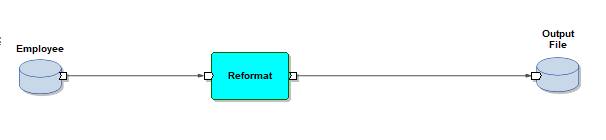
**Employee\_id:161153**

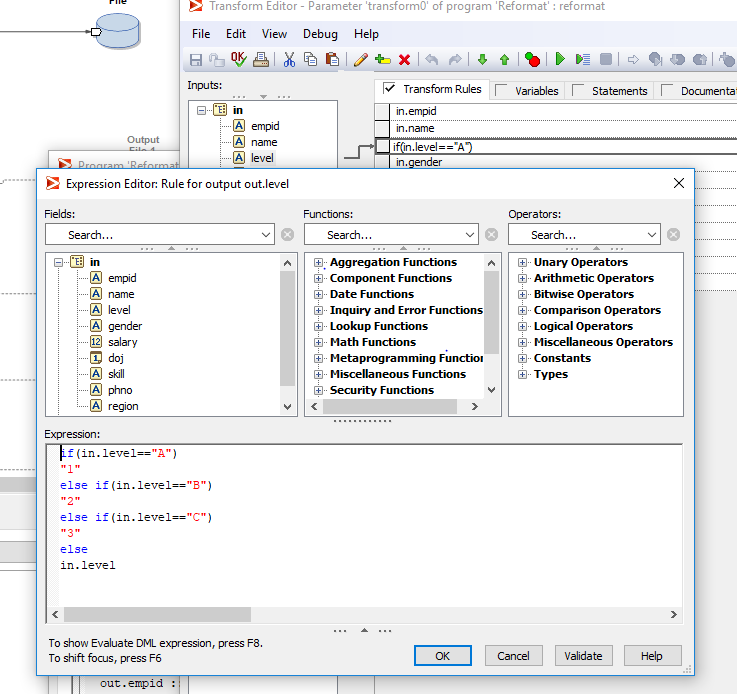
**Path: /home/fenpatel/assignment**

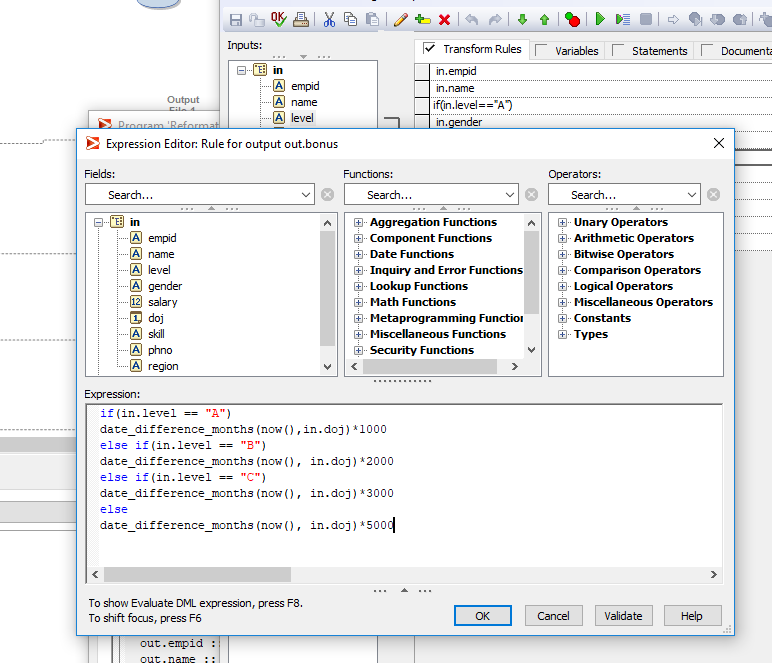
**Abinitio Lab Book2 Assignment**

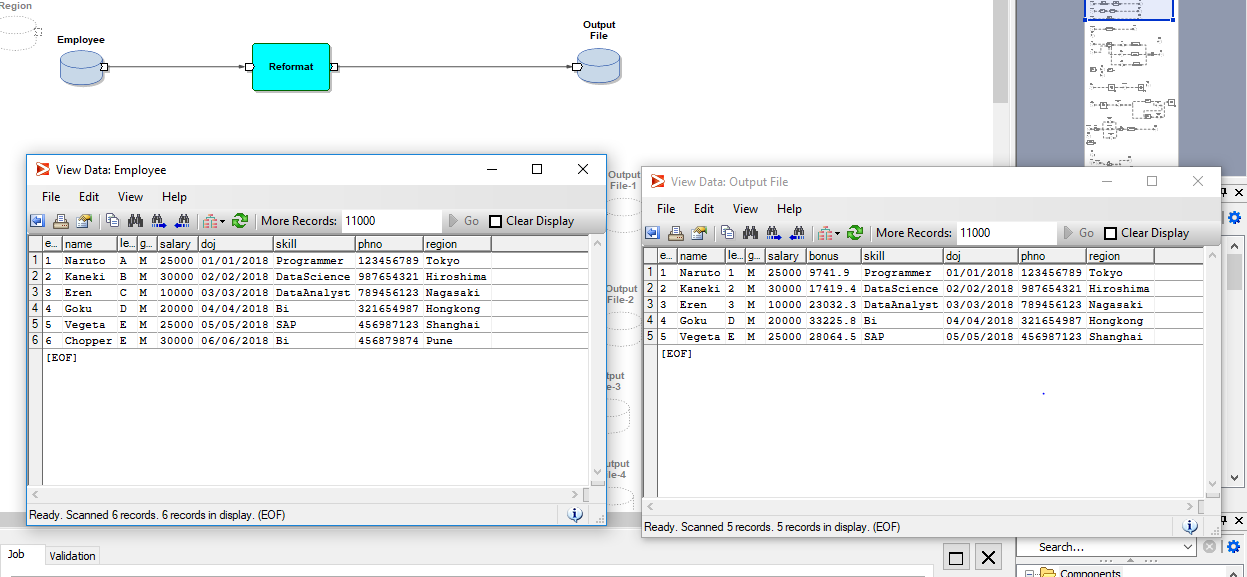
1. Filter by expression & Reformat

Develop a small graph filtering out the records having level A, B and C and replace that level with 1, 2 and 3 and according to this level give bonus to every employee with multiple of 1000 with level per month, from the date of joining to each individual. Add a column bonus in the desired output. For levels other than A, B, C gives a flat bonus of 5000 per month from the date of Joining. (Ref Emp DML).







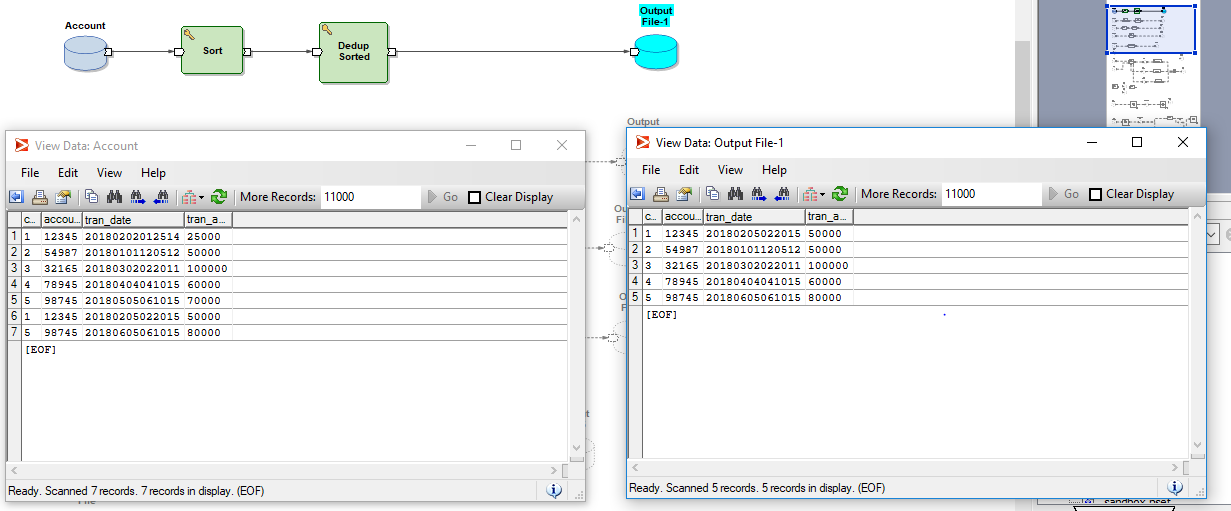


**2.Sort & Dedup**

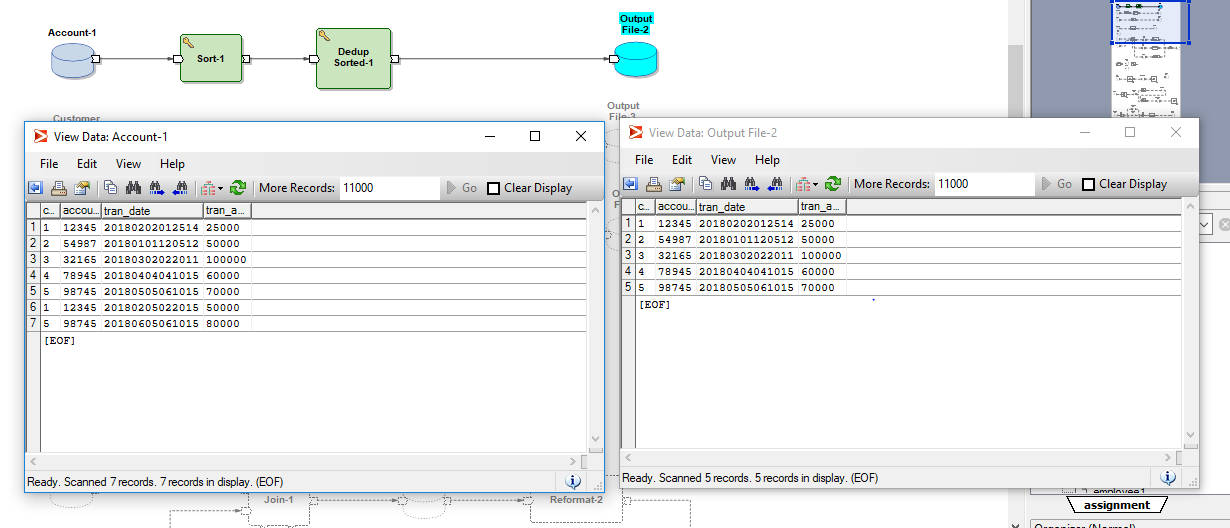
A feed file from a banking system consists of the various transactions taking place over a period of time.

Process this file as below.

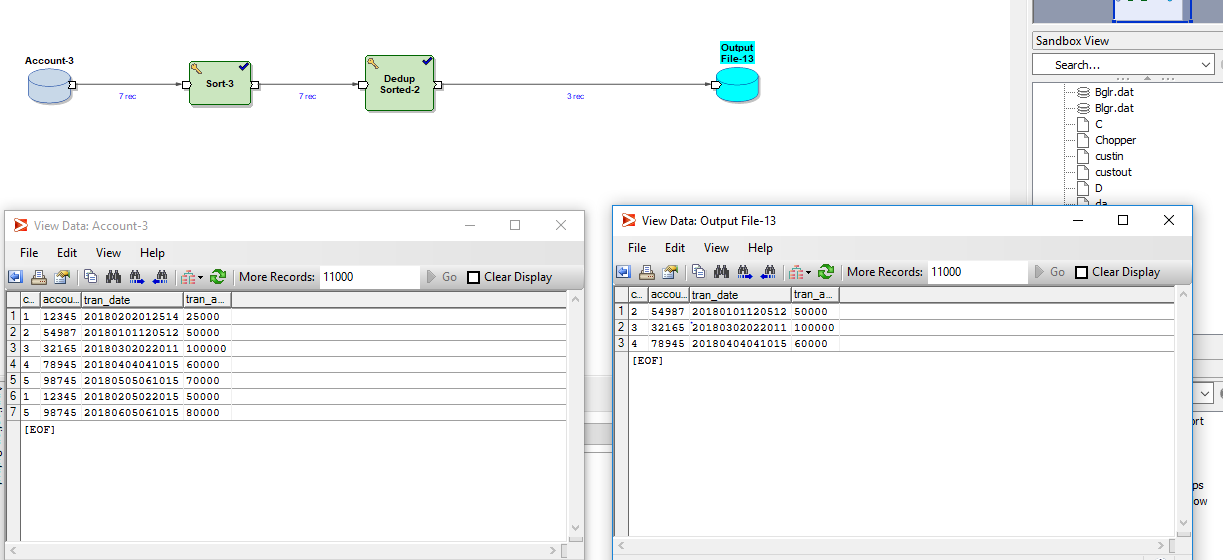
1) Obtain the transactions with the highest transaction amount for each account.



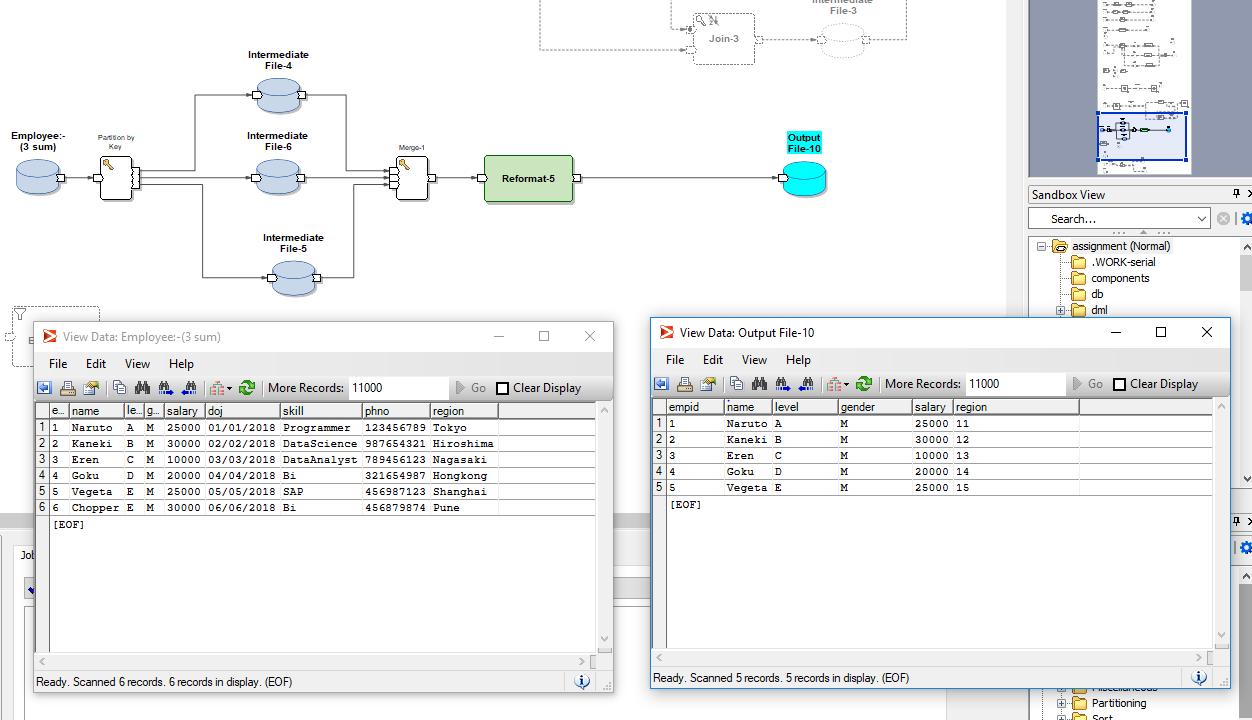
2) Obtain the transactions with the lowest transaction amount for each account.



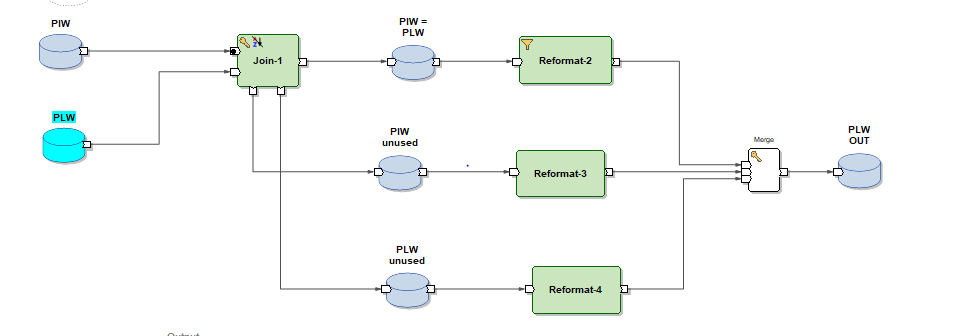
3) Obtain the accounts which have undergone only a single transaction over this period.

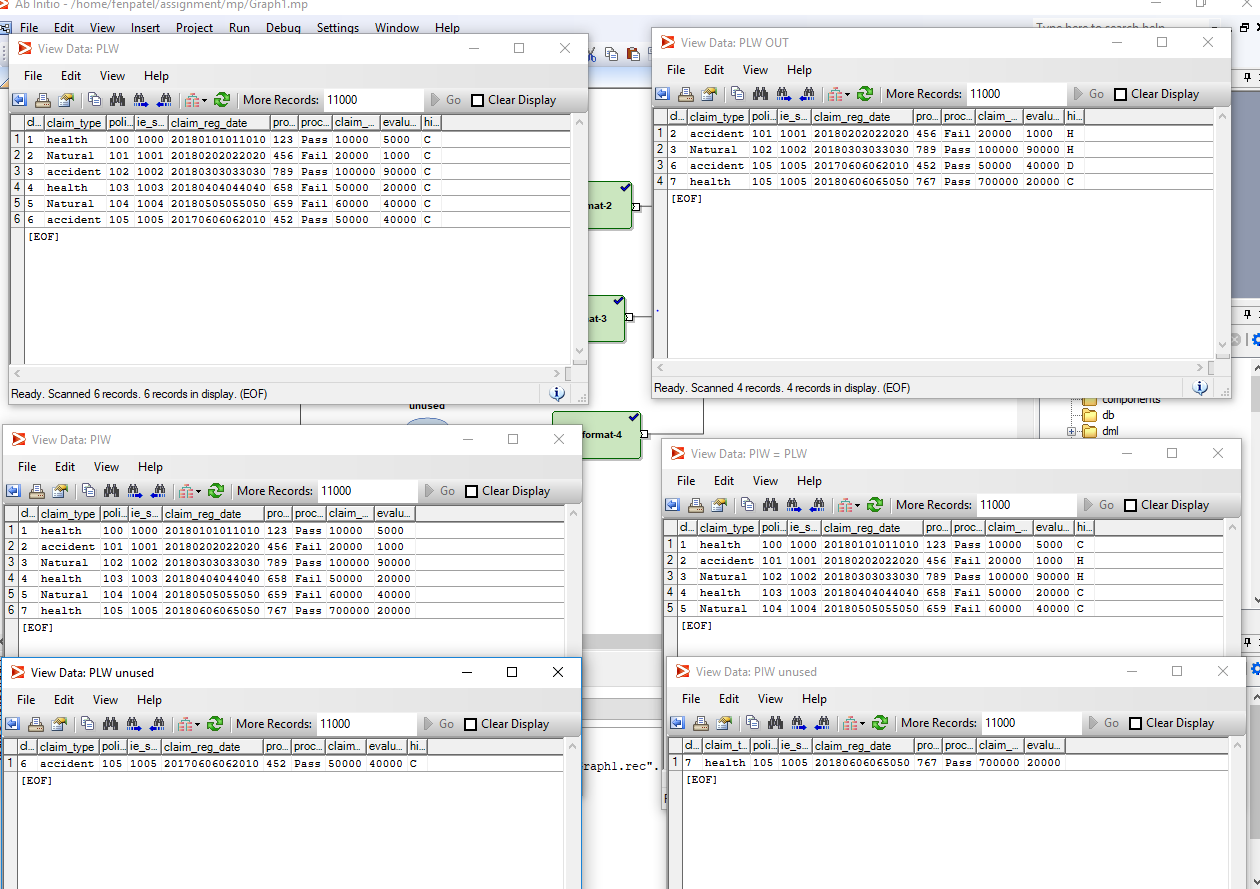


3.Partition and Departition components partition by key, gather, concatenate

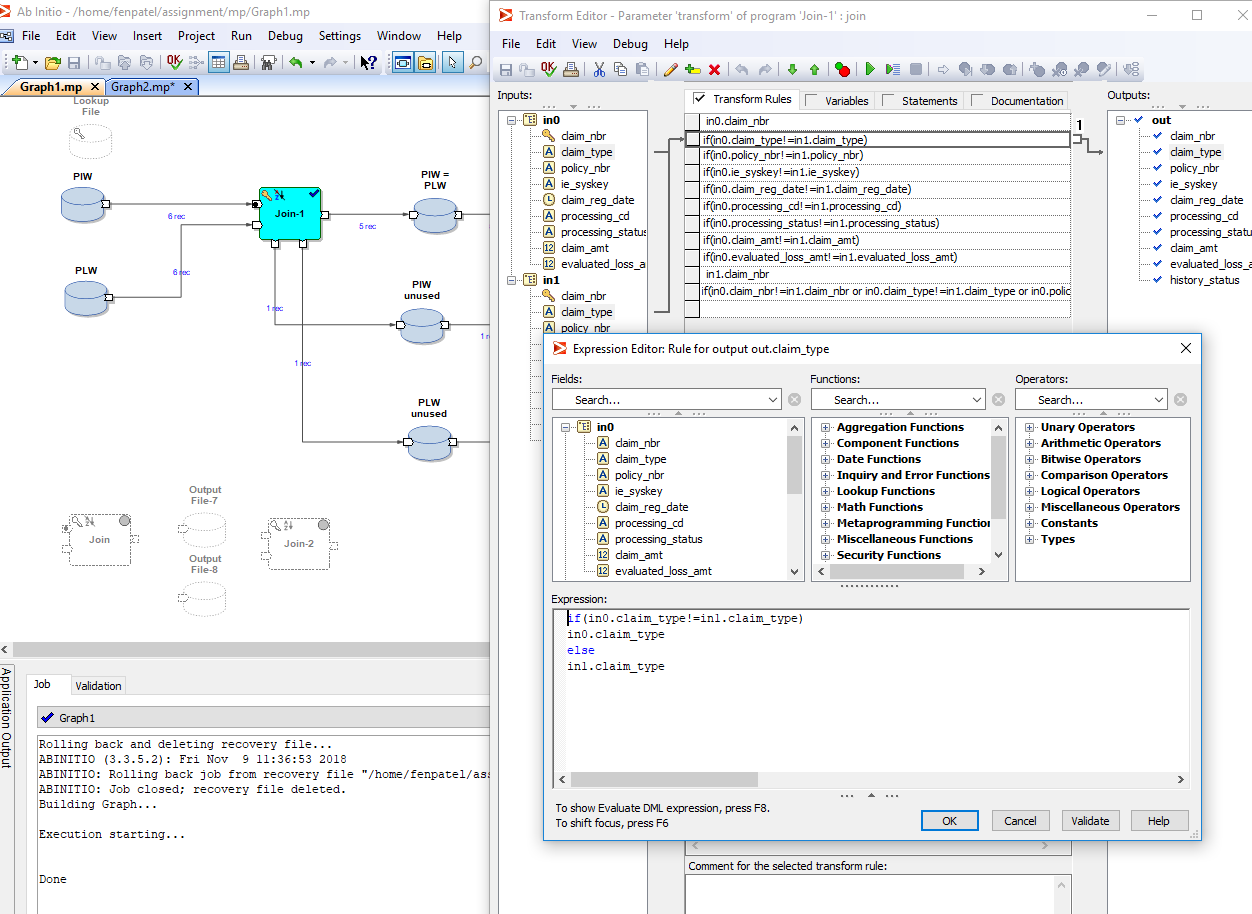


**4.Join ( Inner, Outer and Explicit)**

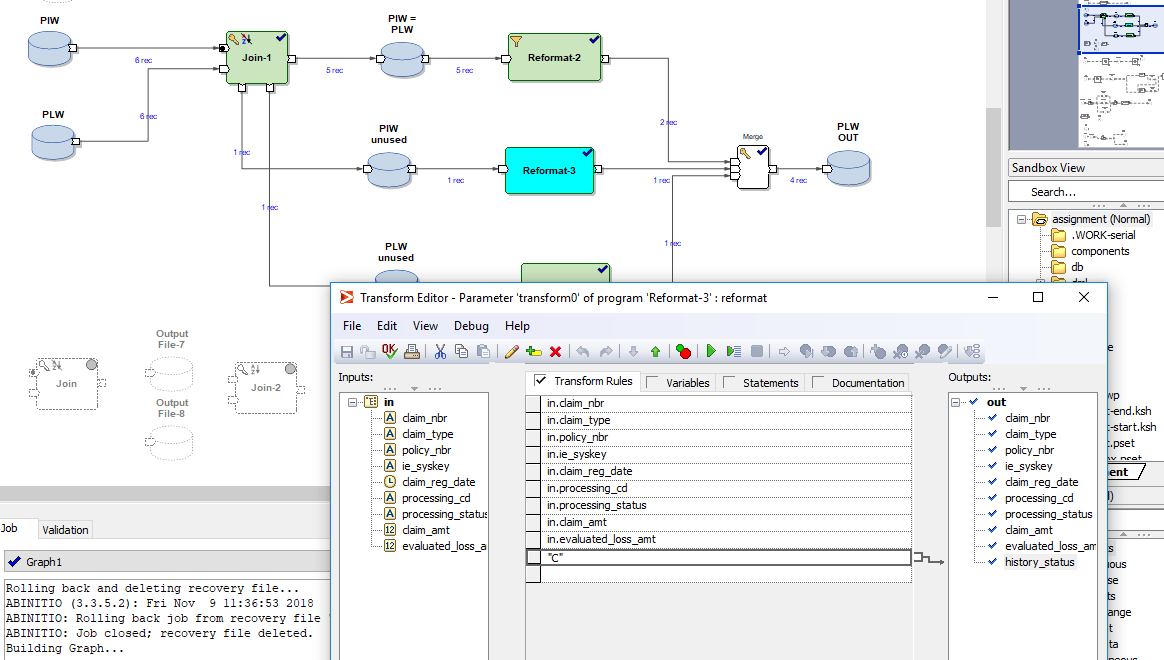




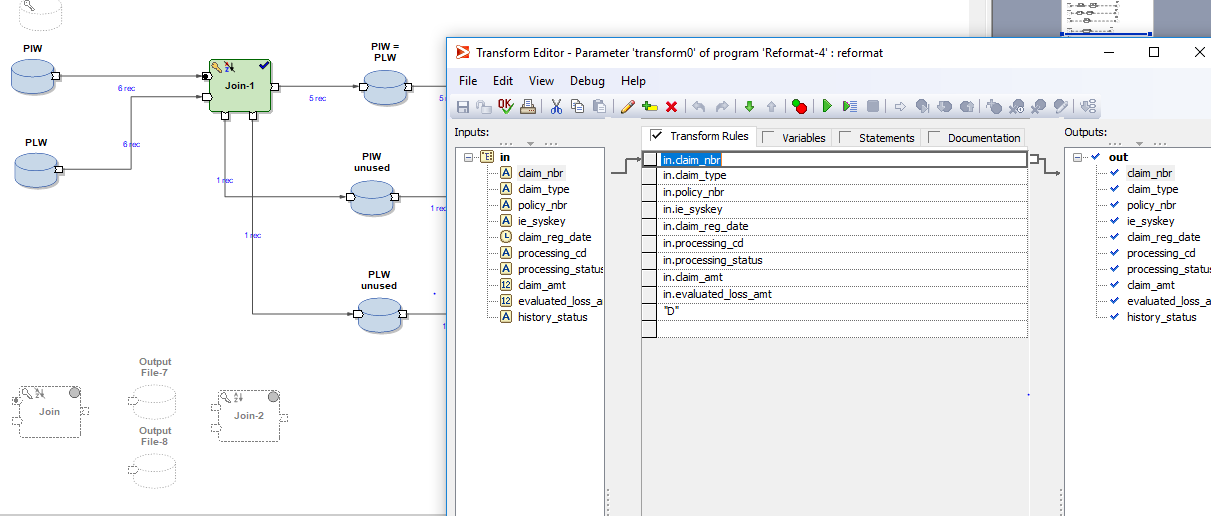
This rule goes for all columns in join reformat



For PIW unused its history status is changed to C

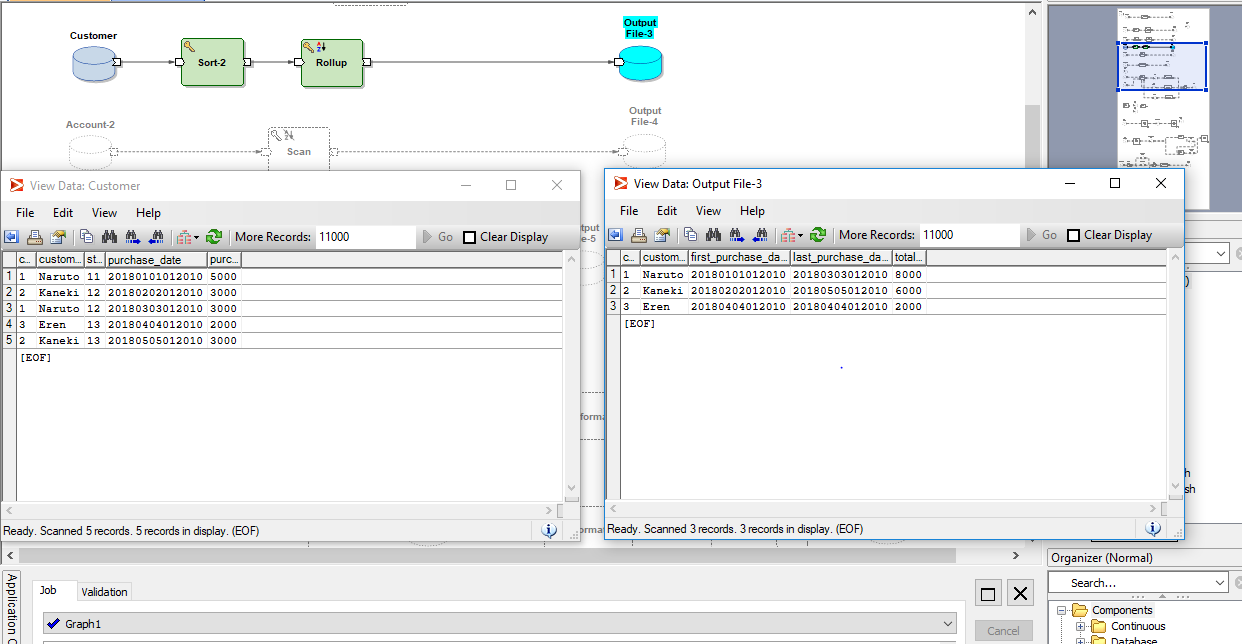


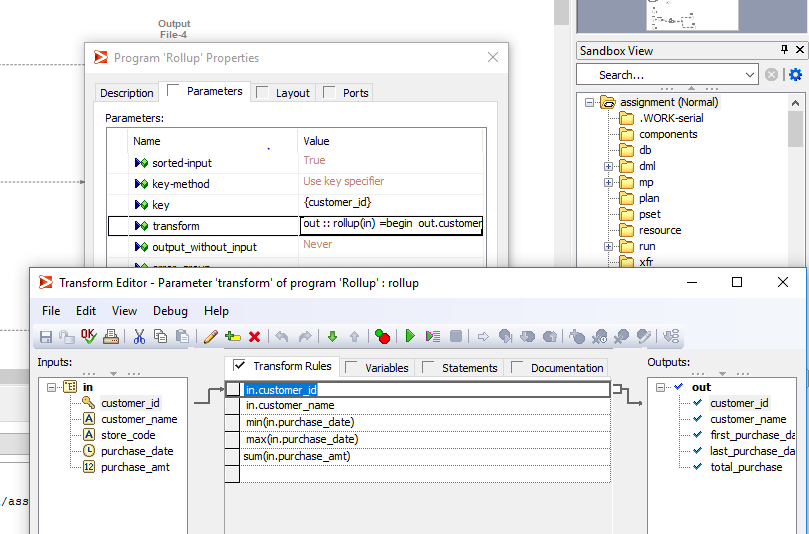
Same for PLW its D



**5.Rollup**

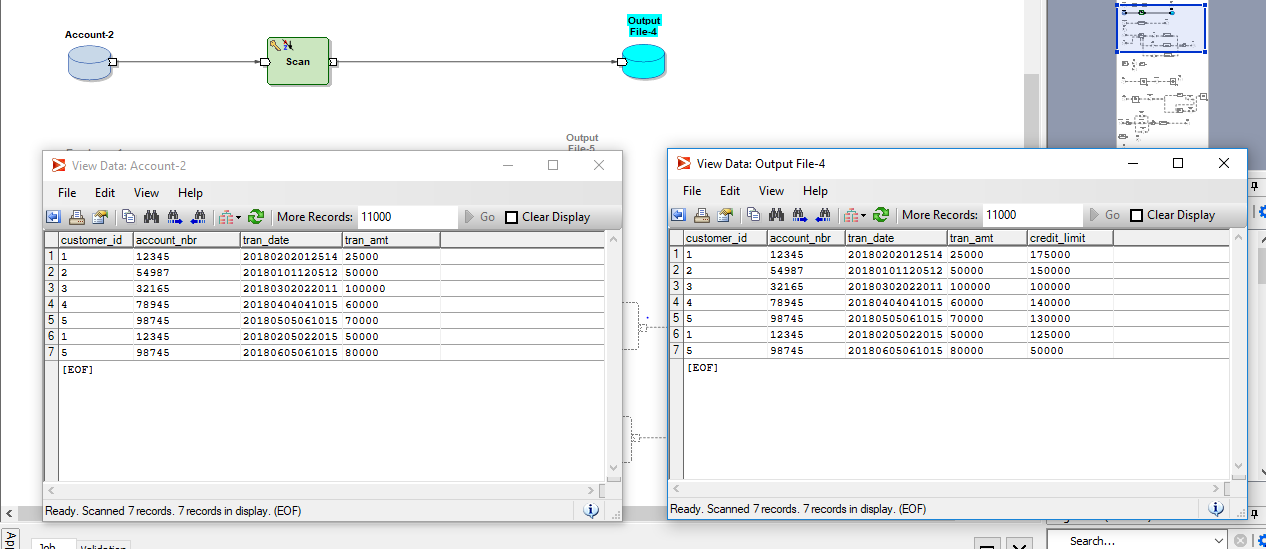
A feed file from a supermarket management system provides transaction data. It consists details like customer\_id, purchase\_date, purchase\_amount etc. Process this file to obtain the date of first transaction, date of the last transaction and the total amount purchased by each customer.

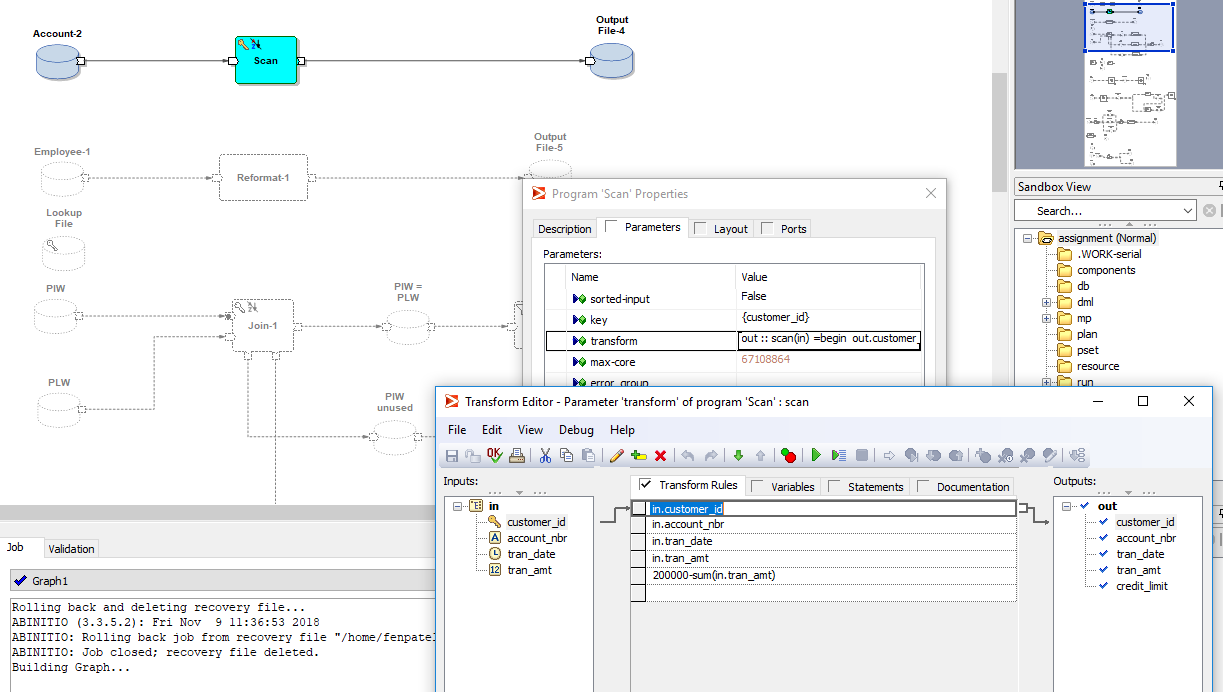




**6.Scan**

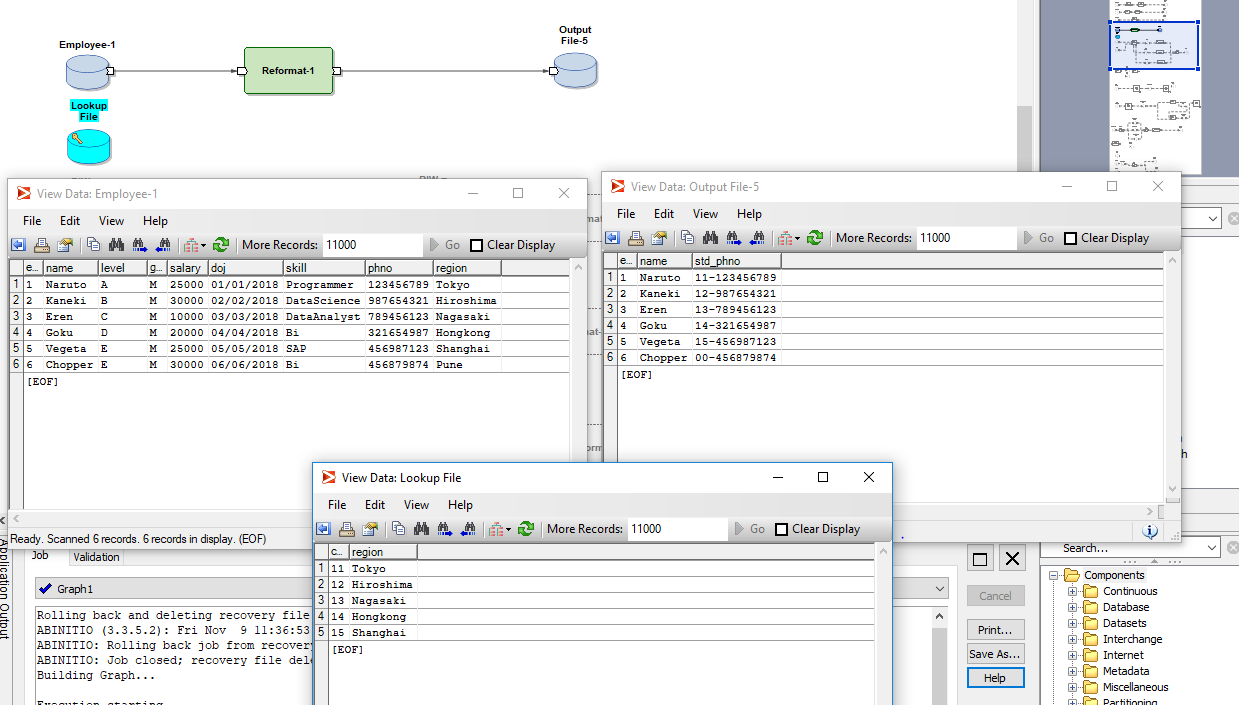
A feed file consists of transaction data from a credit card system. Details like account\_nbr, transaction\_date & time and the transaction amount are present. However the available credit limit after each transaction is not available. Assume that before the first transaction for each account the available credit limit is Rs 100000. Use the scan component to provide details about the available credit limit after each transaction.

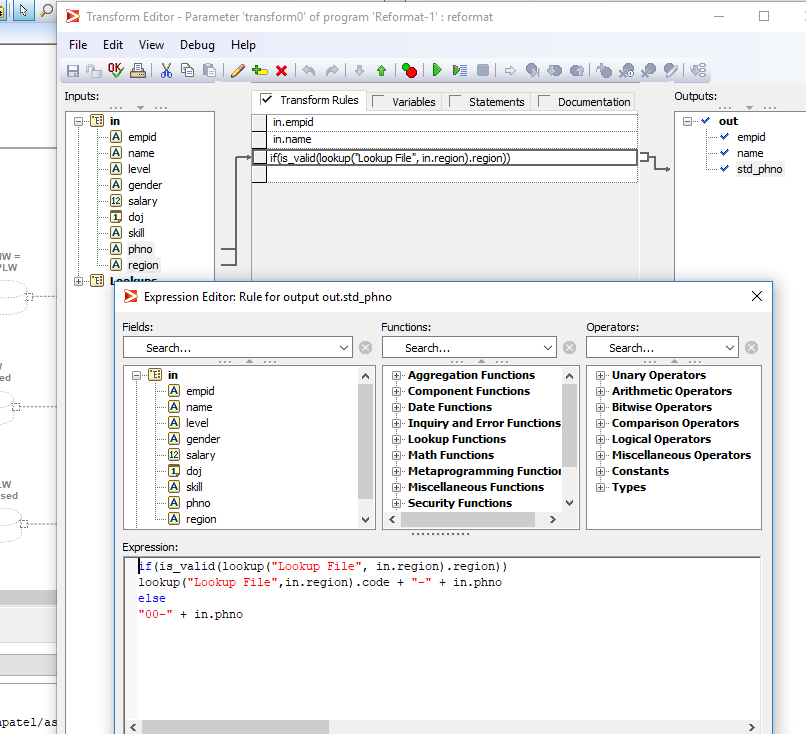




**7.Lookup**

Consider a feed file from a telecom system consisting details like phone number, region, customer\_id etc. Develop a graph to match the region with the look up and add the std\_code to phone number from the lookup in the format of (9999-99999999). If the region is not found in lookup then add default std\_code as “0000” in phone number field. (Ref. EMP DML and lookup Region)





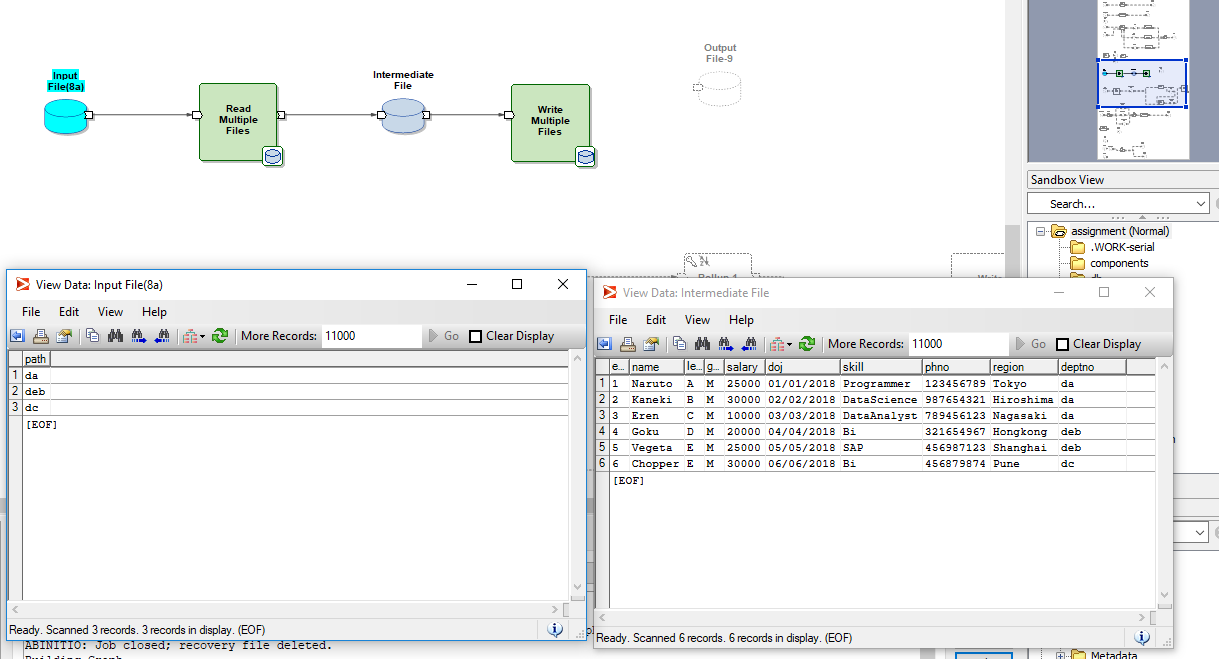
**8.Read and Write multiple files**

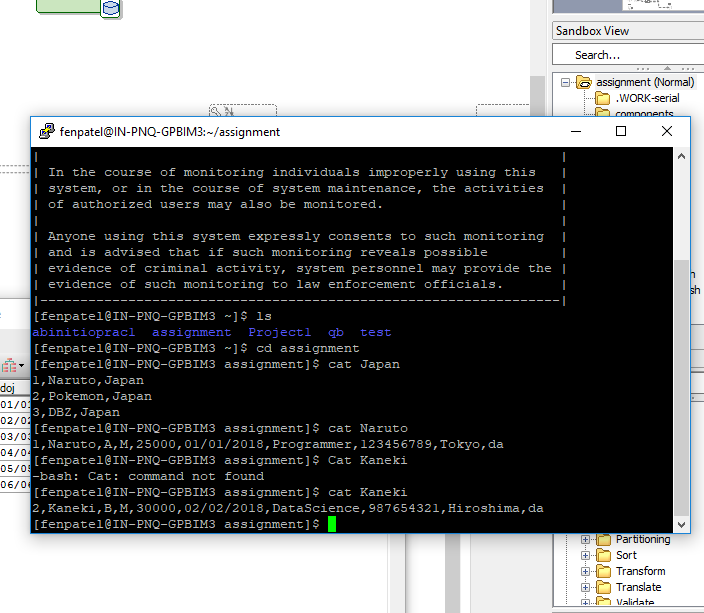
The employee detail files from departments A, B and C are available having the fields

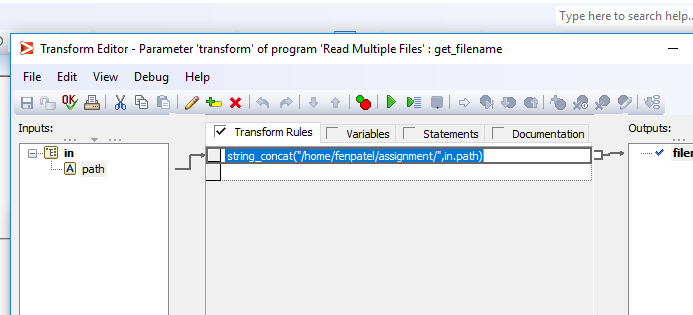
mentioned below. Every department maintains the data of all the employees working

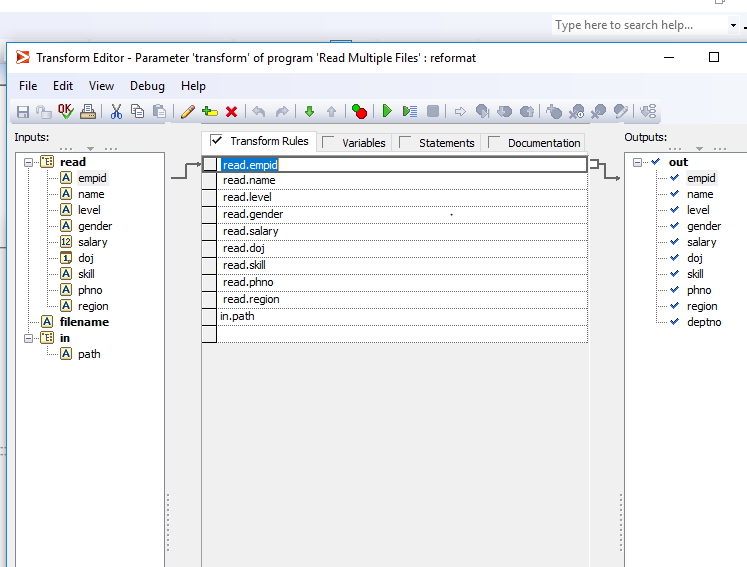
in it only. The departments have 3, 4, and 2 employees respectively.

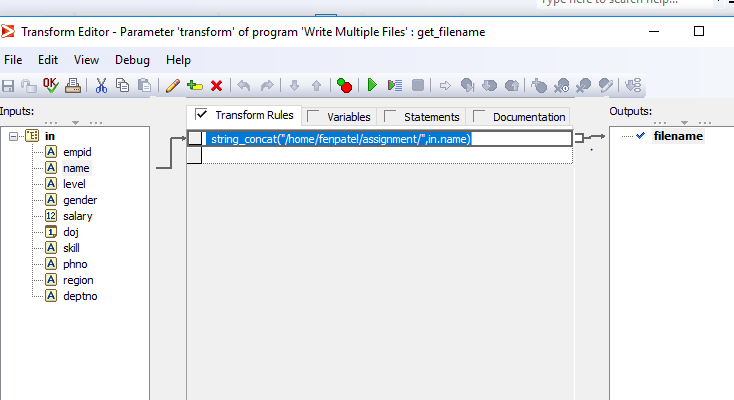
(a) Develop a graph to read the three files from the departments A, B and C and create as output a different file for each of the employees. The output files should contain a field called DEPARTMENT in addition to the fields in the input file.











(b) Develop a graph to read the three files from the departments A, B and C and create as output five different files – one each for employees at levels A,B,C,D,E. The output files should contain a field AVGEXP in addition to the fields from the input files which depicts the average work experience of the employees at that level.

