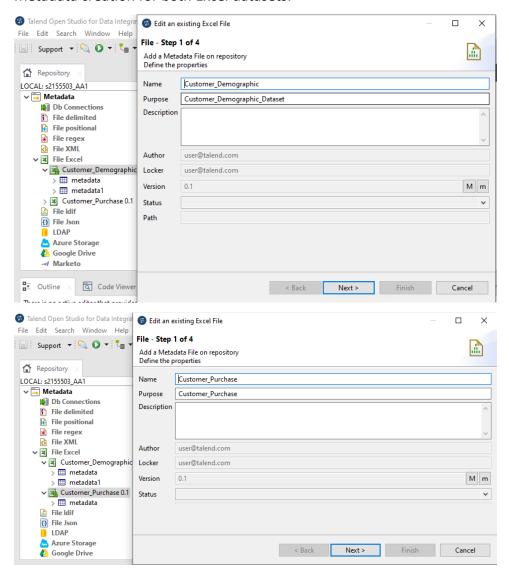
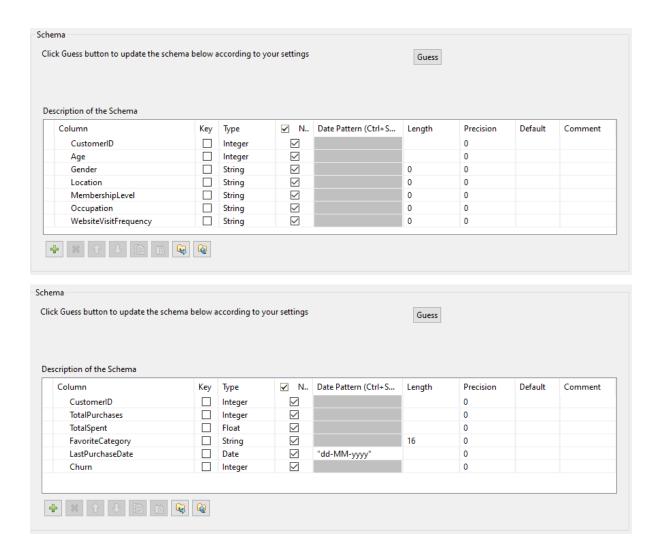
Data Integration

I utilized the Talend data integration tool to carefully combine these datasets, ensuring the seamless merging of information while preserving accuracy and integrity.

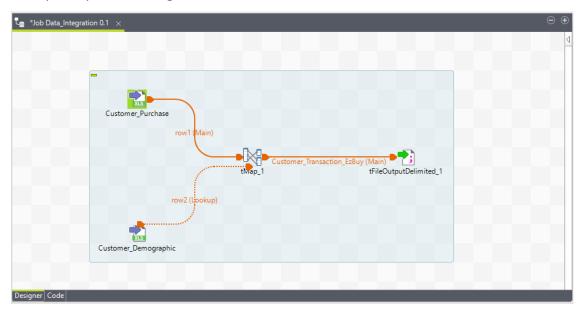
Metadata creation for both Excel datasets: -



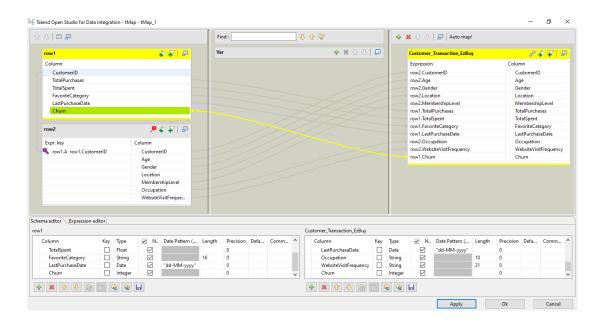
Edit Scheme and identify correct Data Type



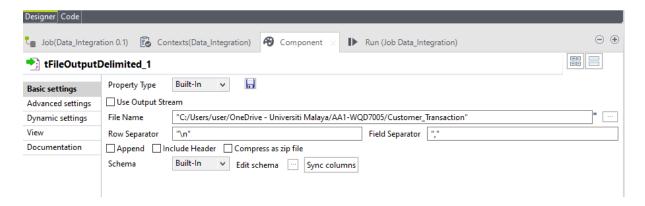
Set Up component's diagram.



In this process, I used four key components. First, source ExcelfileInput dragged from both metadata. Second component called TMap to connect the input data to the output data. Primarily serving the purpose of mapping input data to output data. This involves the transformation of one schema into another, ensuring seamless data integration. Lastly, TOutputDelimited facilitates the outputting of the processed data to a delimited file, adhering to the defined schema.

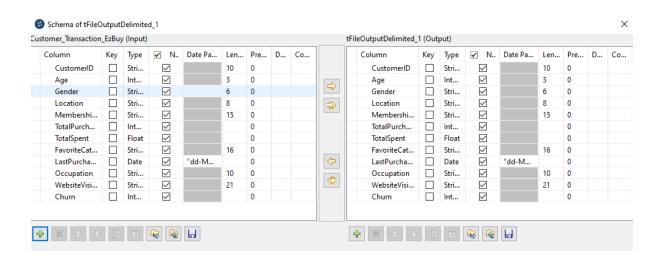


The component TMap figure above shows how was used to map both datasets, using a unique common key, the customerID from both datasets, to bring all the records together.



To ensure that TOutputDelimited functions as intended, it's important to follow a series of steps. First, we must verify the designated output path, making sure it's correctly specified.

Secondly, we should set the field separator to a comma (","), which defines how the data is separated in the output file.



Lastly, to ensure that all columns from the input schema are correctly copied over to the output schema. This process guarantees that the data is formatted and exported accurately in accordance with the defined criteria.

APPENDIX

