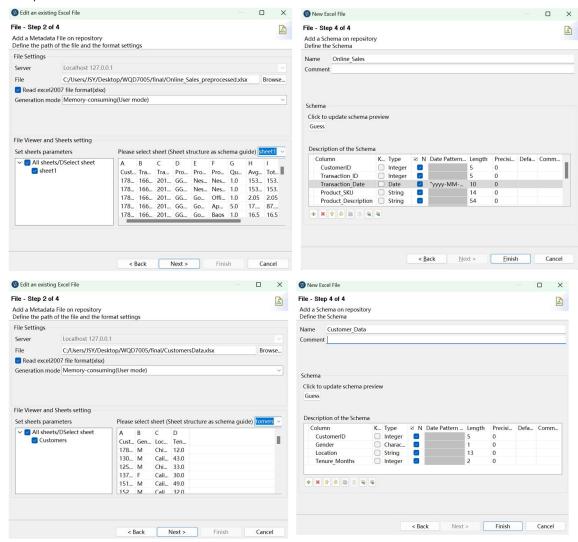
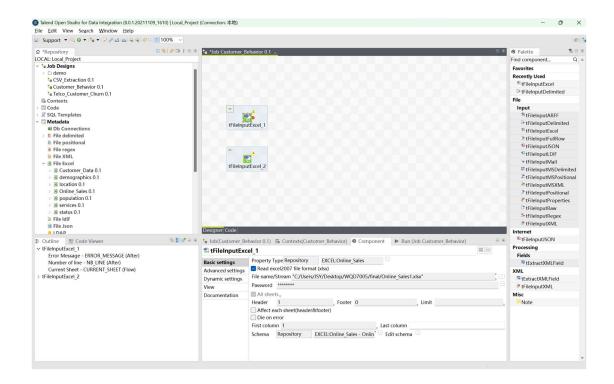
## **Data Integration Using Talend Open Studio**

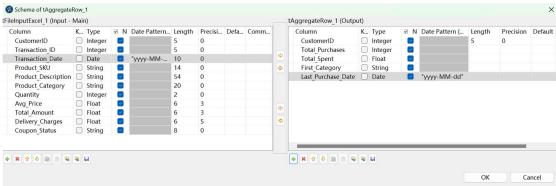
Import CustomerData.xlsx and Online\_Sales\_preprocessed.xlsx, and justify the data pattern:

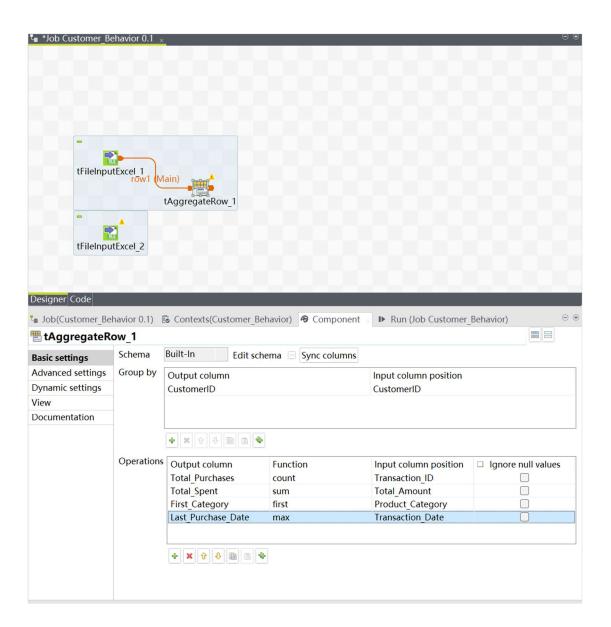


Create a new job named 'Customer\_Behavior' and load Online\_Sales and Customer\_Data files in the tFileInputExcel components:



Add columns of Total\_Purchases, Total\_Spent, First\_Category, Last\_Purchased\_Date, and get these data from count of TransactionID, sum of Total\_Amount, first of Product\_Category, and max of Transaction\_Data, separately using Operations in tAggregateRow component:





Join the output of Aggregation and the CustomerData file using tMap component, and run the whole working process, then we get one combined dataset named Customer\_Behavior.xlsx, having 8 columns of CustomerID, Gender, Location, Total\_Purchases, Total\_Spent, First\_Category, Last\_Purchased\_Date, and Tenure\_Months, with 1468 customers' rows.

