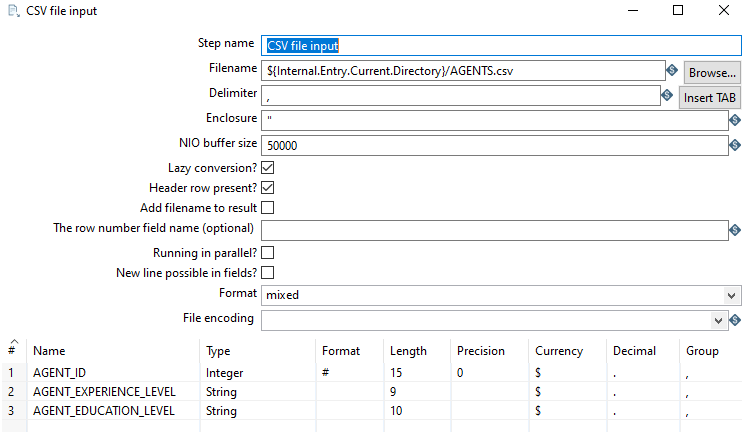
**Extract Transform Load (ETL) Using Pentaho Data Integration:**

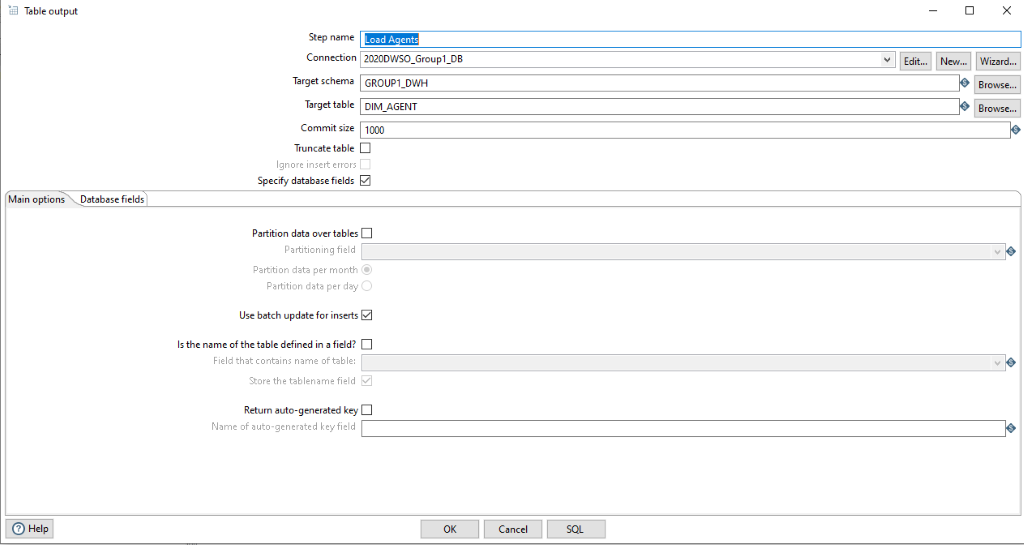
DIM\_AGENTS

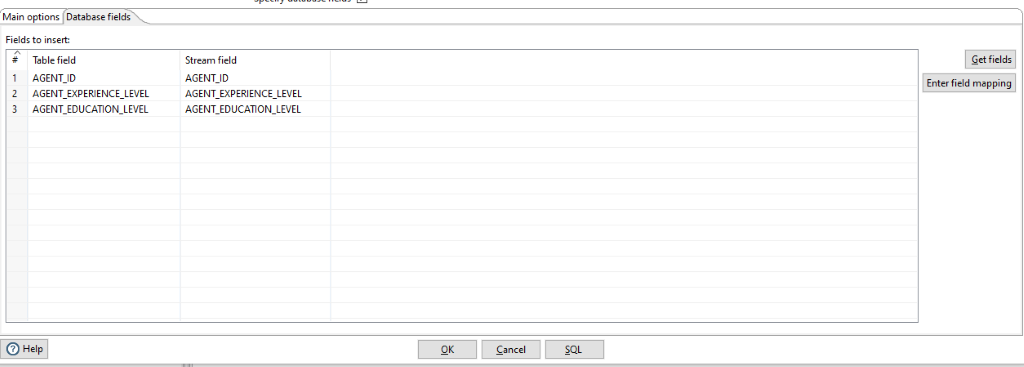
In order to successfully load type 1-dimension, DIM\_AGENTS, we followed the steps below:

1)We first imported the file by using the CSV file input.



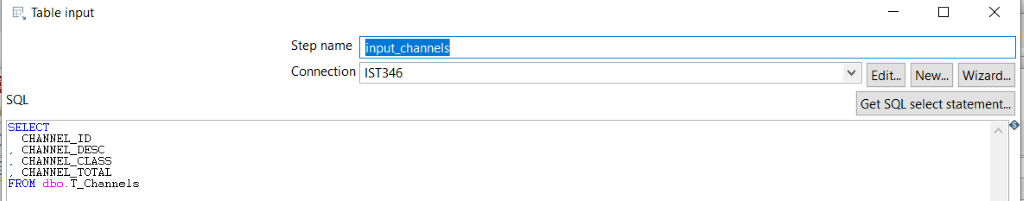
As there is no need for any data transformation, Table Output was used to load data into the target DIM\_AGENTS table.



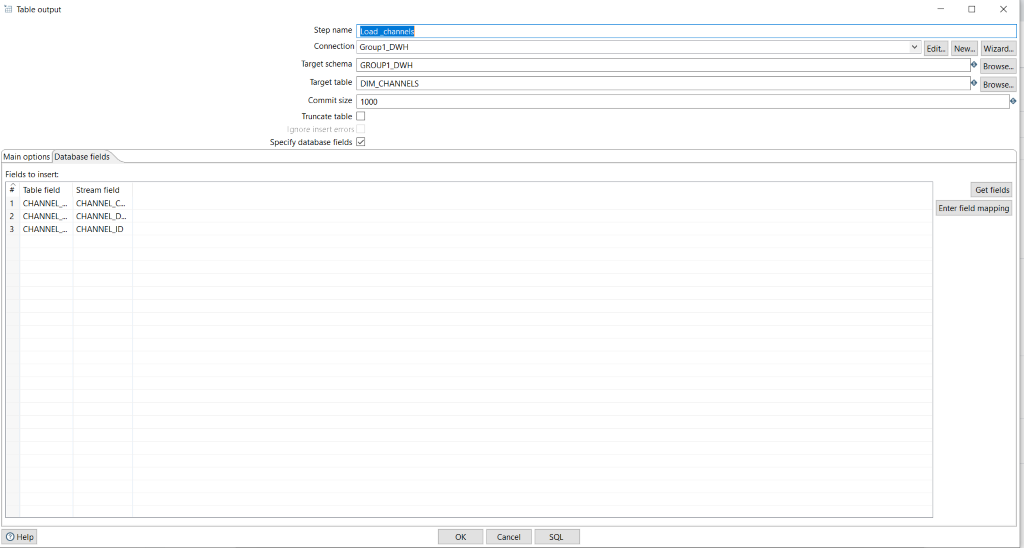


DIM\_CHANNELS:

Step1: We first access the Source table in IST346 dbo schema by using Input Table:

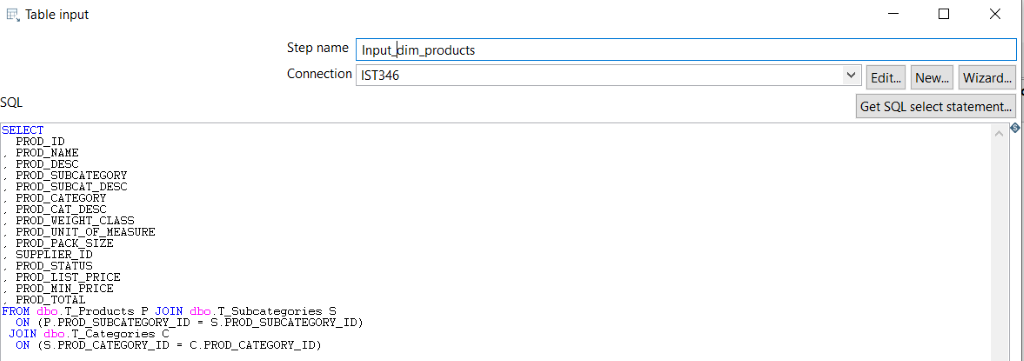


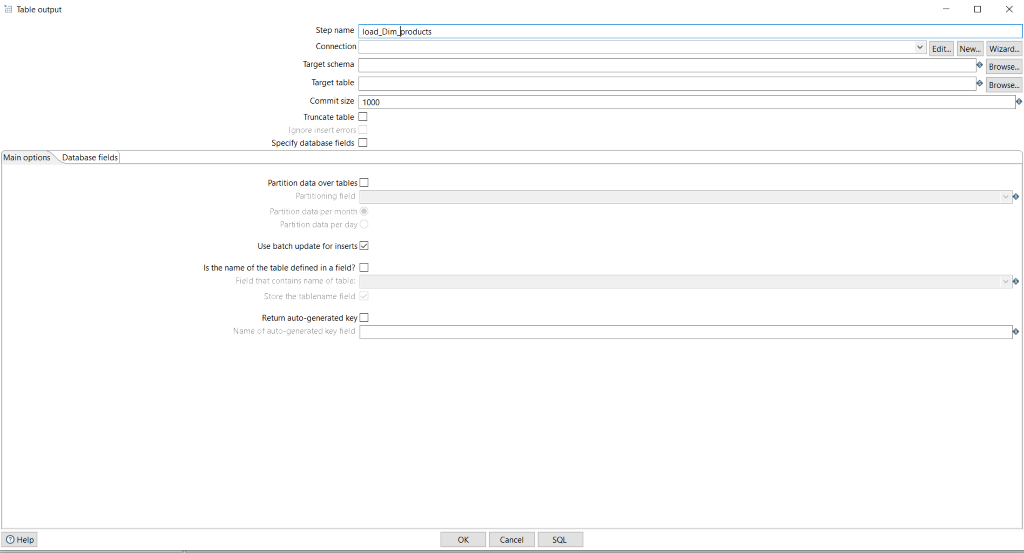
Step2: Then we use Table Output to load data in our target table in 2020DWSO\_GROUP1\_DWH



DIM\_PRODUCTS:

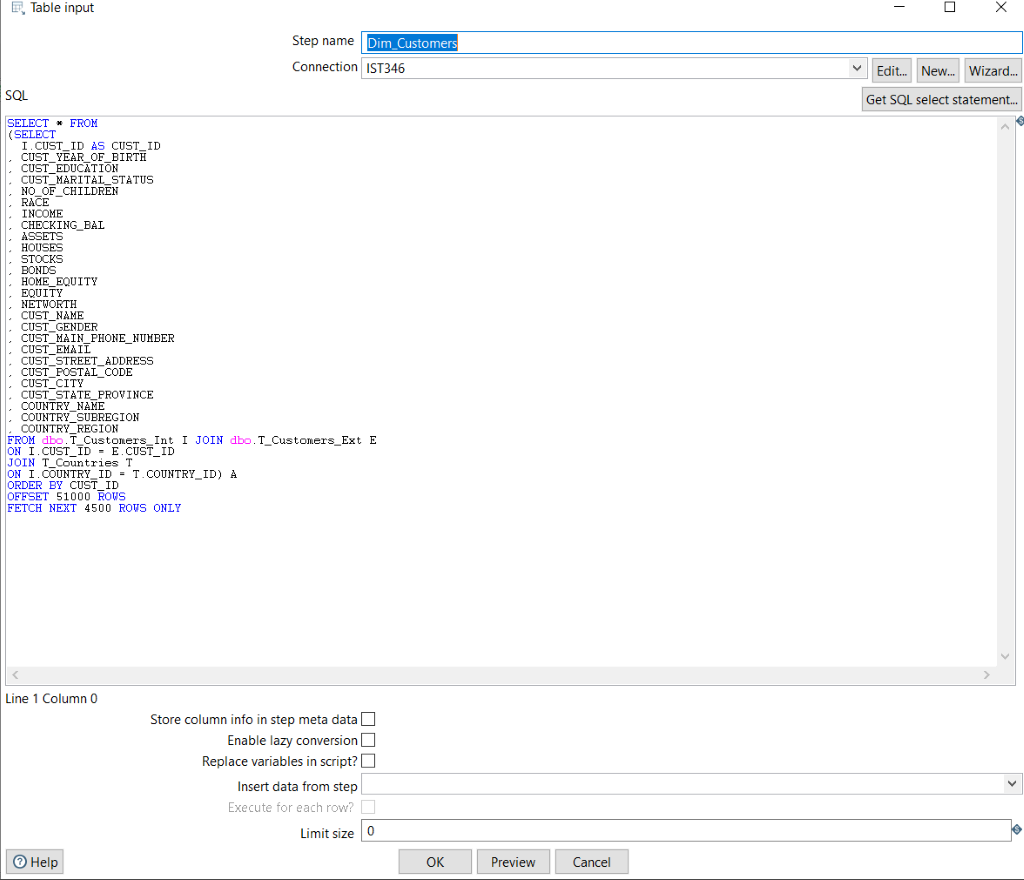
Step1: We followed the same steps as described in the previous transformation

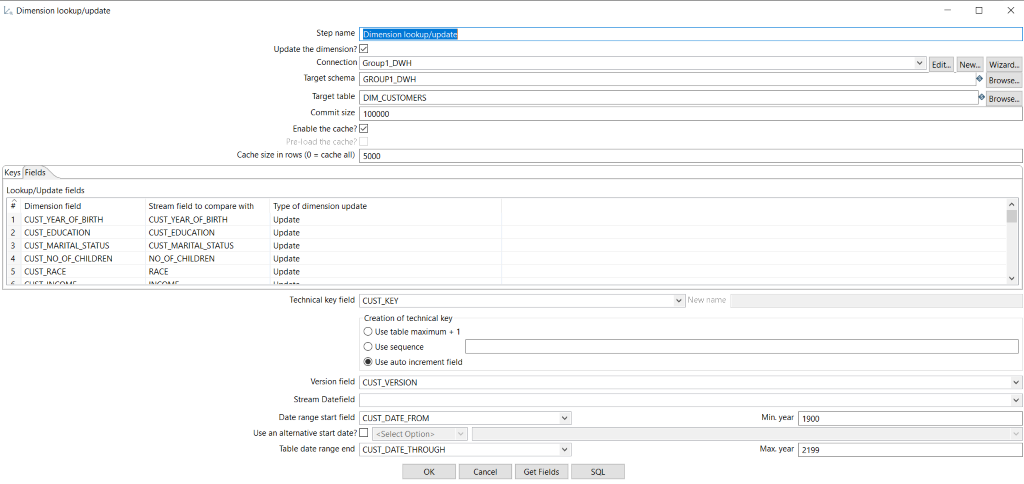




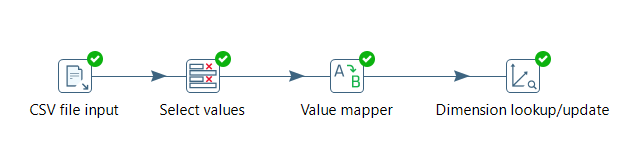
DIM\_CUSTOMERS:

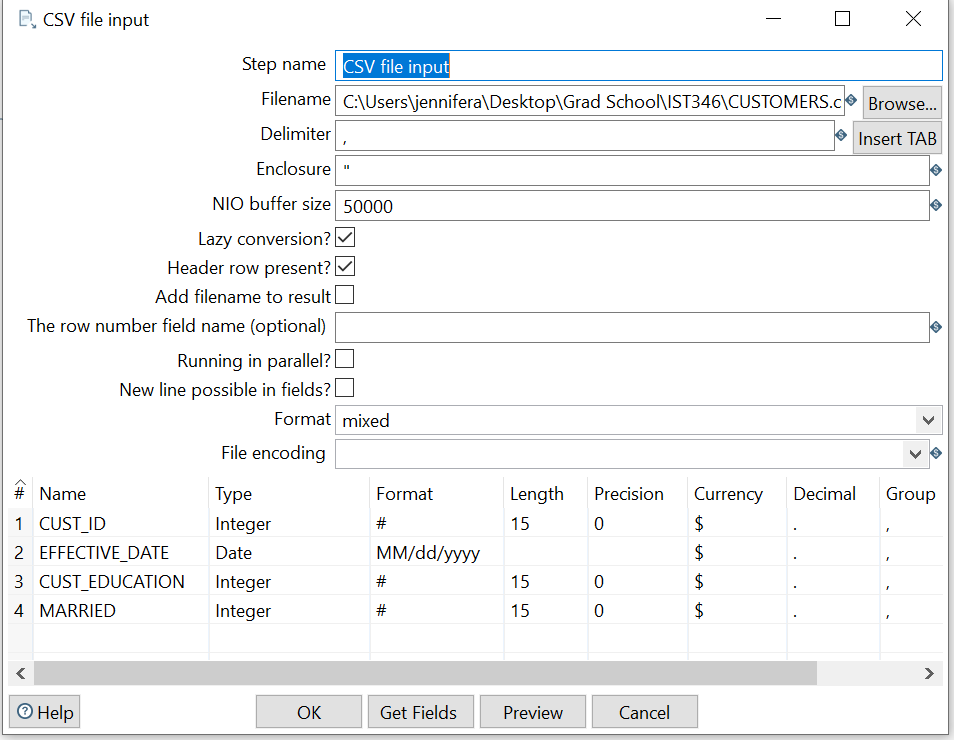
The ETL process method used is type 2 dimension as shown in the step below:

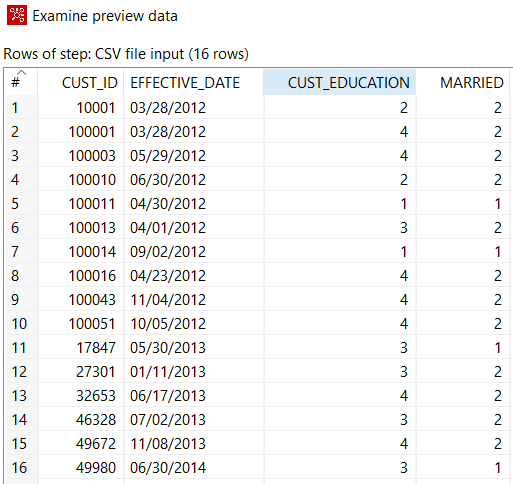


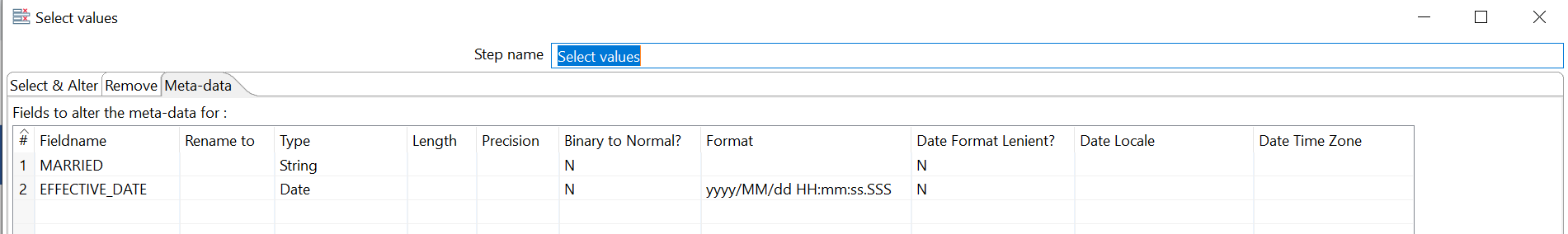


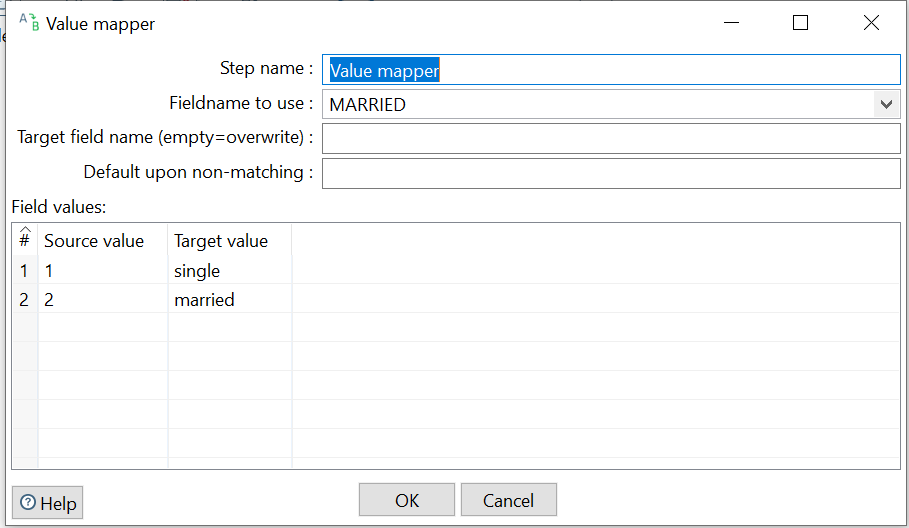
Then, we updated DIM\_CUSTOMERS by loading additional data from the csv input file “CUSTOMERS\_ADJ.CSV”:

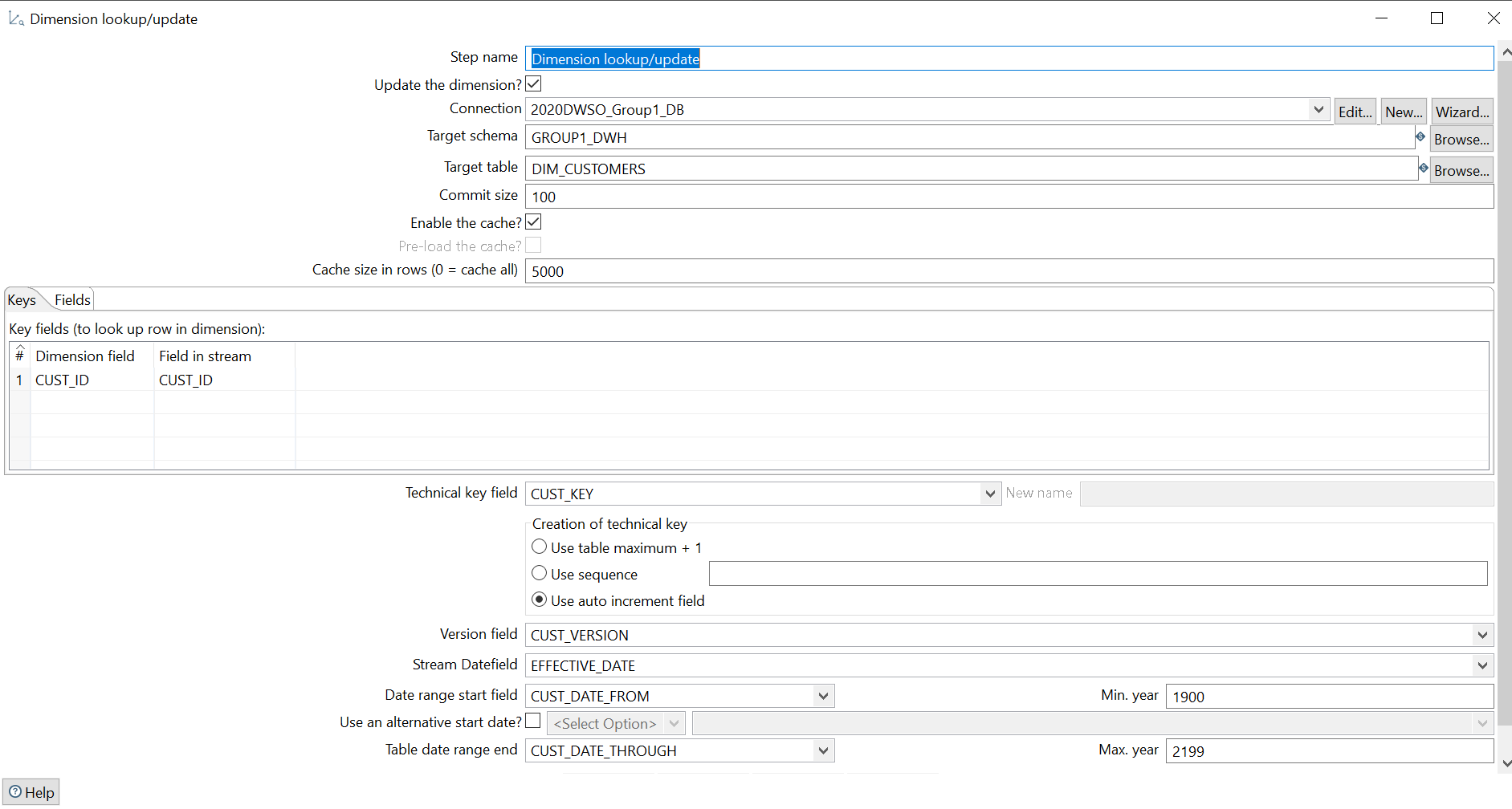


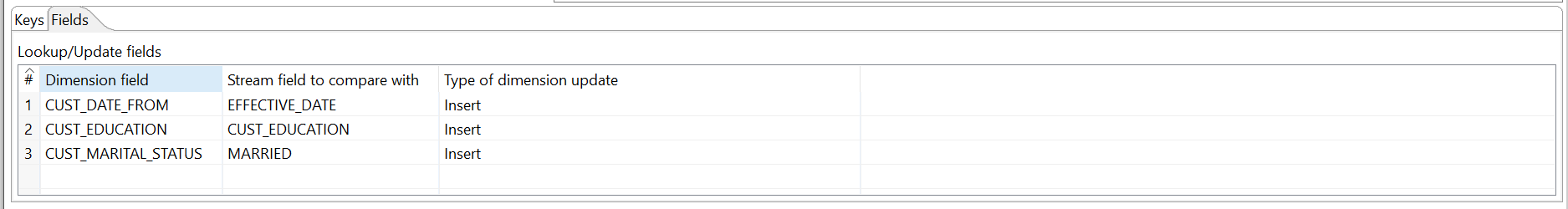






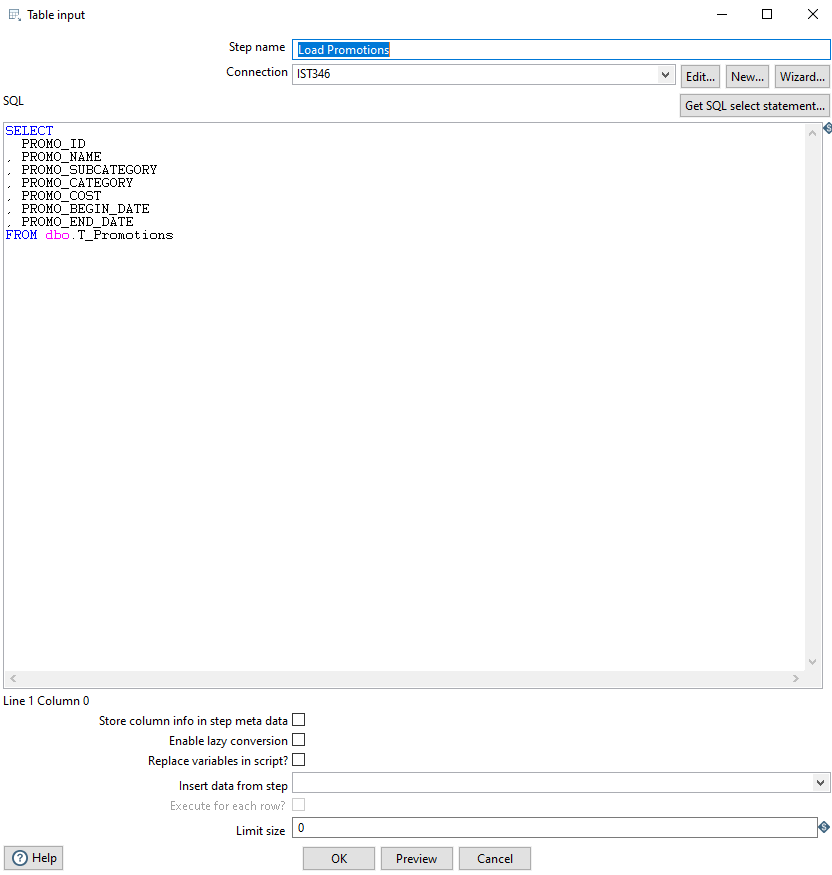


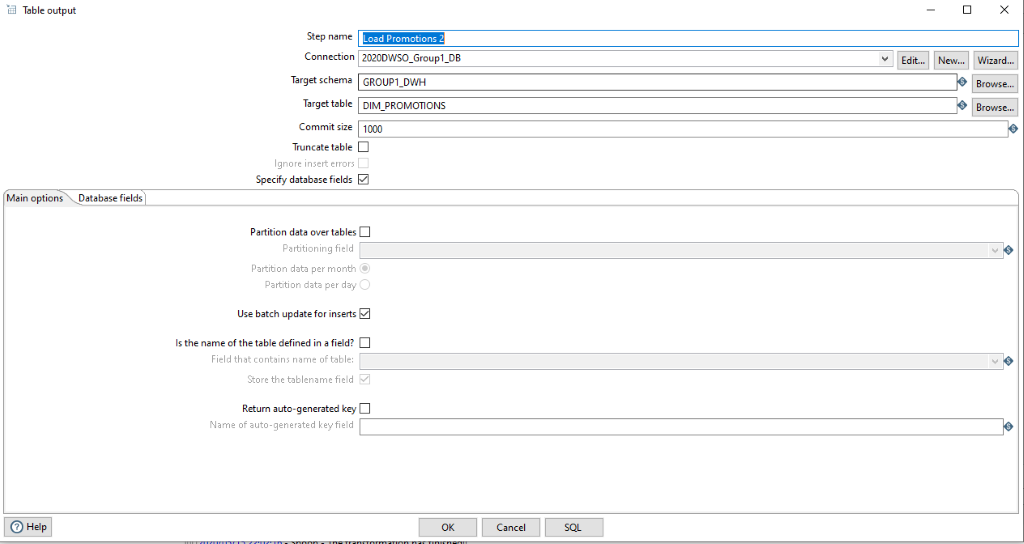


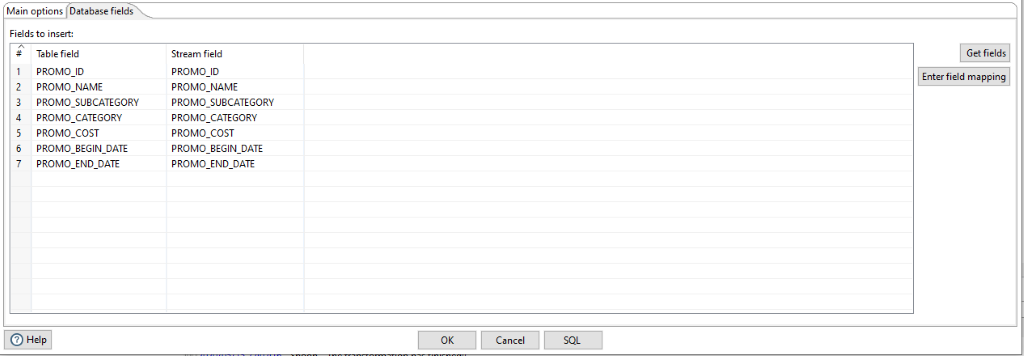


DIM\_PROMOTIONS

Again, we followed the same steps as described in the previous transformations.

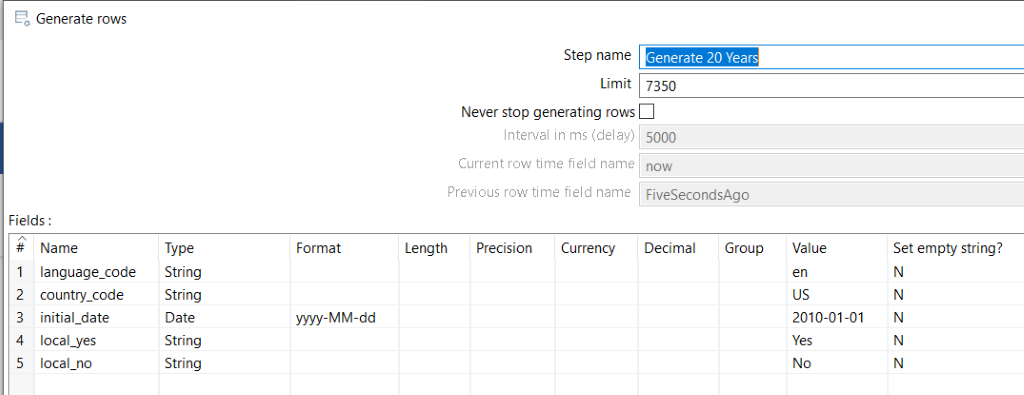


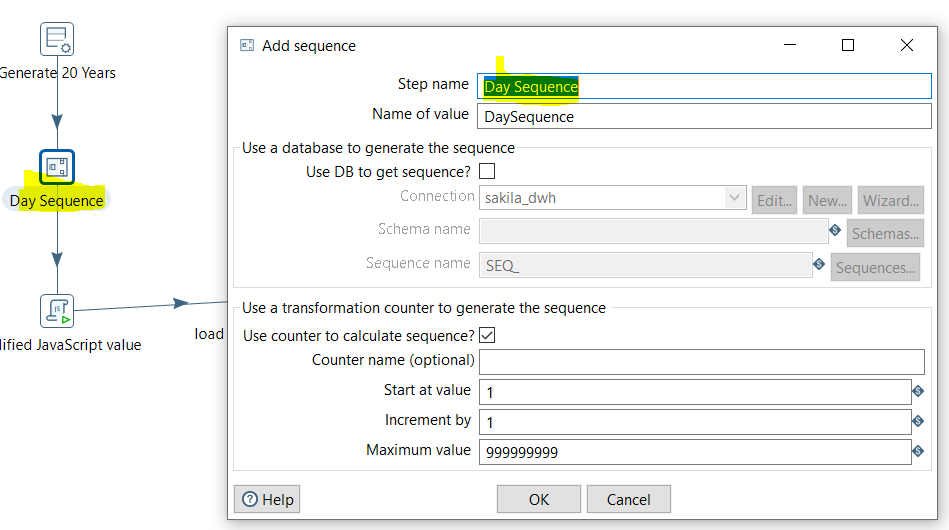


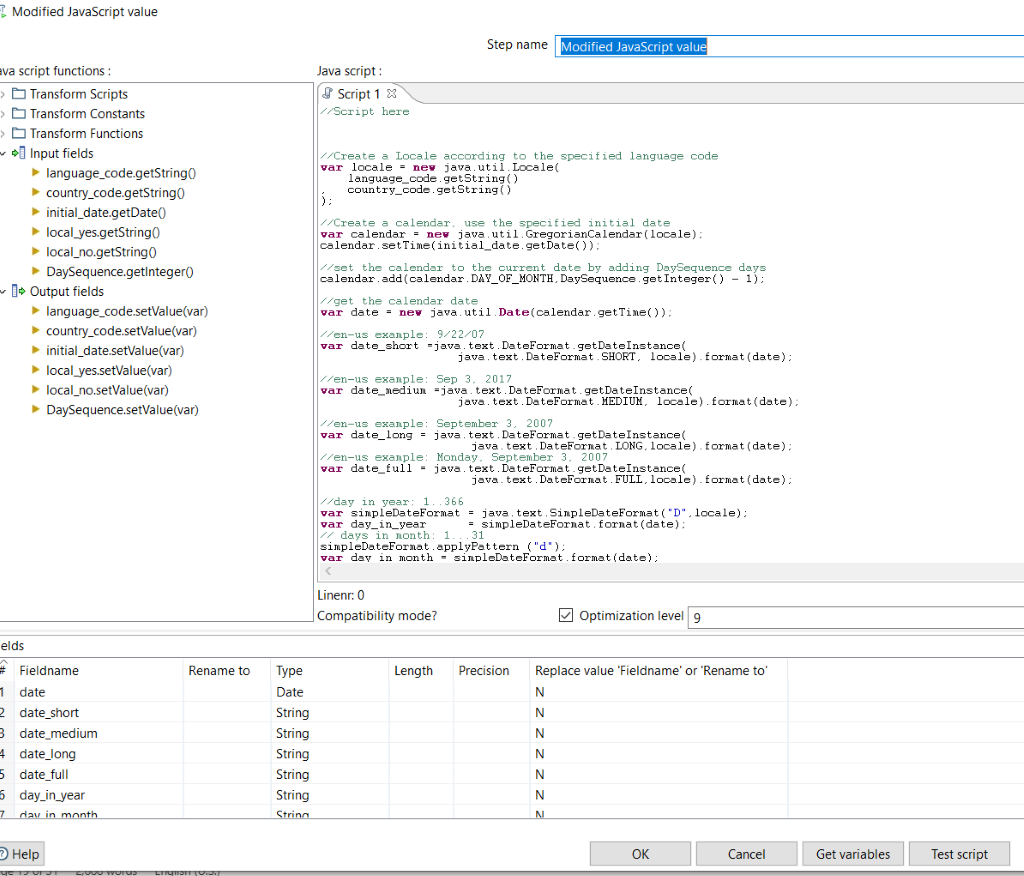


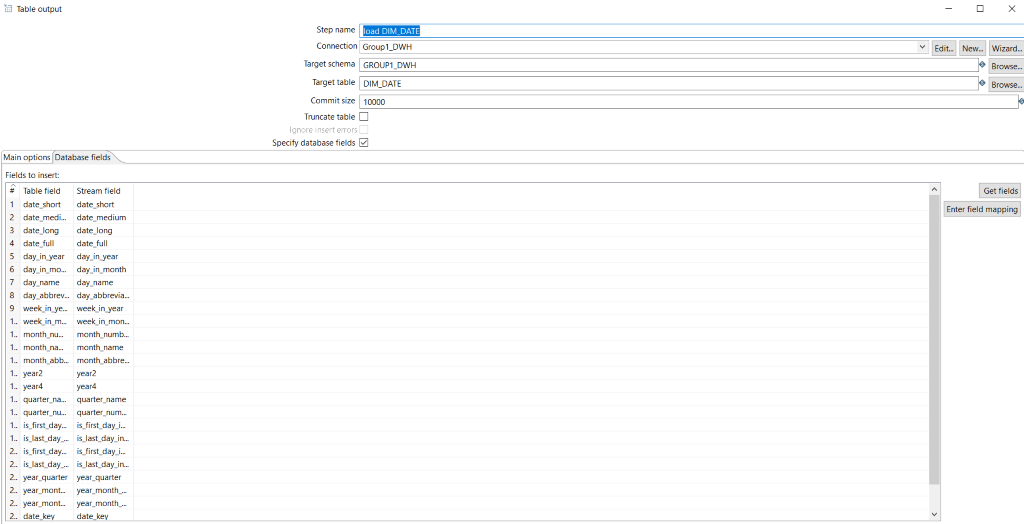
DIM\_DATE:

Step 1: We generated 20 years by using generate row.





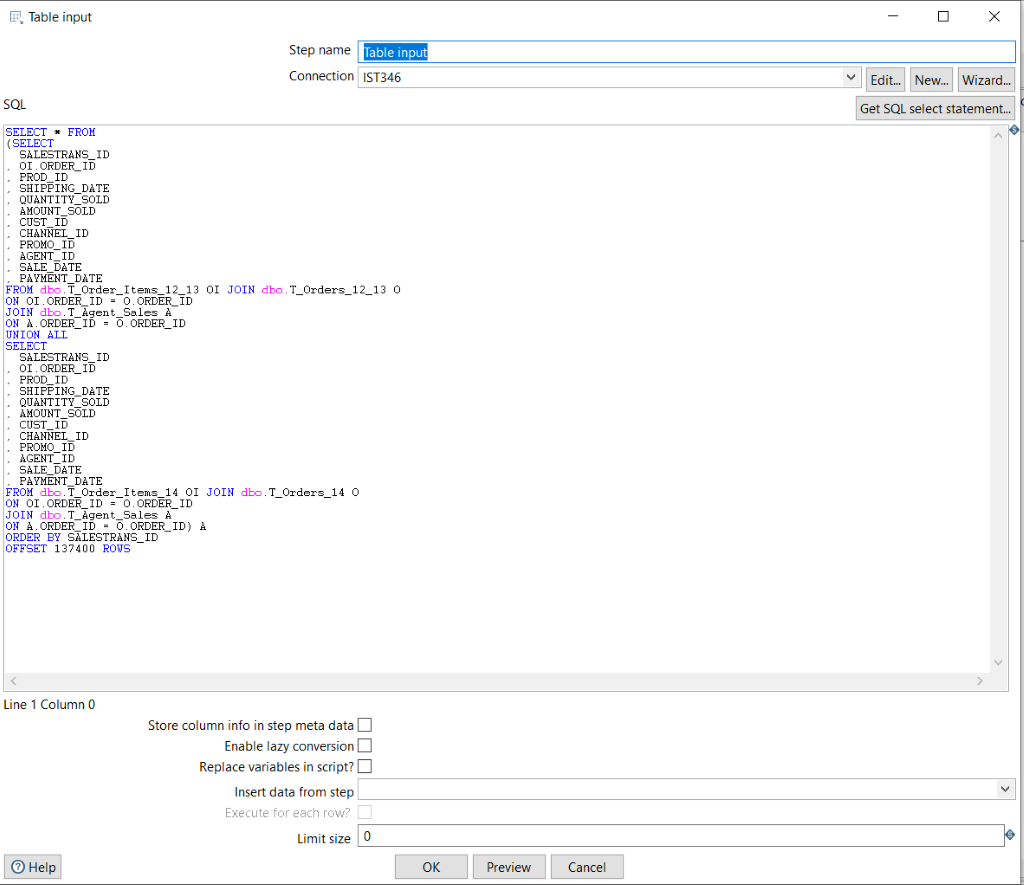




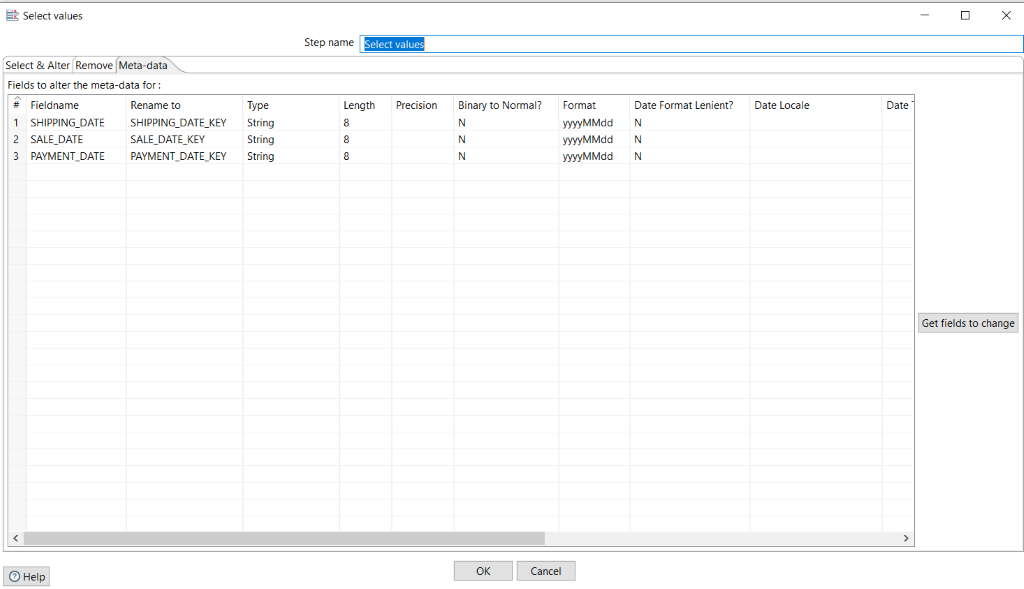
FACT\_ORDERS :

We use type 2 transformation to successfully load our FACT table as shown in the steps below:

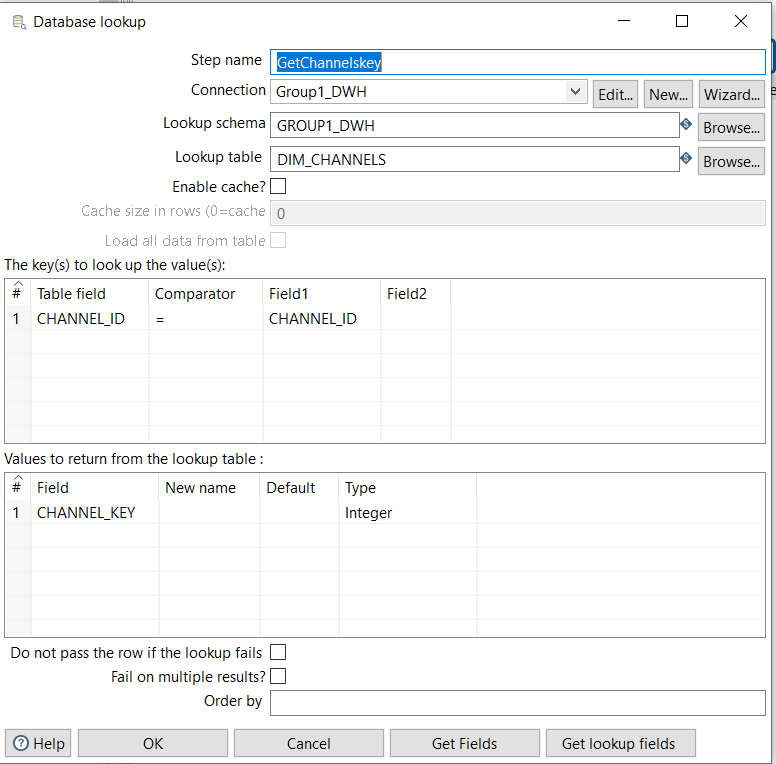
Step1: Table Input to read data from the source table:



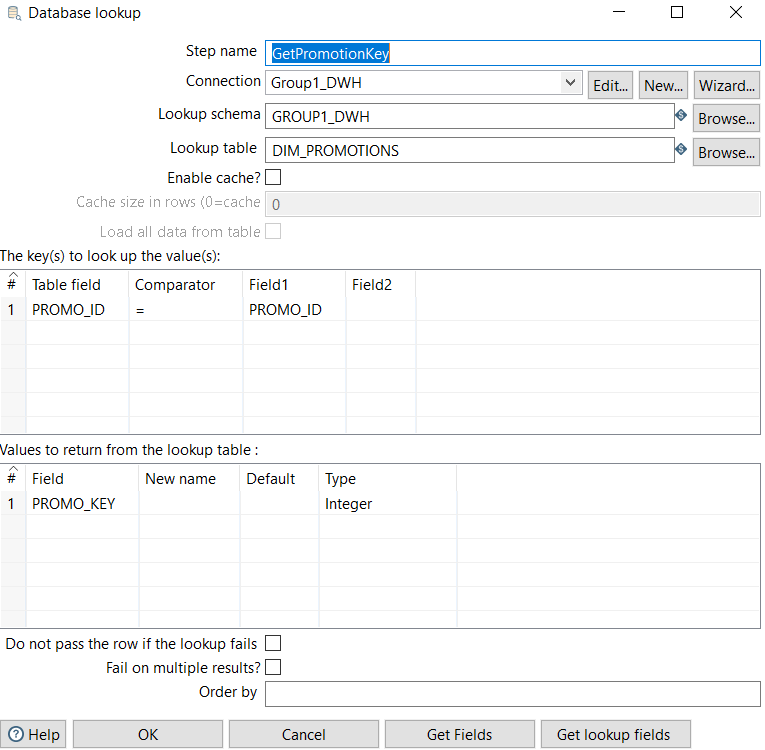
Step 2: We proceeded to mapping by using Select Value



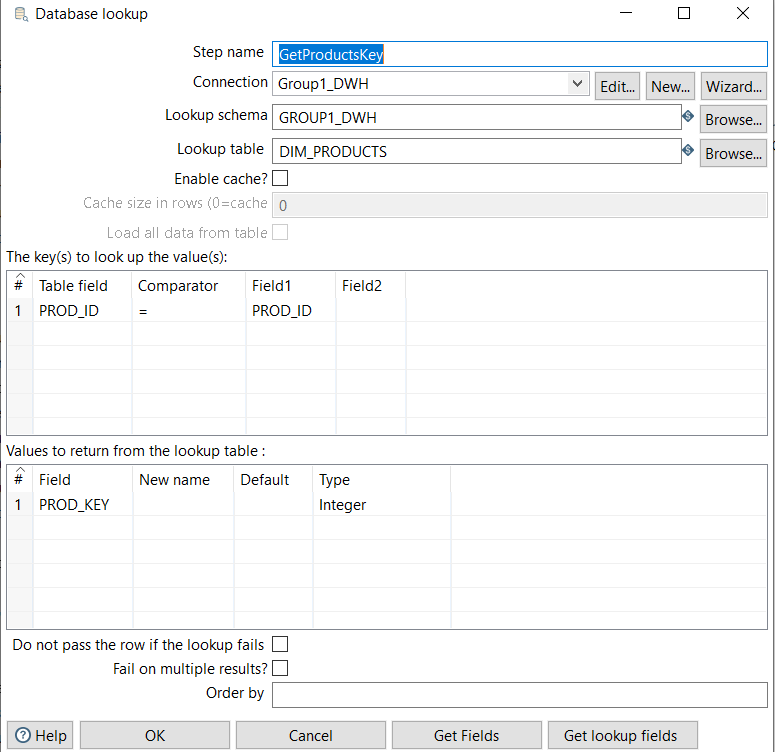
Step 3: We got Channels Key



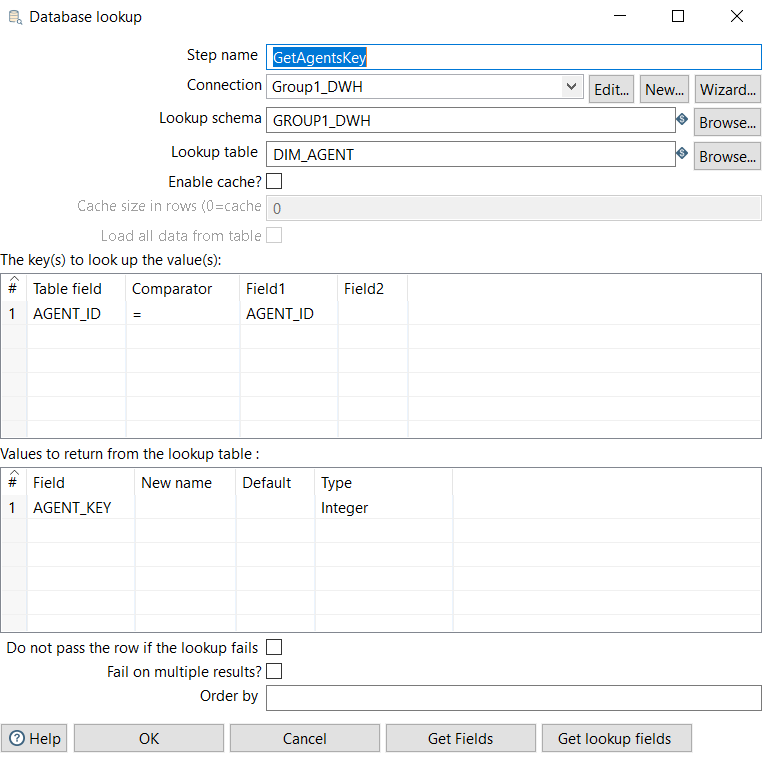
Step 4: We got the Promotion key



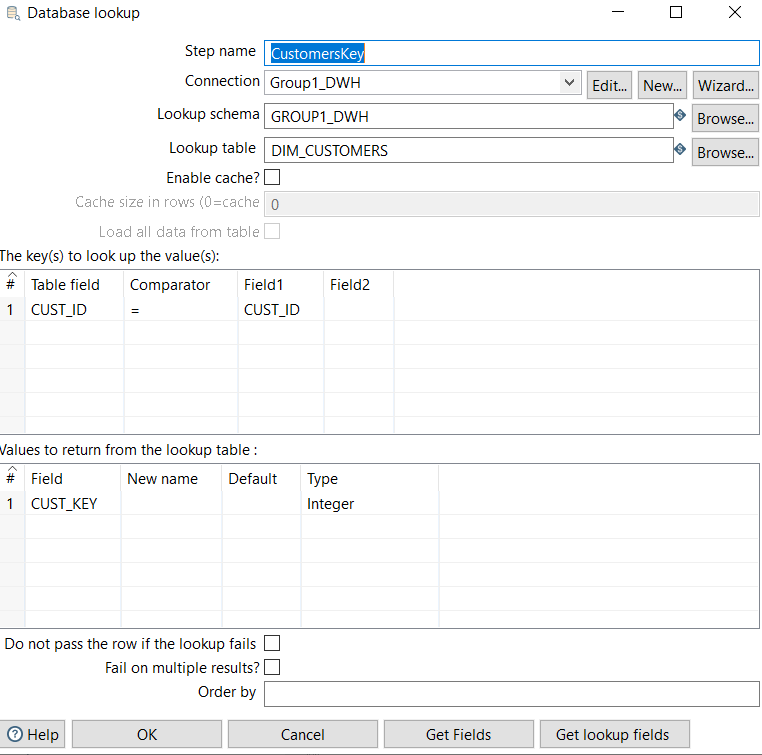
Step5: We got product key



Step 6: We got Agents Key



Step 7: We got Customers key



Step 8: We loaded our FACT\_Orders1 using Output “Insert/Update”

