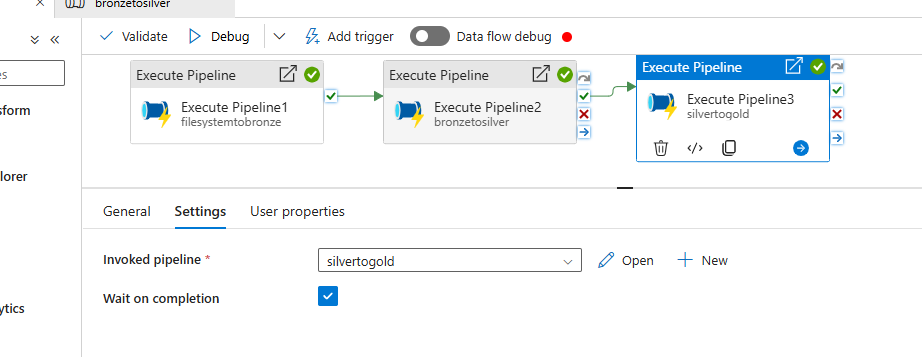
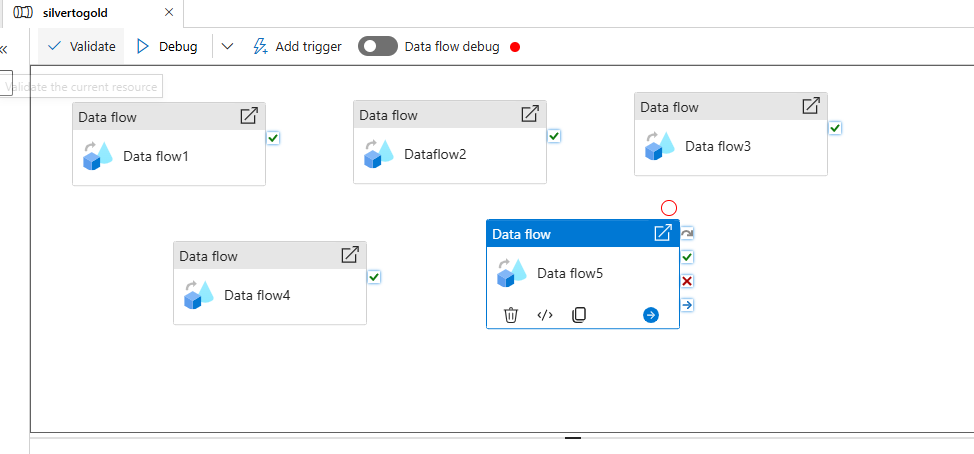
**Step 3: Dataflows using SCD 1&2 technique**

To implement this let us take another execute pipeline in master pipeline

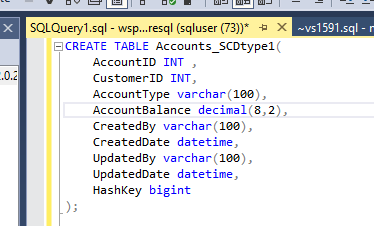


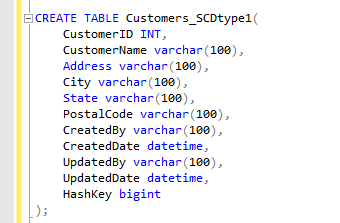
Open the silver to gold pipeline and add dataflows for all five file sources separately

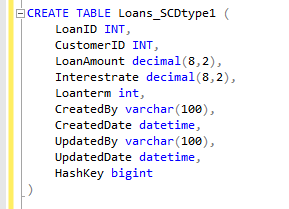


Here I have implemented SCD 1 for three files as accounts, customers, loans

Before implementing this dataflow we have to create these tables in SQL server as follows

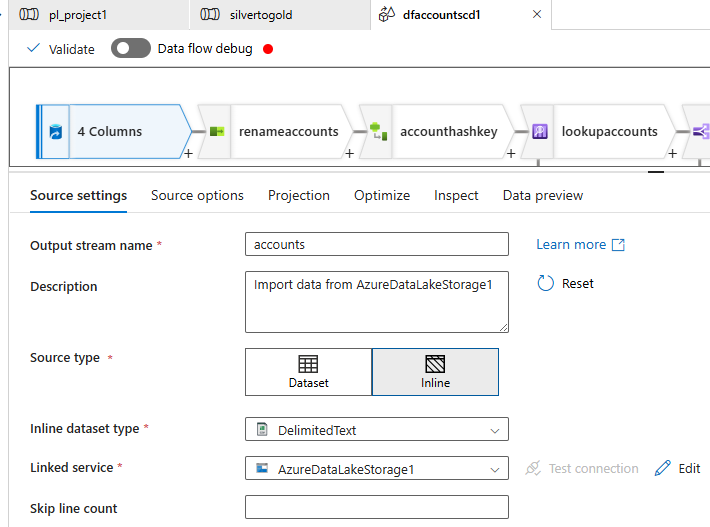




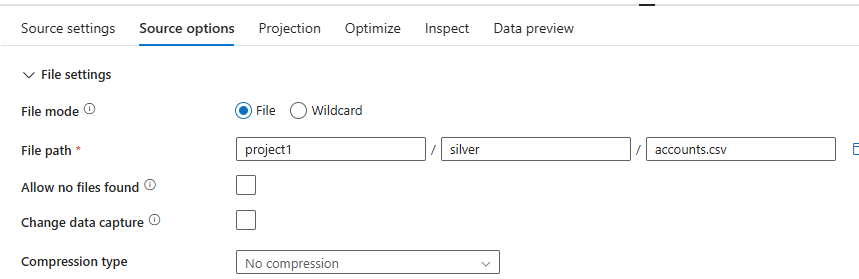


Pipeline creation a s follows

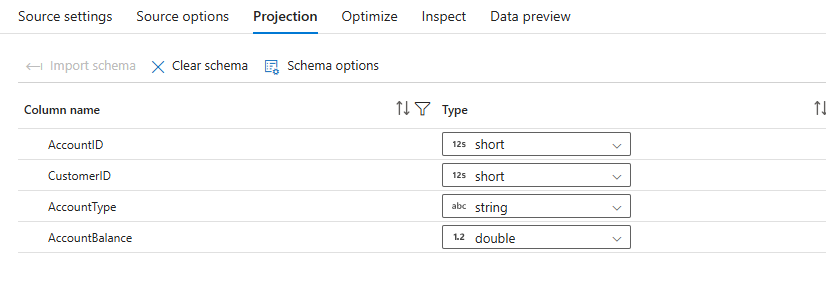
The source in our dataflow for accounts file



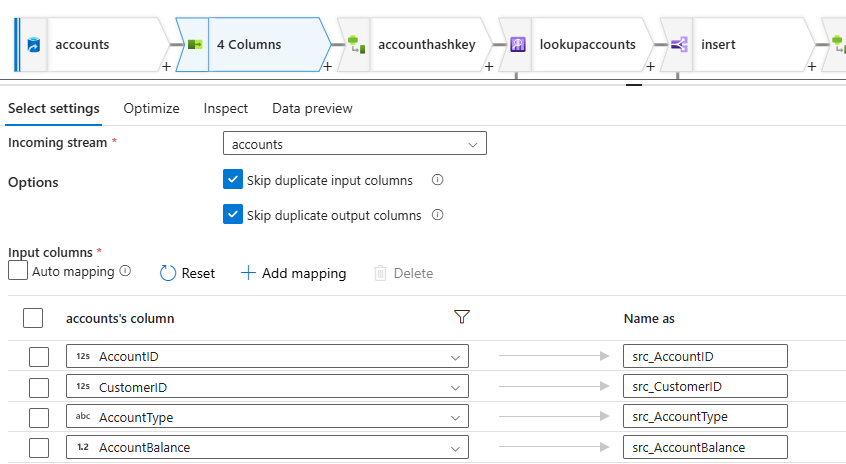
Select linked service and go to source options



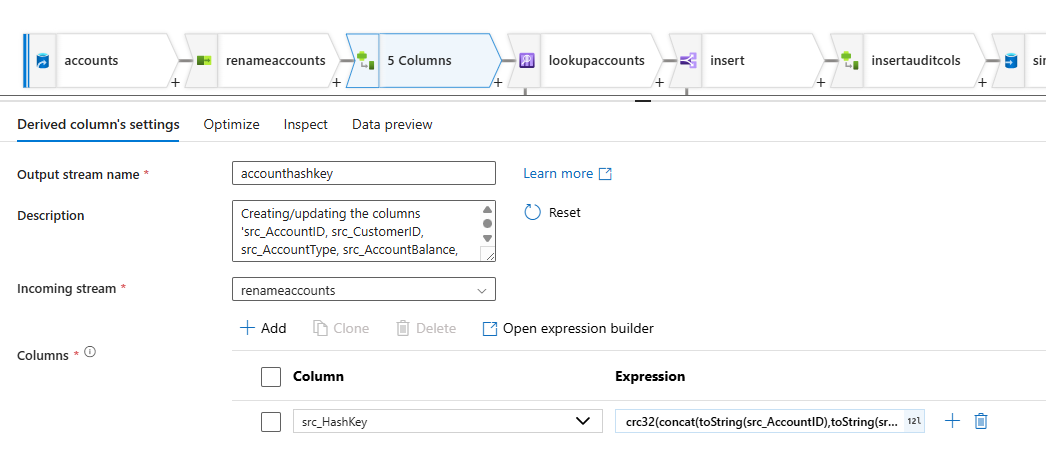
Now go to projection and import schema

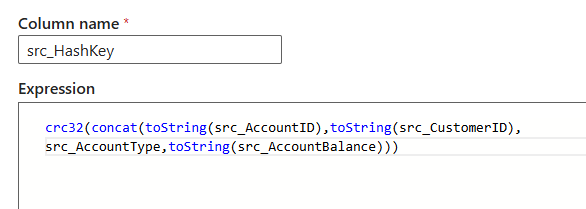


Add a select transformation to rename columns

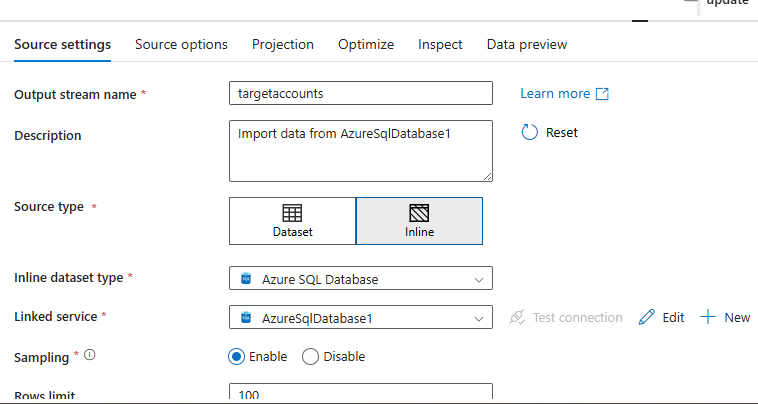


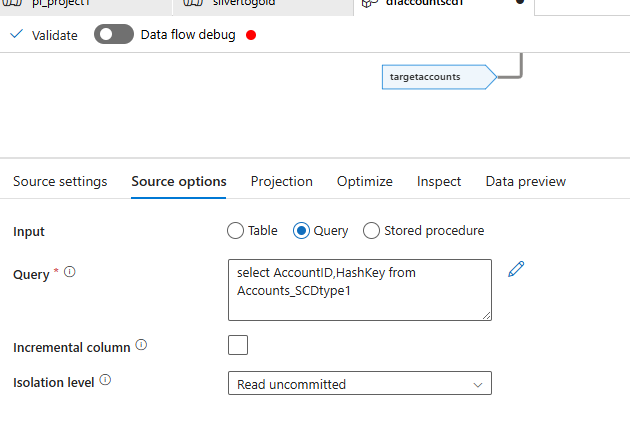
Now we add a derived column to generate hash key

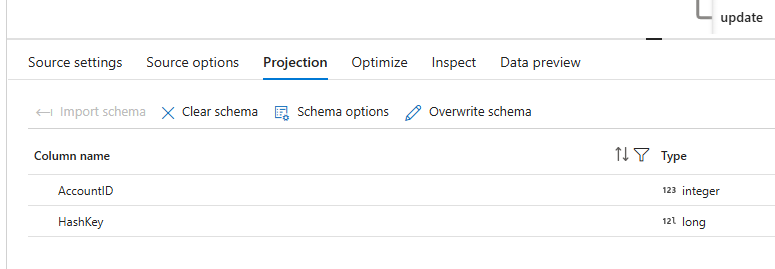




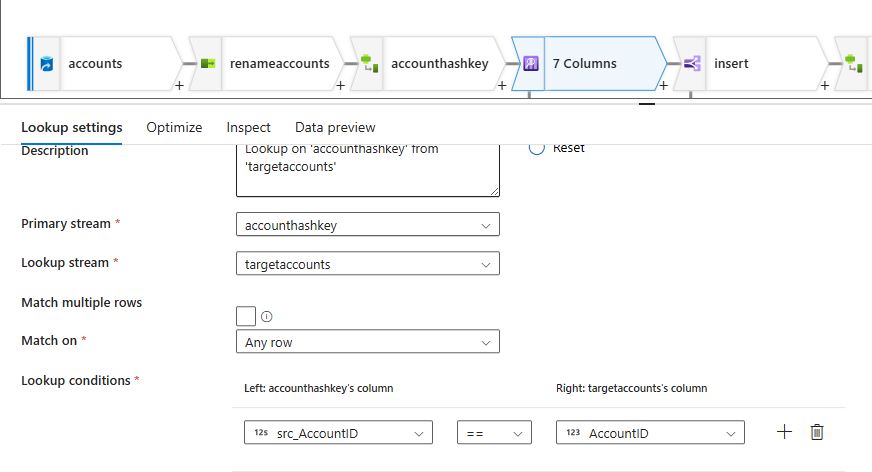
Now add another source which will be our target table



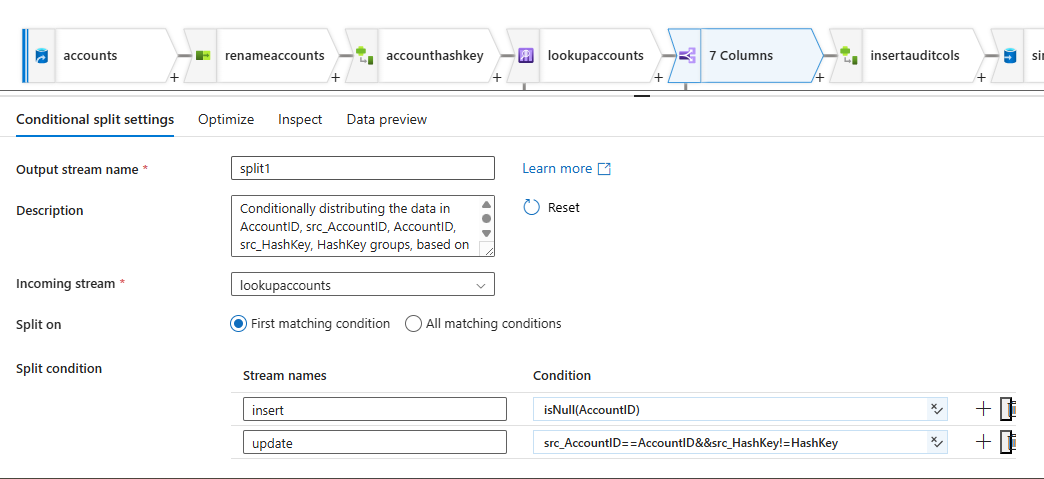




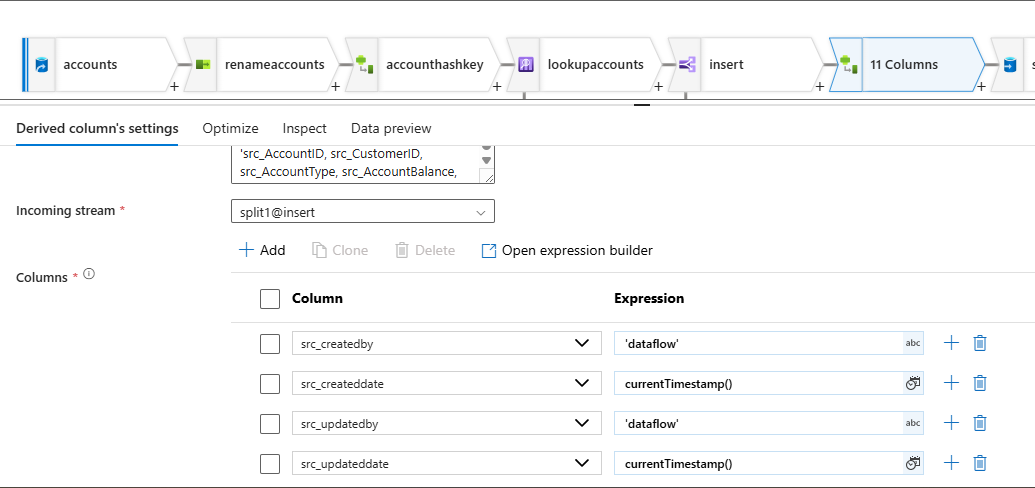
Add a lookup to hashkey



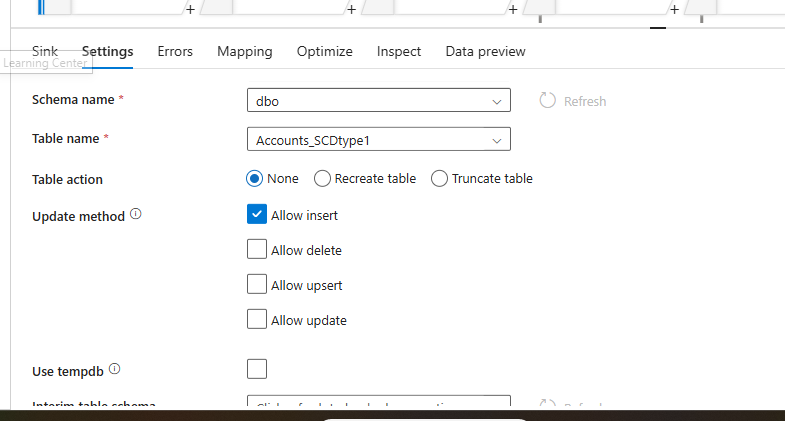
Add a conditional split for insert and update



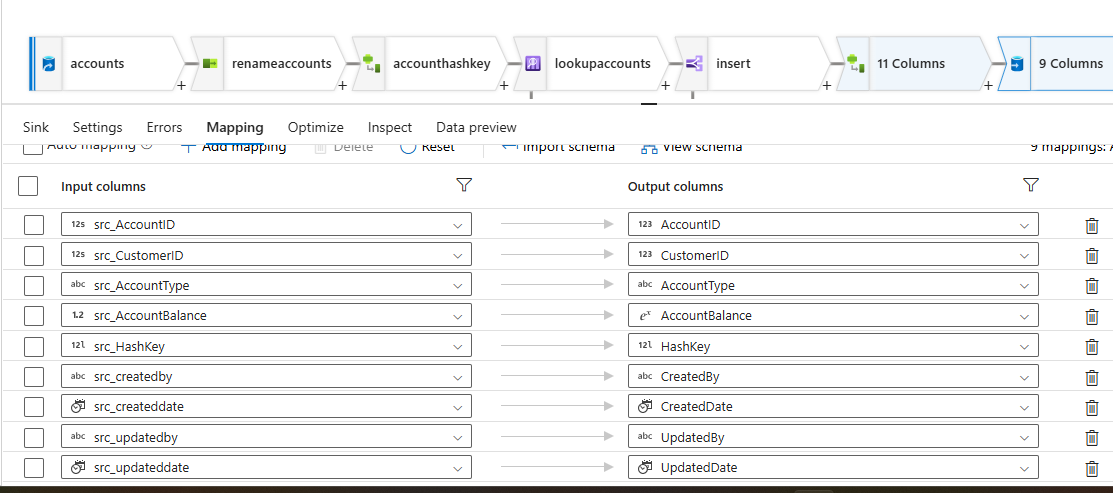
Now go to insert side and add audit columns



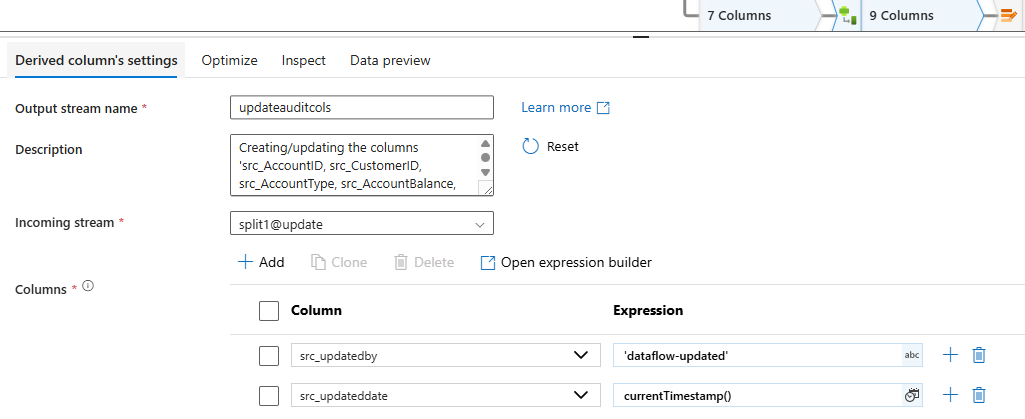
Add a sink on insert side



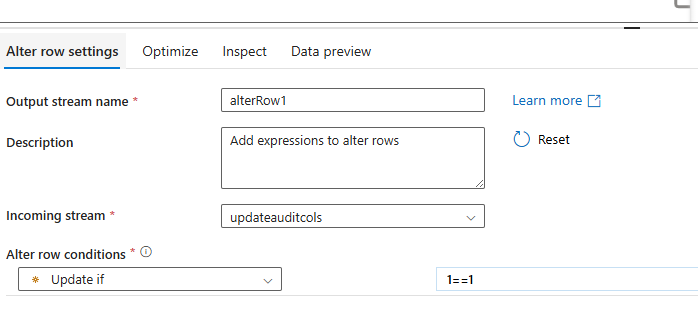
Mapping for sink



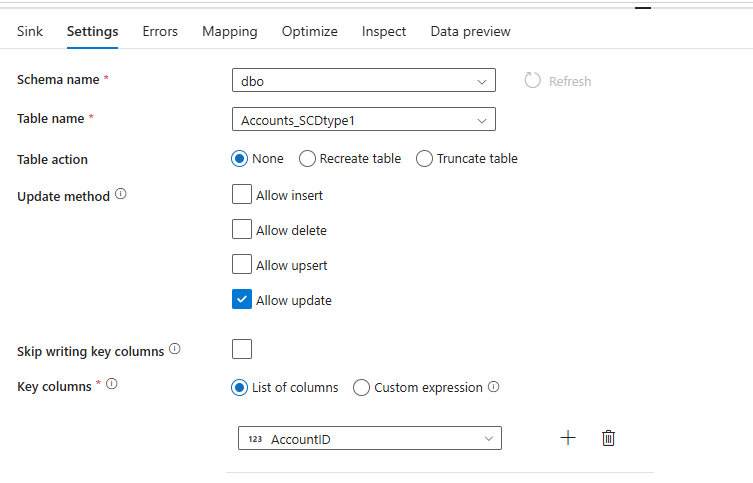
Now go to update side and add derived column for audit columns



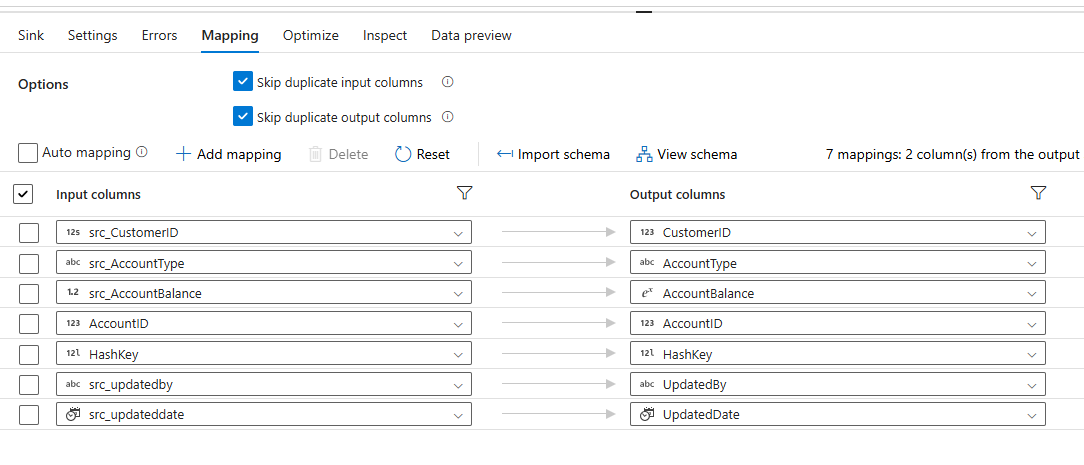
Now add alter row transformation



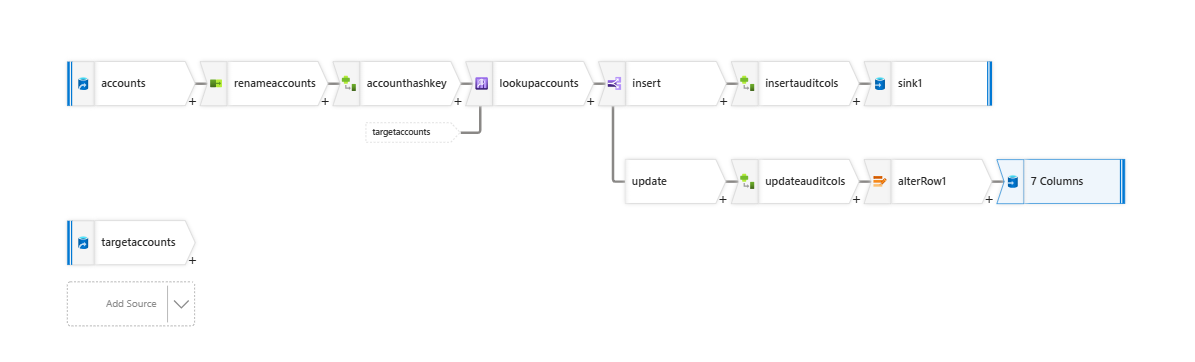
Add sink on update side



Mapping for sink

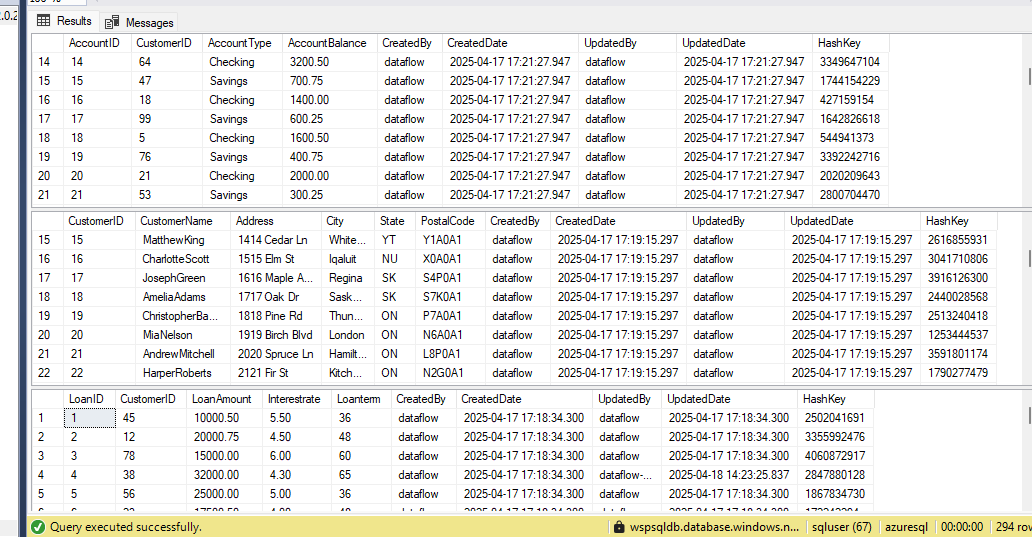


This is the complete scd type 1 steps as follows

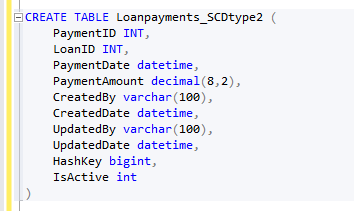


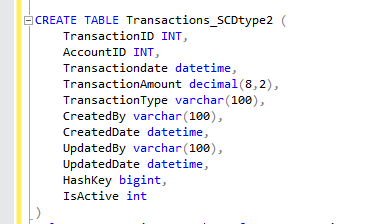
In the same way we implement for other two files also

Lets see the output in SQL server

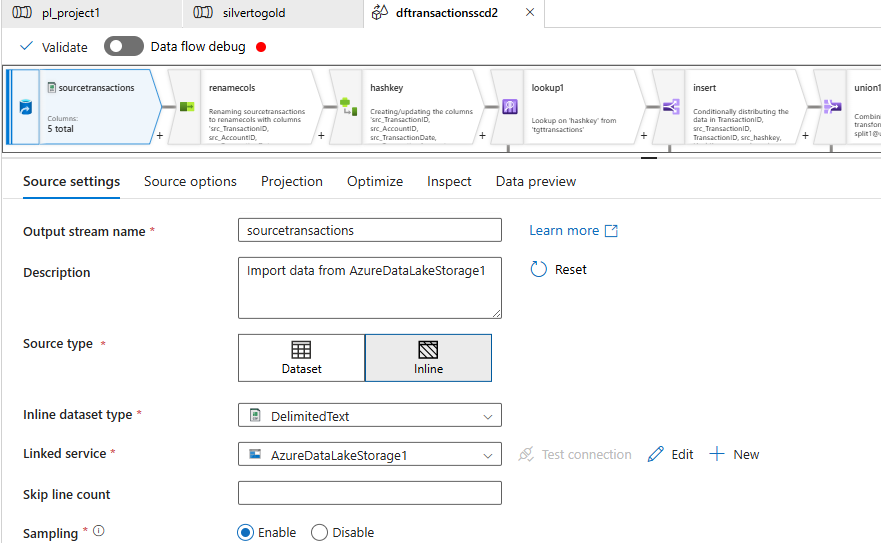


To implement SCD 2 we take transactions and loan\_payments files

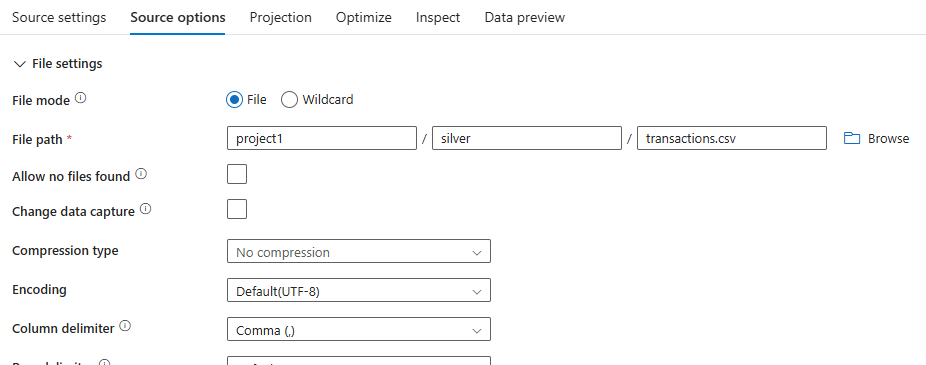




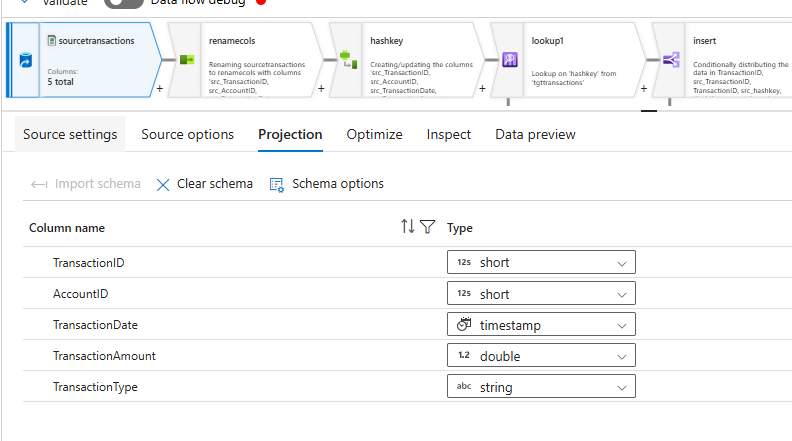
Let us take transactions dataflow here



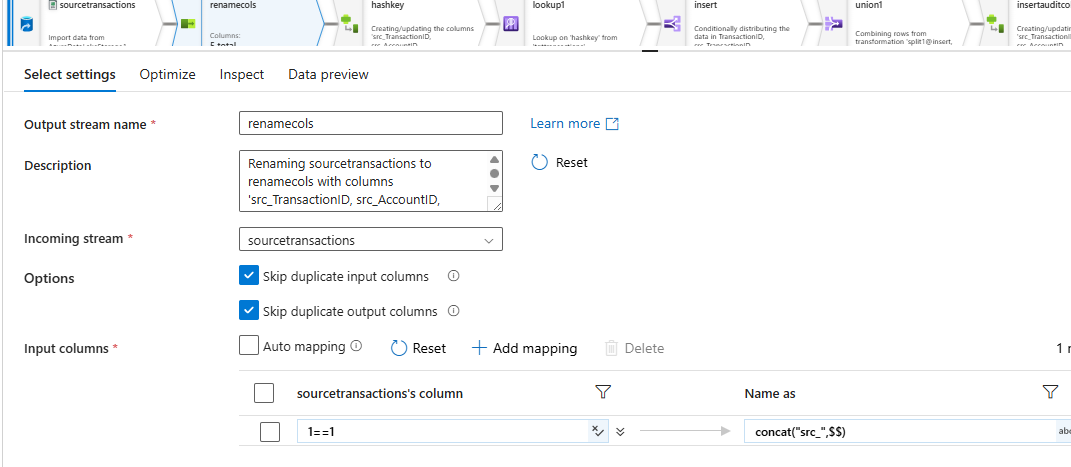
Go to source options now



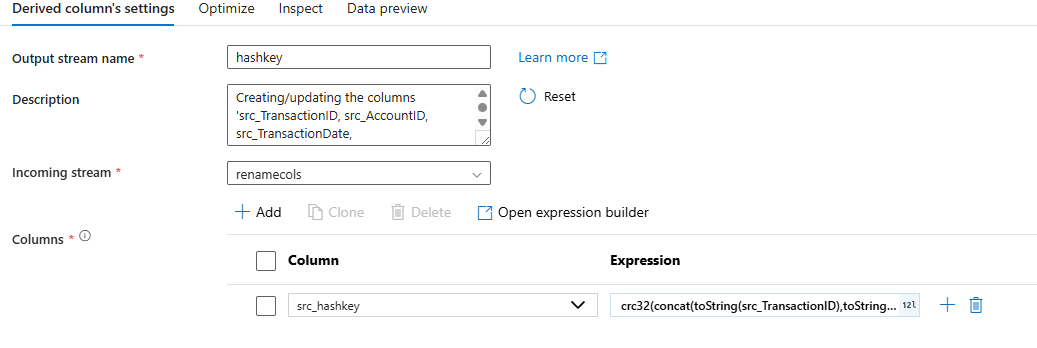
Go to projection and import schema

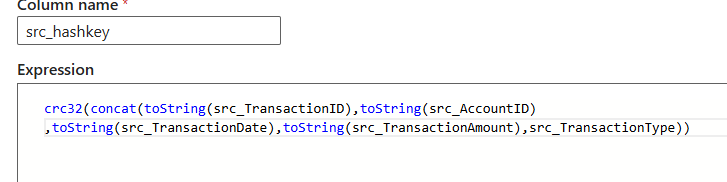


Add a select statement to rename columns

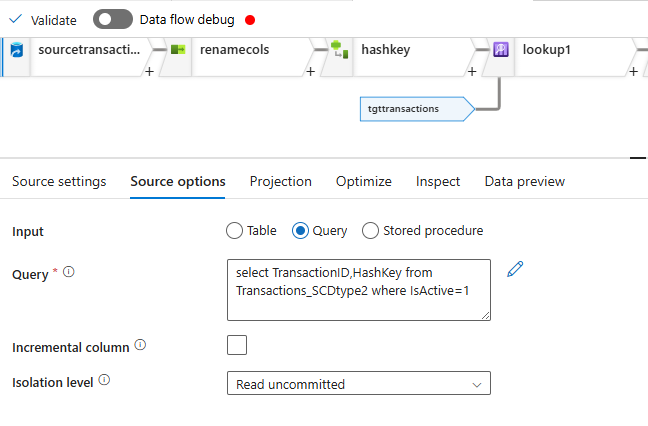


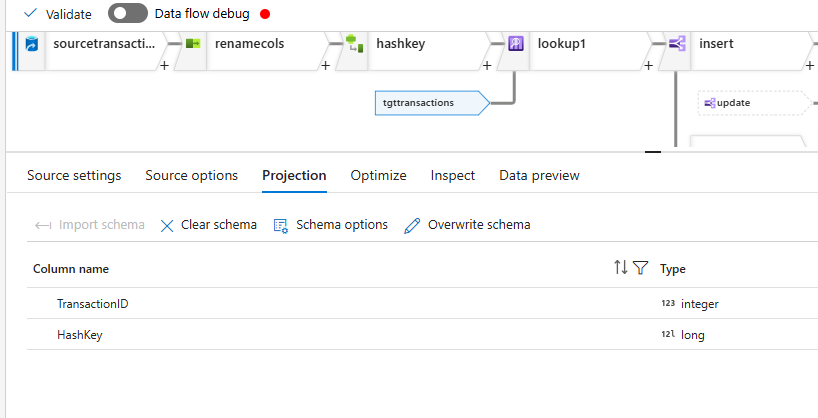
Add a derived column to generate hashkey



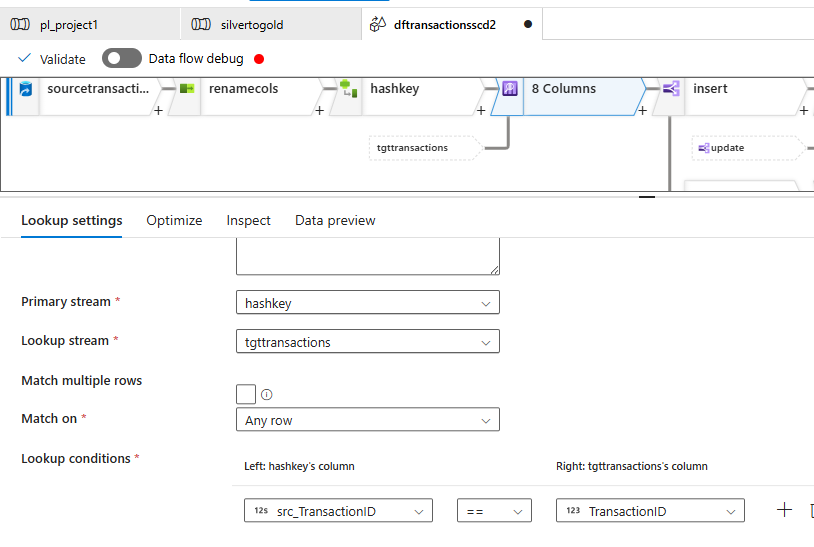


Add another source as target here

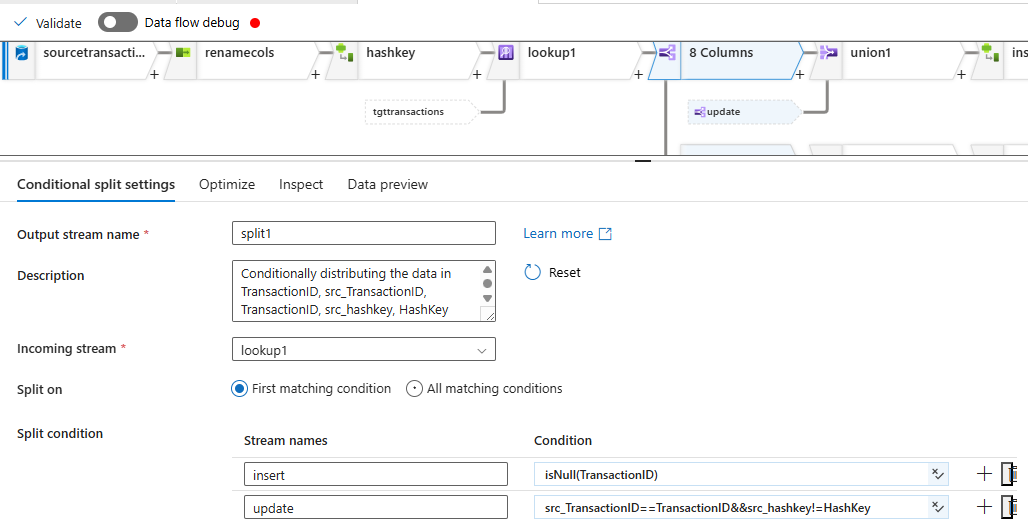




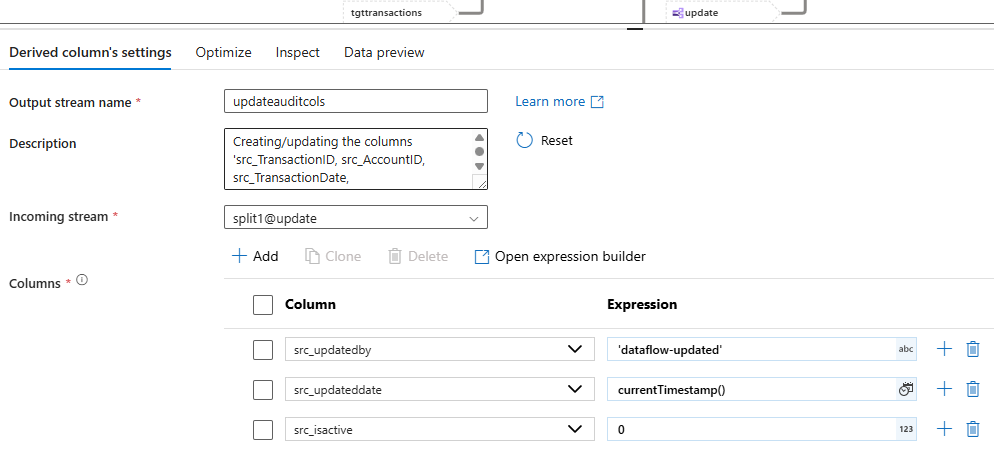
Add lookup for hashkey



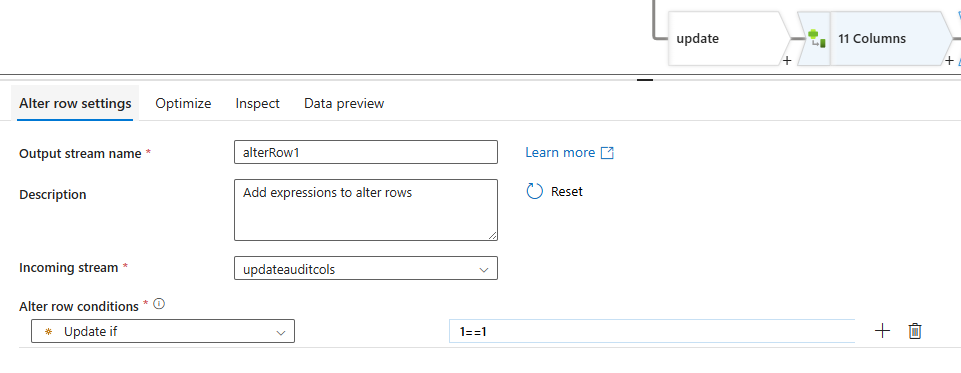
Add a conditional split here for insert and update



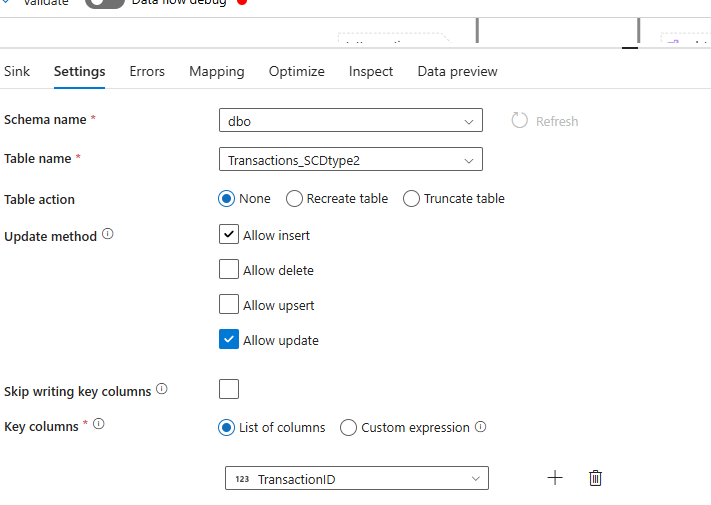
add a derived column for update as audit columns



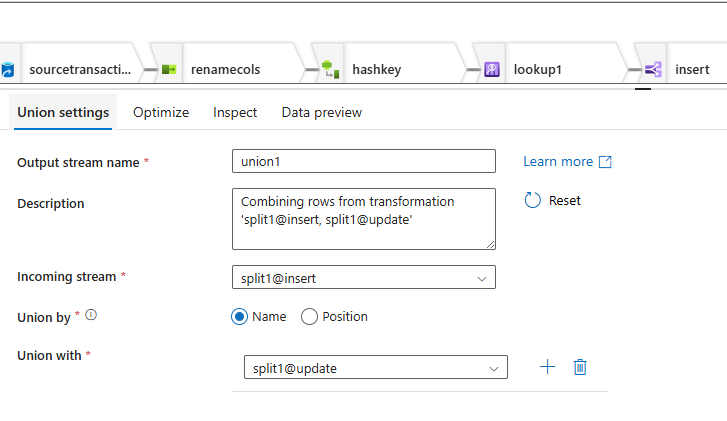
Add alter row here



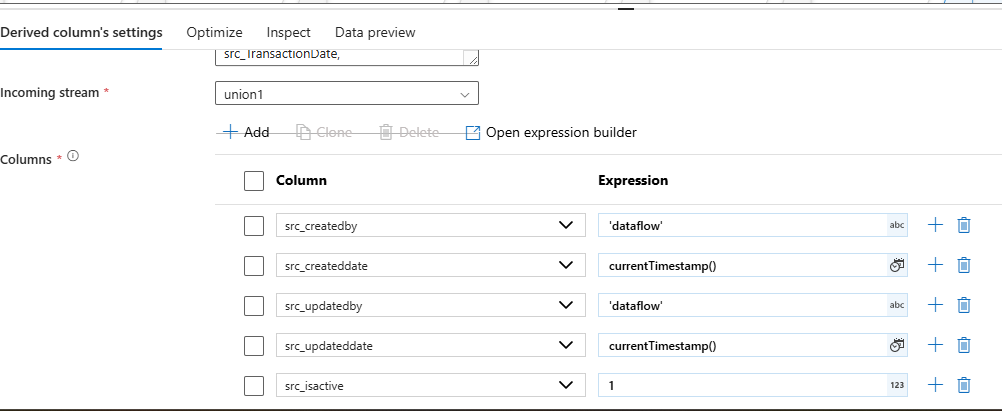
Add sink on update side



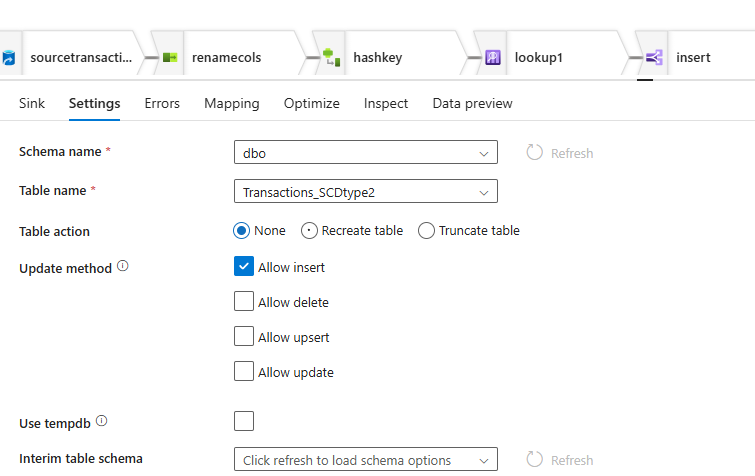
Now on insert side add a union transformation



Add derive column for audit columns



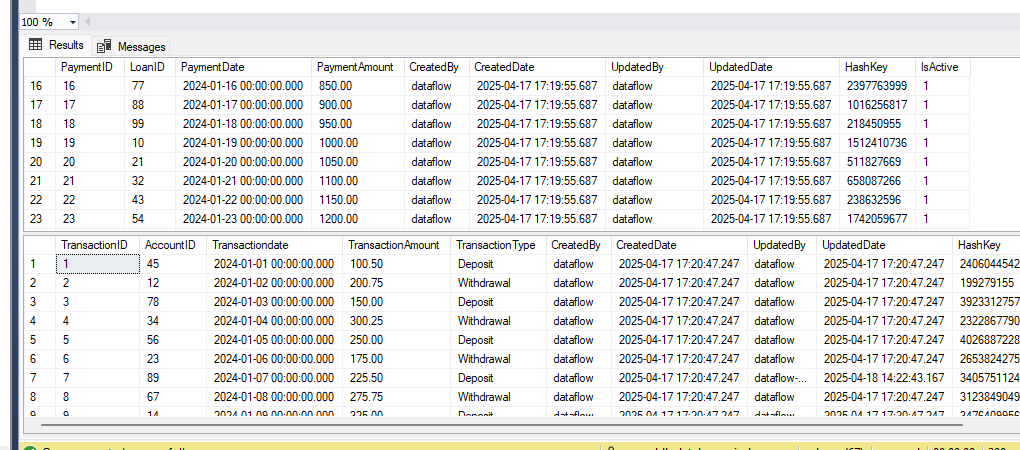
Add sink finally



Hence scd 2 logic is implemented here

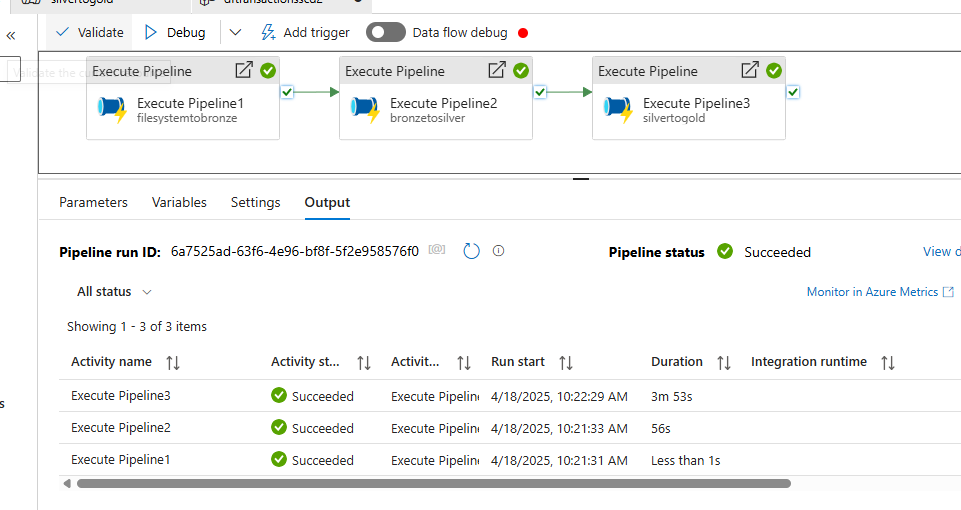
We do the same steps for loan payments also

When we run on sql server we get



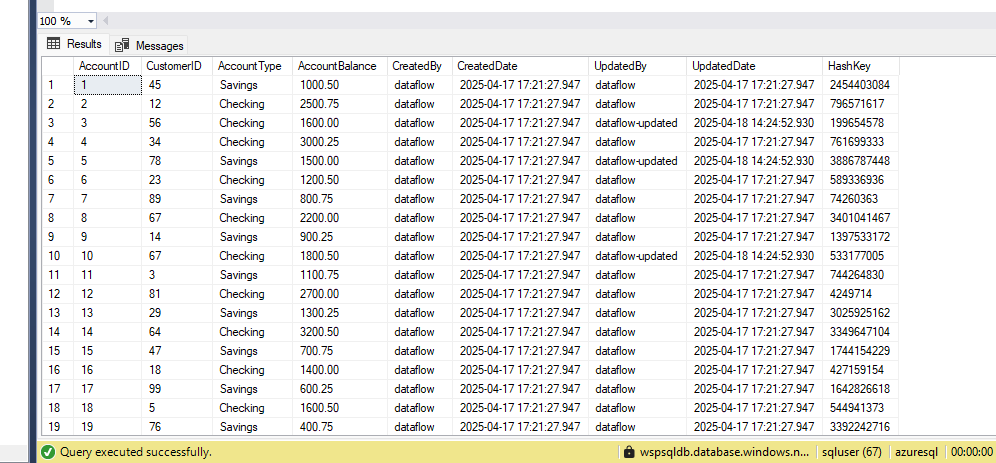
We have no change sin day 2 file run updates will happen after pipeline run

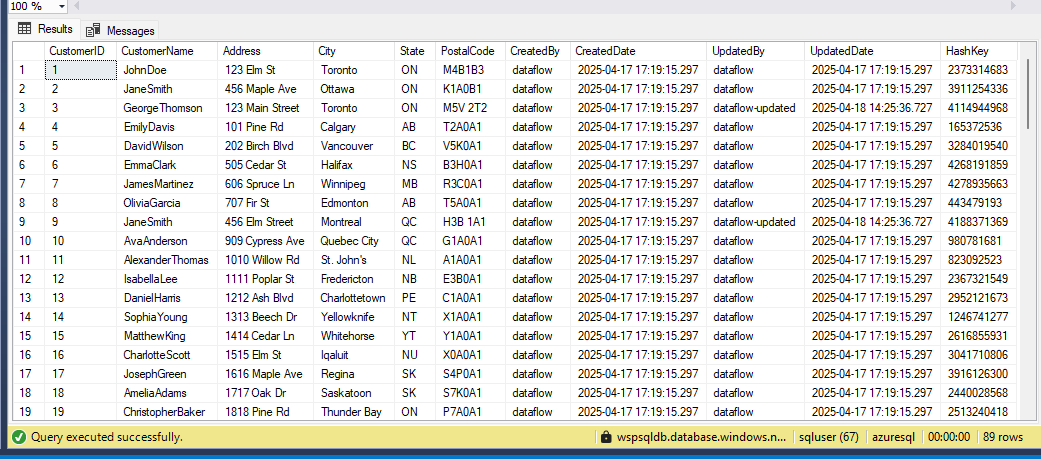
Let us see entire master pipeline connection as follows

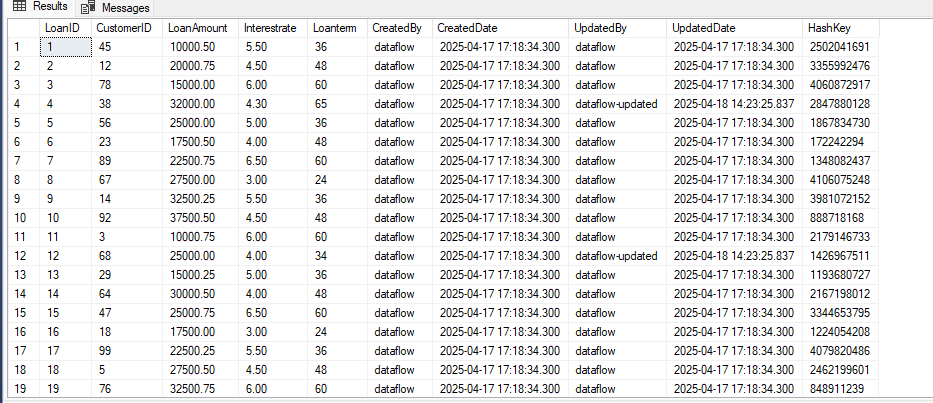


We change day file in bronze and silver layers data will update in gold layer upon cleaning

As follows







Scd2

