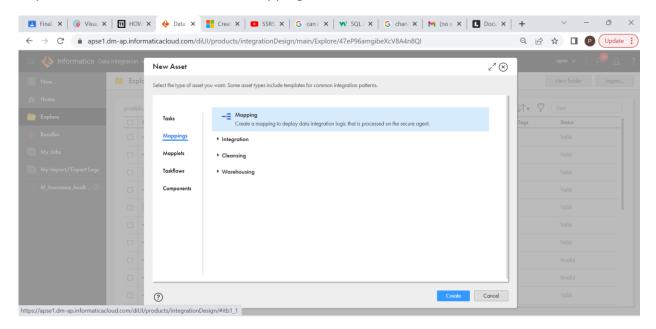
# **Module 4 IICS:**

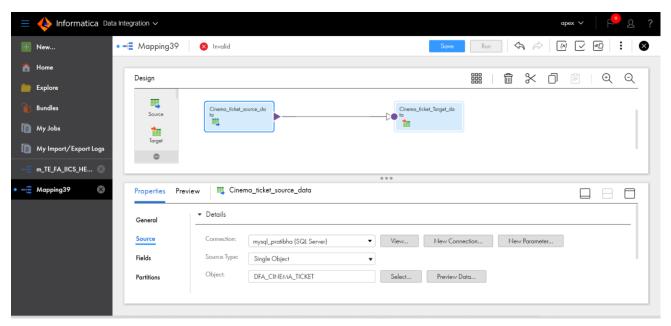
### Make connection to different data source

### Solution:

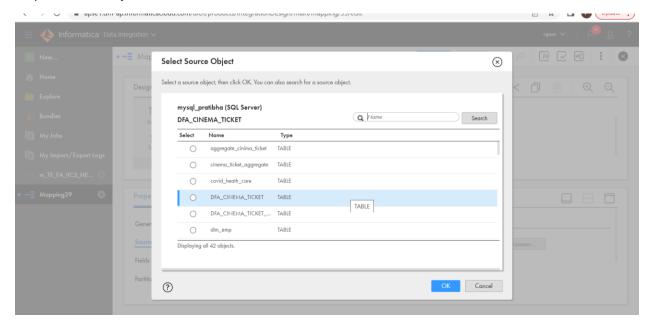
step1: click on new and choose the mapping as shown below and click create



Step2: click on sourcce and select the connection

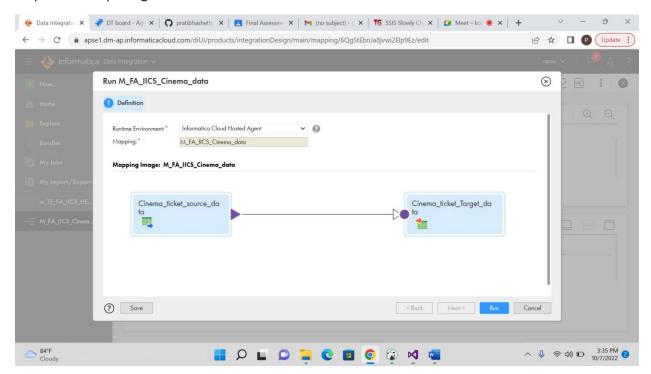


## Step3: Click on object seect the tabel



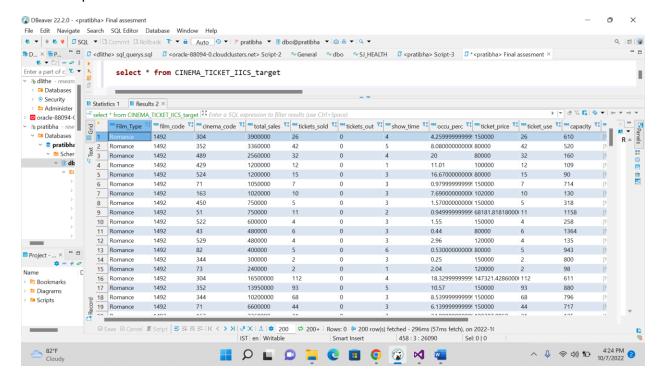
## Step 4: select the target table by clicking on target

## Step5: Run the package



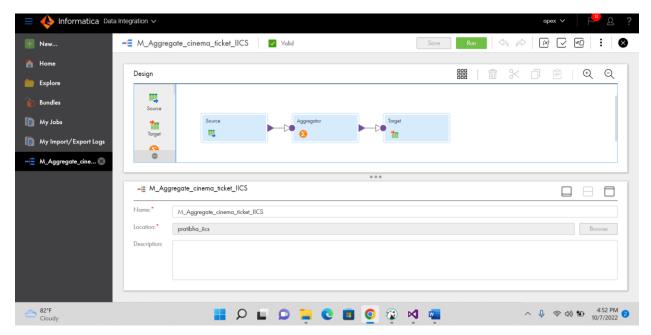
### Step5: check the target table

### Below snapshot of resulatant



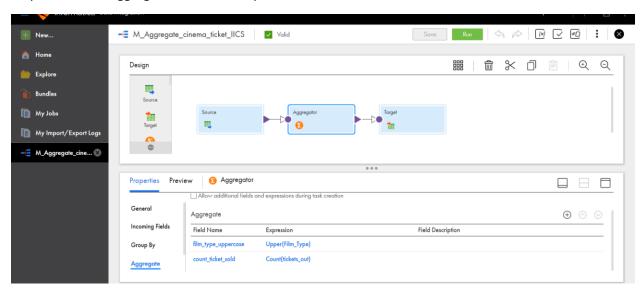
## Create aggregate table based on the particular column

# Step1: make connection as shown in the below

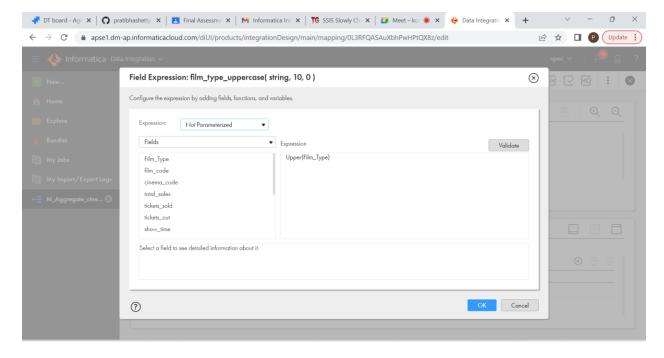


## Step2: click on aggregation

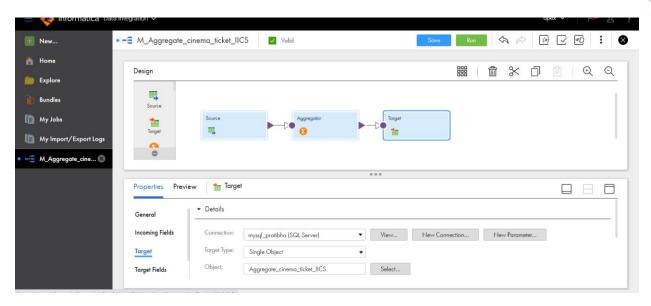
# Step3: write the aggregation function as per the need



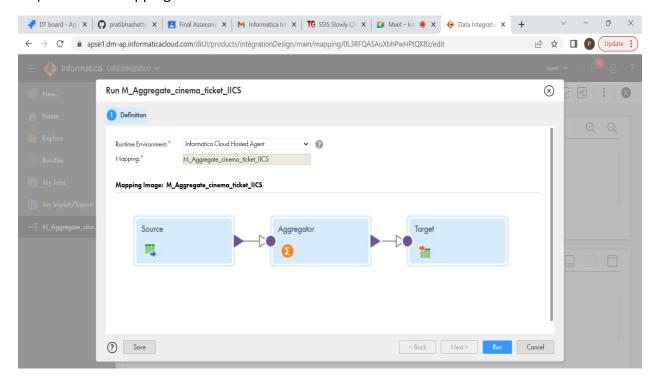
# Bellow snapshot shows the aggregation for upper case



Step4: choose the target table

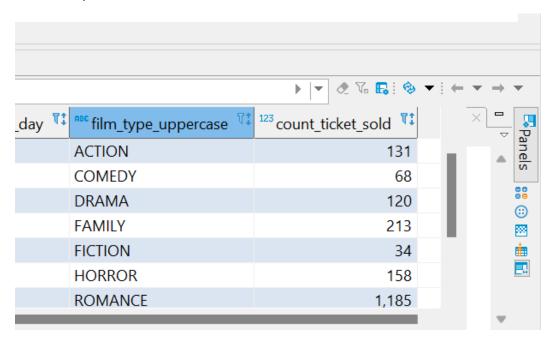


Step5: Run the mapping



Step6: check the target table

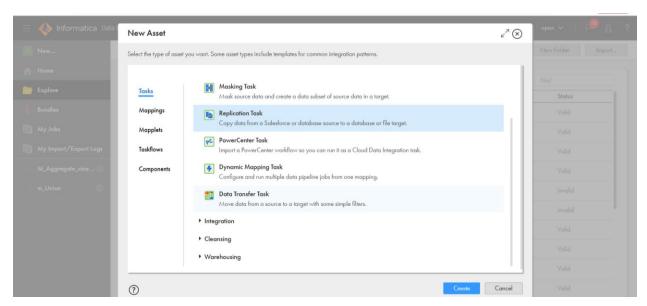
# Below snapshot shows the resultant table



# Create data replication task

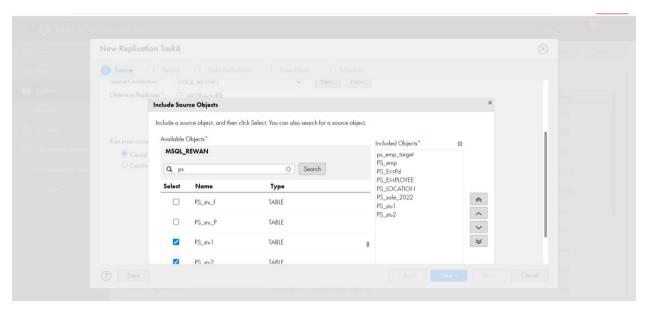
Step1: choose the Replication task

Step2: click on create

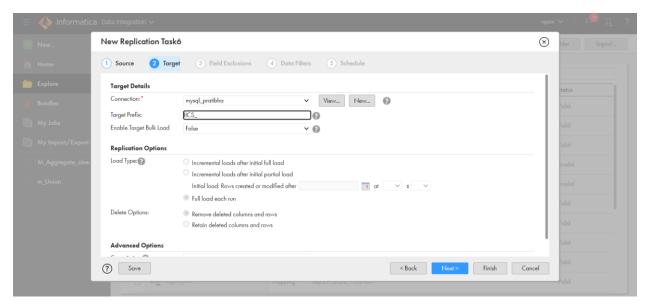


Step3: select the source database

Step4: select the table which you have needed

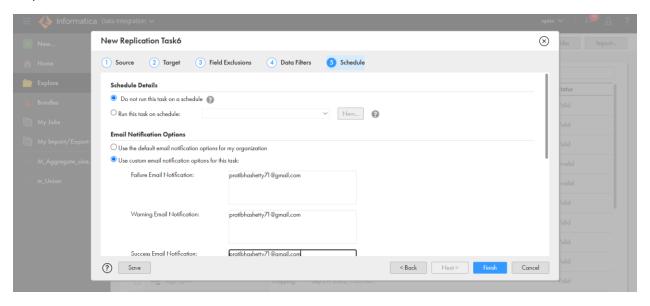


Step5: Select the target database click on next



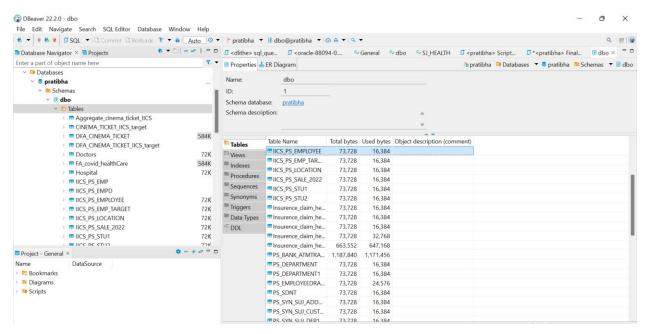
Step6: if you need notification mail give valid email id

# Step7: click on finish

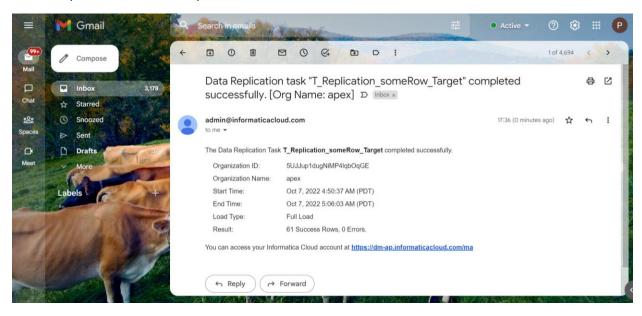


Step8: check the target database

Below snapshot shows the replicate database

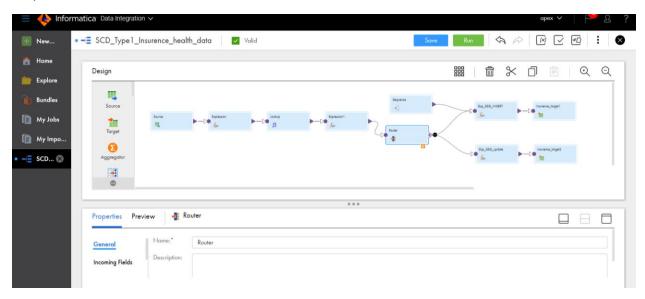


Below snapshot shows the completed task

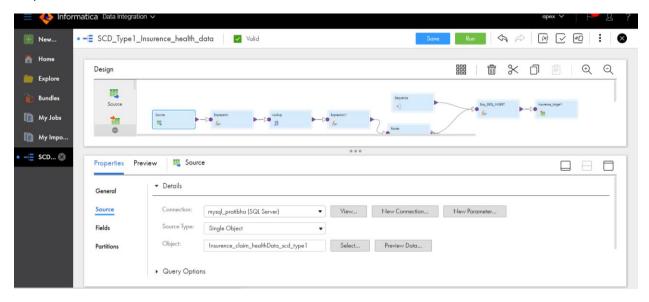


# Perform SCD 1 & SCD2 dimension table modelling

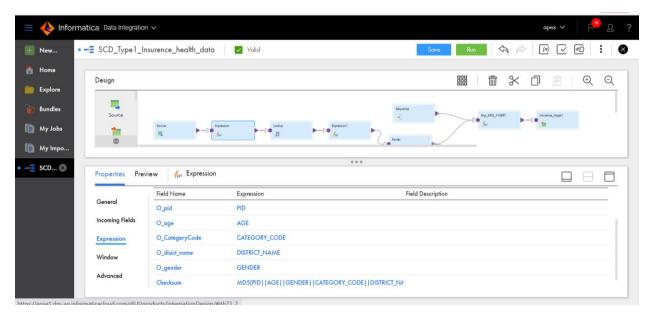
Step1: make connection as shown in the below

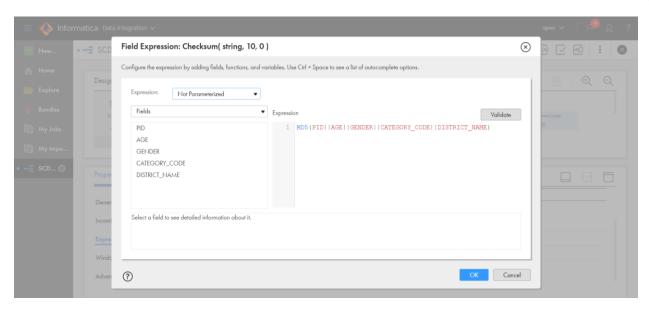


## Step2: click on source and select the source table

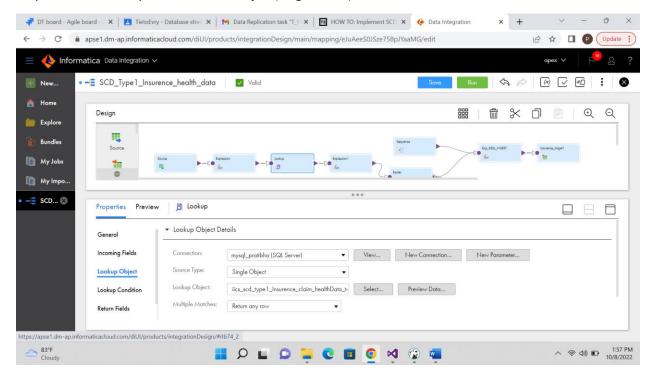


Step3: click on expression make expression as shown in the below

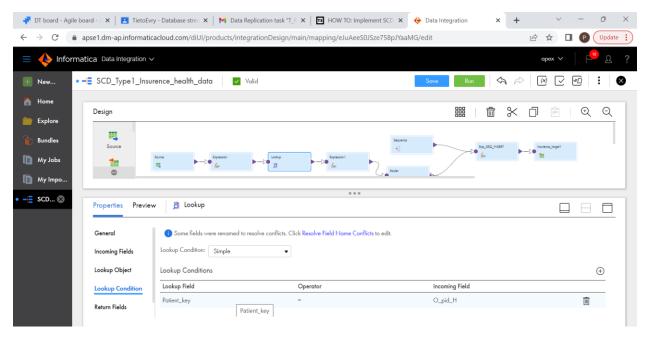




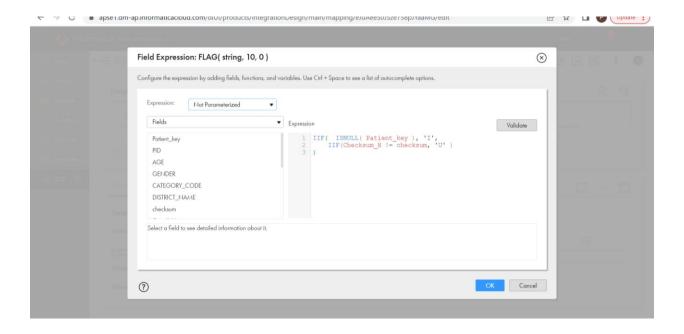
## Step4: click on lookup and select the object(target table)



Step5: Under Lookup Condition tab, select the condition based on employee id fields from source and lookup objects as shown below.



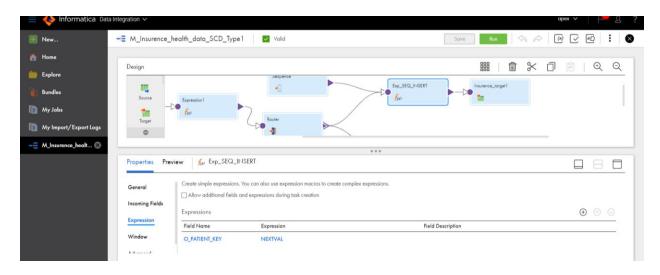
Step6: Pass the data from Lookup to an Expression transformation and create an output field Flag and assign the below field expression to flag the records



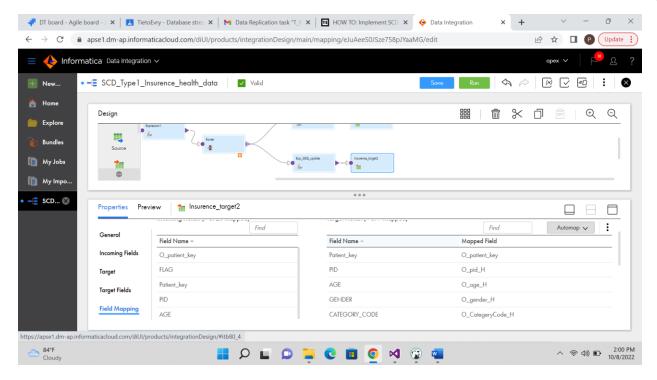
Step8: Create two output groups in the Router transformation to route the date to two different targets based on the flag value for Insert (Flag='l') and Update (Flag='U') operations as shown below.



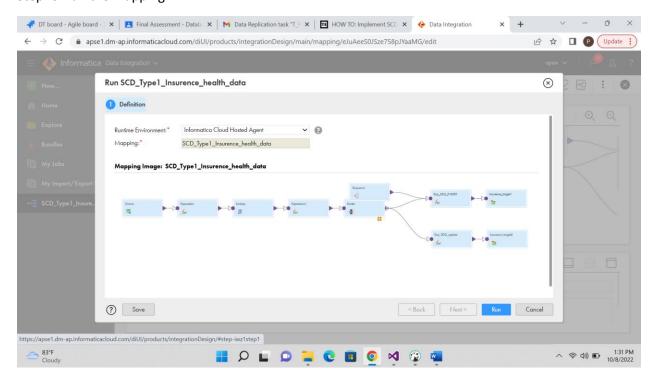
Step 8: Configure Sequence Generator for generating Surrogate Keys



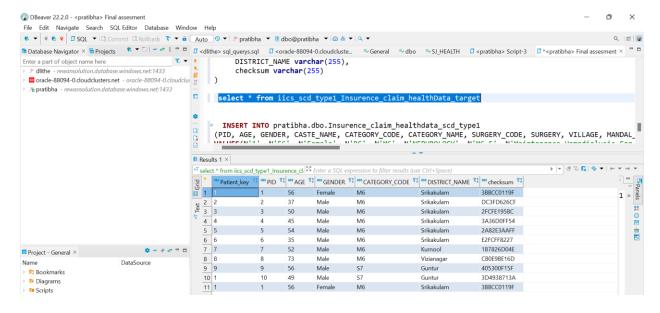
Step9: Pass the data from expression to a target transformation. Select the dimension table as target object with ration defined as Insert.



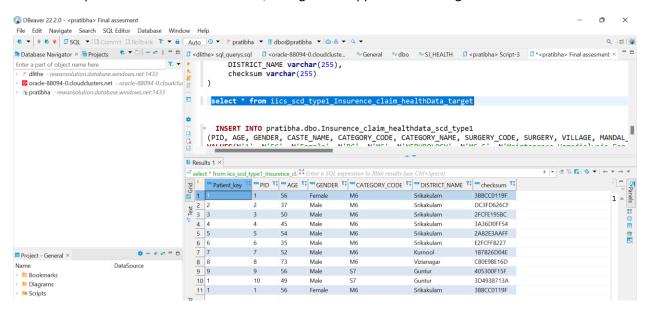
# Step10: run the mapping



### Step11: check the target tabel

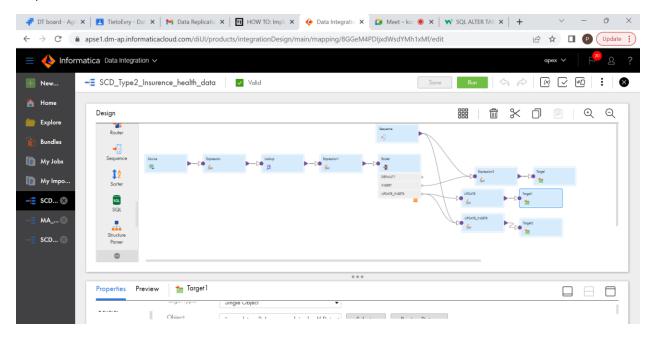


### Insert and update the data in source table, changes also appears in the target table



#### SCD2:

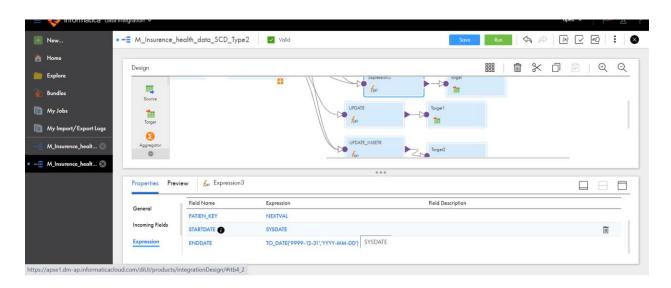
Step1:Do the connection as shown in the below



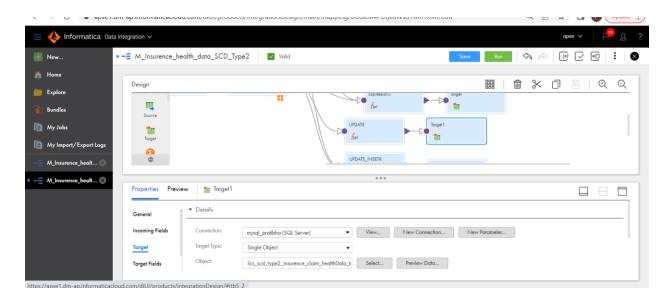
Step2: Follow the same steps which is followed in scd1 until router connection,

## Step3: Make 3 outgoing connection in router

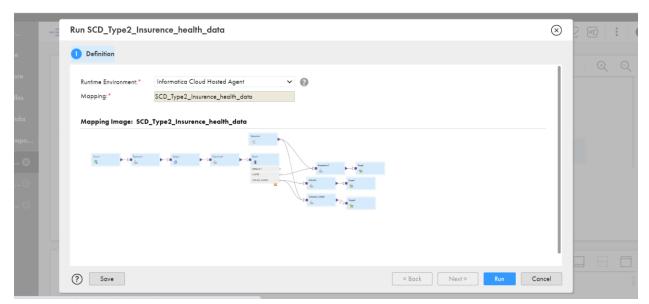
Step4: The following fields are created in the expression transformation linked from the sequence generator An output field O\_PATIENT\_KEY of type bigint and assign the field value as NEXTVAL coming from sequence generator. An output field O\_START\_DATE of type date/time and assign the system variable SYSDATE as value. An output field O\_END\_DATE of type date/time and assign the date value as '9999-12-31'.



STEP5: Pass the data from expression configured in earlier step to a target transformation. Select the dimension table target object with operation defined as Insert.



# Step6: run the package



# Check the target table

