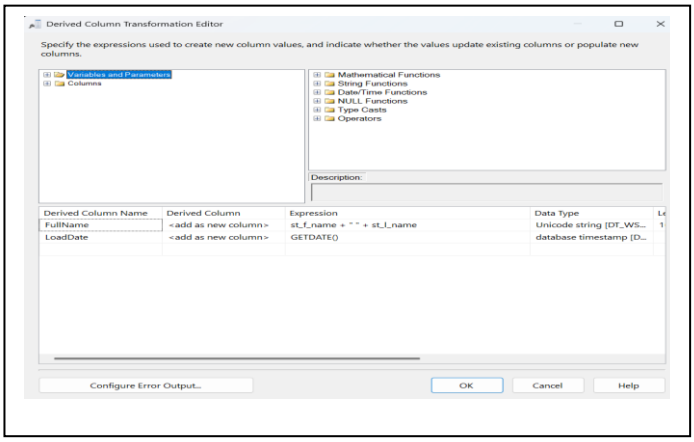
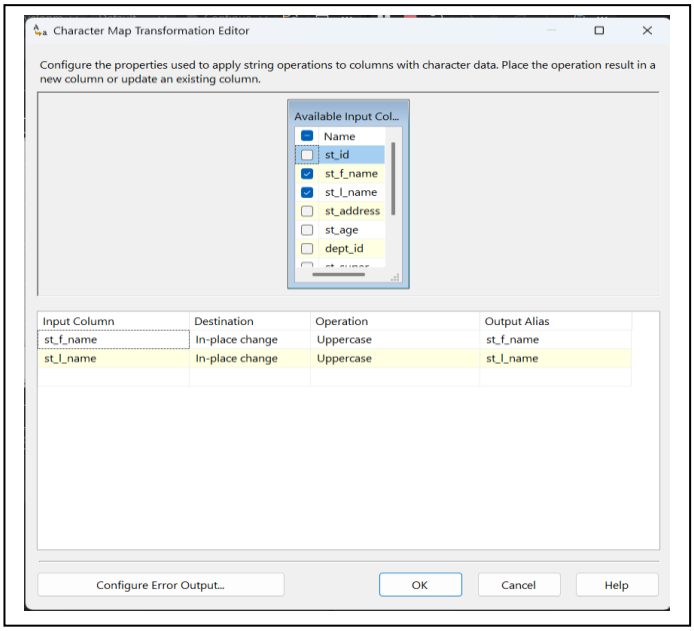
SSIS Task

1. Screenshot of each Transformation:

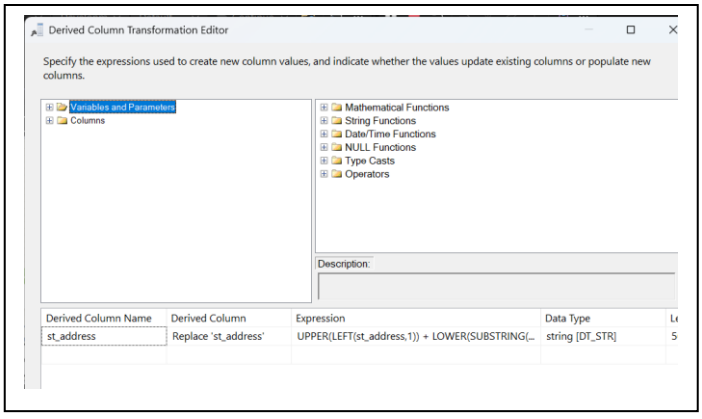
1-



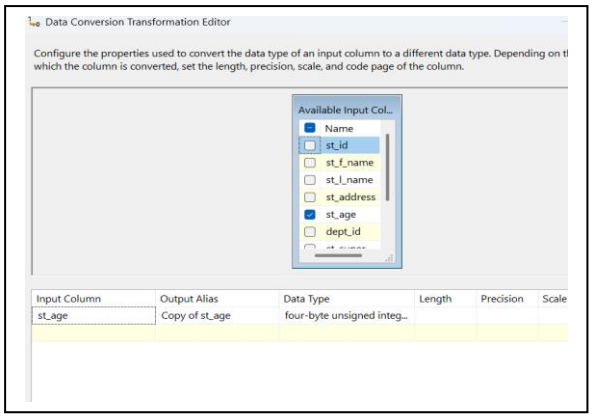
2-



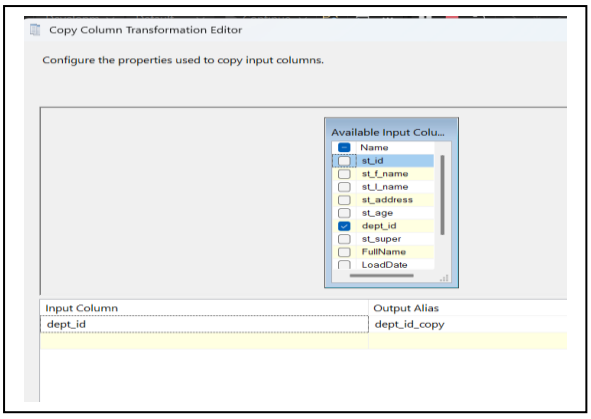
3-



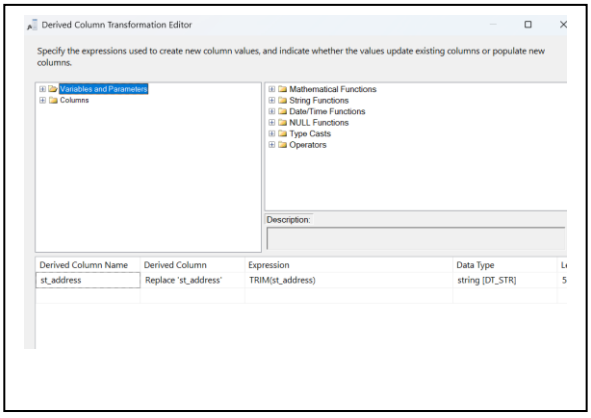
4-


Data Conversion Transformation Editor
Configure the properties used to convert the data type of an input column to a different data type. Depending on t
which the column is converted, set the length, precision, scale, and code page of the column.
Available Input Col...
Name
st_id
st_f_name
st_l_name
st_address
st_age
dept_id
Input Column
Output Alias
Data Type
Length
Precision
Scale
st_age
Copy of st_age
four-byte unsigned integ...

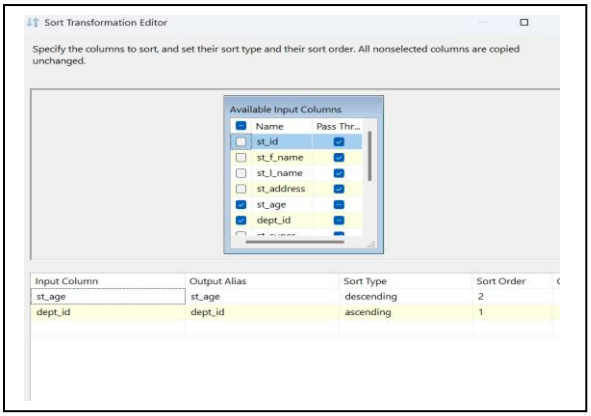
5-

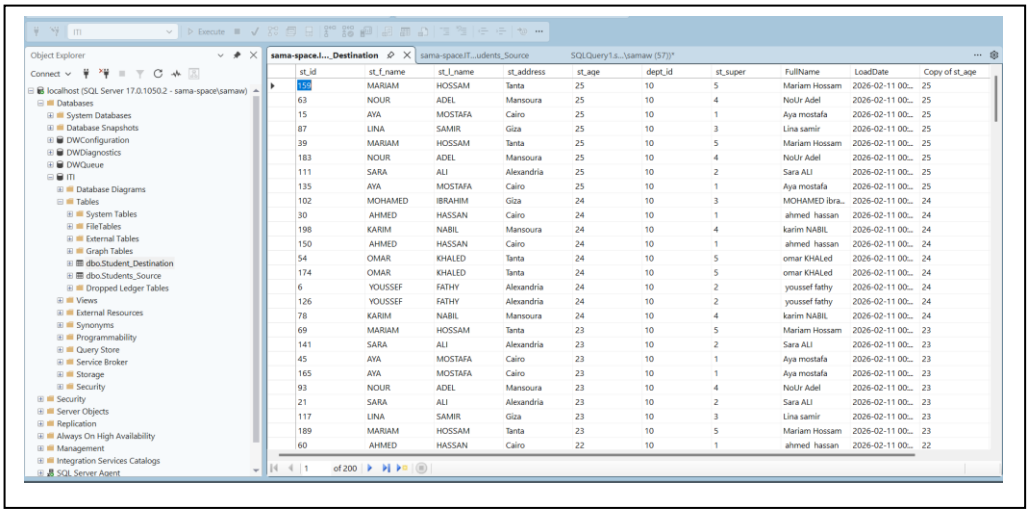
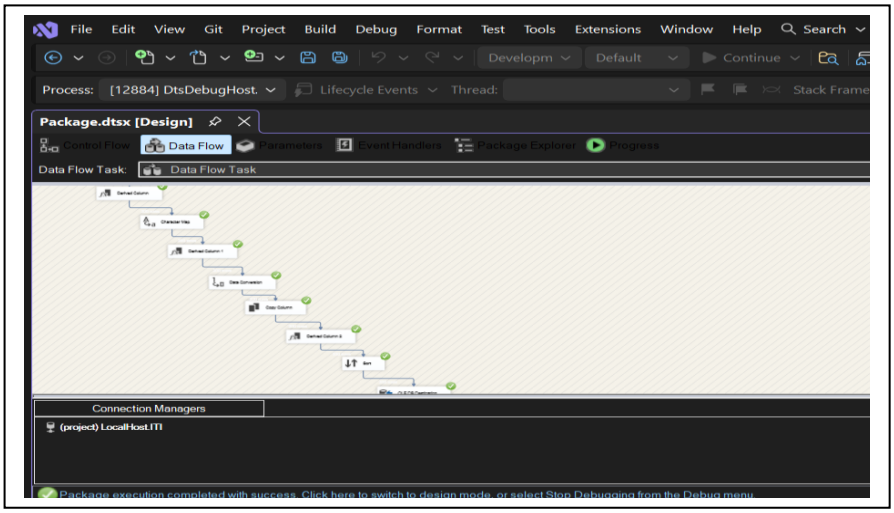

Copy Column Transformation Editor
Configure the properties used to copy input columns.
Available Input Colu...
Name
st_id
st_f_name
st_l_name
st_address
st_age
dept_id
st_super
FullName
LoadDate
Input Column
Output Alias
dept_id
dept_id_copy

6-


Derived Column Transformation Editor
Specify the expressions used to create new column values, and indicate whether the values update existing columns or populate new
columns.
Variables and Parameters
Columns
Mathematical Functions
String Functions
Date/Time Functions
NULL Functions
Type Casts
Operators
Description:
Derived Column Name
Derived Column
Expression
Data Type
st_address
Replace 'st_address'
TRIM(st_address)
string [DT_STR]

7-


Sort Transformation Editor
Specify the columns to sort, and set their sort type and their sort order. All nonselected columns are copied
unchanged.
Available Input Columns
Name
Pass Thr...
st_id
st_f_name
st_l_name
st_address
st_age
dept_id
Input Column
Output Alias
Sort Type
Sort Order
st_age
st_age
descending
2
dept_id
dept_id
ascending
1

2. **Why Derived Column was used:**
   Derived Column was used to add new columns and modify data during the data flow, like creating full name and adding load date, without changing the source table.
   Difference between Derived Column and Copy Column:
   Derived Column can create new columns and apply expressions, while Copy Column only makes a simple copy of an existing column without any change.
   Why Data Conversion was required:
   Data Conversion was needed to fix data type differences between source and destination, so the data can be inserted correctly.

3.