

Module 2 SSIS: 20 Points

1. Make connection to different data source (Oracle DB, Flat file, SQL Server)
2. Extract
3. Transform
4. Load to new target system - SQL Server

->Excel To DB

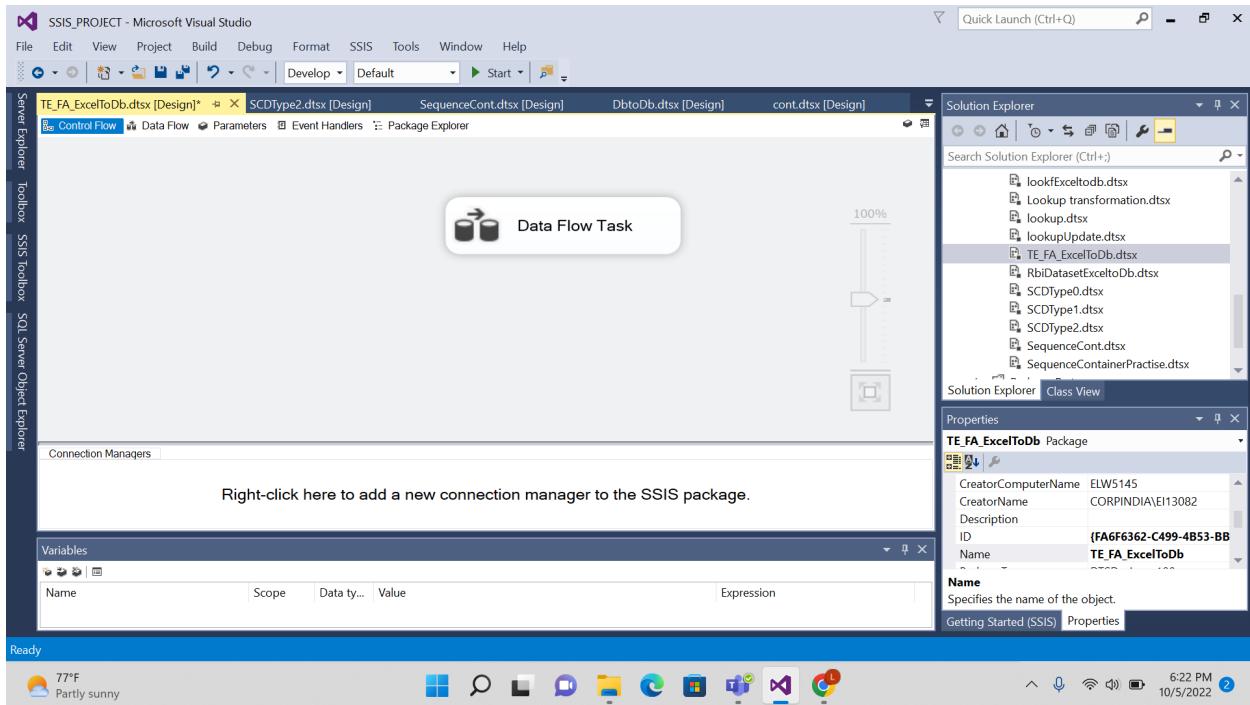
SOURCE : Excel File(Health_data)

The screenshot shows a Microsoft Excel spreadsheet titled "Health_data src - Compatibility Mode". The table contains data from row 1 to 20, with columns A through H. Column A is labeled "PID", column B is "AGE", column C is "GENDER", column D is "CATEGORY_NAME", column E is "SURGERY_CODE", column F is "SURGERY", column G is "VILLAGE", and column H is "MANDAL_NAME". The data includes various medical categories like NEPHROLOGY, CARDIAC, and CARDIOLOGY, along with specific surgery codes and locations.

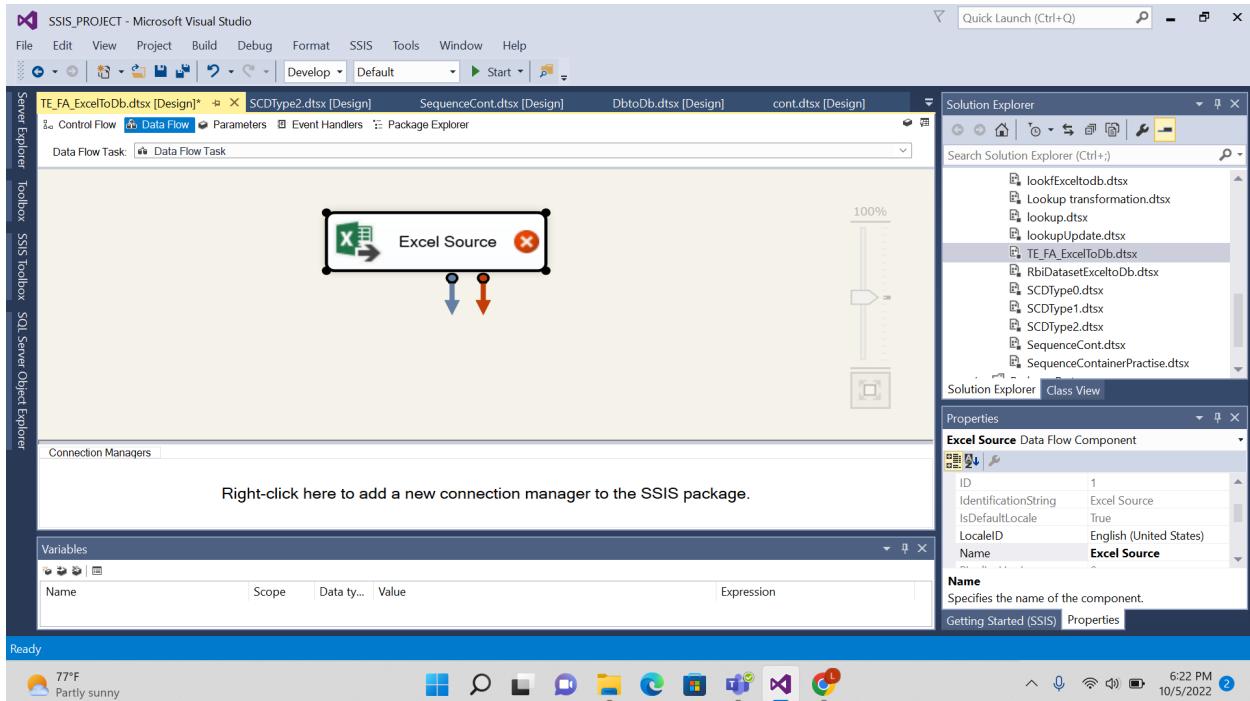
A	B	C	D	E	F	G	H
1	PID	AGE	GENDER	CATEGORY_NAME	SURGERY_CODE	SURGERY	VILLAGE
2	56	Female		NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Lolugu
3	2	37	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Borivanka
4	3	50	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Kapasakuddi
5	4	45	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Telikipenta
6	5	54	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Thandemvalasa
7	6	35	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Phasigangupeta
8	7	52	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Kranti Nagar
9	8	73	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Bhoghapuram
10	9	56	Male	CARDIAC AND CARDIOTHORAC	S7.1.1	Coronary Balloon Angioplasty	Vallur
11	10	49	Male	CARDIAC AND CARDIOTHORAC	S7.2.1.1	Coronary Bypass Surgery	Ward-15
12	11	52	Male	NEPHROLOGY	M6.5	Maintenance Hemodialysis F	Rajam
13	12	56	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI	W Thurlapadu
14	13	65	Female	CARDIOLOGY	M5.1.5	Medical Management of Ref	Pulipadu
15	14	75	Male	CARDIOLOGY	M5.1.5	Medical Management of Ref	Karlapalem
16	15	52	Male	CARDIOLOGY	M5.1.5	Medical Management of Ref	Ward-19
17	16	56	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI	W Tullur
18	17	1	Male(Child)	COCHLEAR IMPLANT SURGERY	S16.1.1	Cochlear Implant Surgery	Phirangipuram
19	18	54	Female	CARDIAC AND CARDIOTHORAC	S7.2.1.1	Coronary Bypass Surgery	Kolakalur
20	19	48	Male	CARDIAC AND CARDIOTHORAC	S7.2.1.1	Coronary Bypass Surgery	Vellalur
							Ponnur

->Steps to Execute SSIS Package:

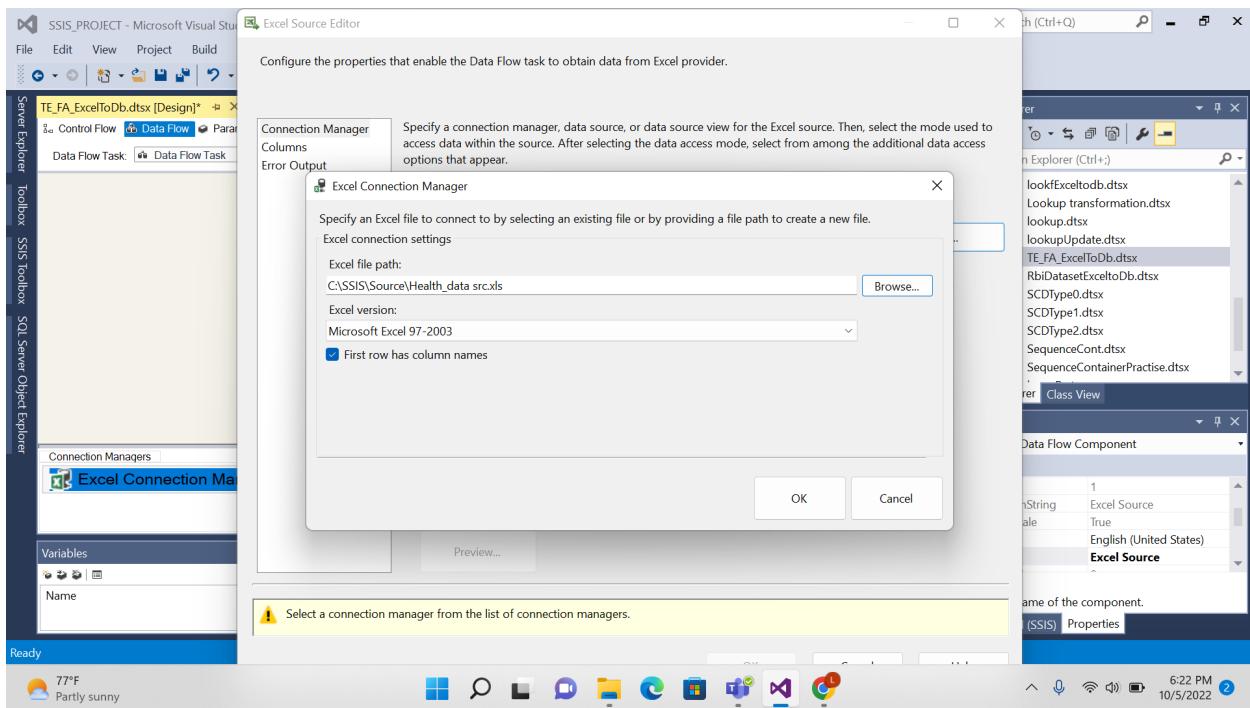
- Step 1-



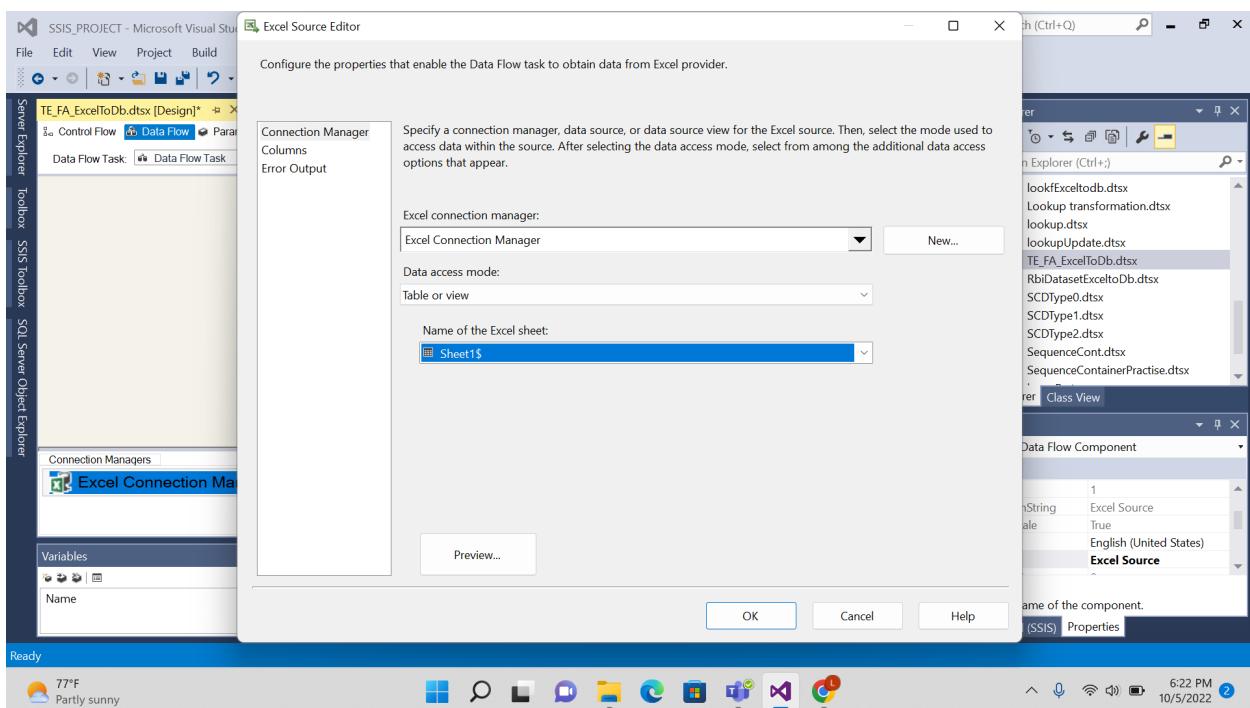
- Step 2-



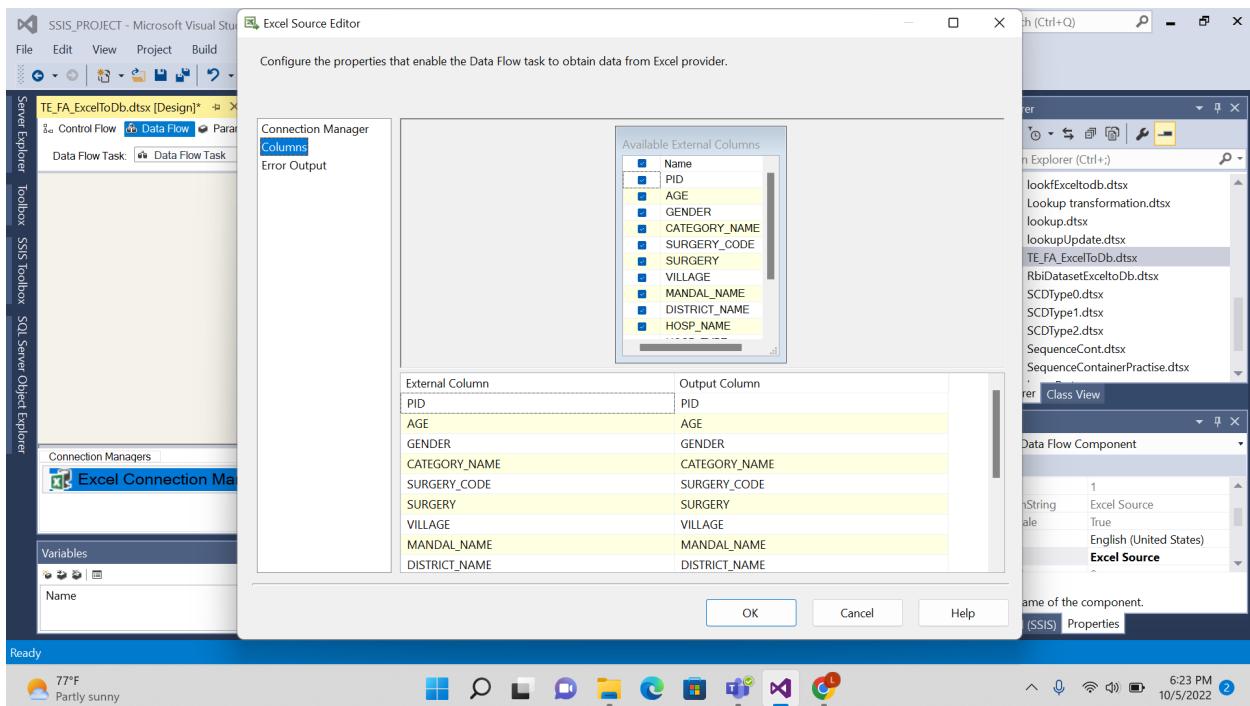
- Step 3-



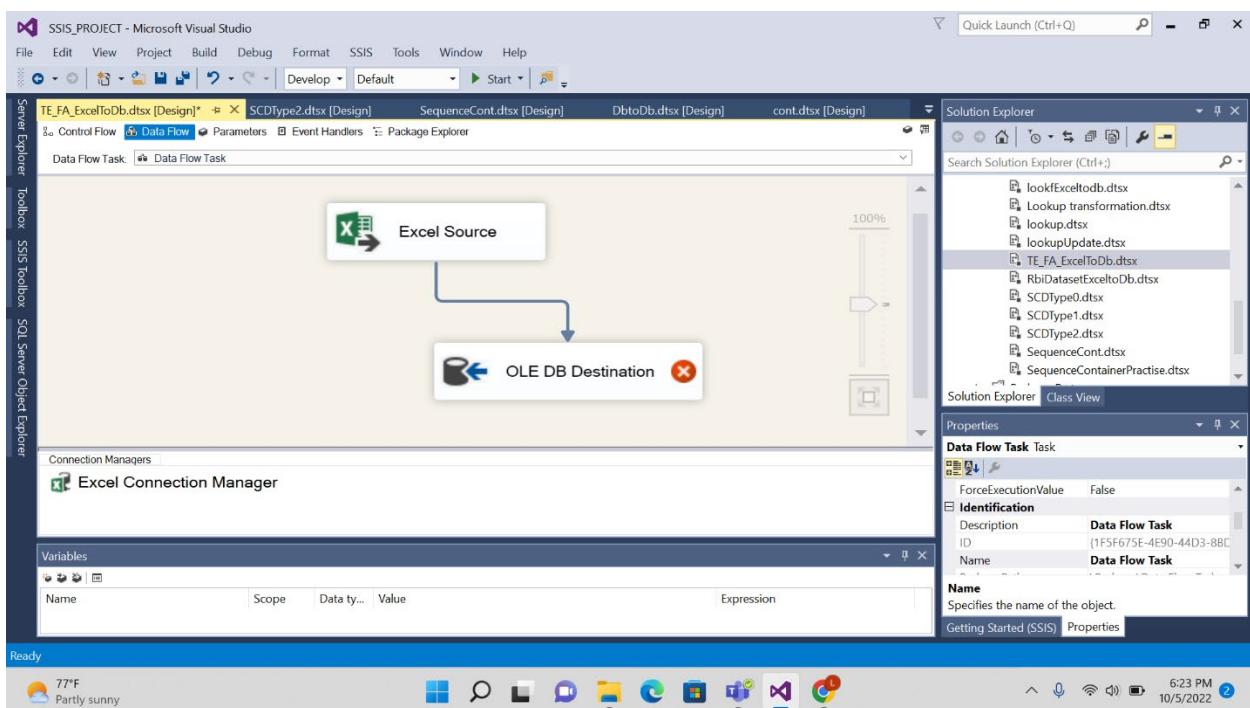
● Step 4-



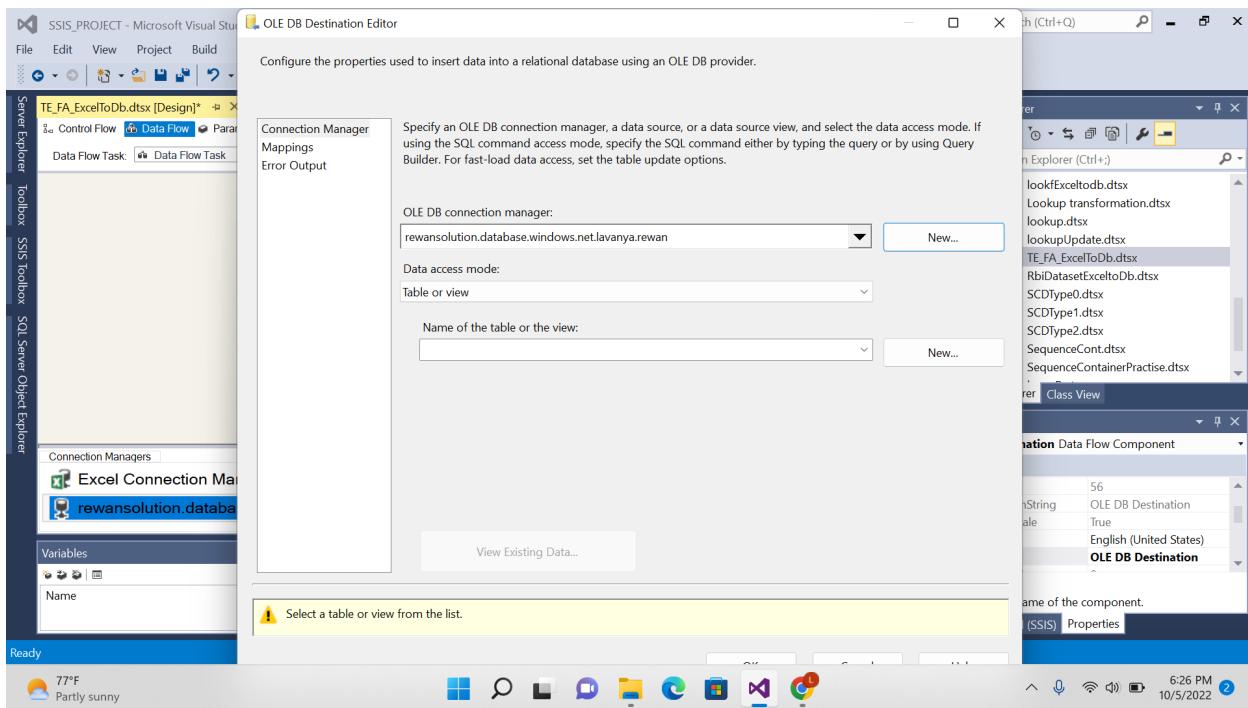
● Step 5-



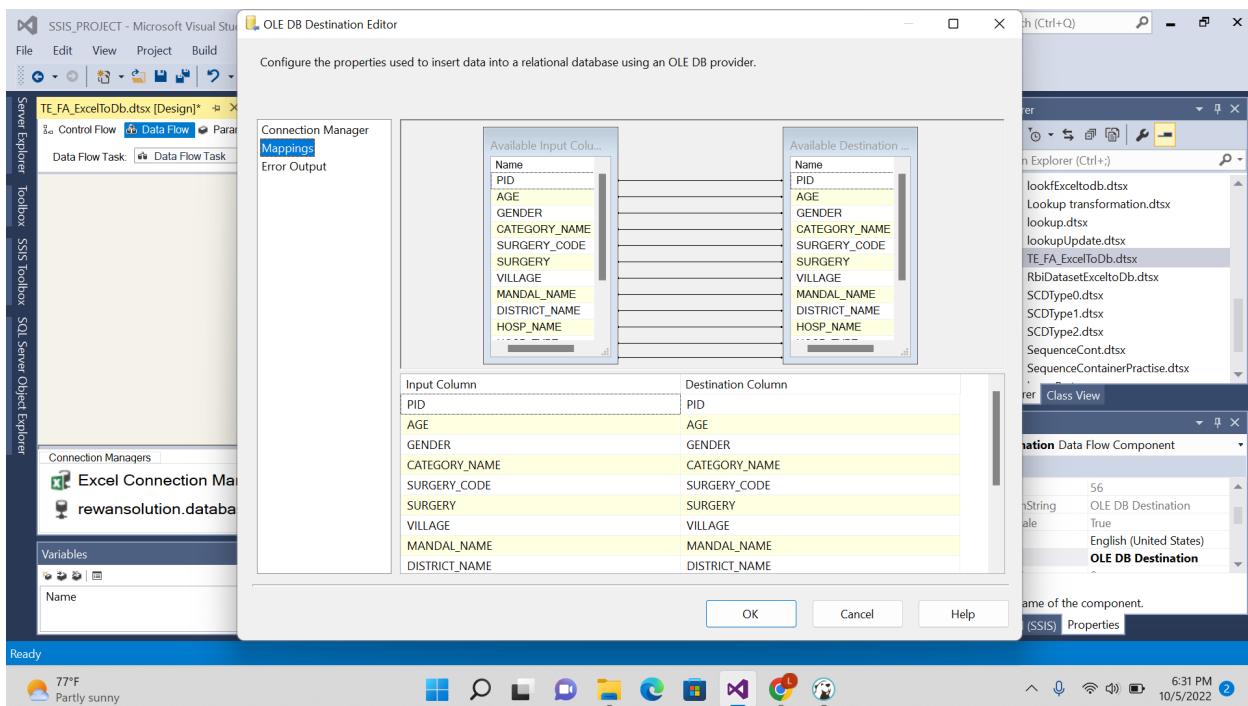
- Step 6-



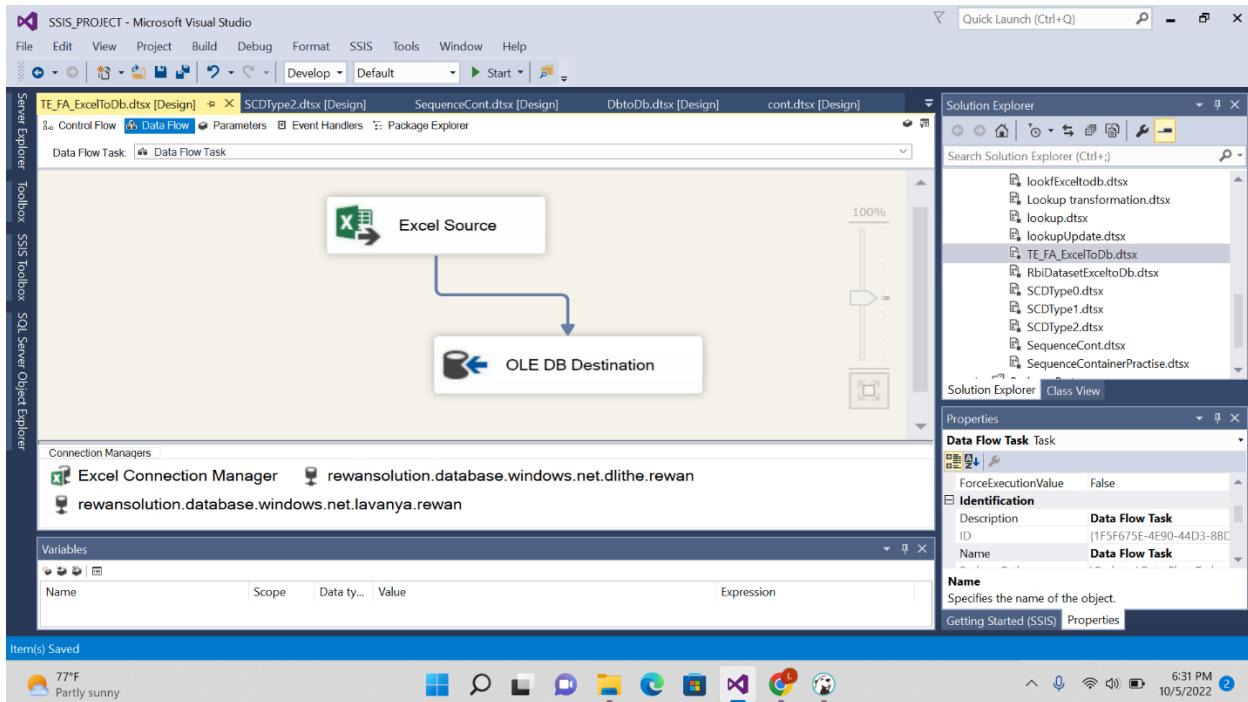
- Step 7-



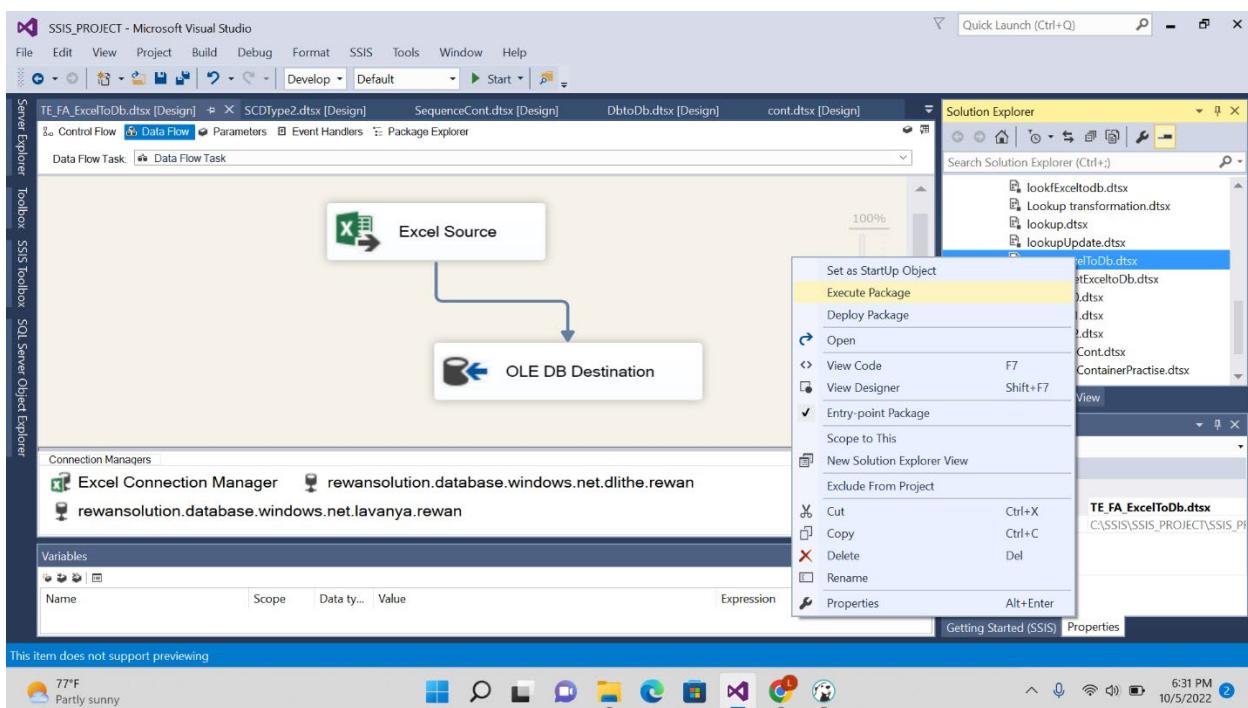
● Step 8-



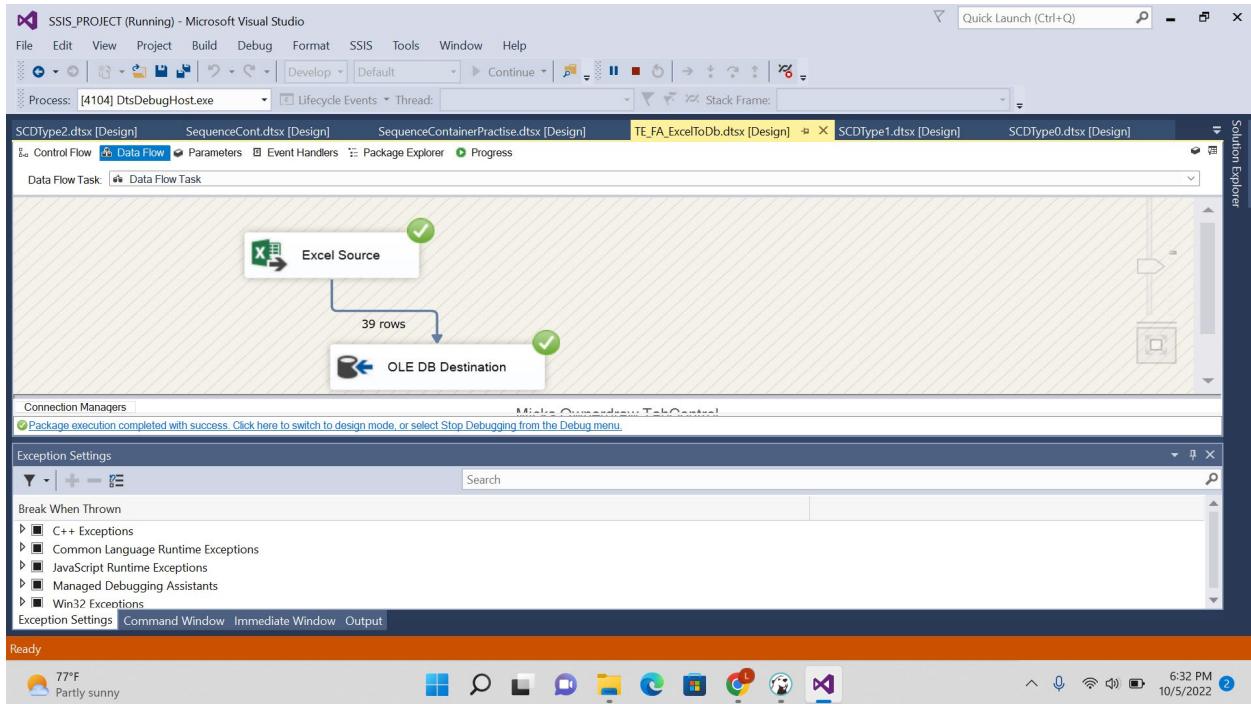
● Step 9-



- Step 10-



- Step 11-



Destination: SQL (OLE DB)

The screenshot shows the DBeaver interface with several tabs open. The "SQL" tab contains the following SQL code:

```


--> <dlithe> database.sql <oracle-88094-0.cloudclusters.net> Script-1 <lavanya> Referential integrity.sql <lavanya> Script-2
ALTER TABLE TE_FA_CINEMA
ADD BOOKING_ID INT
TRUNCATE TABLE TE_FA_CINEMA
DROP TABLE TE_FA_CINEMA

-----MODULE 2-----
----SSIS-----
----EXCELTODB-----

--SOURCE TABLE----(EXCEL FILE-HEALTH_DATA_SRC)

-----DESTINATION TABLE-----
CREATE TABLE TE_FA_HEALTH_DEST
(
    [PID] float,
    [AGE] float,
    [GENDER] nvarchar(255),
    [CATEGORY_NAME] nvarchar(255),
    [SURGERY_CODE] nvarchar(255),
    [SURGERY] nvarchar(255),
    [VILLAGE] nvarchar(255),
    [MANDAL_NAME] nvarchar(255),
    [DISTRICT_NAME] nvarchar(255),
    [HOSP_NAME] nvarchar(255),
    [HOSP_TYPE] nvarchar(255),
    [CLAIM_AMOUNT] float,
    [SURGERY_DATE] datetime,
    [DISCHARGE_DATE] datetime
)
SELECT * FROM TE_FA_HEALTH_DEST

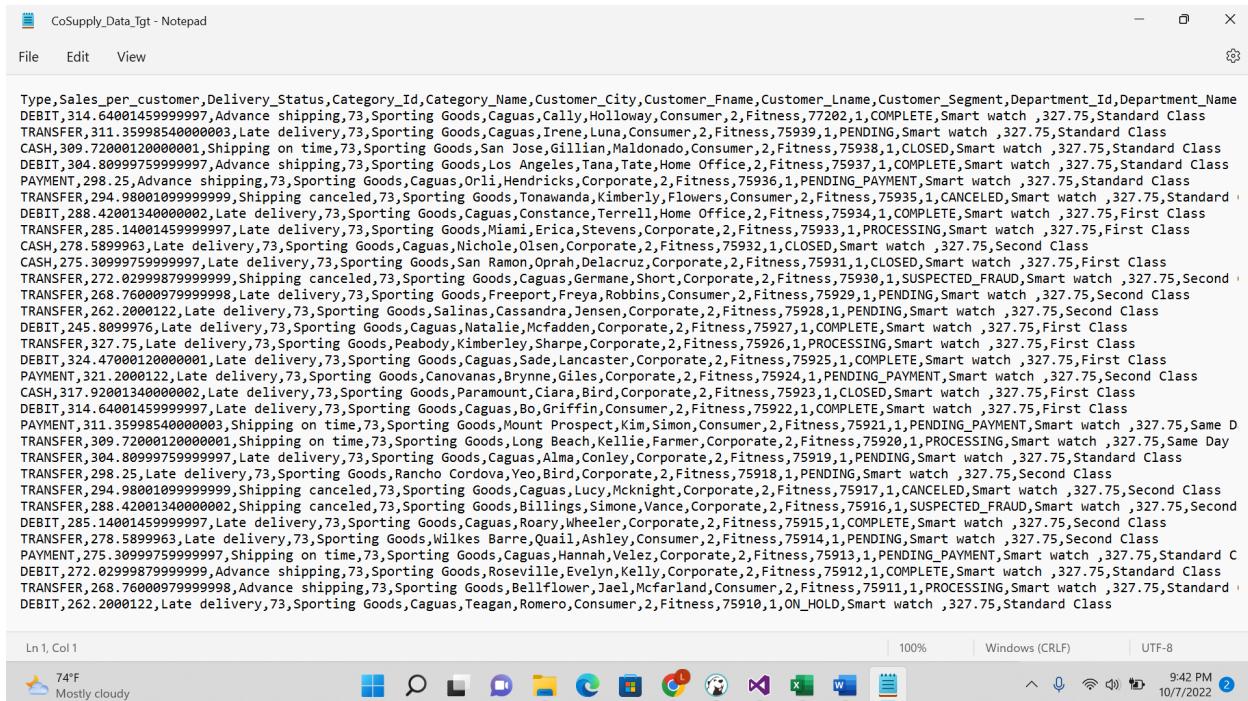

```

The "Database Navigator" tab shows a connection to "lavanya" database. The "Project - General" tab shows a "DataSource" entry. The system tray at the bottom indicates "77°F Partly sunny" and the date/time "6:33 PM 10/5/2022".

Result:

->FLAT FILE TO DB:

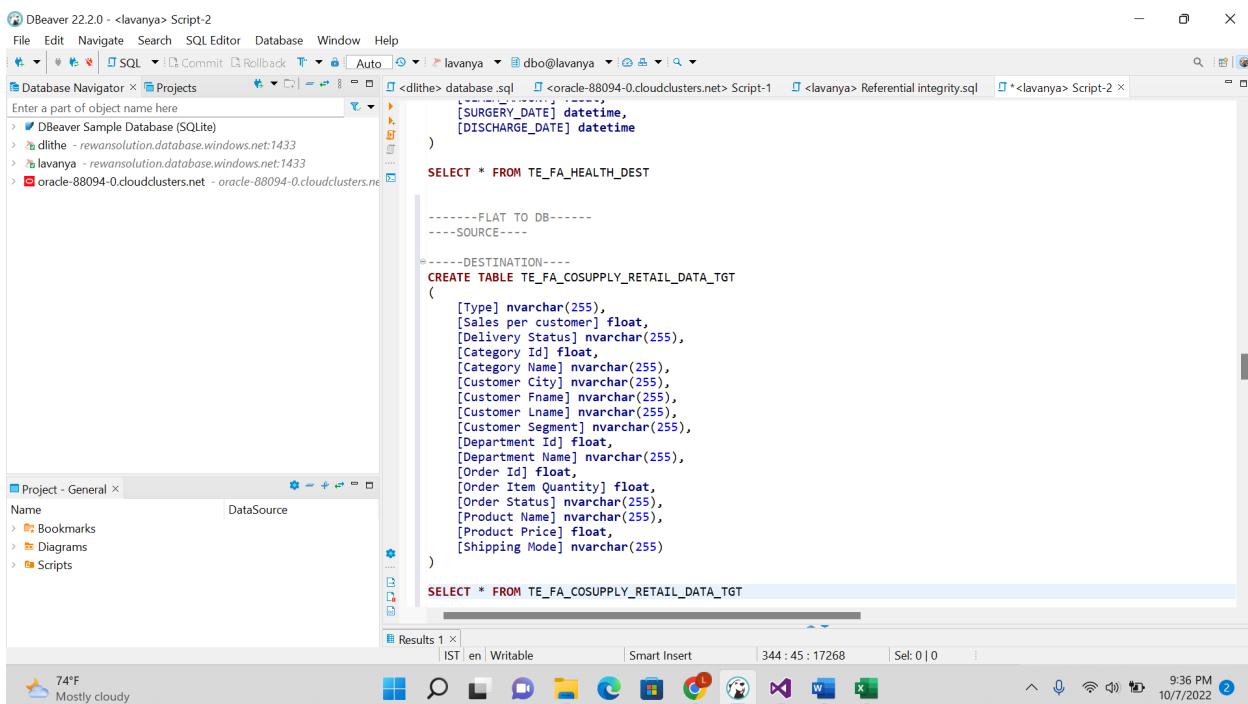
SOURCE:FLAT FILE(COSUPPLY_RETAIL_DATA)



The screenshot shows a Notepad window titled "CoSupply_Data_Tgt - Notepad". The content of the window is a large block of text representing a flat file named "COSUPPLY_RETAIL_DATA". The text is a CSV-like structure with many columns, including Type, Sales_per_customer, Delivery_Status, Category_Id, Category_Name, Customer_City, Customer_Fname, Customer_Lname, Customer_Segment, Department_Id, Department_Name, DEBIT, etc. The data spans multiple lines and includes various types of entries such as TRANSFER, CASH, PAYMENT, and DEBIT.

```
Type,Sales_per_customer,Delivery_Status,Category_Id,Category_Name,Customer_City,Customer_Fname,Customer_Lname,Customer_Segment,Department_Id,Department_Name
DEBIT,314.64001459999997,Advance shipping,73,Sporting Goods,Caguas,Cally,Holloway,Consumer,2,Fitness,77202,1,COMPLETE,Smart watch ,327.75,Standard Class
TRANSFER,311.3599854000003,Late delivery,73,Sporting Goods,Caguas,Irene,Luna,Consumer,2,Fitness,75939,1,PENDING,Smart watch ,327.75,Standard Class
CASH,309.72000120000001,Shipping on time,73,Sporting Goods,San Jose,Gillian,Maldonado,Consumer,2,Fitness,75938,1,CLOSED,Smart watch ,327.75,Standard Class
DEBIT,304.8099759999997,Advance shipping,73,Sporting Goods,Los Angeles,Tana,Tate,Home Office,2,Fitness,75937,1,COMPLETE,Smart watch ,327.75,Standard Class
PAYMENT,298.25,Advance shipping,73,Sporting Goods,Caguas,Ori,Hendricks,Corporate,2,Fitness,75936,1,PENDING_PAYMENT,Smart watch ,327.75,Standard Class
TRANSFER,294.9800189999999,Shipping canceled,73,Sporting Goods,Tonawanda,Kimberly,Flowers,Consumer,2,Fitness,75935,1,CANCELED,Smart watch ,327.75,Standard Class
DEBIT,288.4200134000002,Late delivery,73,Sporting Goods,Caguas,Constance,Terrell,Home Office,2,Fitness,75934,1,COMPLETE,Smart watch ,327.75,First Class
TRANSFER,285.14001459999997,Late delivery,73,Sporting Goods,Miami,Erica,Stevens,Corporate,2,Fitness,75933,1,PROCESSING,Smart watch ,327.75,First Class
CASH,278.5899963,Late delivery,73,Sporting Goods,Caguas,Nichole,Olsen,Corporate,2,Fitness,75932,1,CLOSED,Smart watch ,327.75,Second Class
CASH,275.3099759999997,Late delivery,73,Sporting Goods,San Ramon,Oprah,Delacruz,Corporate,2,Fitness,75931,1,CLOSED,Smart watch ,327.75,First Class
TRANSFER,272.02999875999999,Shipping canceled,73,Sporting Goods,Caguas,Germann,Short,Corporate,2,Fitness,75930,1,SUSPECTED_FRAUD,Smart watch ,327.75,Second Class
TRANSFER,268.7600097999998,Late delivery,73,Sporting Goods,Freepoint,Freya,Robbins,Consumer,2,Fitness,75929,1,PENDING,Smart watch ,327.75,Second Class
TRANSFER,262.2000122,Late delivery,73,Sporting Goods,Salinas,Cassandra,Jensen,Corporate,2,Fitness,75928,1,PENDING,Smart watch ,327.75,Second Class
DEBIT,245.8099976,Late delivery,73,Sporting Goods,Caguas,Natalie,Mcfadden,Corporate,2,Fitness,75927,1,COMPLETE,Smart watch ,327.75,First Class
TRANSFER,237.75,Late delivery,73,Sporting Goods,Peabody,Kimberley,Sharpe,Corporate,2,Fitness,75926,1,PROCESSING,Smart watch ,327.75,First Class
DEBIT,324.47000120000001,Late delivery,73,Sporting Goods,Caguas,Sade,Lancaster,Corporate,2,Fitness,75925,1,COMPLETE,Smart watch ,327.75,First Class
PAYMENT,321.2000122,Late delivery,73,Sporting Goods,Canovanas,Bryanne,Giles,Corporate,2,Fitness,75924,1,PENDING_PAYMENT,Smart watch ,327.75,Second Class
CASH,317.9200134000002,Late delivery,73,Sporting Goods,Paramount,Clara,Bird,Corporate,2,Fitness,75923,1,CLOSED,Smart watch ,327.75,First Class
DEBIT,314.64001459999997,Late delivery,73,Sporting Goods,Caguas,Bo,Griffin,Consumer,2,Fitness,75922,1,COMPLETE,Smart watch ,327.75,First Class
PAYMENT,311.35998540000003,Shipping on time,73,Sporting Goods,Mount Prospect,Kim,Simon,Consumer,2,Fitness,75921,1,PENDING_PAYMENT,Smart watch ,327.75,Same Day
TRANSFER,309.8099759999997,Late delivery,73,Sporting Goods,Long Beach,Kellie,Farmer,Corporate,2,Fitness,75920,1,PROCESSING,Smart watch ,327.75,Standard Class
TRANSFER,298.25,Late delivery,73,Sporting Goods,Rancho Cordova,Yeo,Bird,Corporate,2,Fitness,75919,1,PENDING,Smart watch ,327.75,Second Class
TRANSFER,294.9800189999999,Shipping canceled,73,Sporting Goods,Caguas,Lucy,Mcknight,Corporate,2,Fitness,75918,1,CANCELED,Smart watch ,327.75,Second Class
TRANSFER,288.42001340000002,Shipping canceled,73,Sporting Goods,Billings,Simone,Vance,Corporate,2,Fitness,75917,1,SUSPECTED_FRAUD,Smart watch ,327.75,Second Class
TRANSFER,278.5899963,Late delivery,73,Sporting Goods,Wilkes,Barre,Quail,Ashley,Consumer,2,Fitness,75914,1,PENDING,Smart watch ,327.75,Second Class
PAYMENT,275.3099759999997,Shipping on time,73,Sporting Goods,Caguas,Hannah,Velez,Corporate,2,Fitness,75913,1,PENDING_PAYMENT,Smart watch ,327.75,Standard Class
DEBIT,272.02999875999999,Advance shipping,73,Sporting Goods,Roseville,Evelyn,Kelly,Corporate,2,Fitness,75912,1,COMPLETE,Smart watch ,327.75,Standard Class
TRANSFER,268.7600097999998,Advance shipping,73,Sporting Goods,Bellflower,Jael,Mcfarland,Consumer,2,Fitness,75911,1,PROCESSING,Smart watch ,327.75,Standard Class
DEBIT,262.2000122,Late delivery,73,Sporting Goods,Caguas,Teagan,Romero,Consumer,2,Fitness,75910,1,ON_HOLD,Smart watch ,327.75,Standard Class
```

DESTINATION FILE:SQL(OLE DB)



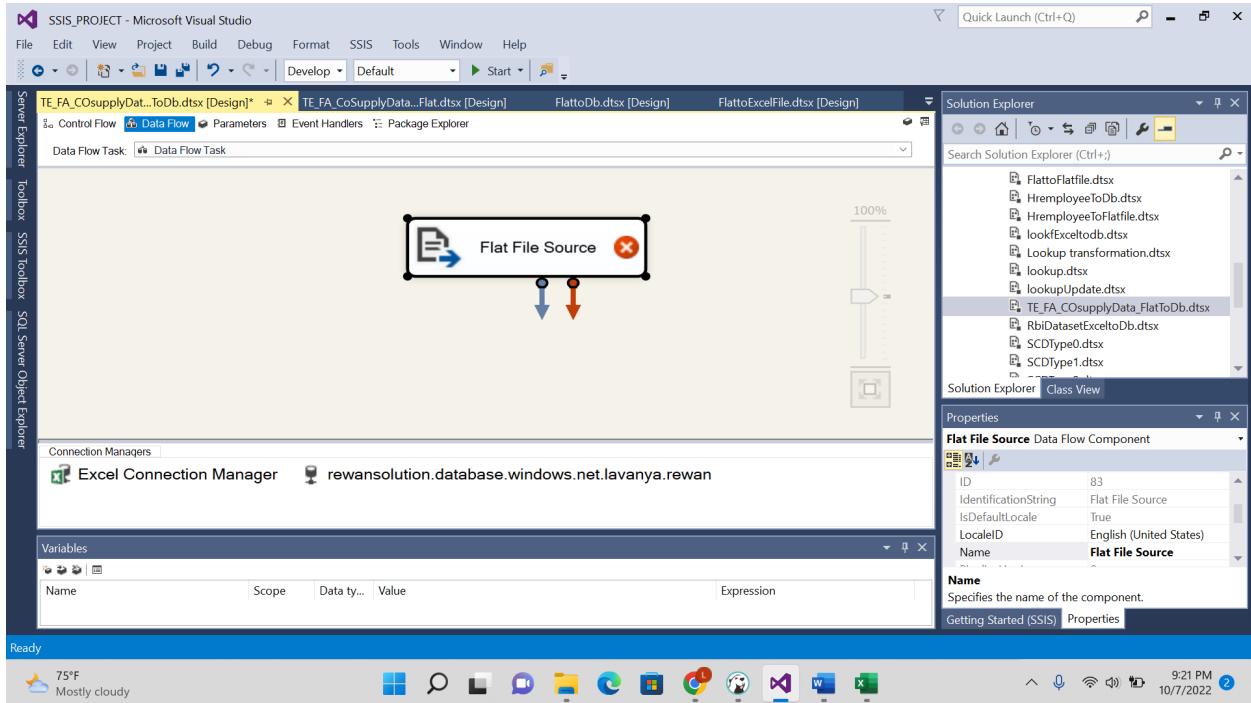
The screenshot shows the DBeaver 22.2.0 interface. The main window displays a SQL script for creating a table named "TE_FA_COSUPPLY_RETAIL_DATA_TGT". The script includes comments for the source and destination tables, and a section for the destination table definition. The table has 25 columns, each with a specific data type. Below the script, there is a "SELECT * FROM TE_FA_COSUPPLY_RETAIL_DATA_TGT" query. The bottom part of the screen shows the "Results 1" tab with the query results. The status bar at the bottom indicates "10/7/2022" and "9:36 PM".

```
--FLAT TO DB-----
---SOURCE-----
-----DESTINATION-----
CREATE TABLE TE_FA_COSUPPLY_RETAIL_DATA_TGT
(
    [Type] nvarchar(255),
    [Sales per customer] float,
    [Delivery Status] nvarchar(255),
    [Category Id] float,
    [Category Name] nvarchar(255),
    [Customer City] nvarchar(255),
    [Customer Fname] nvarchar(255),
    [Customer Lname] nvarchar(255),
    [Customer Segment] nvarchar(255),
    [Department Id] float,
    [Department Name] nvarchar(255),
    [Order Id] float,
    [Order Item Quantity] float,
    [Order Status] nvarchar(255),
    [Product Name] nvarchar(255),
    [Product Price] float,
    [Shipping Mode] nvarchar(255)
)

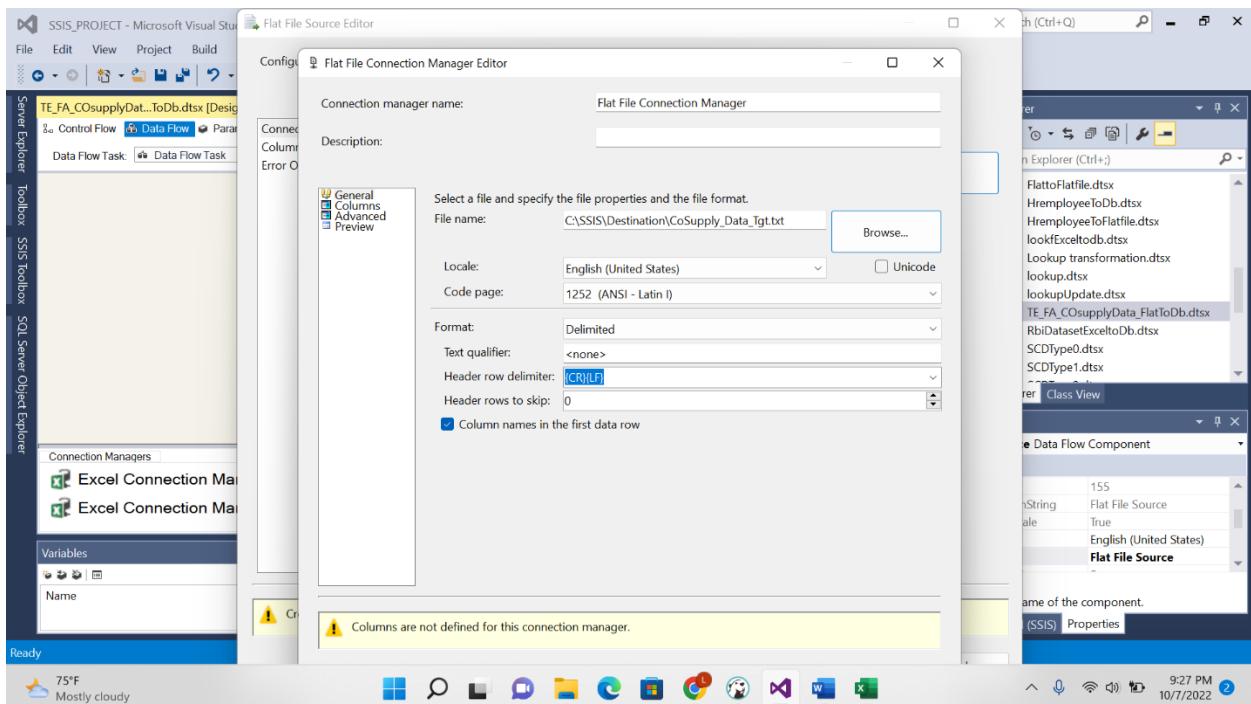
SELECT * FROM TE_FA_COSUPPLY_RETAIL_DATA_TGT
```

STEPS TO EXECUTE SSIS PACKAGE:

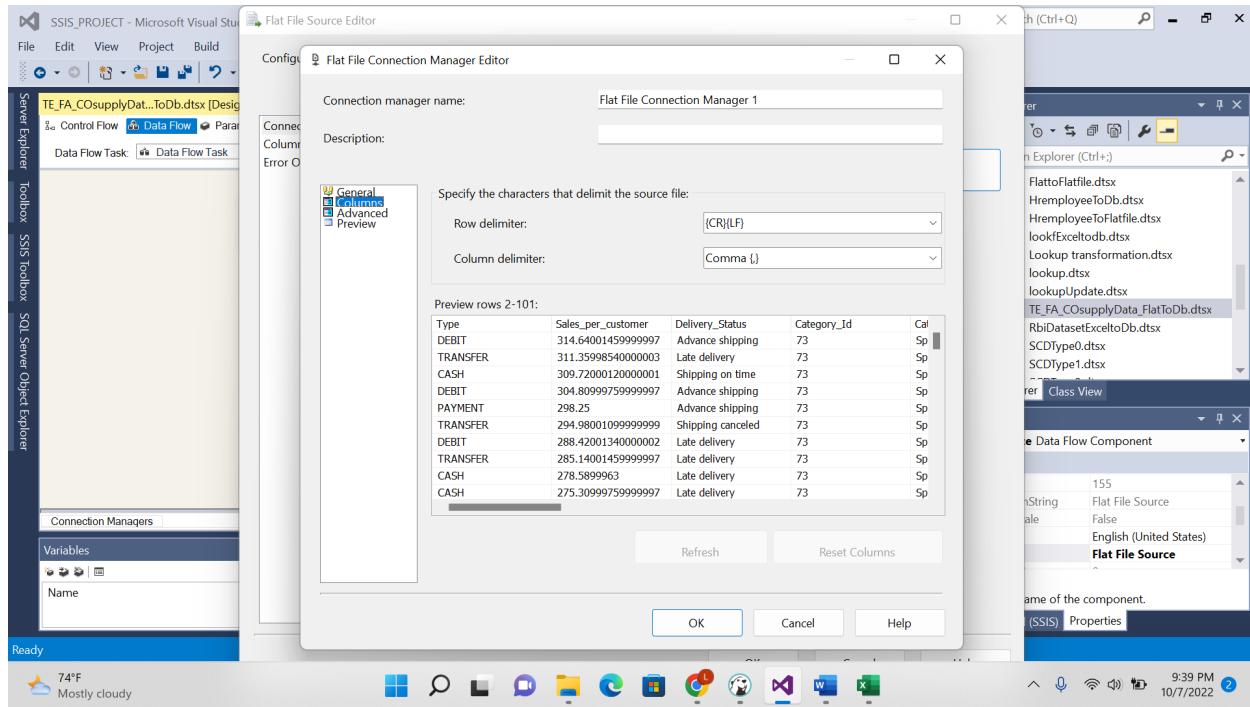
STEP 1-



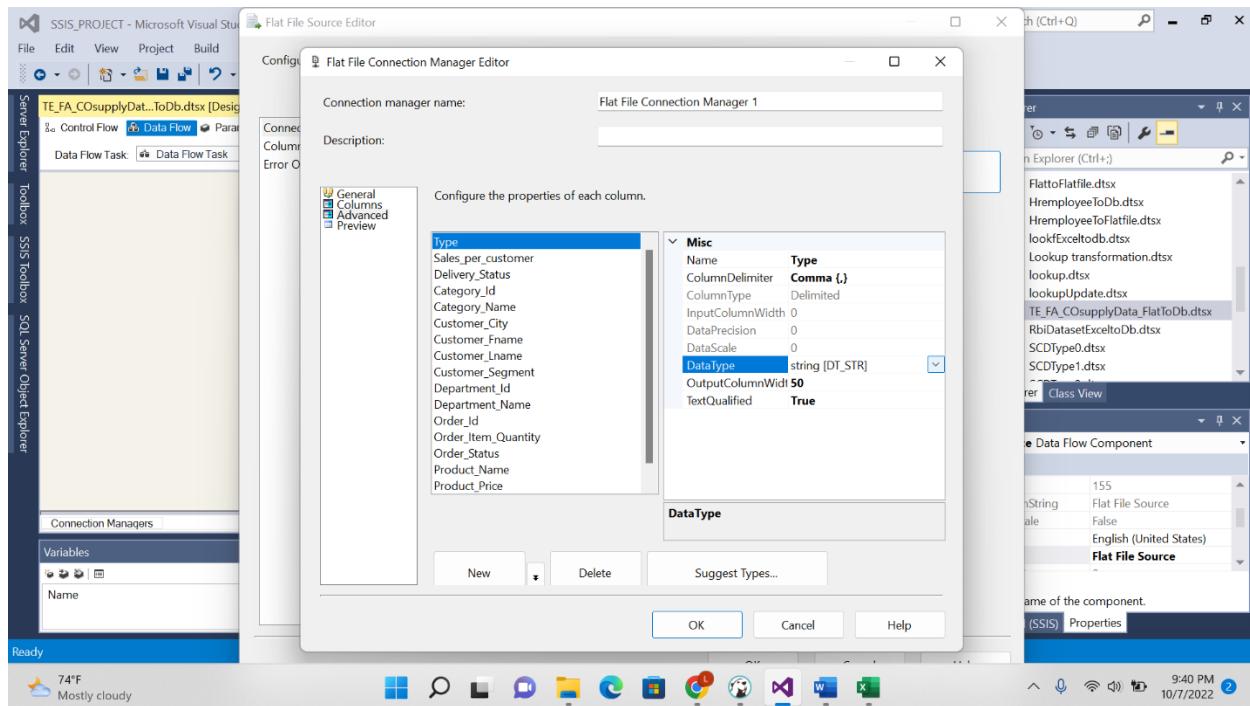
STEP 2-



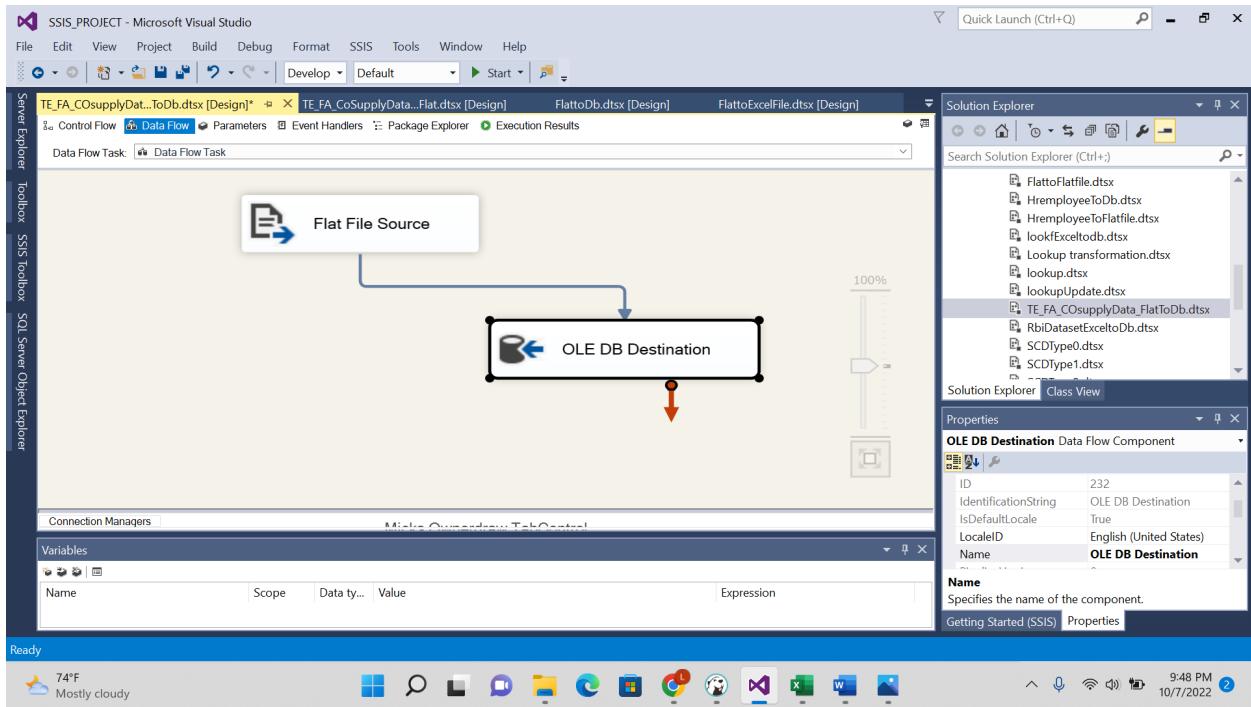
STEP 3-



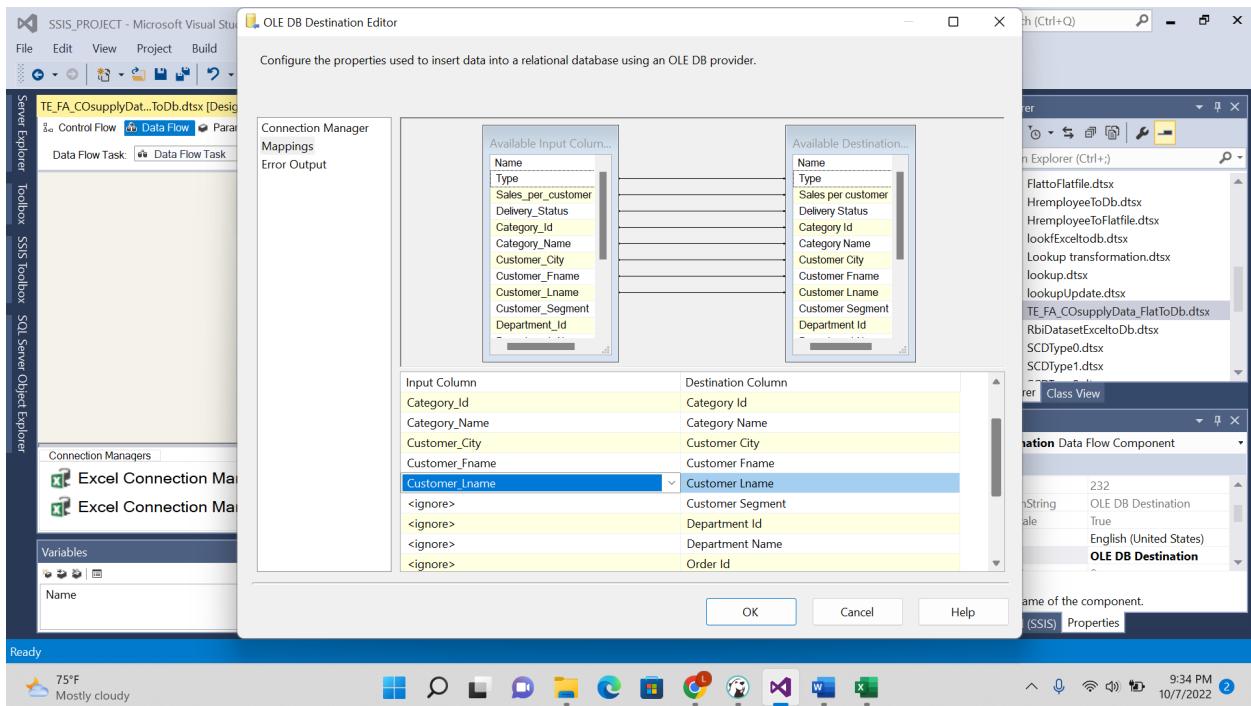
STEP 4-



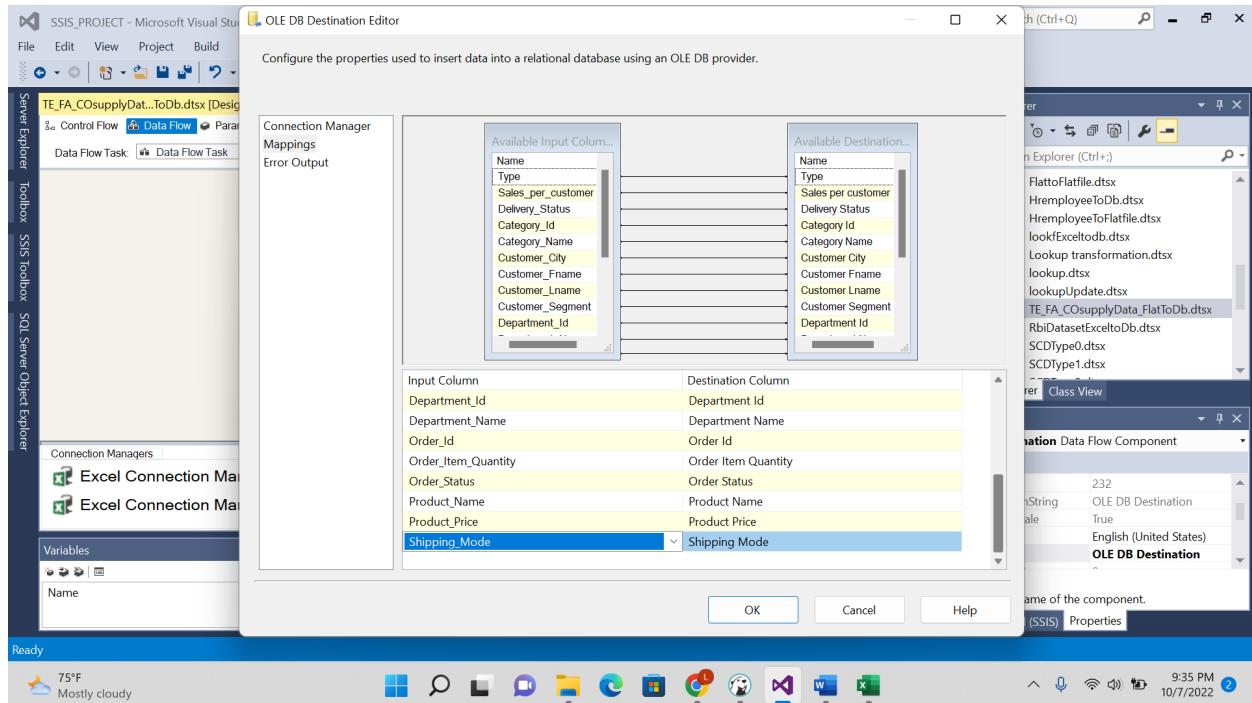
STEP 5-



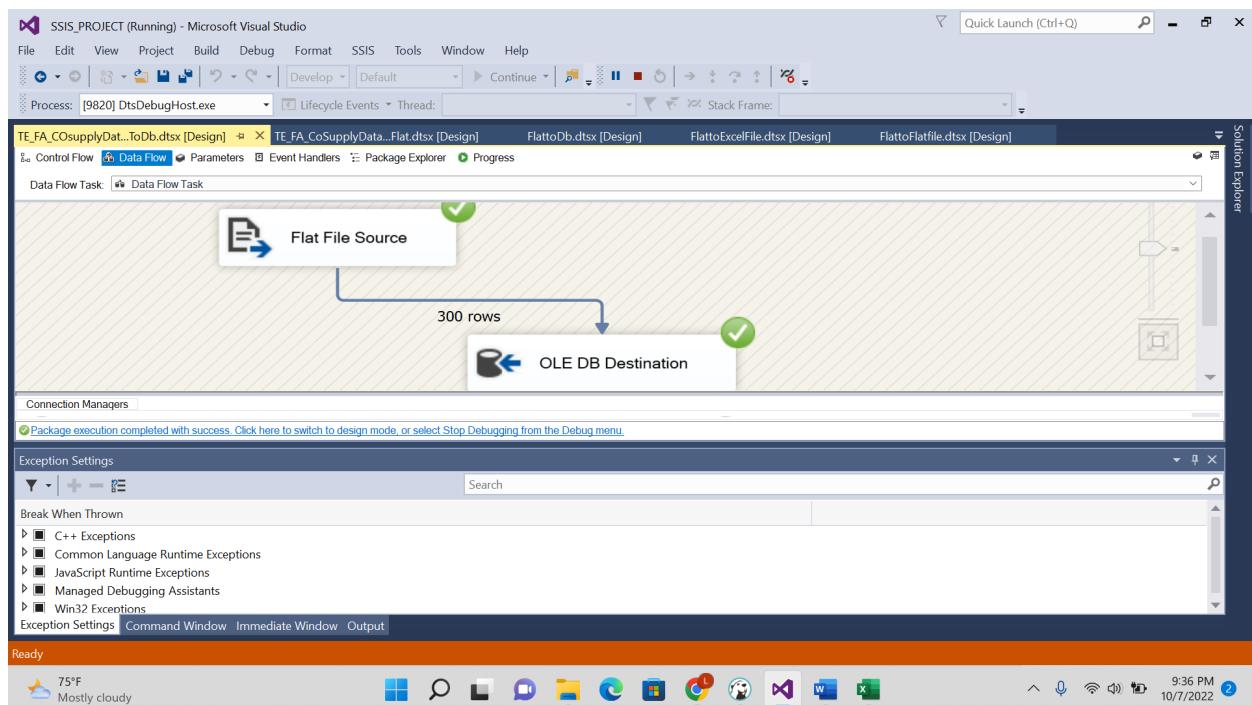
STEP 6-



STEP 7-



RESULT:



DBeaver 22.2.0 - <lavanya> Script-2

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

> lavanya - rewsolution.database.windows.net:1433

> oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

Results 1 ×

SELECT * FROM TE_FA_COSUPPLY_RET Enter a SQL expression to filter results (use Ctrl+Space)

Type	Sales per customer	Delivery Status	Category Id	Category Name	Customer City	Customer Fname
DEBIT	314.6400146	Advance shipping	73	Sporting Goods	Caguas	Cally
TRANSFER	311.3599854	Late delivery	73	Sporting Goods	Caguas	Irene
CASH	309.7200012	Shipping on time	73	Sporting Goods	San Jose	Gillian
DEBIT	304.8099976	Advance shipping	73	Sporting Goods	Los Angeles	Tana
PAYMENT	298.25	Advance shipping	73	Sporting Goods	Caguas	Orli
TRANSFER	294.980011	Shipping canceled	73	Sporting Goods	Tonawanda	Kimberly
DEBIT	288.4200134	Late delivery	73	Sporting Goods	Caguas	Constance
TRANSFER	285.1400146	Late delivery	73	Sporting Goods	Miami	Erica
CASH	278.5899963	Late delivery	73	Sporting Goods	Caguas	Nichole
CASH	275.3099976	Late delivery	73	Sporting Goods	San Ramon	Oprah
TRANSFER	272.0299988	Shipping canceled	73	Sporting Goods	Caguas	Germane
TRANSFER	268.7600098	Late delivery	73	Sporting Goods	Freeport	Freya
TRANSFER	262.2000122	Late delivery	73	Sporting Goods	Salinas	Cassandra
DEBIT	245.8099976	Late delivery	73	Sporting Goods	Caguas	Natalie
TRANSFER	327.75	Late delivery	73	Sporting Goods	Peabody	Kimberley
DEBIT	324.4700012	Late delivery	73	Sporting Goods	Caguas	Sade
PAYMENT	321.2000122	Late delivery	73	Sporting Goods	Canovanas	Brynn
CASH	317.9200134	Late delivery	73	Sporting Goods	Paramount	Ciara
DEBIT	314.6400146	Late delivery	73	Sporting Goods	Caguas	Bo
PAYMENT	311.3599854	Shipping on time	73	Sporting Goods	Mount Prospect	Kim
TRANSFER	309.7200012	Shipping on time	73	Sporting Goods	Long Beach	Kellie
TRANSFER	304.8099976	Late delivery	73	Sporting Goods	Caguas	Alma
TOTALS						

Project - General ×

Name DataSource

Record

Save Cancel Script Smart Insert IST en Writable Rows: 0 | 200+ | Sel: 0 | 0 | 344 : 45 : 17268 9:37 PM 10/7/2022

74°F Mostly cloudy

DBeaver 22.2.0 - <lavanya> Script-2

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

> lavanya - rewsolution.database.windows.net:1433

> oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

Results 1 ×

SELECT * FROM TE_FA_COSUPPLY_RET Enter a SQL expression to filter results (use Ctrl+Space)

Type	Sales per customer	Delivery Status	Category Id	Category Name	Customer City	Customer Fname
DEBIT	207.5	Late delivery	24	Women's Apparel	Loweland	Mary
DEBIT	207.5	Advance shipping	24	Women's Apparel	Virginia Beach	Richard
DEBIT	205	Advance shipping	24	Women's Apparel	Louisville	Deborah
DEBIT	205	Late delivery	24	Women's Apparel	Lockport	Emma
DEBIT	205	Late delivery	24	Women's Apparel	Chicago	Mary
DEBIT	200	Shipping on time	24	Women's Apparel	Staten Island	Adam
DEBIT	149.9600067	Late delivery	29	Shop By Sport	Tucson	Mary
DEBIT	187.5	Late delivery	24	Women's Apparel	Plymouth	Roy
DEBIT	124.9499969	Late delivery	40	Accessories	Cleveland	Mary
DEBIT	118.6999969	Late delivery	40	Accessories	Bronx	Sarah
DEBIT	118.0800018	Advance shipping	40	Accessories	Webster	Edward
DEBIT	74.34999847	Late delivery	41	Trade-In	Stockton	Harry
DEBIT	67.16000366	Late delivery	41	Trade-In	Amarillo	Mary
DEBIT	131.1600037	Advance shipping	37	Electronics	Martinsburg	Charles
DEBIT	119.9599991	Advance shipping	44	Hunting & Shooting	Cumberland	Mary
DEBIT	186.7100067	Advance shipping	6	Tennis & Racquet	Pekin	Debra
DEBIT	474.9500122	Advance shipping	9	Cardio Equipment	Tallahassee	Jennifer
DEBIT	299.9500122	Advance shipping	17	Cleats	Jacksonville	Mary
DEBIT	165.9600067	Advance shipping	29	Shop By Sport	Woonsocket	Doris
DEBIT	200	Late delivery	24	Women's Apparel	Stockton	Benjamin
DEBIT	196.7599945	Late delivery	37	Electronics	Lithonia	Stephanie

Project - General ×

Name DataSource

Record

Save Cancel Script Smart Insert IST en Writable Rows: 0 | 300+ | Sel: 0 | 0 | 344 : 45 : 17268 9:37 PM 10/7/2022

74°F Mostly cloudy

5. Perform SCD 1 & SCD2 dimension table modelling

->SCD1:

Source table: TE_FA_HEALTH_DEST(Health_data)

DBeaver 22.2.0 - <lavanya> Script-2

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

> lavanya - rewsolution.database.windows.net:1433

> oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

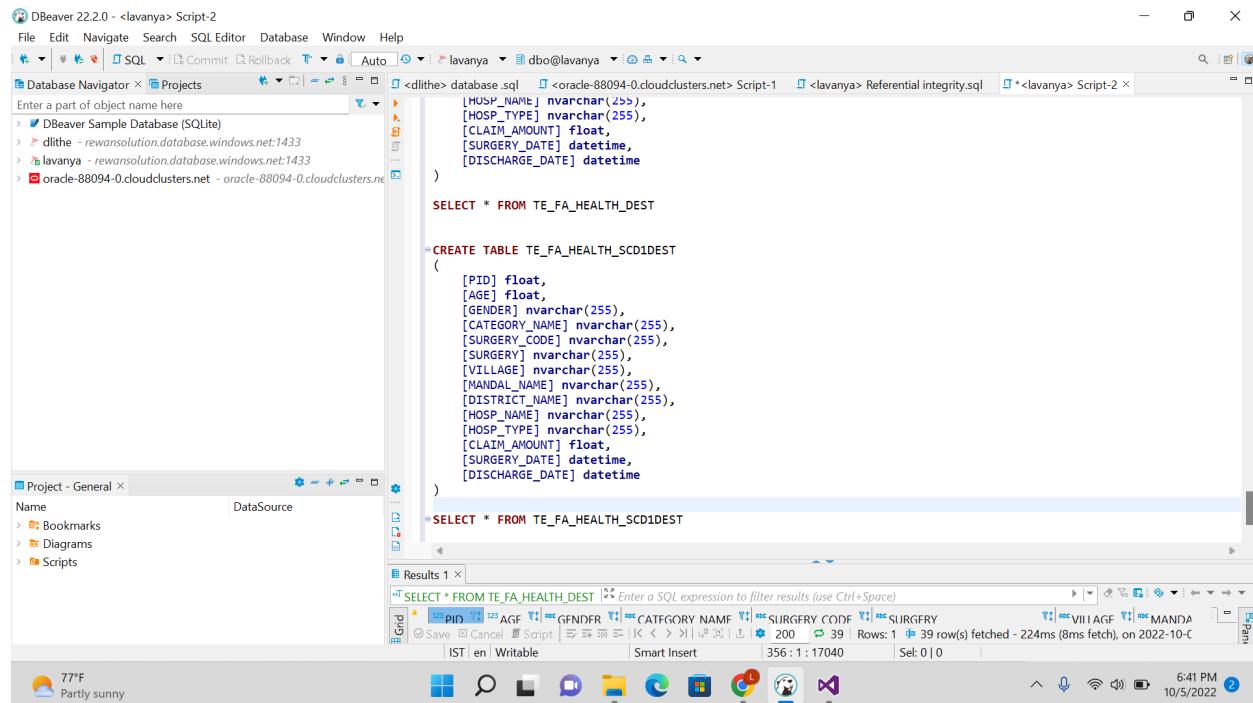
-----SCD TYPE 1-----
-----SOURCE TABLE-----
CREATE TABLE TE_FA_HEALTH_DEST
(
 [PID] float,
 [AGE] float,
 [GENDER] nvarchar(255),
 [CATEGORY_NAME] nvarchar(255),
 [SURGERY_CODE] nvarchar(255),
 [SURGERY] nvarchar(255),
 [VILLAGE] nvarchar(255),
 [MANDA_NAME] nvarchar(255),
 [DISTRICT_NAME] nvarchar(255),
 [HOSP_NAME] nvarchar(255),
 [HOSP_TYPE] nvarchar(255),
 [CLAIM_AMOUNT] float,
 [SURGERY_DATE] datetime,
 [DISCHARGE_DATE] datetime
)

SELECT * FROM TE_FA_HEALTH_DEST

-----CREATE TABLE TE_FA_HEALTH_SCD1DEST-----
(
 [PID] float,
 [AGE] float,
 [GENDER] nvarchar(255),
 [CATEGORY_NAME] nvarchar(255),
 [SURGERY_CODE] nvarchar(255),
 [SURGERY] nvarchar(255),
 [VILLAGE] nvarchar(255),
 [MANDA_NAME] nvarchar(255),
 [DISTRICT_NAME] nvarchar(255),
 [HOSP_NAME] nvarchar(255),
 [HOSP_TYPE] nvarchar(255),
 [CLAIM_AMOUNT] float,
 [SURGERY_DATE] datetime,
 [DISCHARGE_DATE] datetime
)

Results 1
SELECT * FROM TE_FA_HEALTH_DEST Enter a SQL expression to filter results (use Ctrl+Space)
Grid PID AGF GFNDFR CAGTY NAME SURGFRY CODE SURGFRY MANDA DISTRICT
Save Cancel Script 200 39 Rows: 1 39 row(s) fetched - 224ms (8ms fetch), on 2022-10-01 IST en Writable Smart Insert 356 : 1 : 17040 Sel: 0 | 0
77°F Partly sunny 6:41 PM 10/5/2022

Destination Table: TE_FA_HEALTH_SCD1DES



The screenshot shows the DBBeaver interface with the following details:

- File Bar:** File, Edit, Navigate, Search, SQL Editor, Database, Window, Help.
- Database Navigator:** Shows projects, databases, and connections. Current connection is 'lavanya'.
- SQL Editor:** Contains the following SQL code:

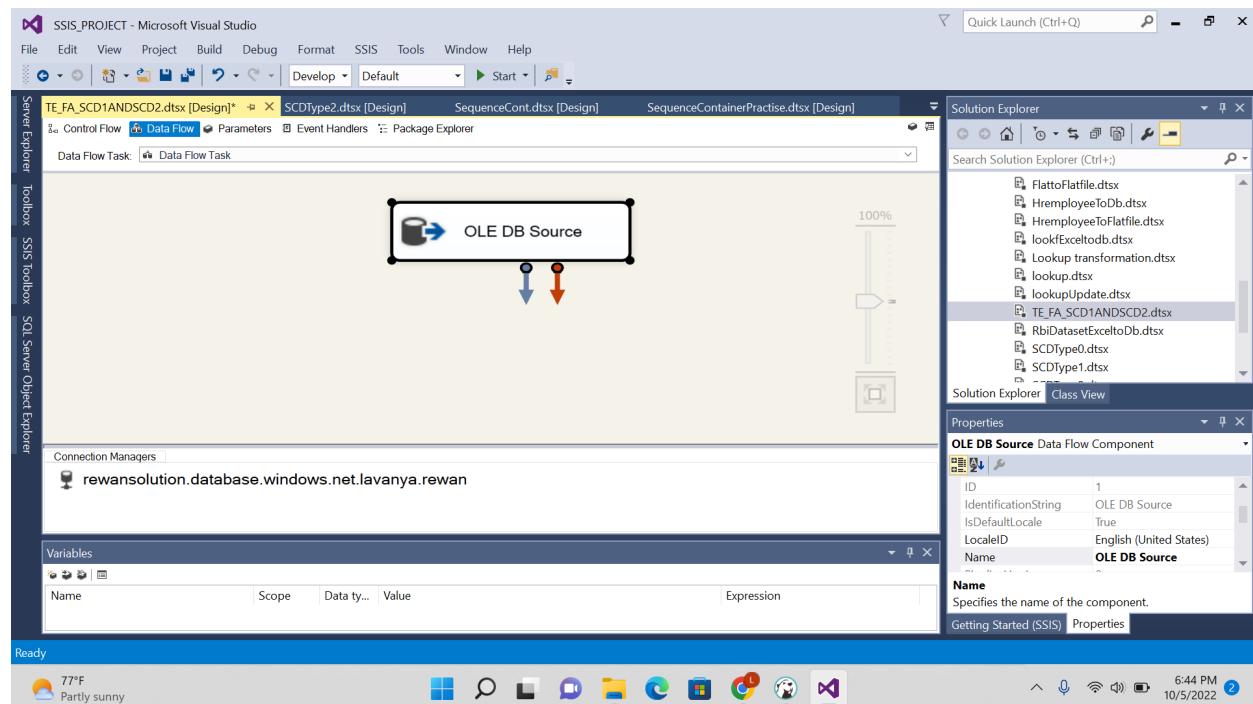
```
<dlithe> database.sql <oracle-88094-0.cloudclusters.net> Script-1 <lavanya> Referential integrity.sql <lavanya> Script-2 <lavanya> Script-2 x

--> <dlithe> database.sql <oracle-88094-0.cloudclusters.net> Script-1 <lavanya> Referential integrity.sql <lavanya> Script-2 <lavanya> Script-2 x

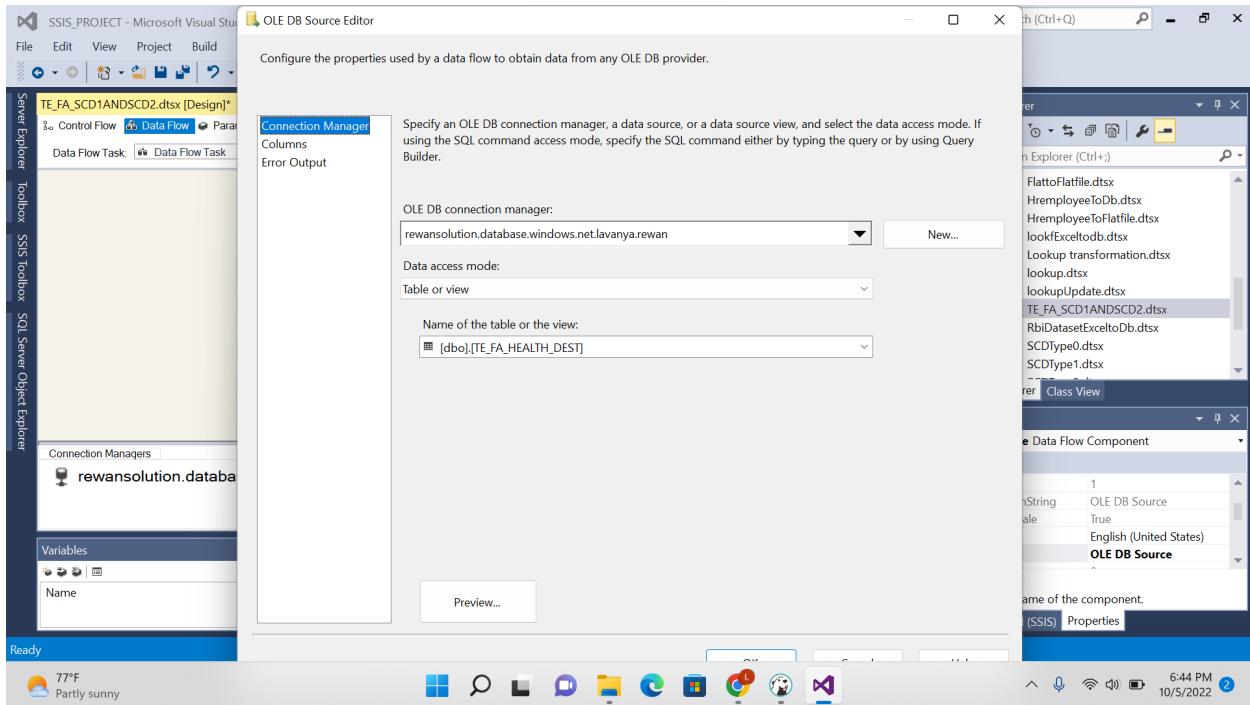
CREATE TABLE TE_FA_HEALTH_SCD1DEST
(
    [PID] float,
    [AGE] float,
    [GENDER] nvarchar(255),
    [CATEGORY_NAME] nvarchar(255),
    [SURGERY_CODE] nvarchar(255),
    [SURGERY] nvarchar(255),
    [VILLAGE] nvarchar(255),
    [MANDAL_NAME] nvarchar(255),
    [DISTRICT_NAME] nvarchar(255),
    [HOSP_NAME] nvarchar(255),
    [HOSP_TYPE] nvarchar(255),
    [CLATM_AMOUNT] float,
    [SURGERY_DATE] datetime,
    [DISCHARGE_DATE] datetime
)

SELECT * FROM TE_FA_HEALTH_DEST
```
- Project - General:** Shows a single item named 'DataSource'.
- Results Grid:** Displays the results of the query 'SELECT * FROM TE_FA_HEALTH_SCD1DEST'. The grid has columns: PID, AGF, GFNDR, CATFGORY_NAMF, SURGFRY_CODE, SURGFRY, MANDA, and IST. It shows 39 rows.
- System Tray:** Shows the date and time as 10/5/2022 6:41 PM.

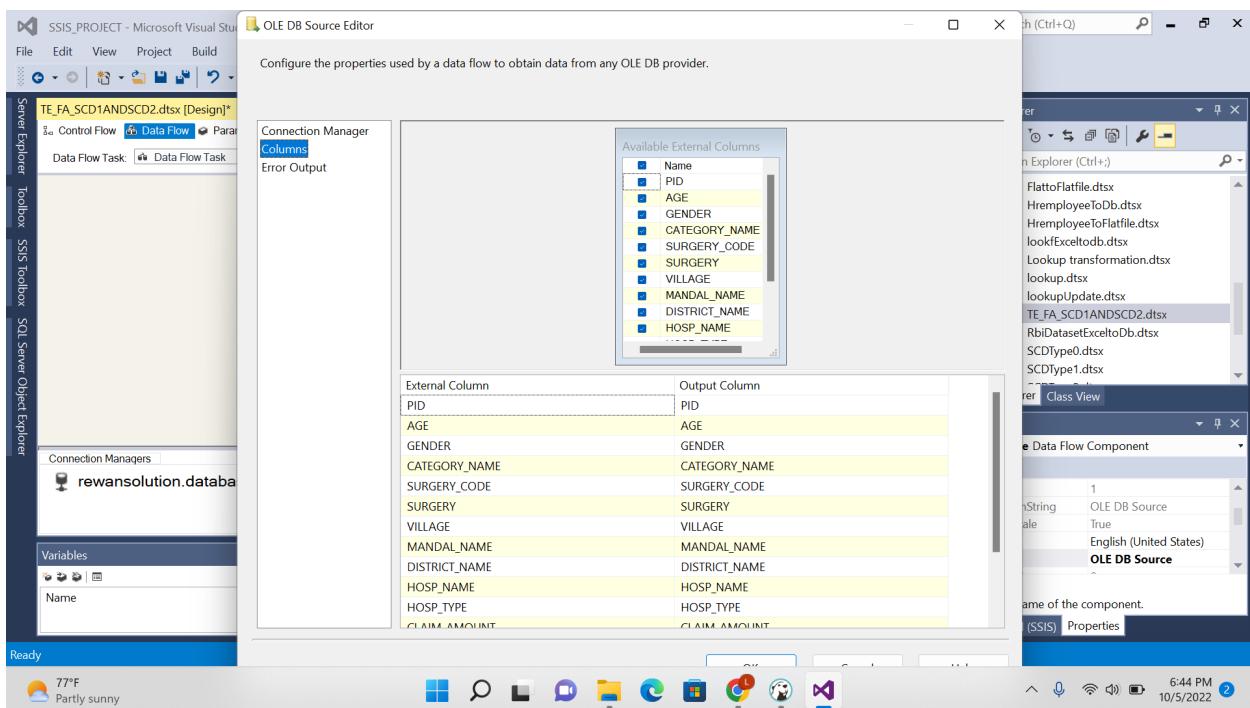
Steps To Execute SSIS Package: Step 1-



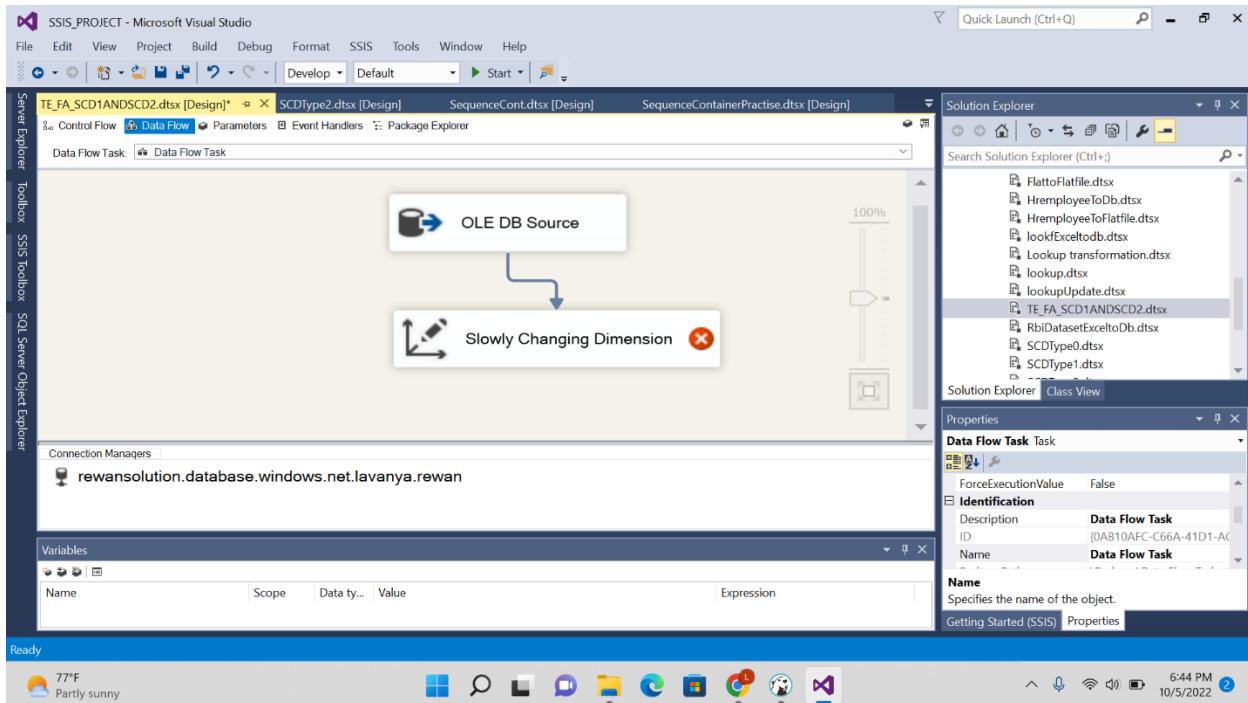
Step 2-



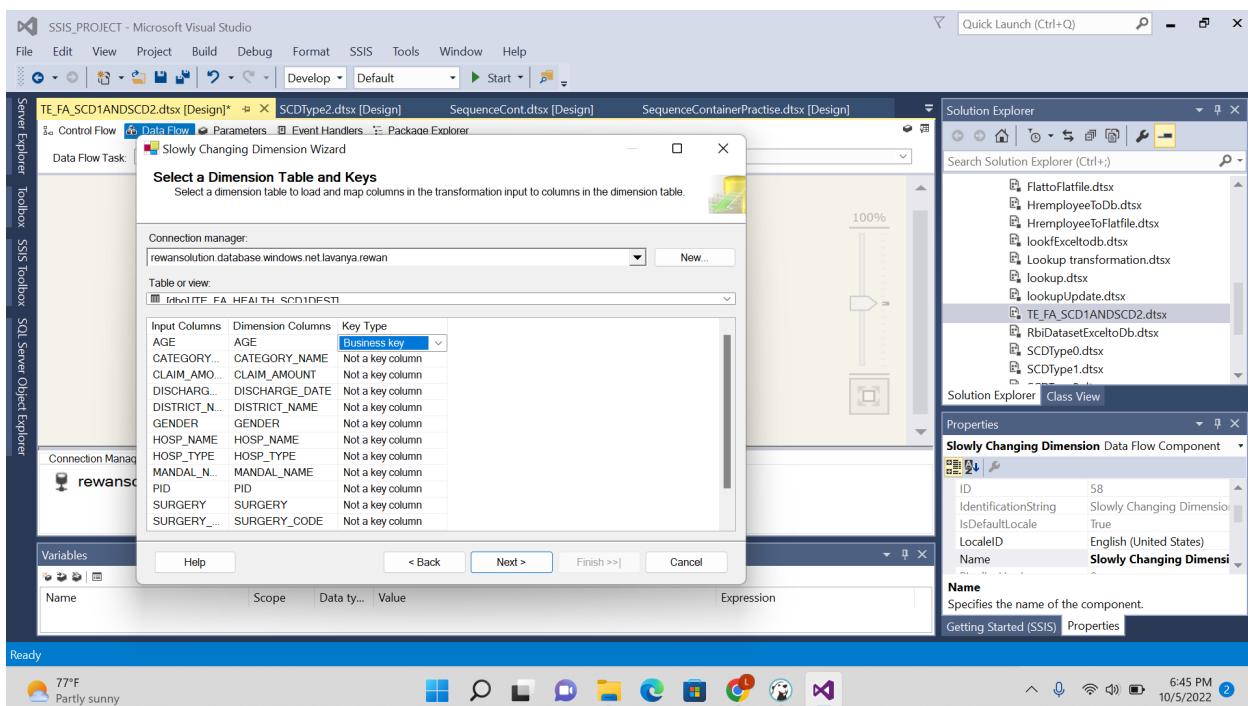
● Step 3-



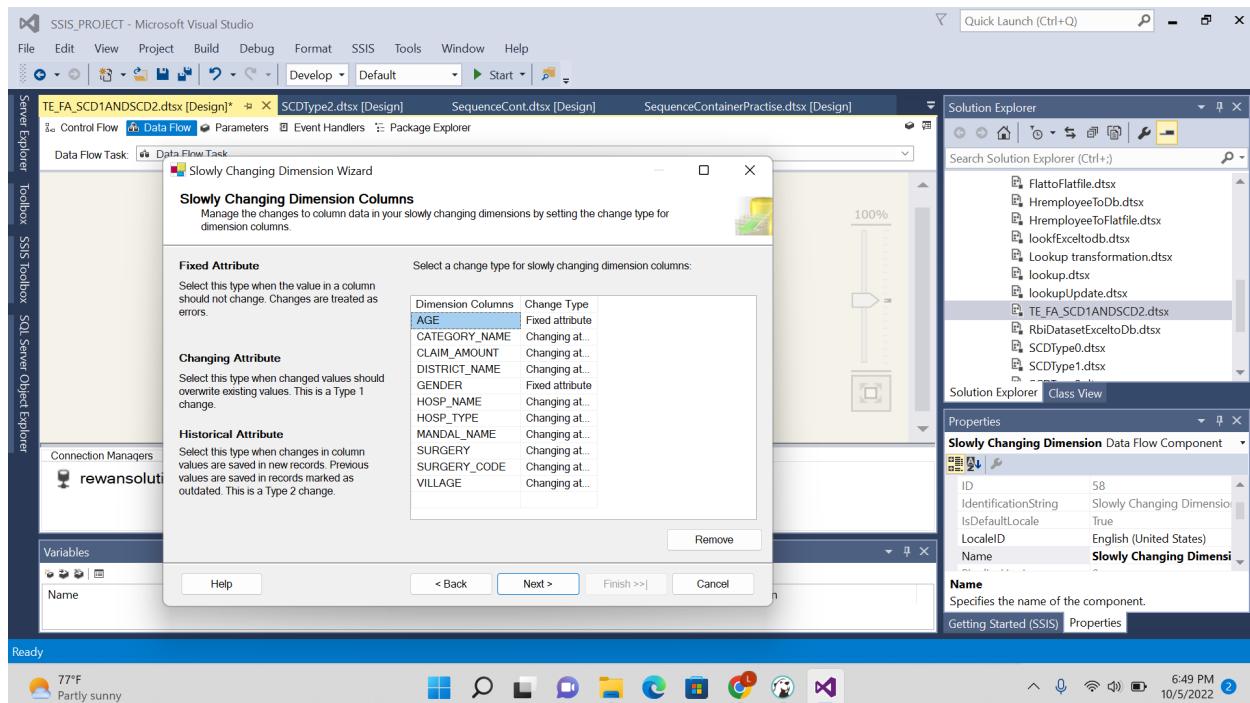
● Step 4-



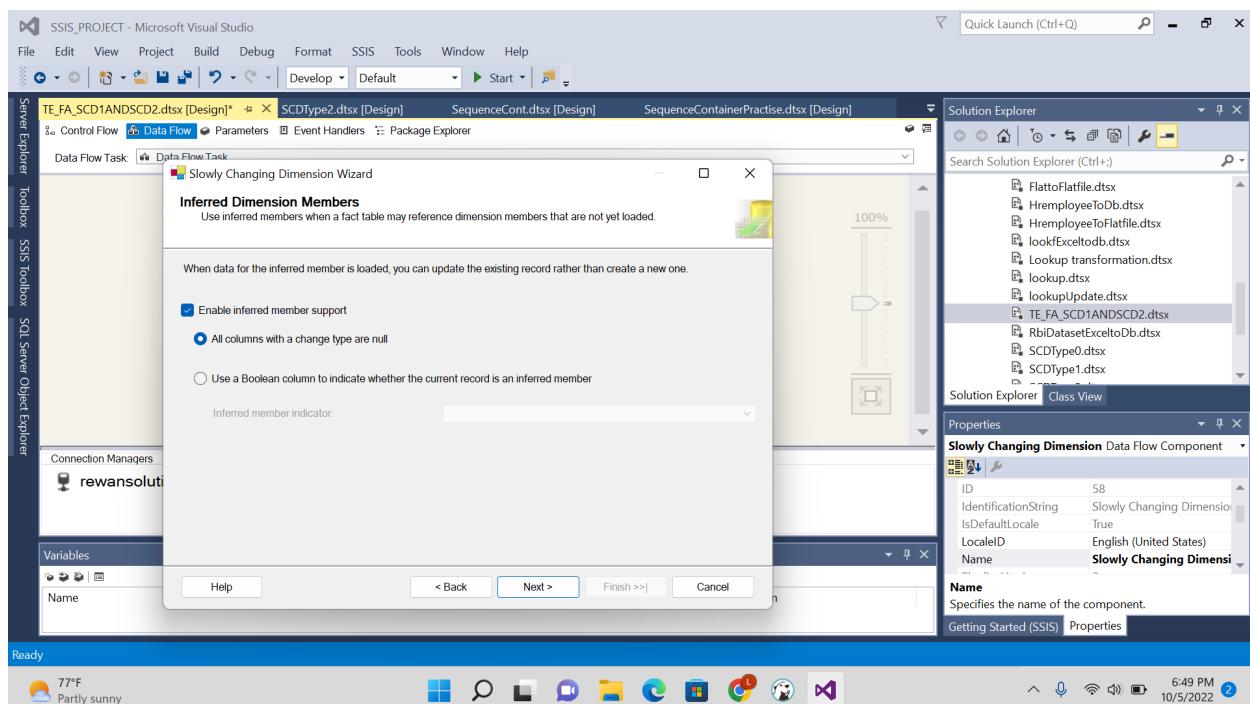
● Step 5-



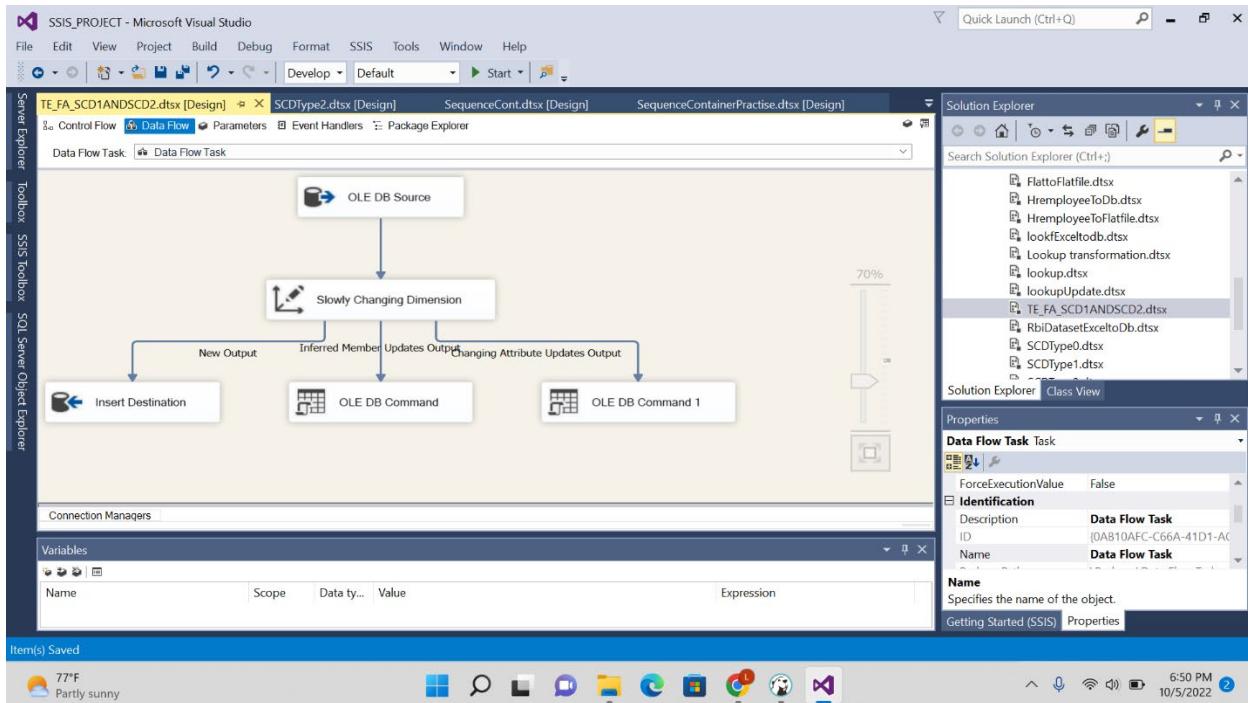
● Step 6-



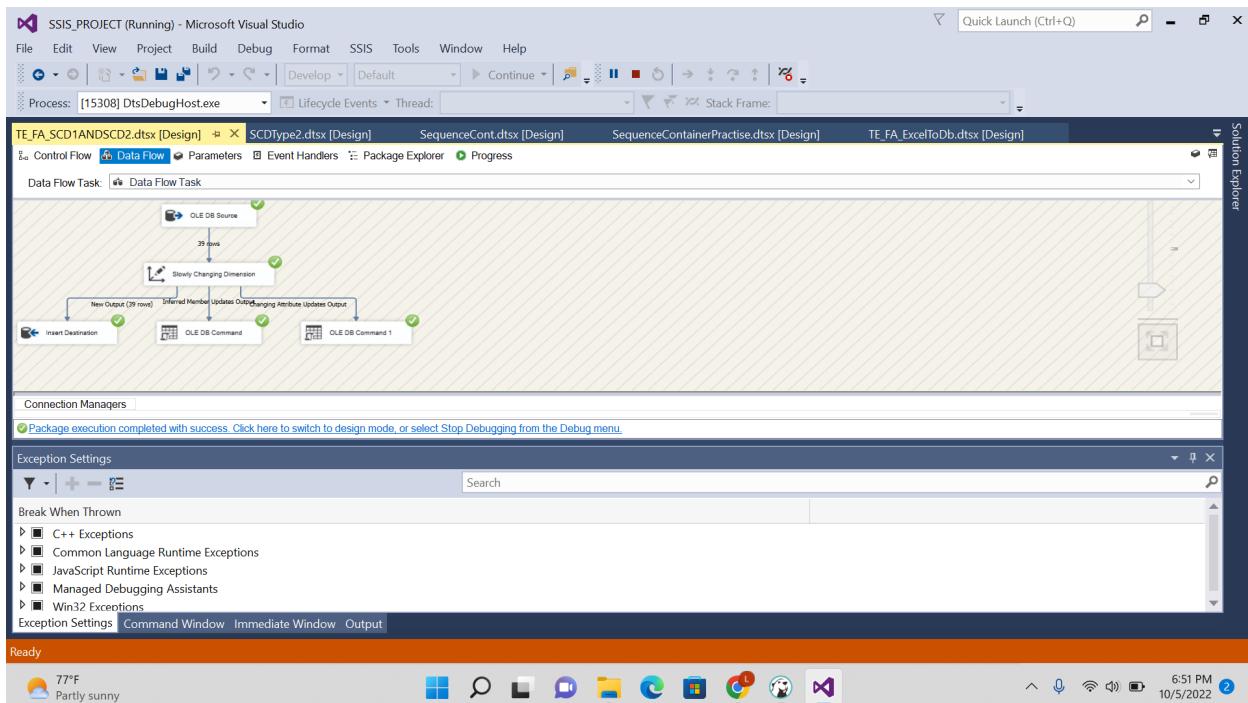
● Step 7-



● Step 8-



● Step 9-



Result:

DBeaver 22.2.0 - <lavanya> Script-2

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

> lavanya - rewsolution.database.windows.net:1433

> oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

<dlithe> database.sql <oracle-88094-0.cloudclusters.net> Script-1 <lavanya> Referential integrity.sql * <lavanya> Script-2 ×

Results 1 ×

SELECT * FROM TE_FA_HEALTH_SCD1

PID	AGE	GENDER	CATEGORY_NAME	SURGERY_CODE	SURGERY	VILLAGE	MANDAL_NAME	DIS
1	56	Female	NEPHROLOGY	M6.5	Maintenance He Lologu	Ponduru	Srikak	
2	37	Male	NEPHROLOGY	M6.5	Maintenance He Bonivanka	Kaviti	Srikak	
3	50	Male	NEPHROLOGY	M6.5	Maintenance He Kapasakuddi	Kaviti	Srikak	
4	45	Male	NEPHROLOGY	M6.5	Maintenance He Telikipenta	Sarubujilli	Srikak	
5	54	Male	NEPHROLOGY	M6.5	Maintenance He Thandemvalas	Srikakulam	Srikak	
6	35	Male	NEPHROLOGY	M6.5	Maintenance He Phasigangupet	Pathapatnam	Srikak	
7	52	Male	NEPHROLOGY	M6.5	Maintenance He Kranti Nagar	Nandyal	Kurno	
8	73	Male	NEPHROLOGY	M6.5	Maintenance He Bhoghapuram	Bhoghapuram	Vizian	
9	56	Male	CARDIAC AND CARDIOT S7.1.1		Coronary Balloc Vallur	Kakumanu	Guntu	
10	49	Male	CARDIAC AND CARDIOT S7.2.1.1		Coronary Bypass Ward-15	Guntur(C)	Guntu	
11	52	Male	NEPHROLOGY	M6.5	Maintenance He Rajam	Butchayyapeta	Vishak	
12	56	Male	CARDIOLOGY	M5.1.2	Management O Thurlapadu	Edlapadu	Guntu	
13	65	Female	CARDIOLOGY	M5.1.5	Medical Managl Pulpadu	Gurazala	Guntu	
14	75	Male	CARDIOLOGY	M5.1.5	Medical Managl Karlapalem	Karlapalem	Guntu	
15	52	Male	CARDIOLOGY	M5.1.5	Medical Managl Ward-19	Guntur(C)	Guntu	
16	56	Male	CARDIOLOGY	M5.1.2	Management O Tullur	Thullur	Guntu	
17	1	Male(Child)	COCHLEAR IMPLANT SU S16.1.1		Cochlear Implant Phirangipuram	Phirangipuram	Guntu	
18	54	Female	CARDIAC AND CARDIOT S7.2.1.1		Coronary Bypass Kolakalur	Tenali	Guntu	
19	48	Male	CARDIAC AND CARDIOT S7.2.1.1		Coronary Bypass Vellalar	Ponnur	Guntu	
20	57	Female	CARDIOLOGY	M5.1.2	Management O Phirangipuram	Phirangipuram	Guntu	

Grid Text Record

Save Cancel Script Smart Insert Rows: 0 39 row(s) fetched - 366ms (7ms fetch), on 2022-10-05 10:51 PM 10/5/2022

77°F Partly sunny

DBeaver 22.2.0 - <lavanya> Script-2

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator × Projects Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

> lavanya - rewsolution.database.windows.net:1433

> oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

<dlithe> database.sql <oracle-88094-0.cloudclusters.net> Script-1 <lavanya> Referential integrity.sql * <lavanya> Script-2 ×

Results 1 ×

SELECT * FROM TE_FA_HEALTH_SCD1

PID	AGE	GENDER	CATEGORY_NAME	SURGERY_CODE	SURGERY	VILLAGE	MANDAL_NAME	DIS
21	55	Male	NEPHROLOGY	M6.5	Maintenance He Ayyavari Polav Jangareddigudem	West G		
22	74	Female	CARDIOLOGY	M5.1.2	Management O 4th Ward	Palasa Kasibugga	Srikak	
23	57	Male	CARDIOLOGY	M5.1.2	Management O Kambakaya	Narasannapeta	Srikak	
24	56	Male	CARDIAC AND CARDIOT S7.2.1.1		Coronary Bypass Kondu	Achampeta	Guntu	
25	31	Male	ORTHOPEDIC SURGERY S5.1.2		Excision Or Oth Laxmipuram	Mandas	Srikak	
26	68	Male	CARDIOLOGY	M5.1.2	Management O Matchalesam	Gara	Srikak	
27	72	Female	CARDIOLOGY	M5.1.2	Management O Meghavaram	Santhabommali	Srikak	
28	66	Female	CARDIOLOGY	M5.1.2	Management O Chavali	Vernuru	Guntu	
29	35	Male	CARDIOLOGY	M5.1.2	Management O Shermahamme Echerla	Srikak		
30	72	Female	CARDIOLOGY	M5.1.2	Management O Talagam	Tekkali	Srikak	
31	42	Female	MEDICAL ONCOLOGY	S12.26.1	Chemotherapy I Ward-1	Vijayawada	Krishn	
32	63	Male	CARDIOLOGY	M5.1.2	Management O Thogiri	Saravakota	Srikak	
33	56	Male	CARDIOLOGY	M5.1.5	Medical Managl Vellalar	Ponnur	Guntu	
34	1	Female(Child)	COCHLEAR IMPLANT SU S16.1.1		Cochlear Implant Sankaragupta Malikipuram	East G		
35	42	Male	CARDIAC AND CARDIOT S7.2.1.1		Coronary Bypass Ward-14	Sattenapalli	Guntu	
36	49	Male	CARDIAC AND CARDIOT S7.2.1.1		Coronary Bypass Vema Varam	Phirangipuram	Guntu	
37	26	Male	CARDIOLOGY	M5.1.2	Management O Gorantla	Sattenapalle	Guntu	
38	57	Male	CARDIAC AND CARDIOT S7.2.1.1		Coronary Bypass Govindapuram	Chikkaluripet	Guntu	
39	59	Male	CARDIOLOGY	M5.1.2	Management O Karlapalem	Karlapalem	Guntu	

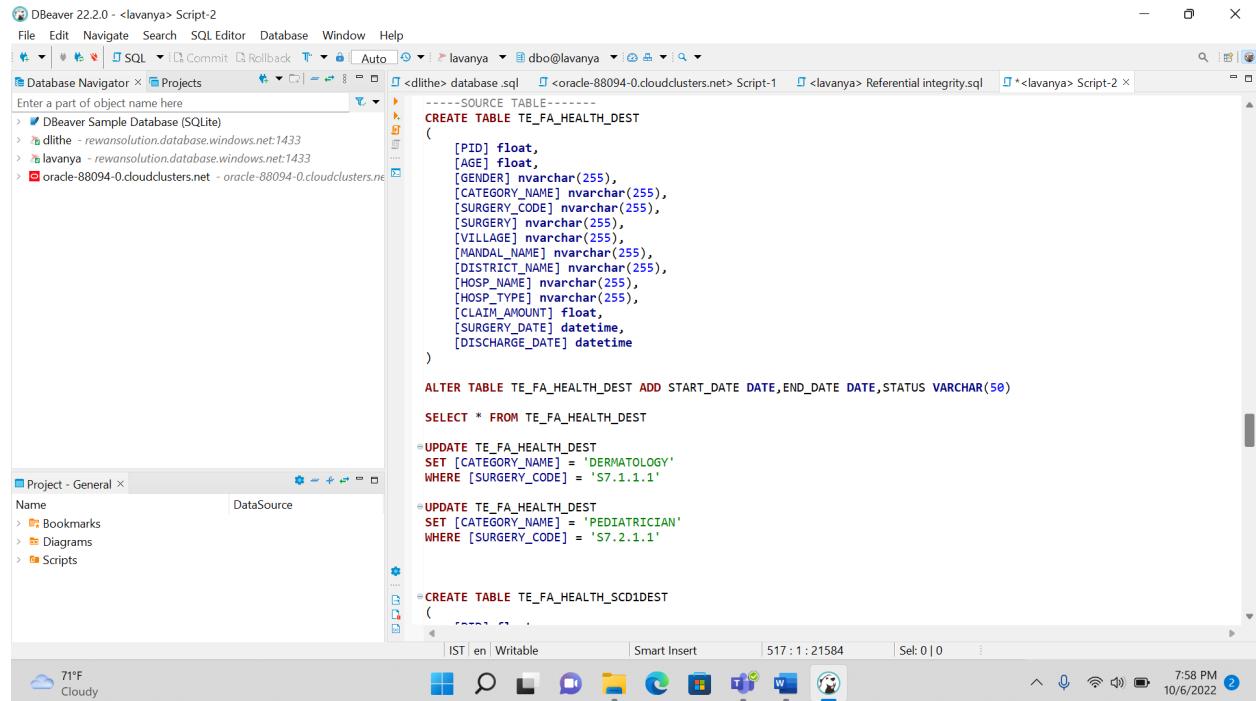
Grid Text Record

Save Cancel Script Smart Insert Rows: 0 39 row(s) fetched - 366ms (7ms fetch), on 2022-10-05 10:51 PM 10/5/2022

77°F Partly sunny

SCD TPYE 2:

Updating the table in Source table:



DBeaver 22.2.0 - <lavanya> Script-2

```
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator × Projects Enter a part of object name here
<dltih> database.sql <> oracle-88094-0.cloudclusters.net> Script-1 <> <lavanya> Referential integrity.sql <> <lavanya> Script-2 ×
-----SOURCE TABLE-----
CREATE TABLE TE_FA_HEALTH_DEST
(
    [PID] float,
    [AGE] float,
    [GENDER] nvarchar(255),
    [CATEGORY_NAME] nvarchar(255),
    [SURGERY_CODE] nvarchar(255),
    [SURGERY] nvarchar(255),
    [VILLAGE] nvarchar(255),
    [MANDAL_NAME] nvarchar(255),
    [DISTRICT_NAME] nvarchar(255),
    [HOSP_NAME] nvarchar(255),
    [HOSP_TYPE] nvarchar(255),
    [CLAIM_AMOUNT] float,
    [SURGERY_DATE] datetime,
    [DISCHARGE_DATE] datetime
)
ALTER TABLE TE_FA_HEALTH_DEST ADD START_DATE DATE,END_DATE DATE,STATUS VARCHAR(50)
SELECT * FROM TE_FA_HEALTH_DEST
UPDATE TE_FA_HEALTH_DEST
SET [CATEGORY_NAME] = 'DERMATOLOGY'
WHERE [SURGERY_CODE] = 'S7.1.1.1'
UPDATE TE_FA_HEALTH_DEST
SET [CATEGORY_NAME] = 'PEDIATRICIAN'
WHERE [SURGERY_CODE] = 'S7.2.1.1'
-----CREATE TABLE TE_FA_HEALTH_SCD1DEST-----

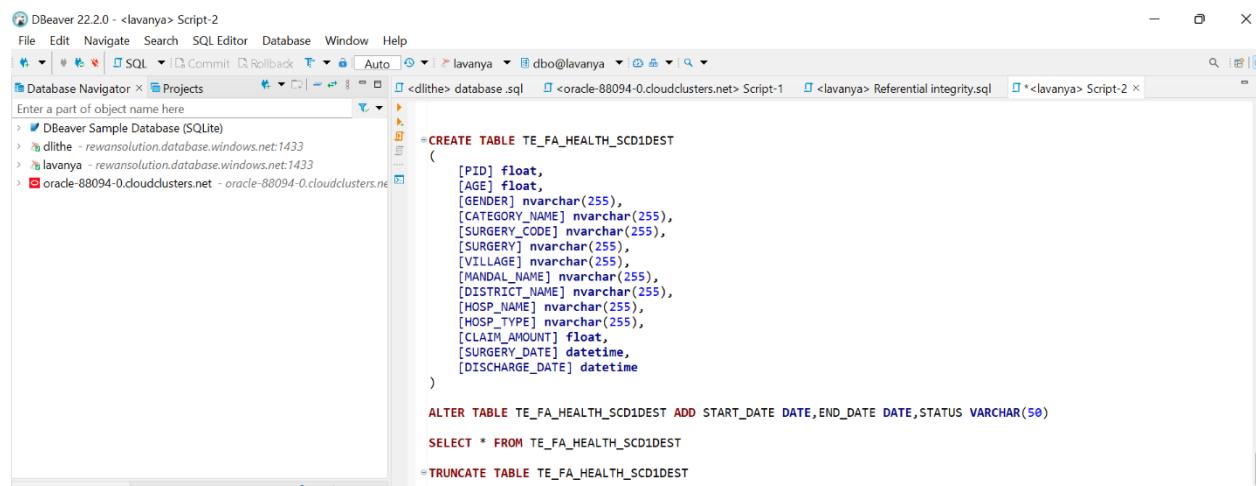
```

Project - General

- Name
- DataSource
- Bookmarks
- Diagrams
- Scripts

71°F Cloudy

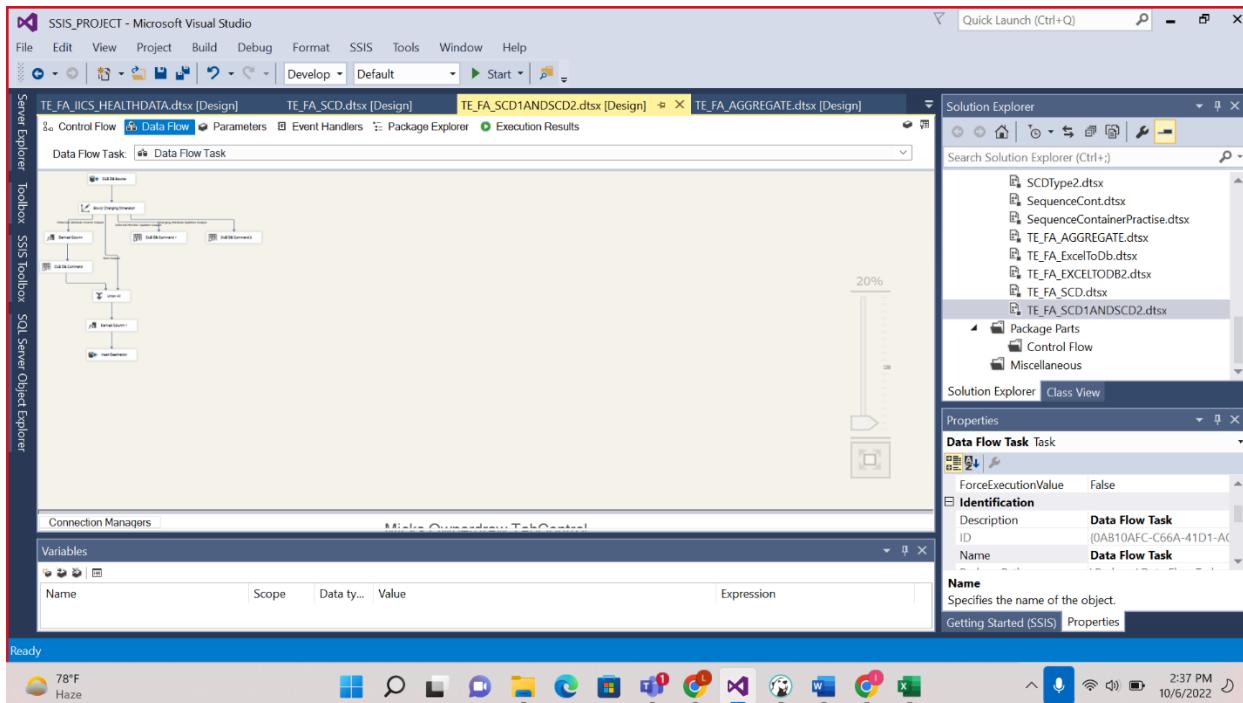
- Destination table:



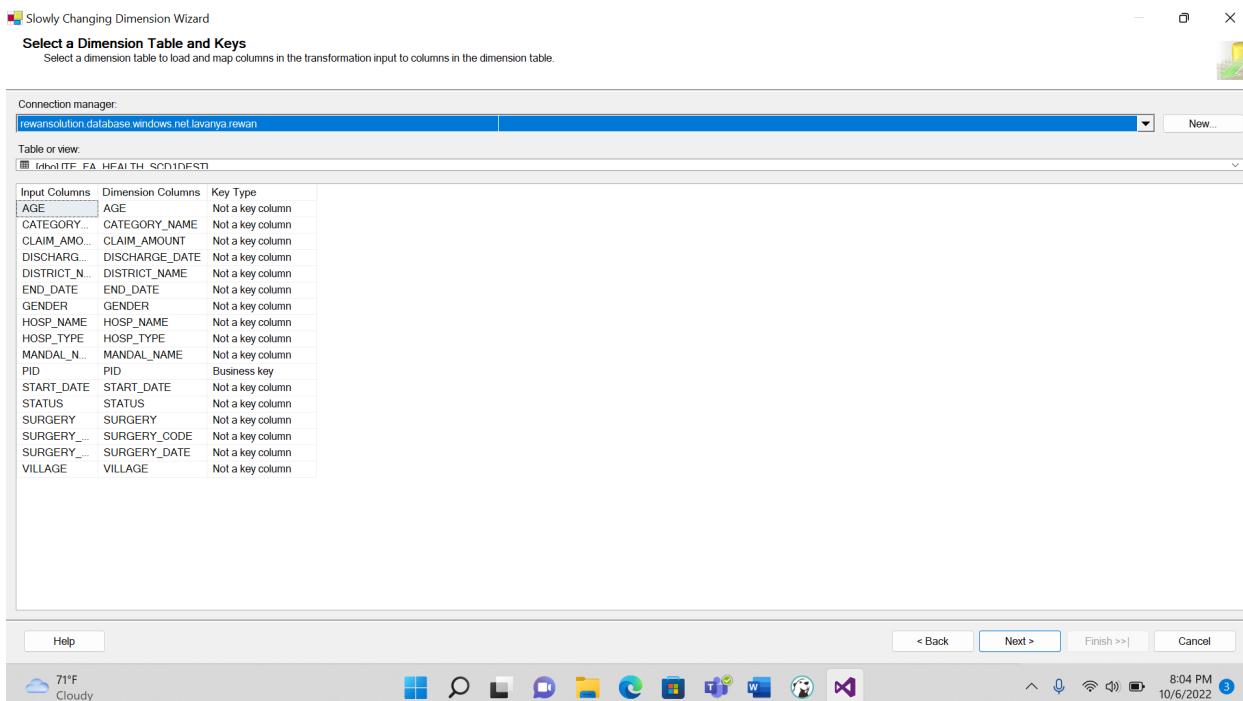
DBeaver 22.2.0 - <lavanya> Script-2

```
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator × Projects Enter a part of object name here
<dltih> database.sql <> oracle-88094-0.cloudclusters.net> Script-1 <> <lavanya> Referential integrity.sql <> <lavanya> Script-2 ×
-----CREATE TABLE TE_FA_HEALTH_SCD1DEST-----
(
    [PID] float,
    [AGE] float,
    [GENDER] nvarchar(255),
    [CATEGORY_NAME] nvarchar(255),
    [SURGERY_CODE] nvarchar(255),
    [SURGERY] nvarchar(255),
    [VILLAGE] nvarchar(255),
    [MANDAL_NAME] nvarchar(255),
    [DISTRICT_NAME] nvarchar(255),
    [HOSP_NAME] nvarchar(255),
    [HOSP_TYPE] nvarchar(255),
    [CLAIM_AMOUNT] float,
    [SURGERY_DATE] datetime,
    [DISCHARGE_DATE] datetime
)
ALTER TABLE TE_FA_HEALTH_SCD1DEST ADD START_DATE DATE,END_DATE DATE,STATUS VARCHAR(50)
SELECT * FROM TE_FA_HEALTH_SCD1DEST
TRUNCATE TABLE TE_FA_HEALTH_SCD1DEST
```

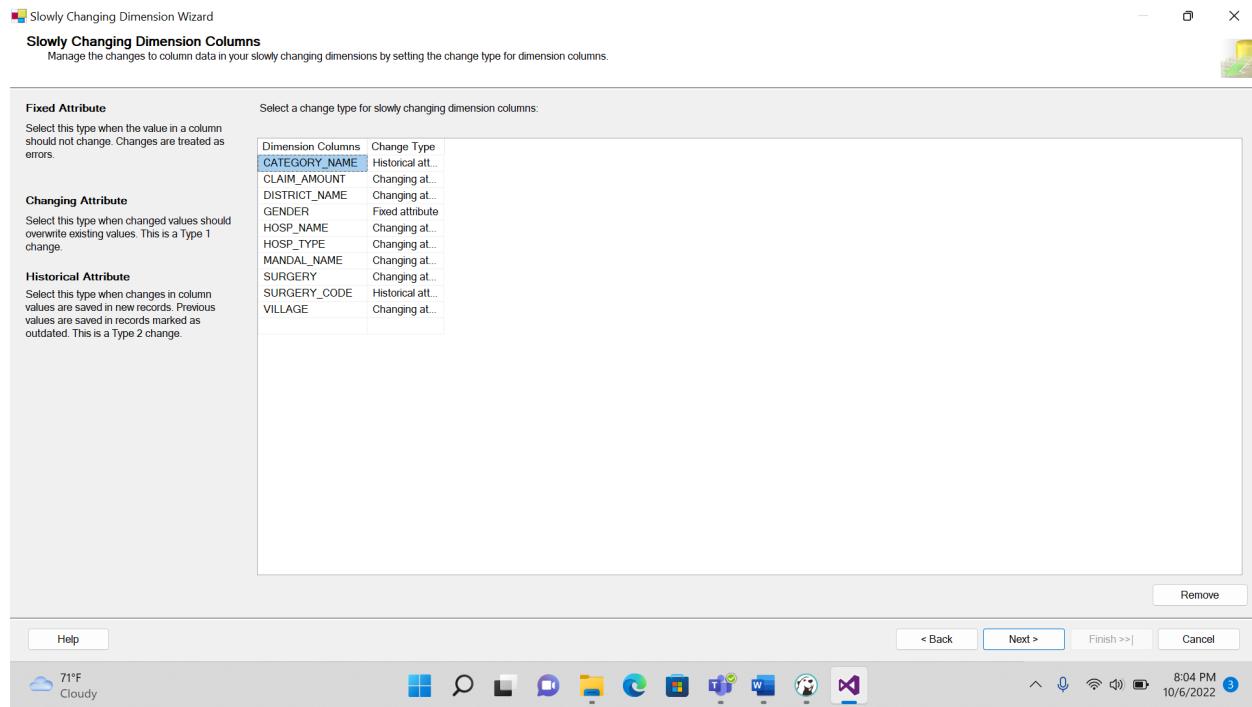
- Steps to execute SSIS Package:
- Step 1-



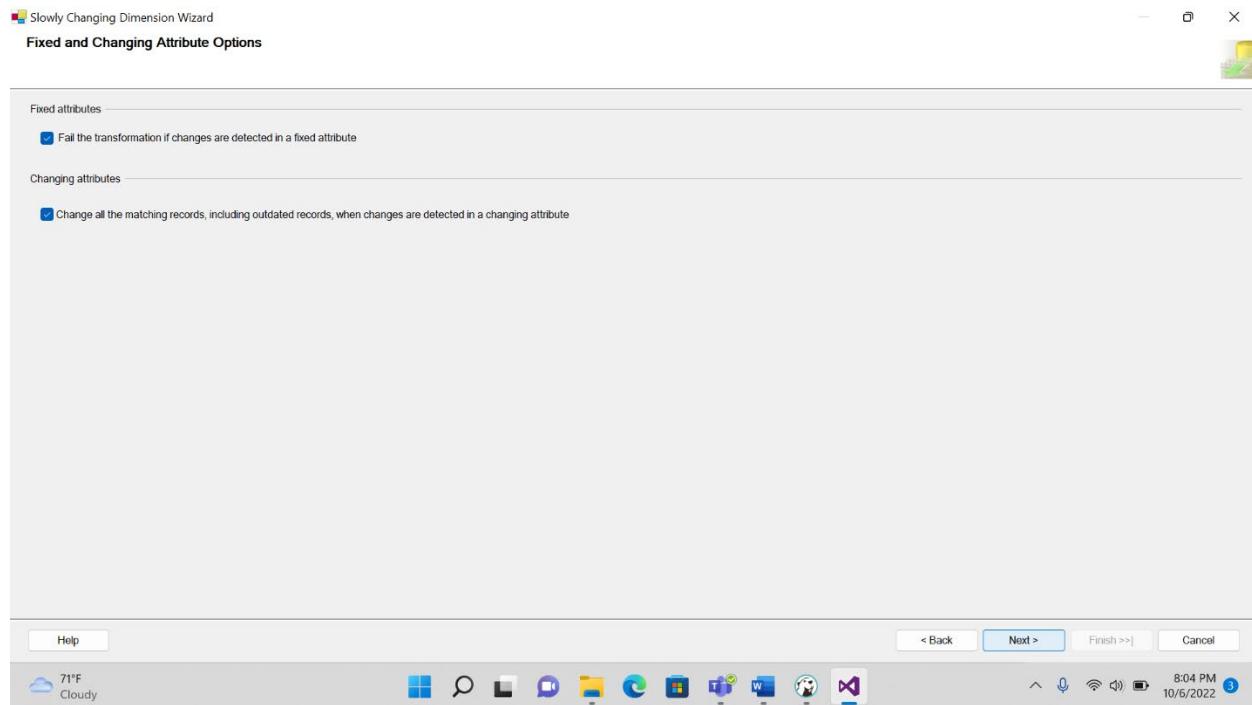
- Step 2-



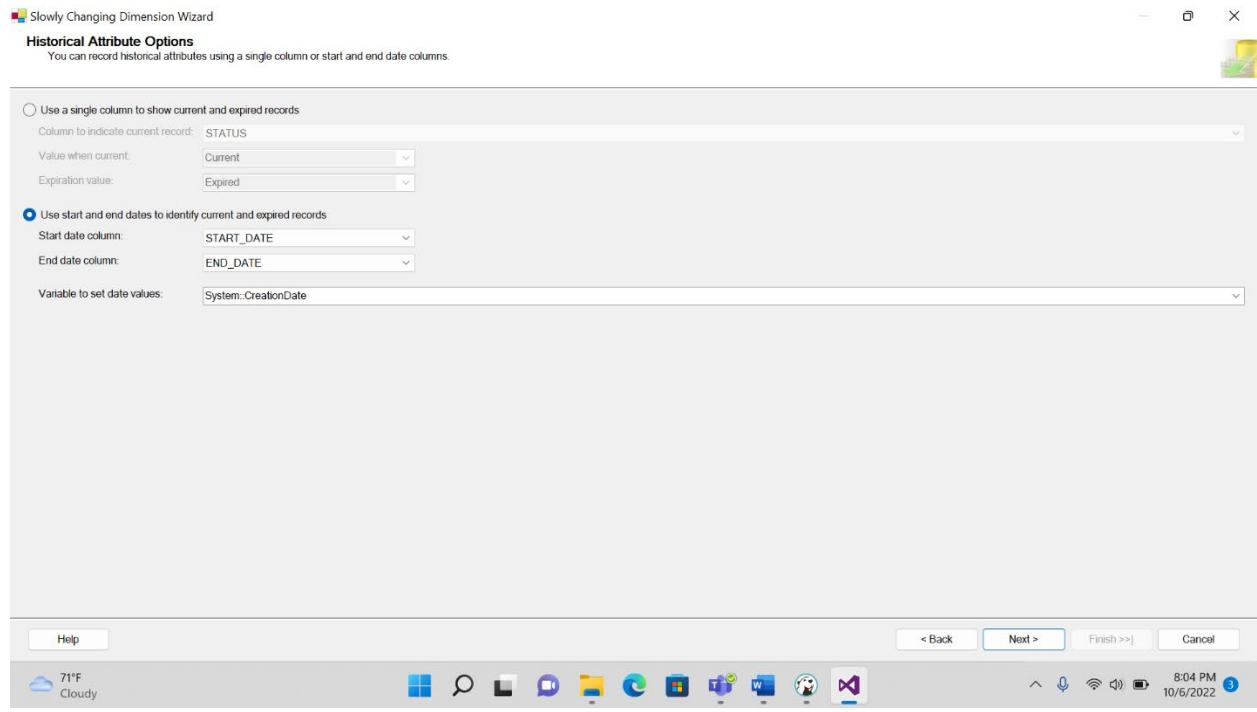
● Step 3-



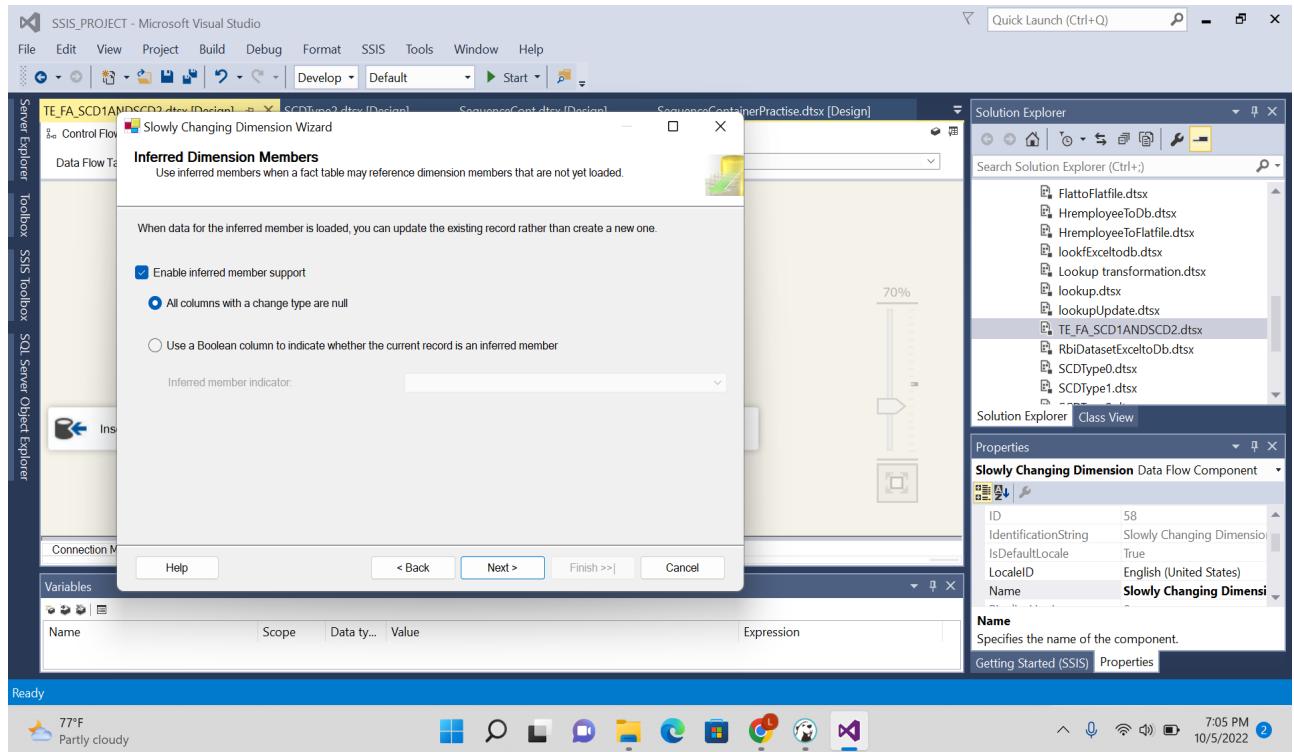
● Step 4-



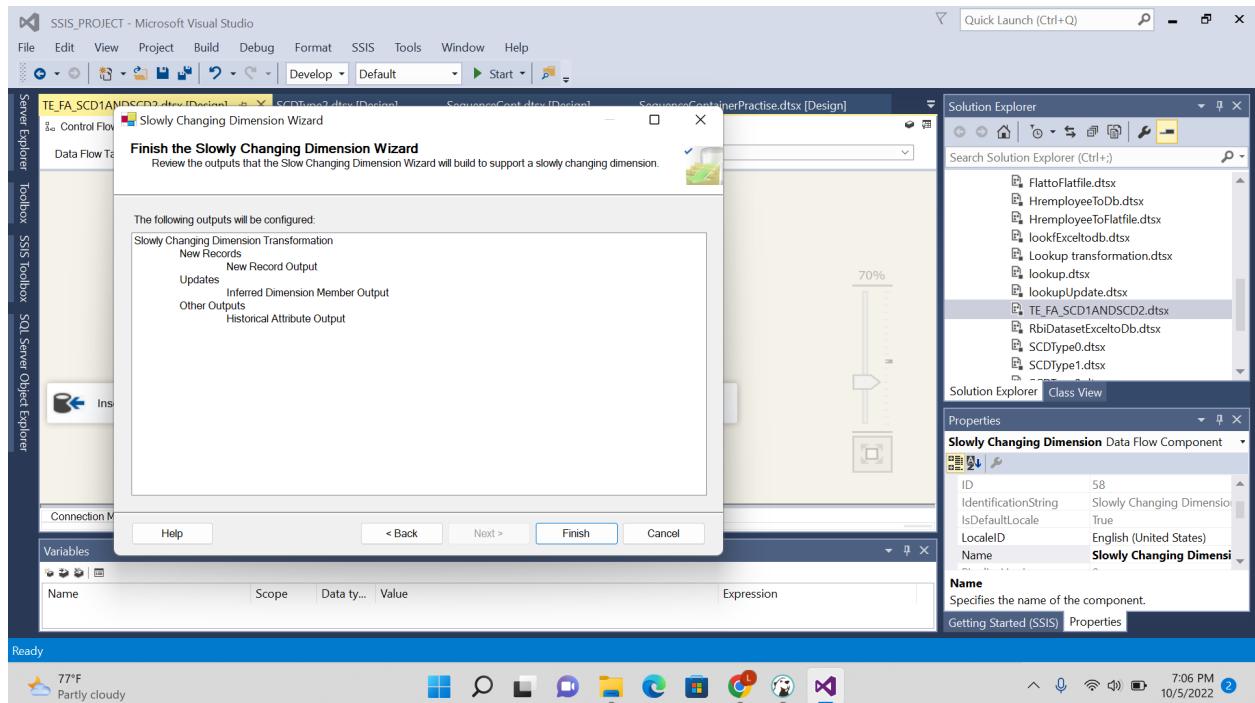
- Step 5-



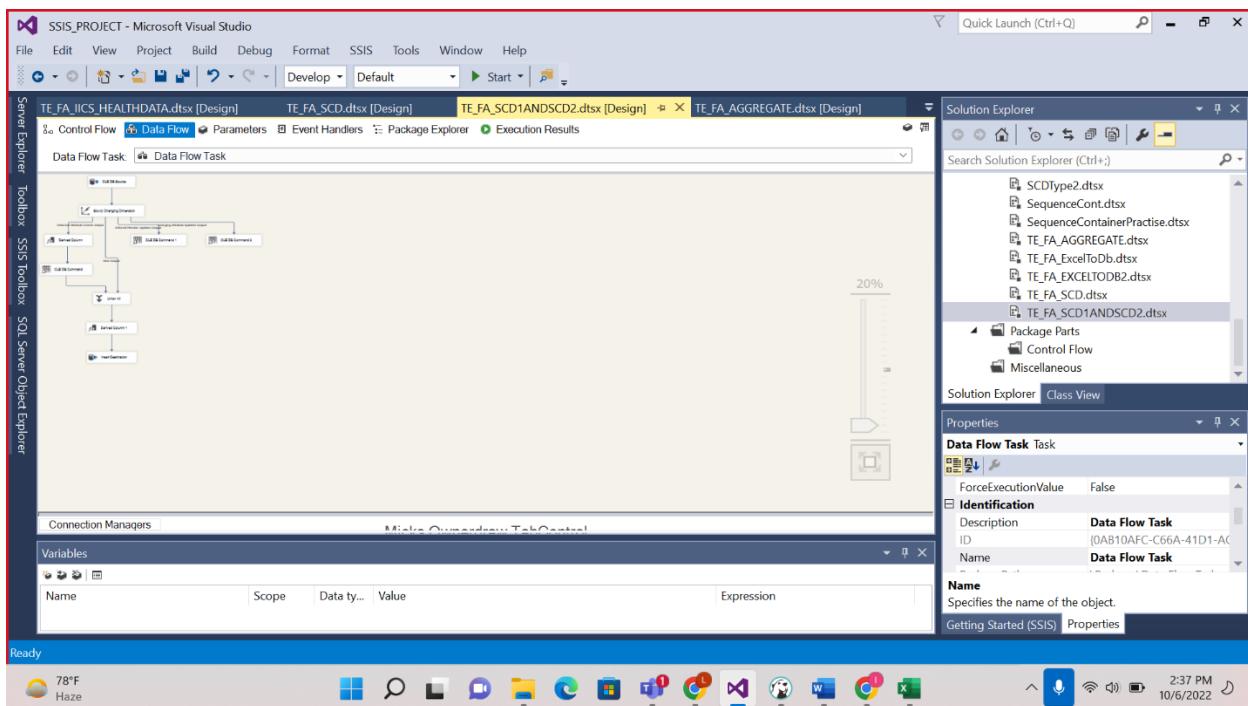
- Step 6-



● Step 7



● Step 8-



Result:

PID	AGE	GENDER	CATEGORY_NAME	SURGERY_CODE	SURGERY	VILLAGE	MANDA
23	57	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Kambakaya	Narasanna	
24	56	Male	CARDIAC AND CARDIO1	S7.2.1.1	Coronary Bypass Surgery	Konduru	Achampet
25	31	Male	ORTHOPEDIC	SURGERY	Excision Or Other Operations For S Laxmipuram	Mandasa	
26	68	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Matchalesam	Gara	
27	72	Female	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Meghavaram	Santhabor	
28	66	Female	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Chavali	Vemuru	
29	35	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Shermahammie Echerla		
30	72	Female	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Talagam	Tekkali	
31	42	Female	MEDICAL ONCOLOGY	S12.26.1	Chemotherapy for Acute Myeloid L Ward-1	Vijayawadi	
32	63	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Thogiri	Saravakotz	
33	56	Male	CARDIOLOGY	M5.1.5	Medical Management Of Refractor Vellular	Ponnur	
34	1	Female(Child)	COCHLEAR IMPLANT SU	S16.1.1	Cochlear Implant Surgery	Sankaragupta	Malikipura
35	42	Male	CARDIAC AND CARDIO1	S7.2.1.1	Coronary Bypass Surgery	Ward-14	Sattenapal
36	49	Male	CARDIAC AND CARDIO1	S7.2.1.1	Coronary Bypass Surgery	Vema Varam	Phirangipu
37	26	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Gorantla	Sattenapal	
38	57	Male	CARDIAC AND CARDIO1	S7.2.1.1	Coronary Bypass Surgery	Govindapuram	Chikalakurij
39	59	Male	CARDIOLOGY	M5.1.2	Management Of Acute MI With An Karlapalem	Karlapalem	
40	9	Male	DERMATOLOGY	S7.1.1.1	Coronary Balloon Angioplasty with Vallur	Kakumanu	

DBeaver 22.2.0 - <lavanya> Script-2

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator x Projects

Enter a part of object name here

DBeaver Sample Database (SQLite)

dlithe - rewsolution.database.windows.net:1433

lavanya - rewsolution.database.windows.net:1433

oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

Results 1 x

SELECT * FROM TE_FA_HEALTH_SC1D

KOSP_TYPE	CLAIM_AMOUNT	SURGERY_DATE	DISCHARGE_DATE	START_DATE	END_DATE	STATUS
23	25.000	2014-08-01 00:00:00.000	2014-08-05 00:00:00.000	2022-10-05	[NULL]	[NULL]
24	110.000	2014-08-05 00:00:00.000	2014-08-14 00:00:00.000	2022-10-05	[NULL]	[NULL]
25	5.000	2014-08-04 00:00:00.000	2014-08-11 00:00:00.000	2022-10-05	[NULL]	[NULL]
26	30.000	2014-08-02 00:00:00.000	2014-08-06 00:00:00.000	2022-10-05	[NULL]	[NULL]
27	10.000	2014-08-02 00:00:00.000	2014-08-06 00:00:00.000	2022-10-05	[NULL]	[NULL]
28	20.000	2014-08-03 00:00:00.000	2014-08-08 00:00:00.000	2022-10-05	[NULL]	[NULL]
29	30.000	2014-08-03 00:00:00.000	2014-08-08 00:00:00.000	2022-10-05	[NULL]	[NULL]
30	25.000	2014-08-04 00:00:00.000	2014-08-09 00:00:00.000	2022-10-05	[NULL]	[NULL]
31	60.000	2014-08-06 00:00:00.000	2014-09-01 00:00:00.000	2022-10-05	[NULL]	[NULL]
32	25.000	2014-08-08 00:00:00.000	2014-08-13 00:00:00.000	2022-10-05	[NULL]	[NULL]
33	25.000	2014-08-09 00:00:00.000	2014-08-11 00:00:00.000	2022-10-05	[NULL]	[NULL]
34	510.000	2015-06-11 00:00:00.000	2015-06-25 00:00:00.000	2022-10-05	[NULL]	[NULL]
35	115.846	2014-08-25 00:00:00.000	2014-09-02 00:00:00.000	2022-10-05	[NULL]	[NULL]
36	115.846	2014-08-30 00:00:00.000	2014-09-07 00:00:00.000	2022-10-05	[NULL]	[NULL]
37	30.000	2014-09-01 00:00:00.000	2014-09-06 00:00:00.000	2022-10-05	[NULL]	[NULL]
38	105.846	2014-09-03 00:00:00.000	2014-09-11 00:00:00.000	2022-10-05	[NULL]	[NULL]
39	25.000	2014-09-06 00:00:00.000	2014-09-12 00:00:00.000	2022-10-05	[NULL]	[NULL]
40	40.000	2014-06-14 00:00:00.000	2014-06-16 00:00:00.000	2022-10-05	2022-10-05	[NULL]

Save Cancel Script Smart Insert 200 40 Rows: 1 40 row(s) fetched - 246ms (3ms fetch), on 2022-10-05 370 : 36 : 17885 Sel: 0 | 0

78°F Haze 2:39 PM 10/6/2022

6. Create aggregate table based on the particular column(ex: Country code). Refer to the different data source from target system

->Excel to Db

SOURCE: Excel File (Cinema_data Src)

AutoSave Off Compatibility Mode

Cinema_data Src - Compatibility Mode

Search (Alt+Q)

File Home Insert Page Layout Formulas Data Review View Help

A92

Film_Type	film_code	cinema_cc	total_sale	tickets_so	tickets_ou	show_time	occu_perc	ticket_pric	ticket_use	capacity
Romance	1492	304	3900000	26	0	4	4.26	150000	26	610
Romance	1492	352	3360000	42	0	5	8.08	80000	42	520
Romance	1492	489	2560000	32	0	4	20	80000	32	160
Romance	1492	429	1200000	12	0	1	11.01	100000	12	109
Romance	1492	524	1200000	15	0	3	16.67	80000	15	90
Romance	1492	71	1050000	7	0	3	0.98	150000	7	714
Romance	1492	163	1020000	10	0	3	7.69	102000	10	130
Romance	1492	450	750000	5	0	3	1.57	150000	5	318
Romance	1492	51	750000	11	0	2	0.95	68181.82	11	1158
Romance	1492	522	600000	4	0	3	1.55	150000	4	258
Romance	1492	43	480000	6	0	3	0.44	80000	6	1364
Romance	1492	529	480000	4	0	3	2.96	120000	4	135
Romance	1492	82	400000	5	0	6	0.53	80000	5	943
Romance	1492	344	300000	2	0	3	0.25	150000	2	800
Romance	1492	73	240000	2	0	1	2.04	120000	2	98
Romance	1492	304	16500000	112	0	4	18.33	147321.4	112	611
Romance	1492	352	13950000	93	0	5	10.57	150000	93	880
Romance	1492	344	10200000	68	0	3	8.54	150000	68	798
Romance	1492	71	6600000	44	0	3	6.14	150000	44	717

Average: 1266877.756 Count: 209 Sum: 240706773.6

Sheet1

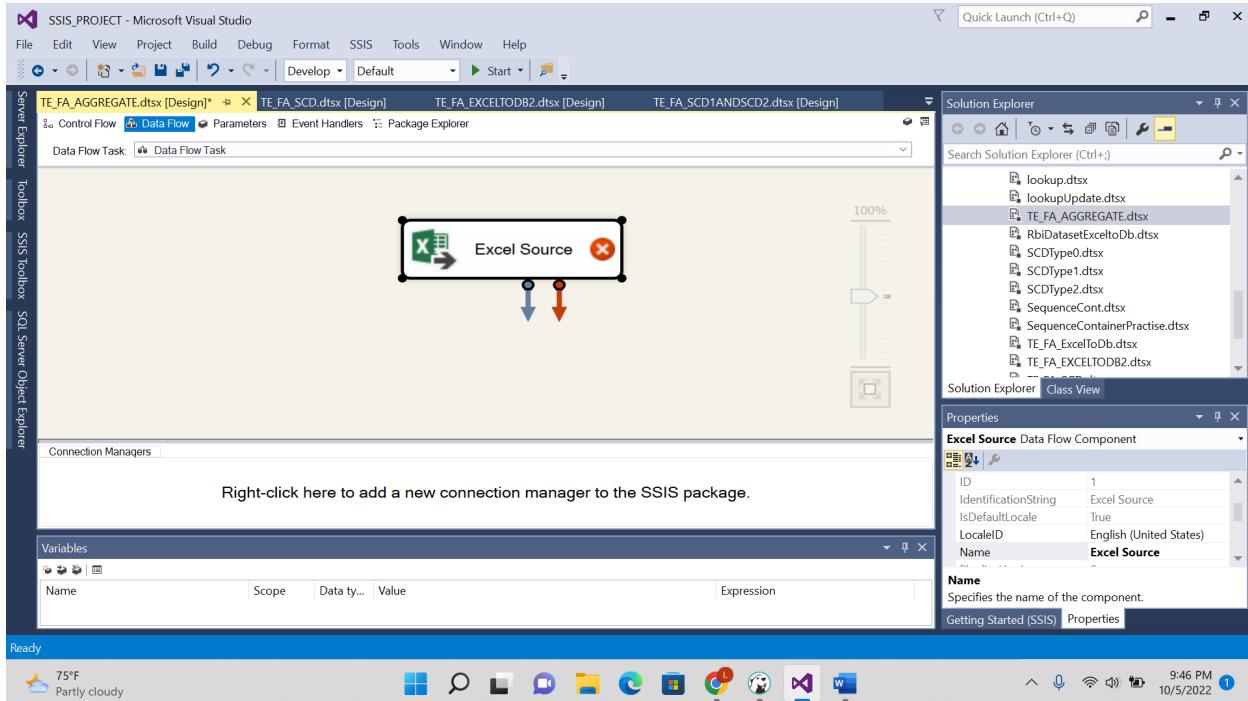
Ready Accessibility:Unavailable

10:00 PM 10/5/2022

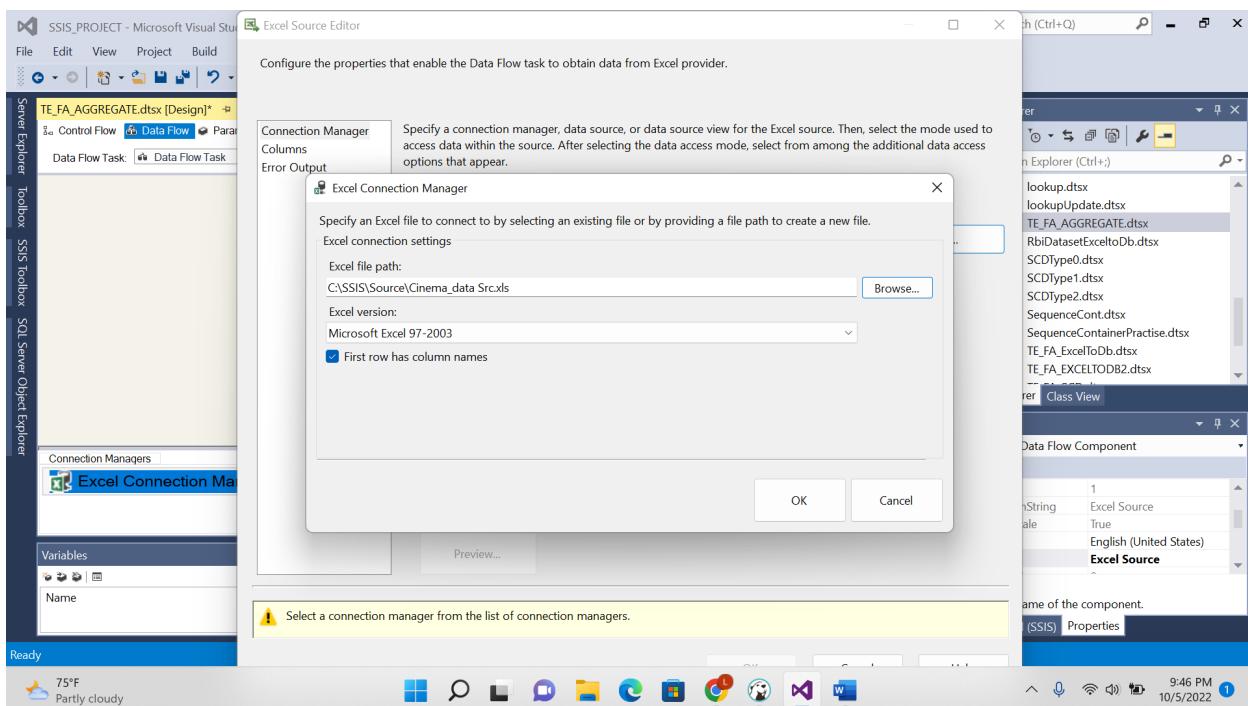
75°F Partly cloudy

Steps to execute SSIS Package:

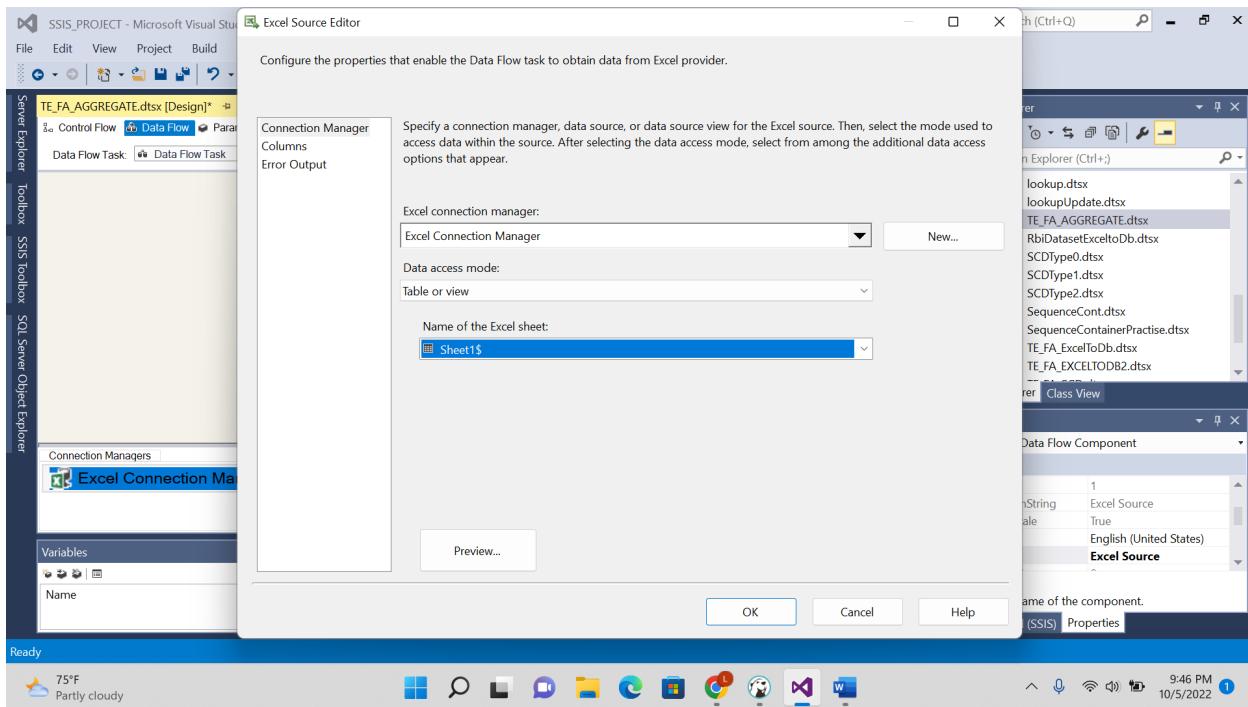
Step 1-



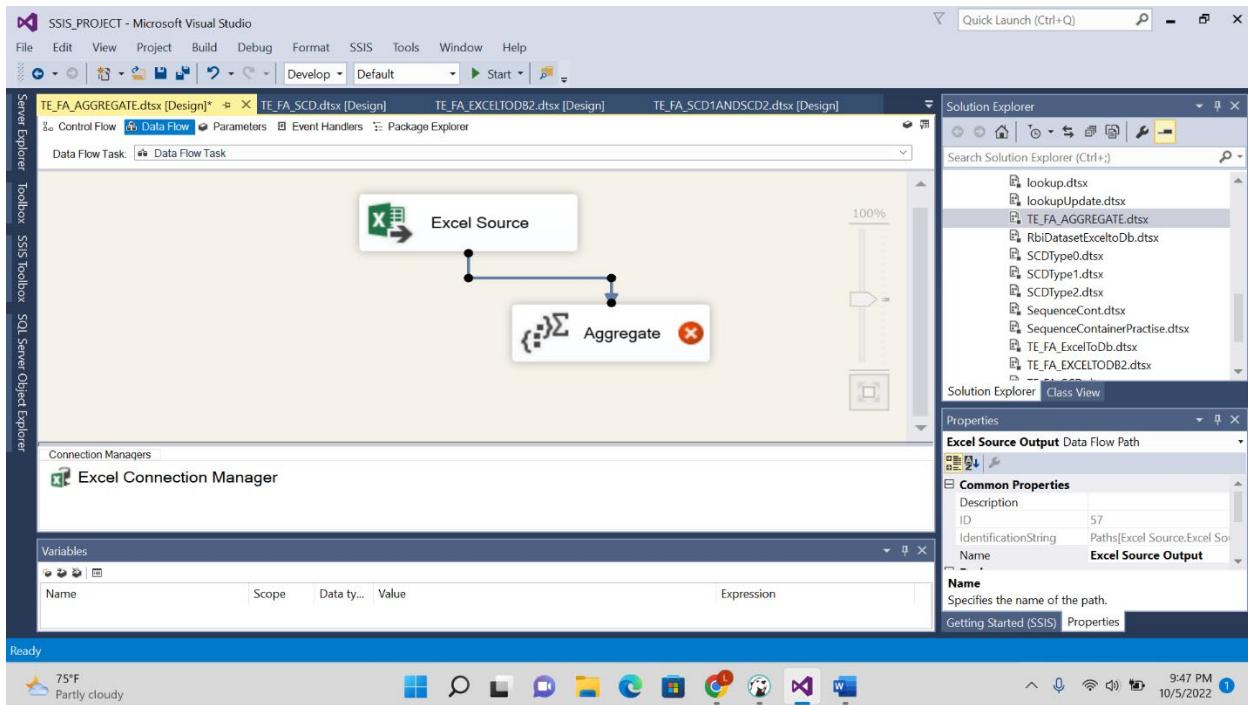
● Step 2



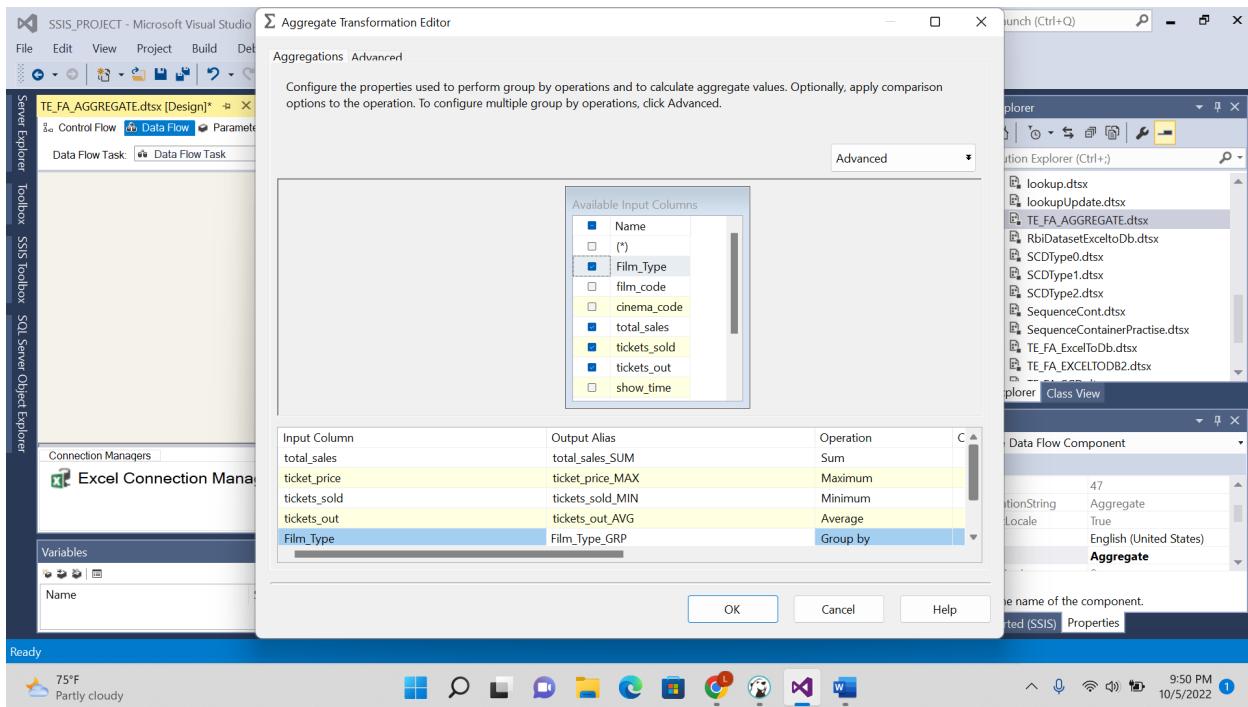
● Step 3-



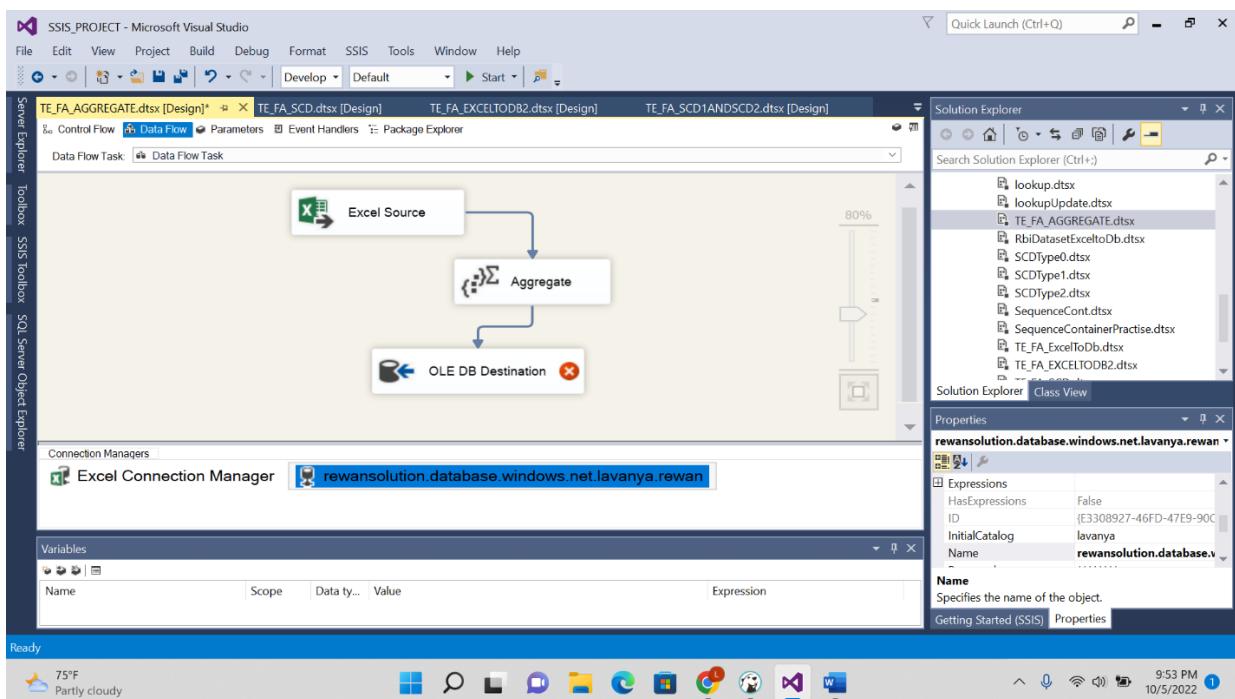
● Step 4-



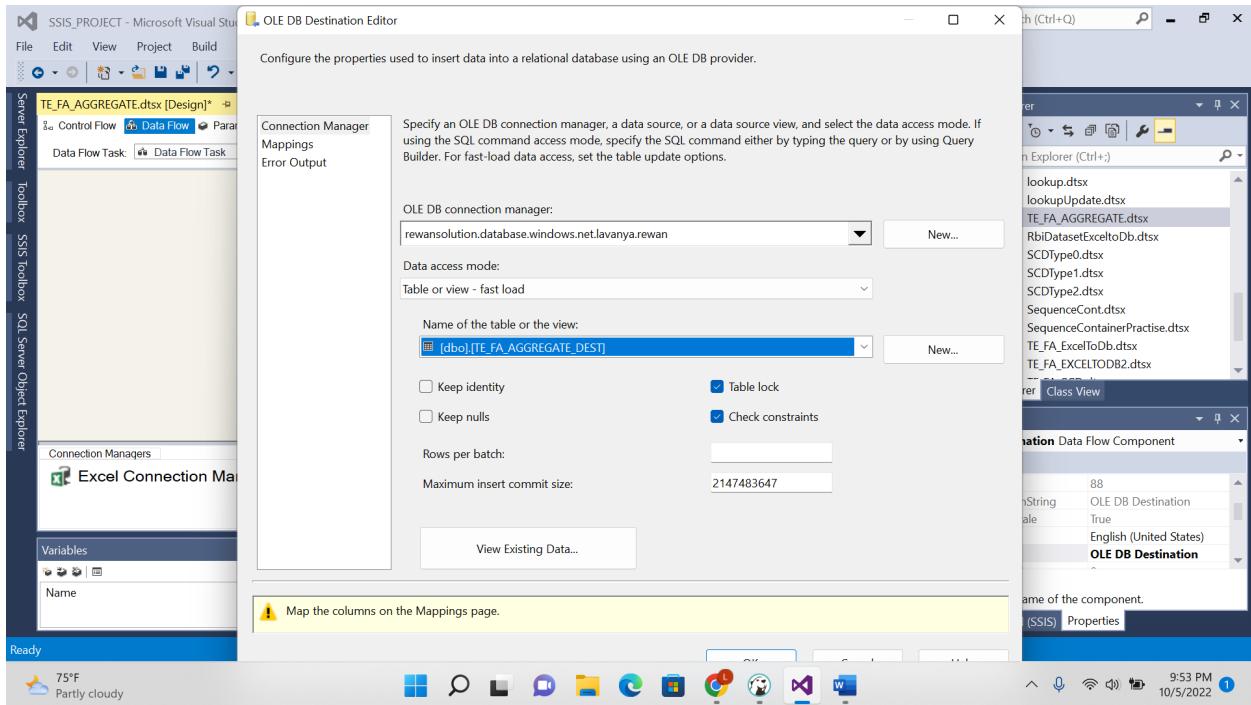
● Step 5-



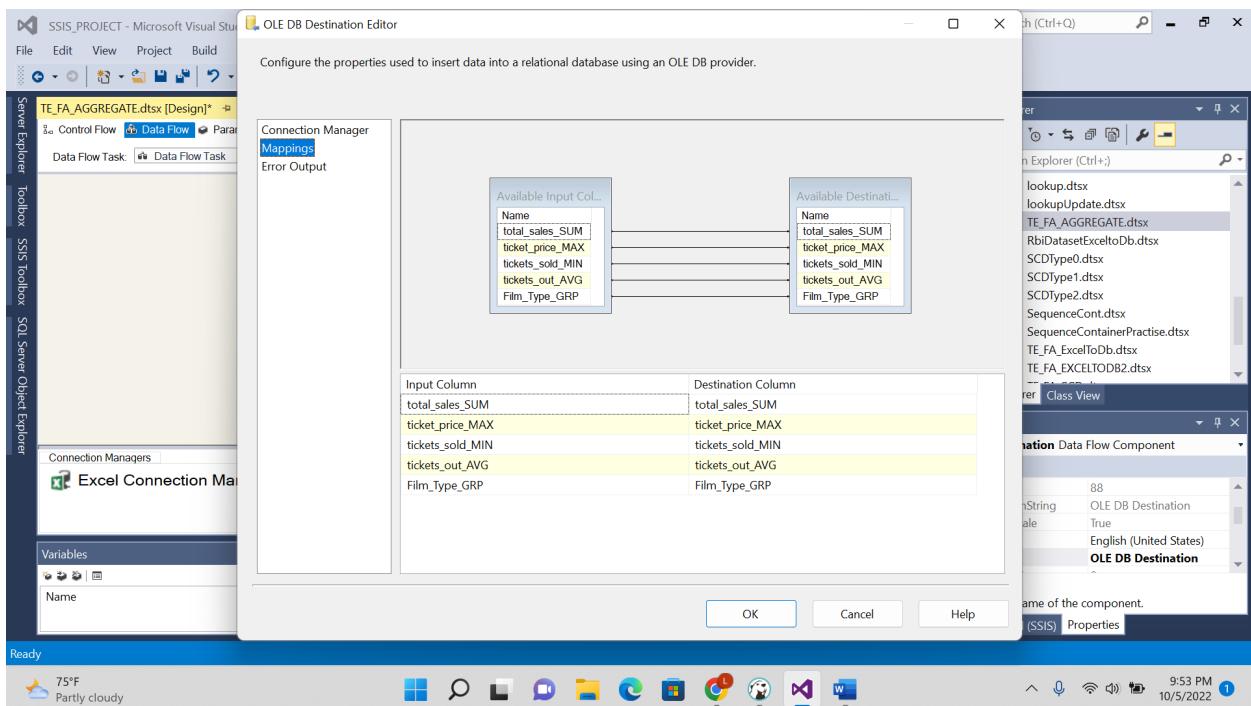
Step 6-



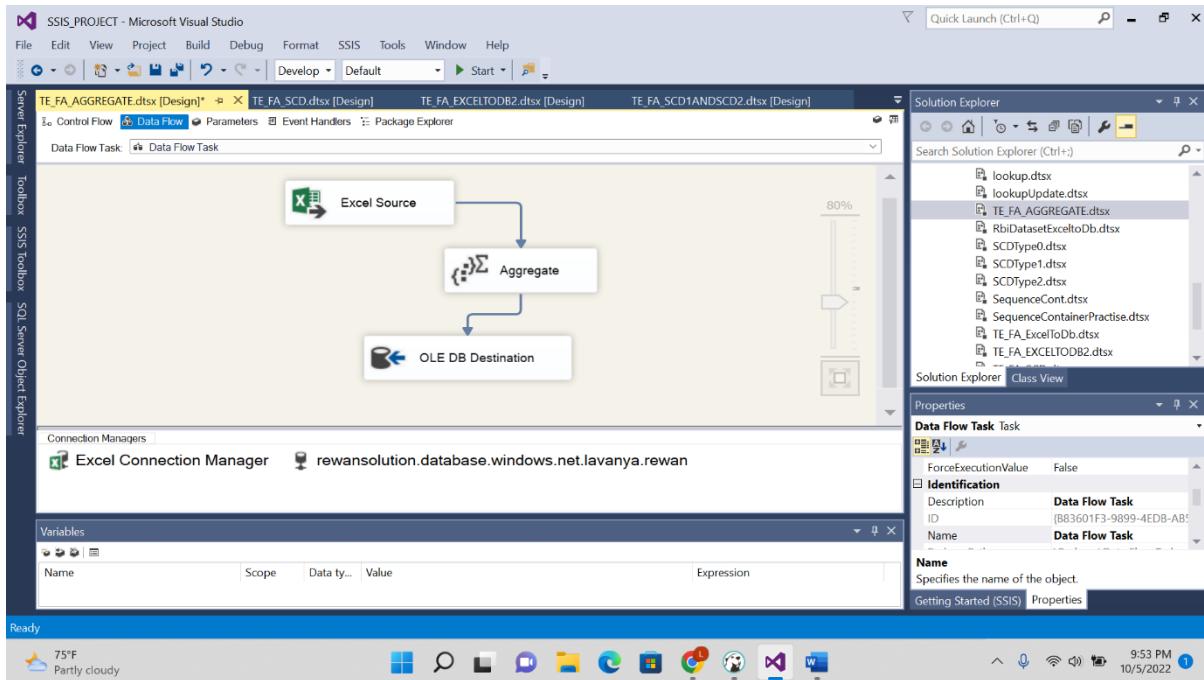
● Step 7-



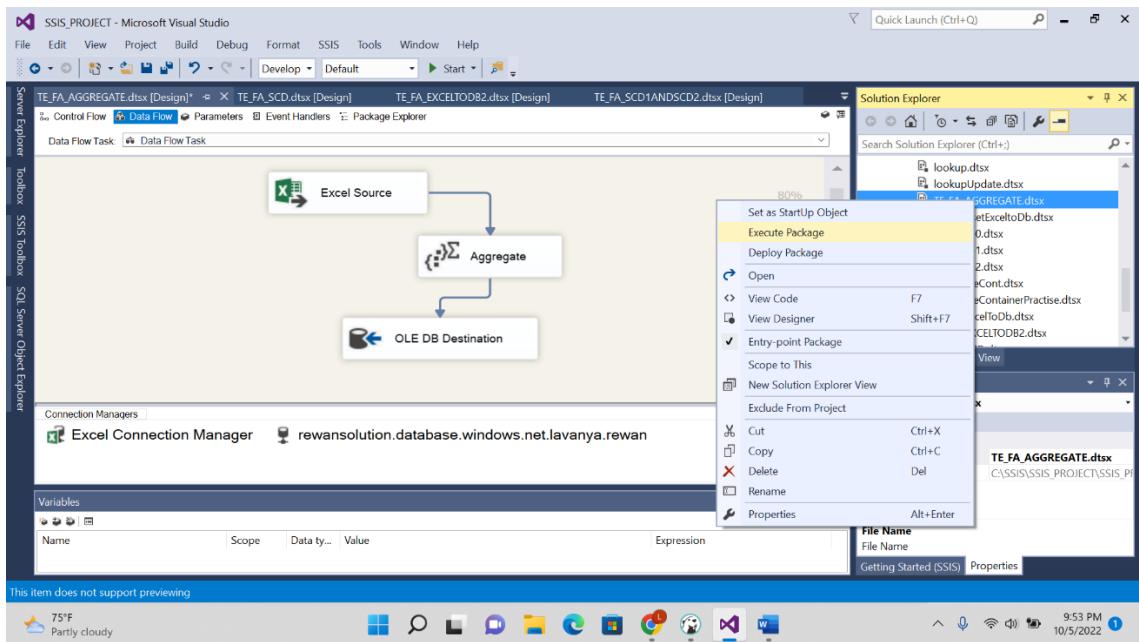
● Step 8-



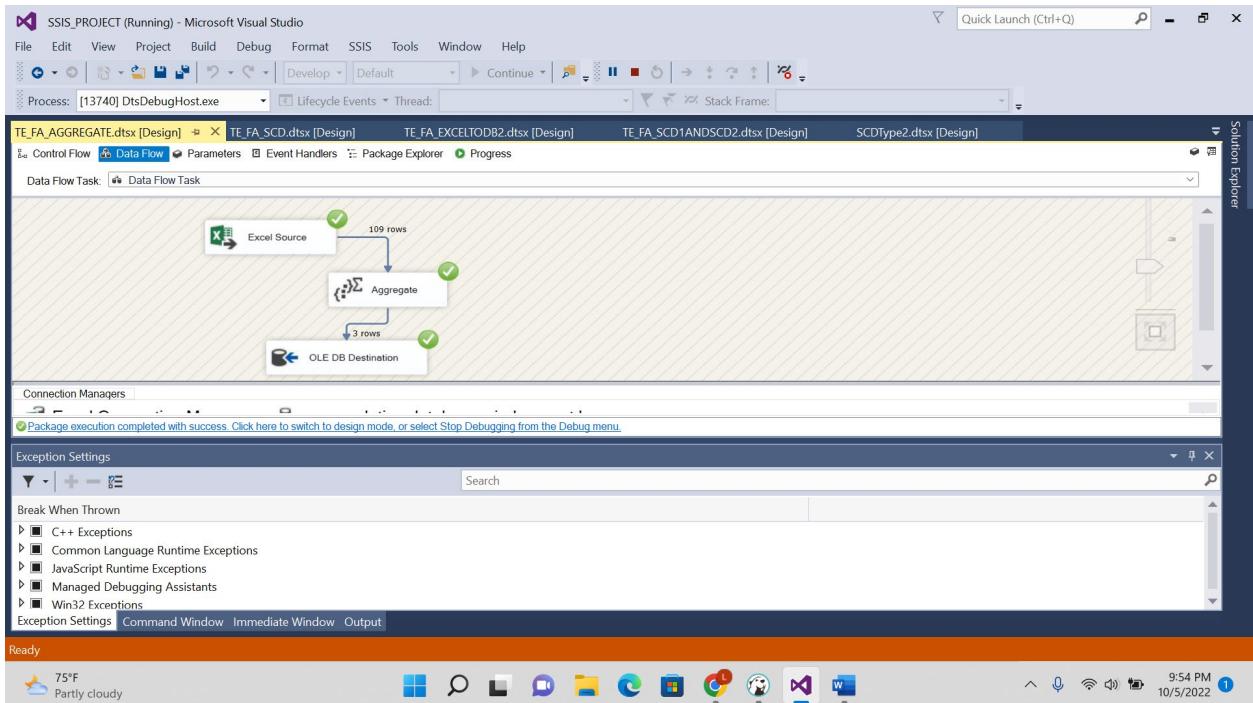
Step 9-



Step 10-



Step 11-



Destination : OLE DB

```

DBBeaver 22.2.0 - <lavanya> Script-2
File Edit Navigate Search SQL Editor Database Window Help
File Edit Navigate Search SQL Editor Database Window Help
Database Navigator × Projects × <dlithe> database.sql <> oracle-88094-0.cloudclusters.net> Script-1 <> <lavanya> Referential integrity.sql <> <lavanya> Script-2 ×
Enter a part of object name here
> DBeaver Sample Database (SQLite)
> dlithe - rewsolution.database.windows.net:1433
> lavanya - rewsolution.database.windows.net:1433
> oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

CREATE TABLE TE_FA_HEALTH_SCDDEST
(
    [GENDER] nvarchar(255),
    [CATEGORY_NAME] nvarchar(255),
    [SURGERY_CODE] nvarchar(255),
    [SURGERY] nvarchar(255),
    [VILLAGE] nvarchar(255),
    [MANDAL_NAME] nvarchar(255),
    [DISTRICT_NAME] nvarchar(255),
    [HOSP_NAME] nvarchar(255),
    [HOSP_TYPE] nvarchar(255),
    [CLAIM_AMOUNT] float,
    [SURGERY_DATE] nvarchar(255),
    [DISCHARGE_DATE] nvarchar(255)
)

SELECT * FROM TE_FA_HEALTH_SCDDEST

-----AGGREGATE TABLE-----
----Excel To DB-----
----SOURCE----- (Excel-Cinema_Data )

-----DESTINATION----- (OLE DB)
CREATE TABLE TE_FA_AGGREGATE_DEST
(
    [total_sales_SUM] float,
    [ticket_price_MAX] float,
    [tickets_sold_MIN] float,
    [tickets_out_AVG] float,
    [Film_Type_GRP] nvarchar(255)
)

SELECT * FROM TE_FA_AGGREGATE_DEST

```

Result:

DBeaver 22.2.0 - <lavanya> Script-2

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto lavanya dbo@lavanya Projects <dlithe> database.sql <oracle-88094-0.cloudclusters.net> Script-1 <lavanya> Referential integrity.sql *<lavanya> Script-2

Database Navigator Projects

Enter a part of object name here

> DBeaver Sample Database (SQLite)

> dlithe - rewsolution.database.windows.net:1433

> lavanya - rewsolution.database.windows.net:1433

> oracle-88094-0.cloudclusters.net - oracle-88094-0.cloudclusters.net

Results 1 x

SELECT * FROM TE_FA_AGGREGATE_DE

	total_sales_SUM	ticket_price_MAX	tickets_sold_MIN	tickets_out_AVG	Film_Type_GRP
1	136,250,000	150,000	2	0.0816326531	Romance
2	331,330,000	150,000	37	0.7073170732	Horror
3	239,895,000	76,538,46154	201	0	Family

Project - General

Name DataSource

Bookmarks Diagrams Scripts

Record

Save Cancel Script Smart Insert 200 Rows: 0 3 row(s) fetched - 206ms, on 2022-10-05 at 21:54:32

75°F Partly cloudy 9:54 PM 10/5/2022

The screenshot shows the DBeaver interface with a query results window open. The query is `SELECT * FROM TE_FA_AGGREGATE_DE`. The results grid contains three rows of data with columns: total_sales_SUM, ticket_price_MAX, tickets_sold_MIN, tickets_out_AVG, and Film_Type_GRP. The rows correspond to Romance, Horror, and Family genres respectively. Below the grid, there's a message indicating 3 rows were fetched in 206ms. The bottom status bar shows the date and time (10/5/2022, 9:54 PM), weather (75°F, partly cloudy), and battery level.