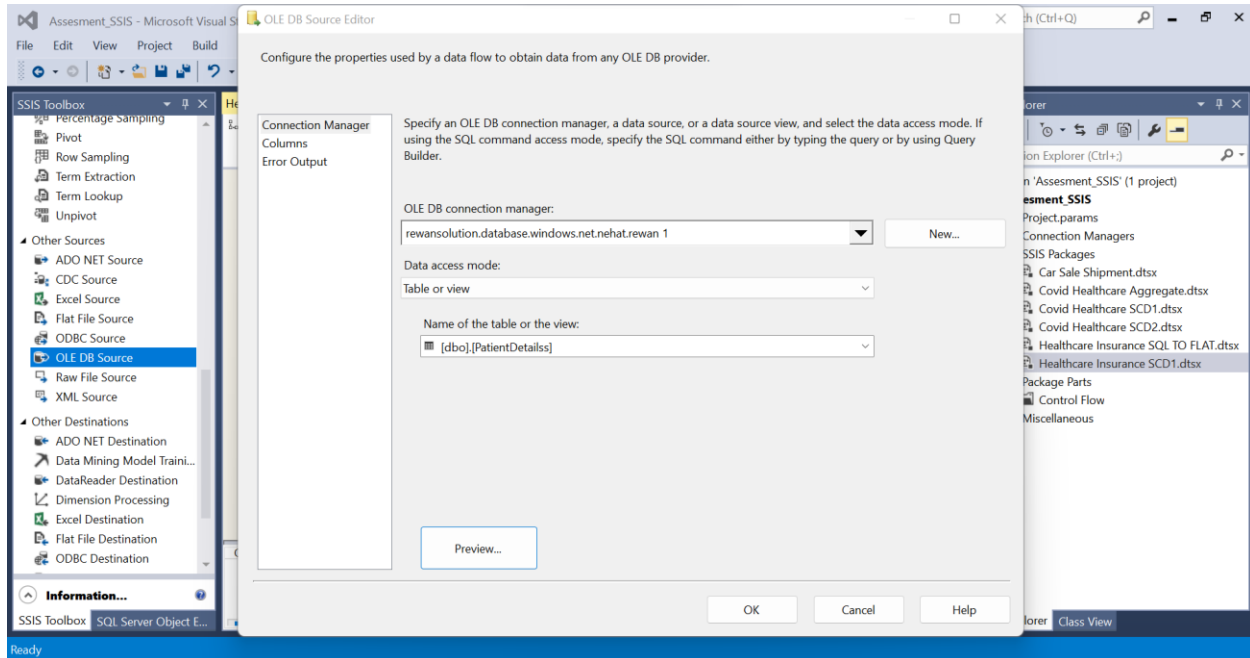


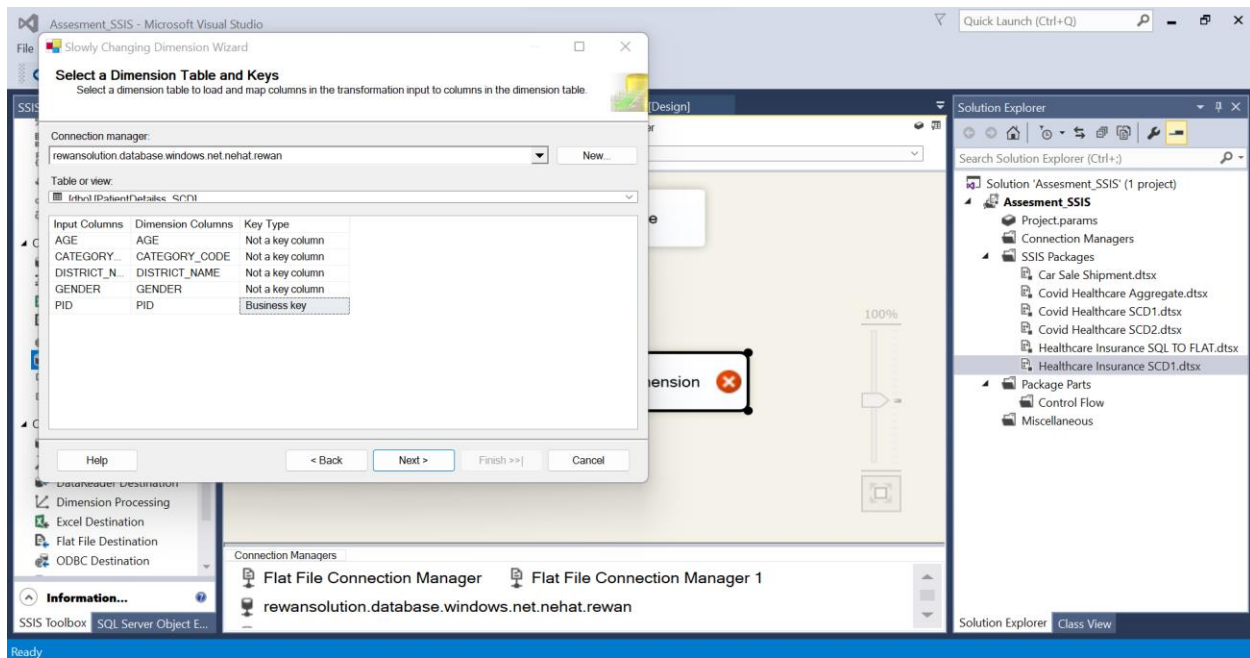
Module 2: SSIS ----> Data Source 2: Insurance Claim_State_Health_Data

SCD1

Step 1 - SQL Table - SCD1



Step 2 - Business Key (PID) - SCD1



Slowly Changing Dimension Wizard

Slowly Changing Dimension Columns
Manage the changes to column data in your slowly changing dimensions by setting the change type for dimension columns.

Fixed Attribute
Select this type when the value in a column should not change. Changes are treated as errors.

Changing Attribute
Select this type when changed values should overwrite existing values. This is a Type 1 change.

Historical Attribute
Select this type when changes in column values are saved in new records. Previous values are saved in records marked as outdated. This is a Type 2 change.

Select a change type for slowly changing dimension columns:

Dimension Columns	Change Type
AGE	Fixed attribute
CATEGORY_CODE	Changing attribute
DISTRICT_NAME	Fixed attribute
GENDER	Fixed attribute

Buttons: Help, < Back, Next >, Finish >>, Cancel, Remove

Background: SSIS Design view showing 'Flat File Connection Manager' and 'Flat File Destination'.

Assessment_SSIIS (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Format SSIS Tools Window Help

Process: [13480] DtsDebugHost.exe Lifecycle Events Thread: Stack Frame:

Healthcare Insurance SCD1.dtsx [Design] Healthcare Insuranc...FLAT.dtsx [Design] Covid Healthcare SCD2.dtsx [Design] Covid Healthcare A...egate.dtsx [Design]

Control Flow Data Flow Parameters Event Handlers Package Explorer Progress

Data Flow Task: Data Flow Task

OLE DB Source

30 rows

Slowly Changing Dimension

New Output (30 rows)

Inferred Member Updates Output

Changing Attribute Updates Output

Insert Destination

OLE DB Command

OLE DB Command 1

Connection Managers

Package execution completed with success. Click here to switch to design mode, or select Stop Debugging from the Debug menu.

Locals Watch 1 Exception Settings Command Window Immediate Window Output

Step 5 - Result - SCD1

DBeever 22.2.0 - <nehat> Module 2 - SSIS (Covid Healthcare)

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto

Database Navigator Projects

Enter a part of object name here

dlithe - rewsolution.database.windows.net:1433

nehat - rewsolution.database.windows.net:1433

Databases

nehat

Schemas

dbo

Tables

Views

Indexes

Procedures

Sequences

Synonyms

Triggers

Data Types

Database triggers

Security

Administer

Project - General

Name DataSource

Bookmarks

Diagrams

Scripts

nehat

dbo@nehat

SELECT * FROM PatientDetailss

CREATE TABLE PatientDetailss_SCD

(

PID INT PRIMARY KEY,

AGE INT,

GENDER VARCHAR(50),

DISTRICT_NAME VARCHAR(50),

CATEGORY_CODE VARCHAR(50)

)

SELECT * FROM PatientDetailss_SCD

-- SCD1

-- (Can be loaded and Updated)

UPDATE PatientDetailss SET CATEGORY_CODE= 'M5' WHERE PID=3

Results 1

SELECT * FROM PatientDetailss_SCD

Grid

	PID	AGE	GENDER	DISTRICT_NAME	CATEGORY_CODE
1	1	56	Female	Srikakulam	M6
2	2	37	Male	Srikakulam	M6
3	3	50	Male	Srikakulam	M5
4	4	45	Male	Srikakulam	M6
5	5	54	Male	Srikakulam	M6
6	6	35	Male	Srikakulam	M6
7	7	52	Male	Kurnool	M6

Value

Save Cancel Script

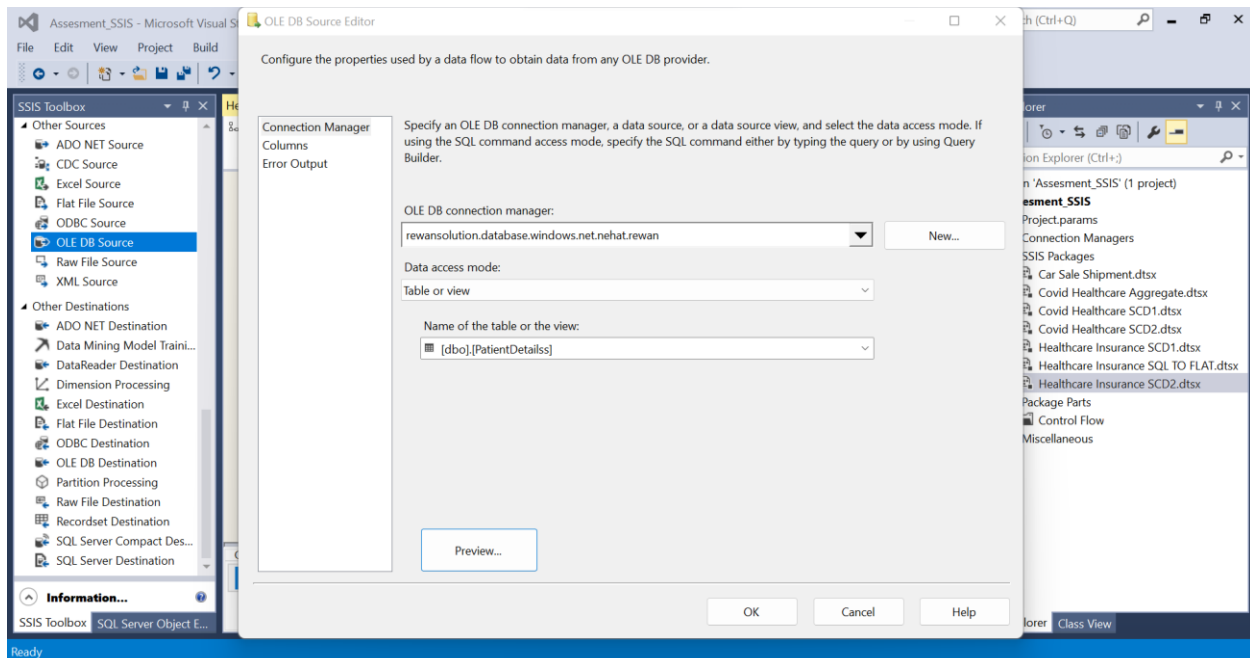
IST en Writable Smart Insert

200 30 Rows: 1 30 row(s) fetched - 94ms, on 2022-10-06 at 12:47:40

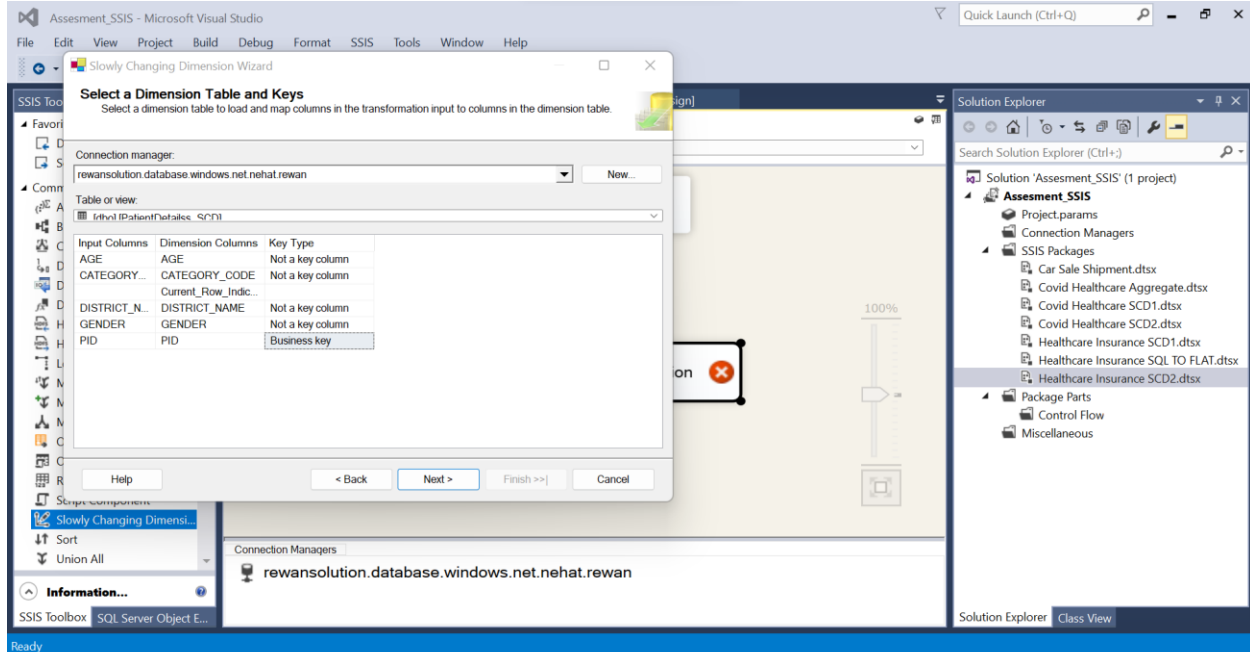
55:19:992 Set: 0 | 0

SCD2

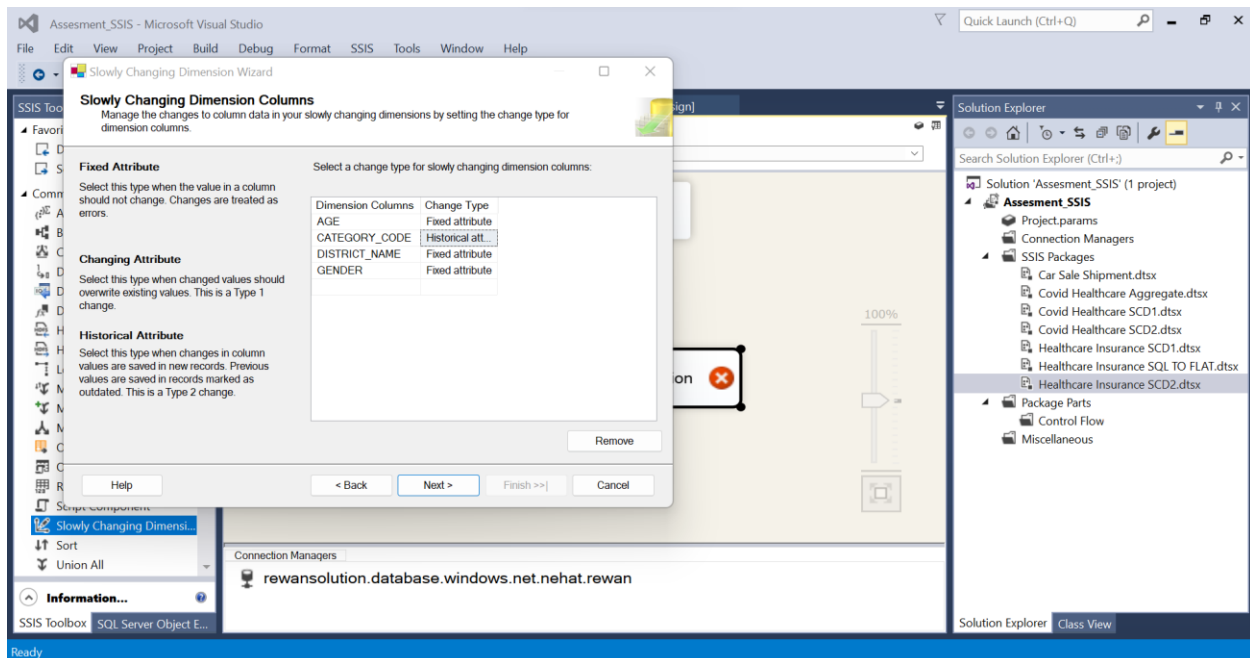
Step 1 - Source Connection - SCD2



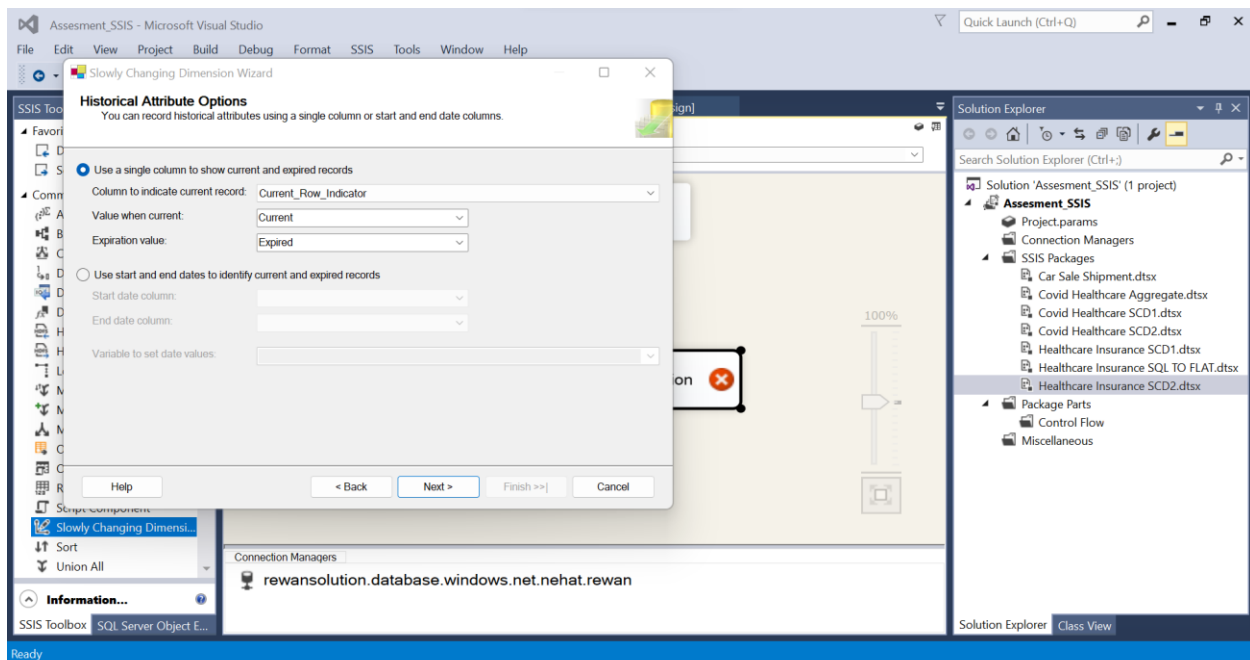
Step 2 - Business Key (PID) - SCD2



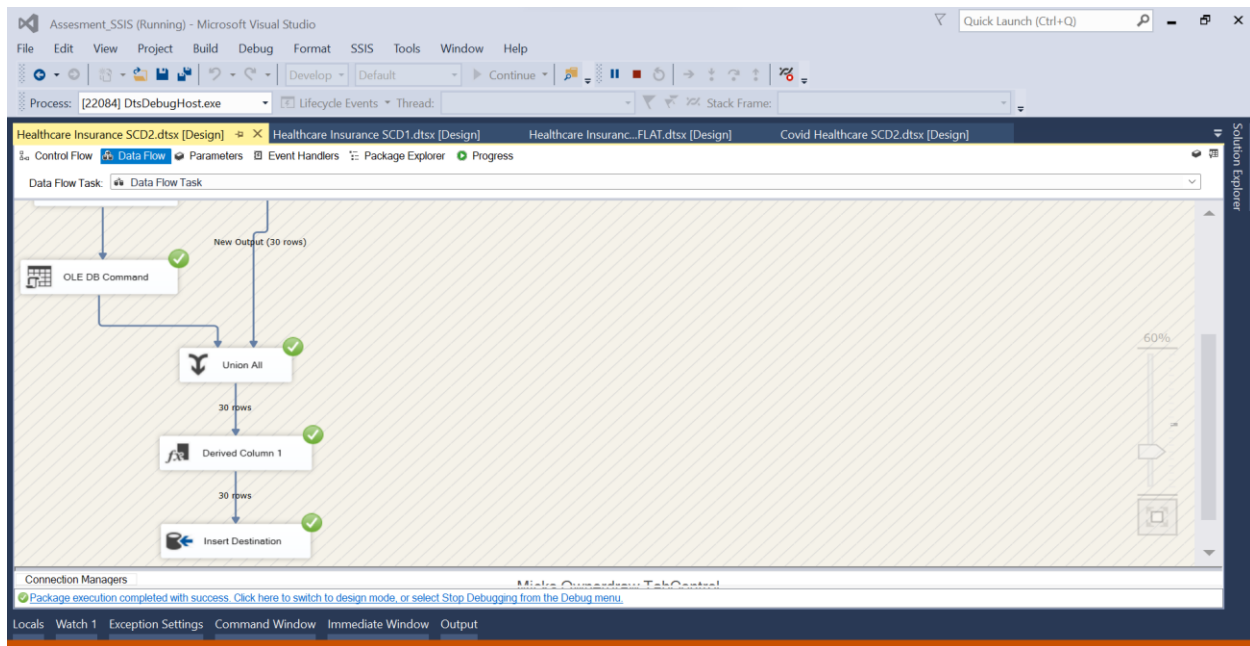
Step 3 - Historical Attribute (CATEGORY_CODE) - SCD2



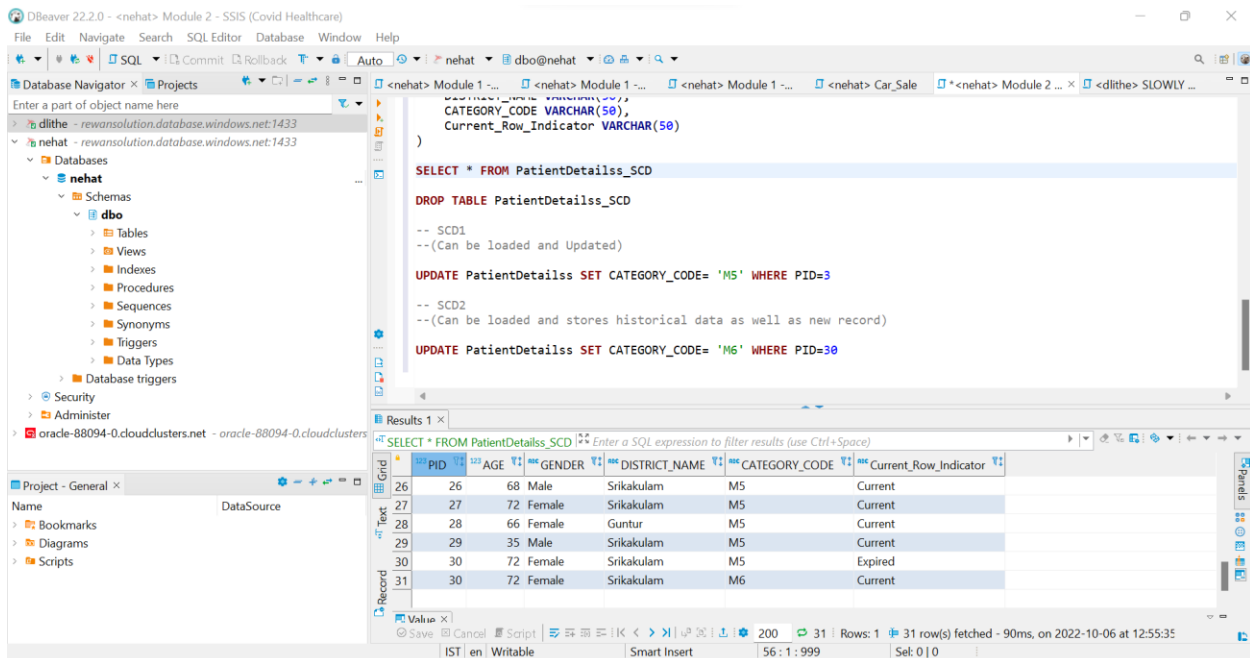
Step 4 - Current_Row_Indicator - SCD2



Step 5 - Execute - SCD2

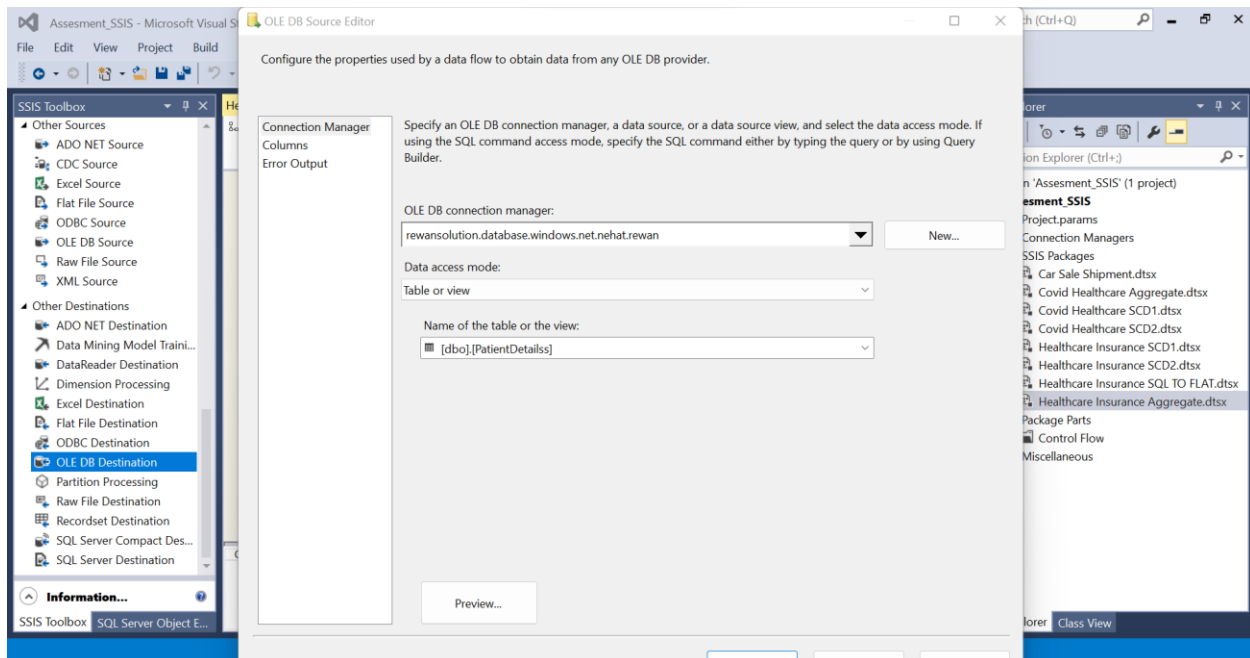


Step 6 - Result - SCD2

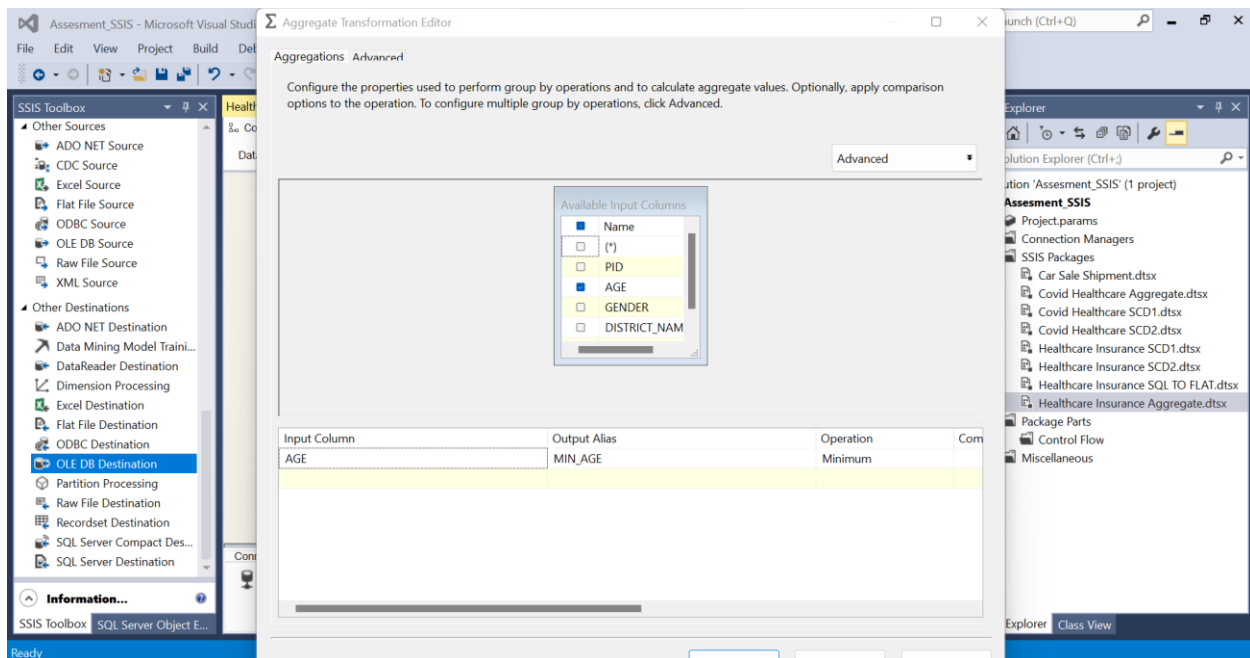


AGGREGATE

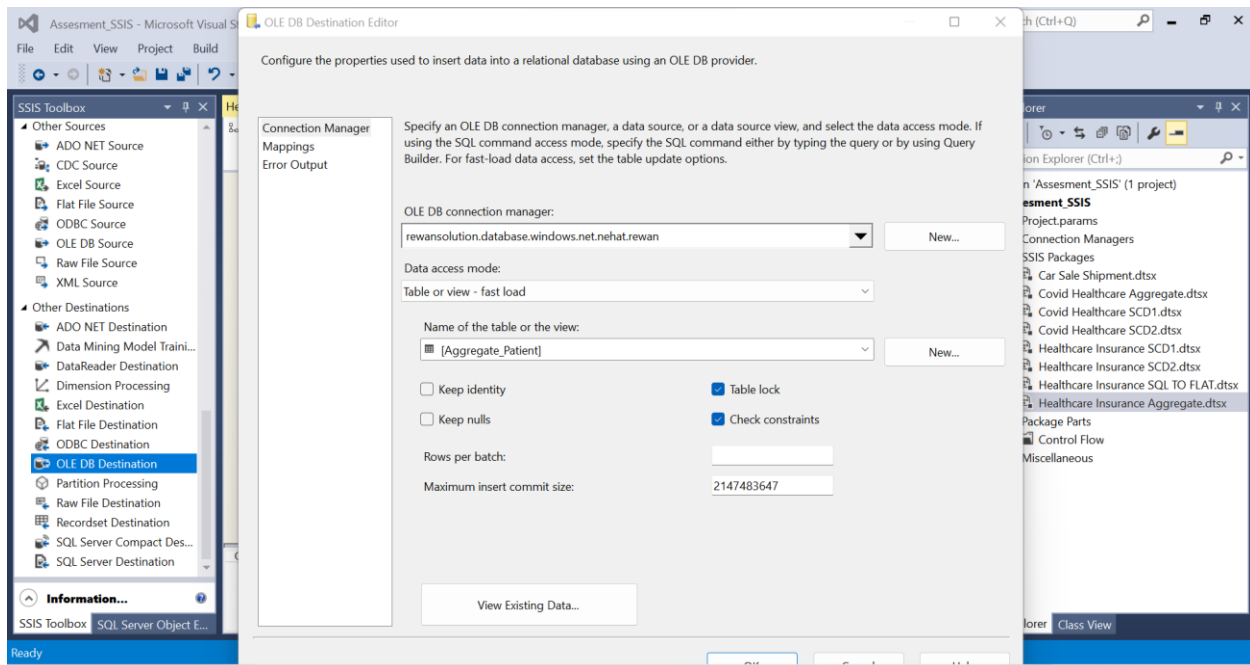
Step 1 - Source Connection



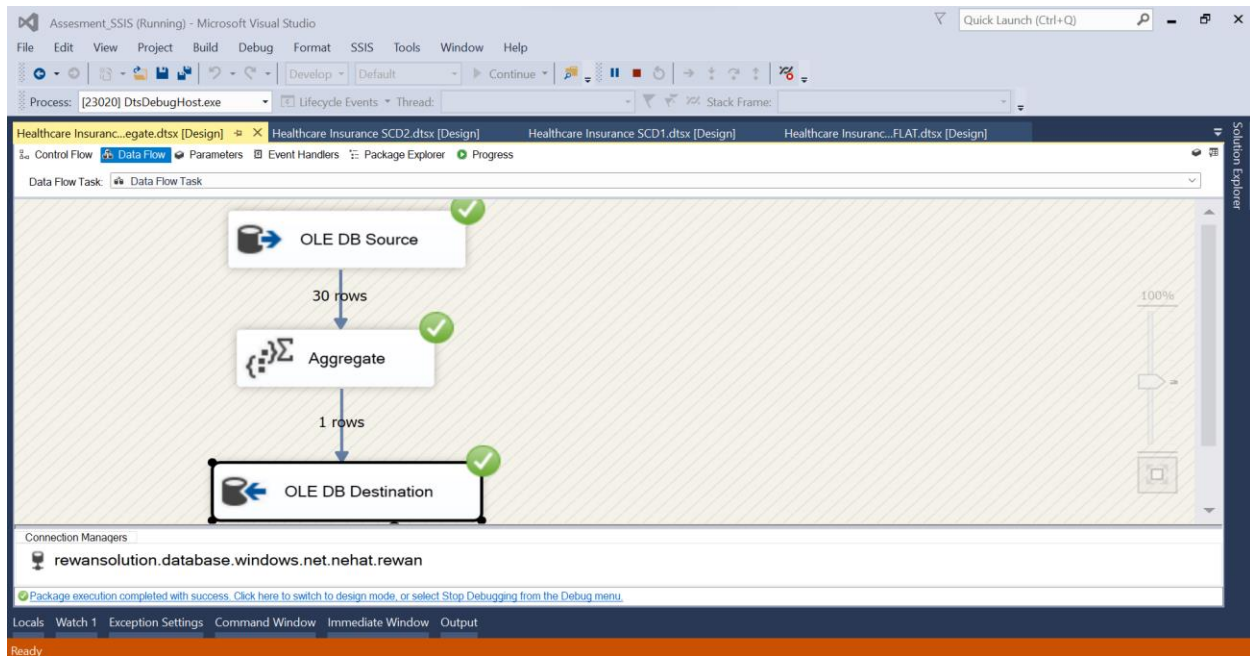
Step 2 - Perform Aggregation



Step 3 - Destination Connection



Step 4 - Execute



Step 5 – Result

Minimum of AGE

The screenshot shows the DBeaver 22.2.0 interface. The left sidebar displays the database structure for 'nehat' (rewansolution.database.windows.net:1433), including schemas, tables, views, indexes, procedures, sequences, synonyms, triggers, and data types. The main SQL editor contains the following code:

```
-- SCD1
--(Can be loaded and Updated)

UPDATE PatientDetailss SET CATEGORY_CODE= 'M5' WHERE PID=3

-- SCD2
--(Can be loaded and stores historical data as well as new record)

UPDATE PatientDetailss SET CATEGORY_CODE= 'M6' WHERE PID=30

*****

--Aggregate
--Minimun of AGE

SELECT * FROM Aggregate_Patient
```

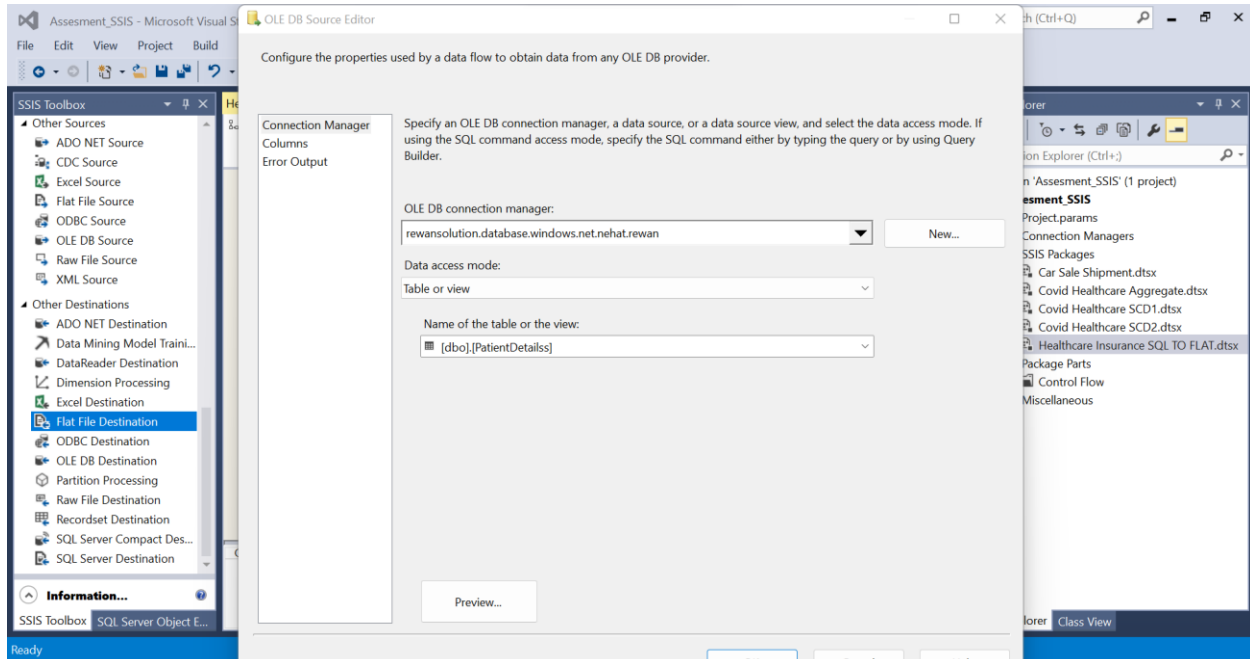
The 'Results' tab shows a single row of data:

MIN_AGE
1

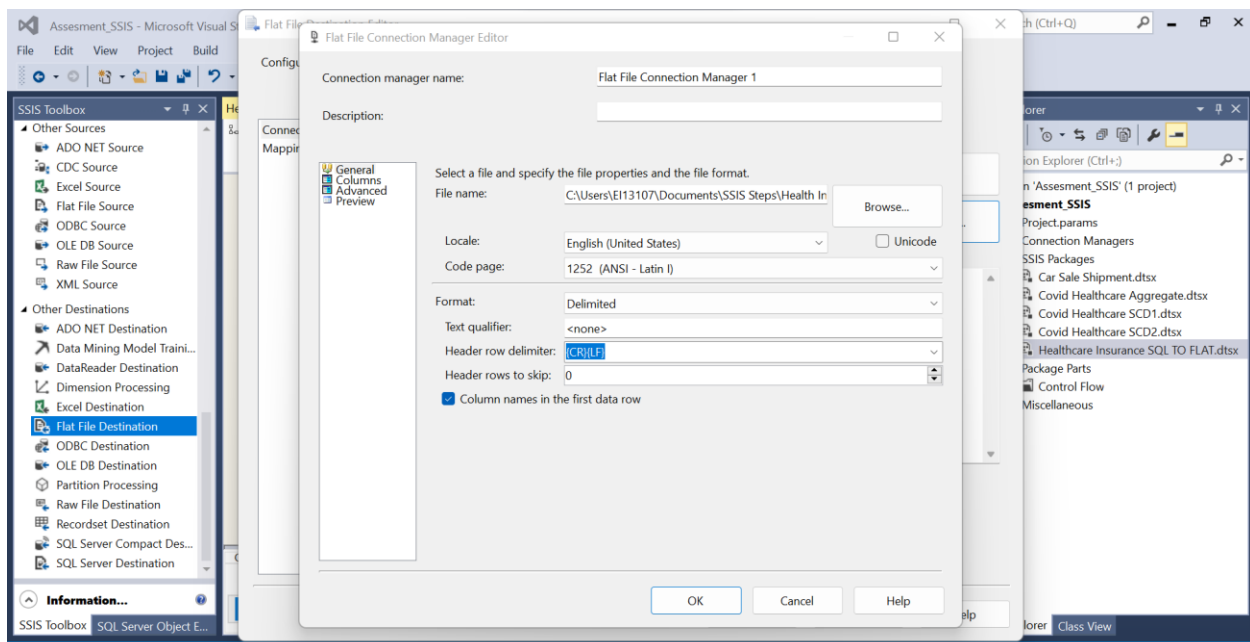
The status bar at the bottom indicates: 200 rows, 1 row(s) fetched - 90ms, on 2022-10-06 at 13:02:48. The 'Value' tab shows the selected cell value: 1.

SQL TO FLAT FILE

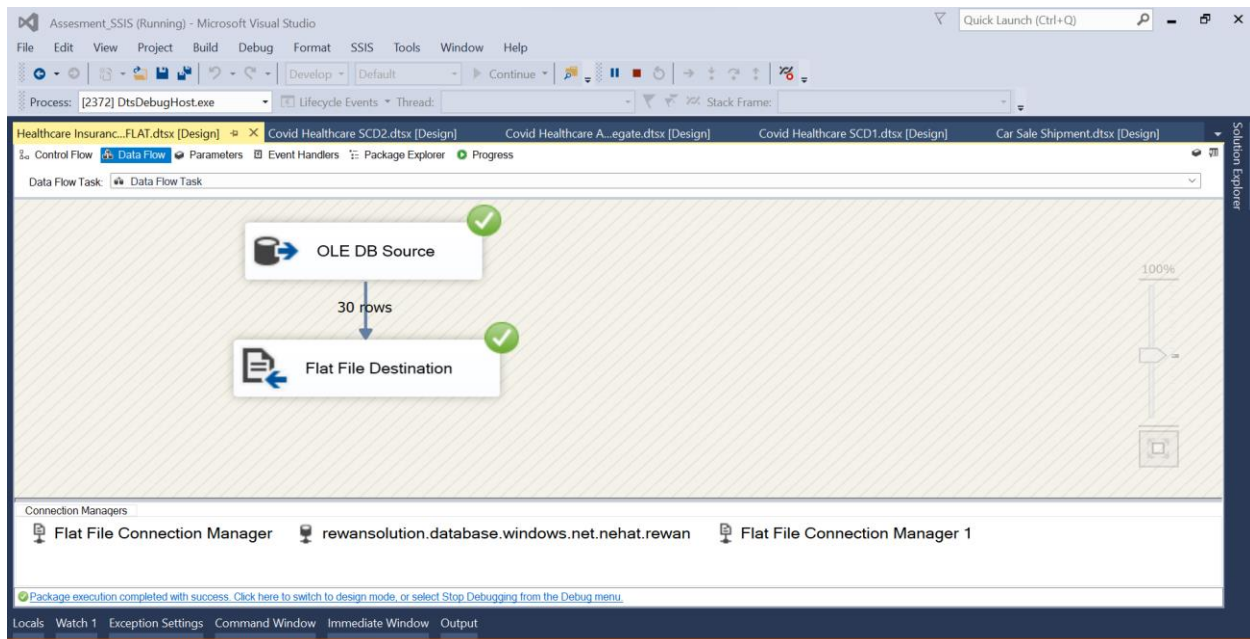
Step 1 - SQL Table Selection



Step 2 - Flat File Source



Step 3 - Execute



Step 4 - SQL to Flat File - Result

