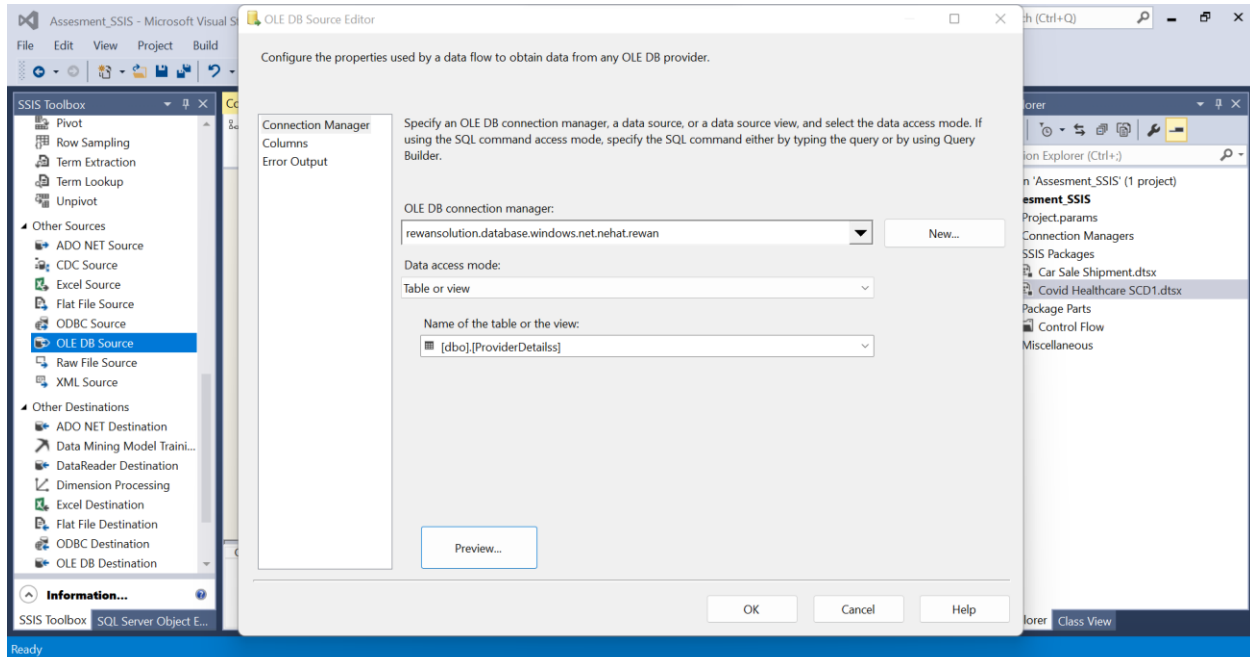


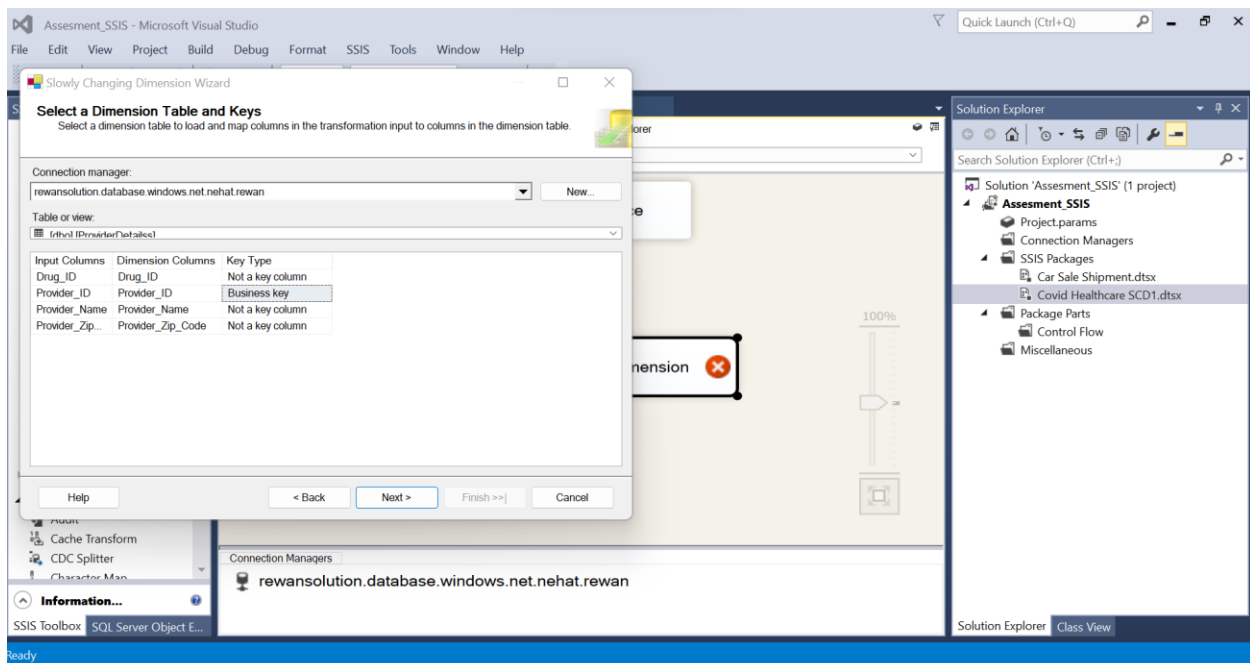
## Module 2: SSIS ----> Data Source 1: Inpatient\_provdrr\_Covid\_Healthcare

### SCD 1:

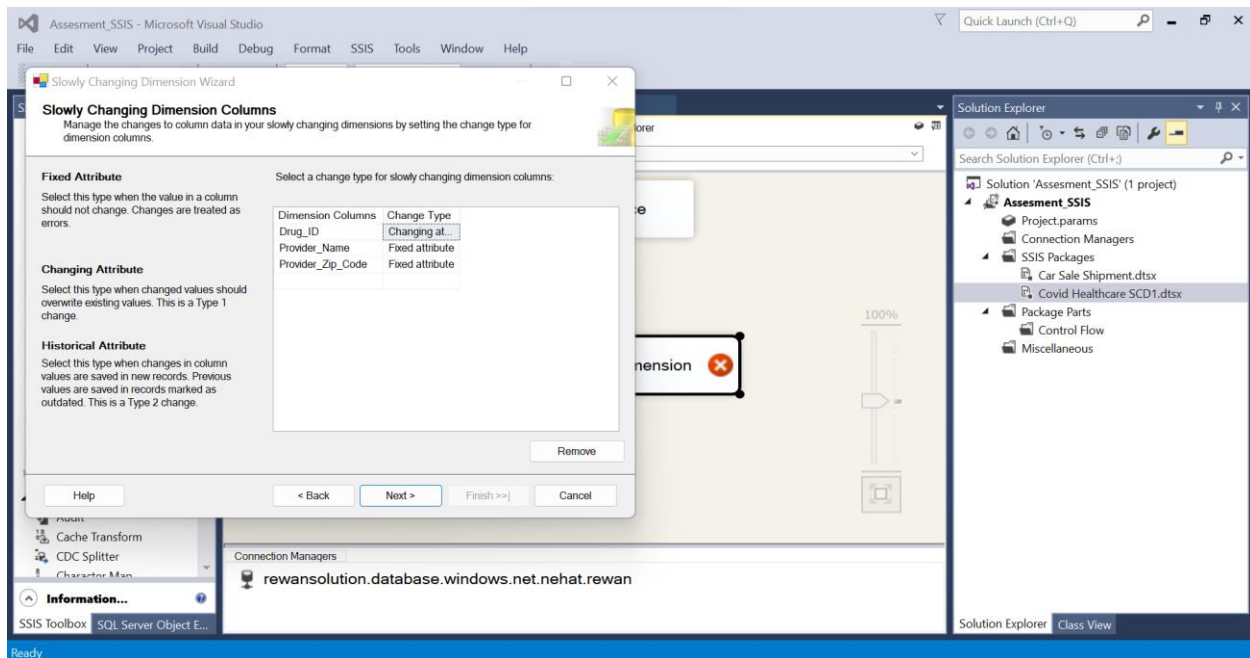
#### Step 1 - SQL table to use SCD1



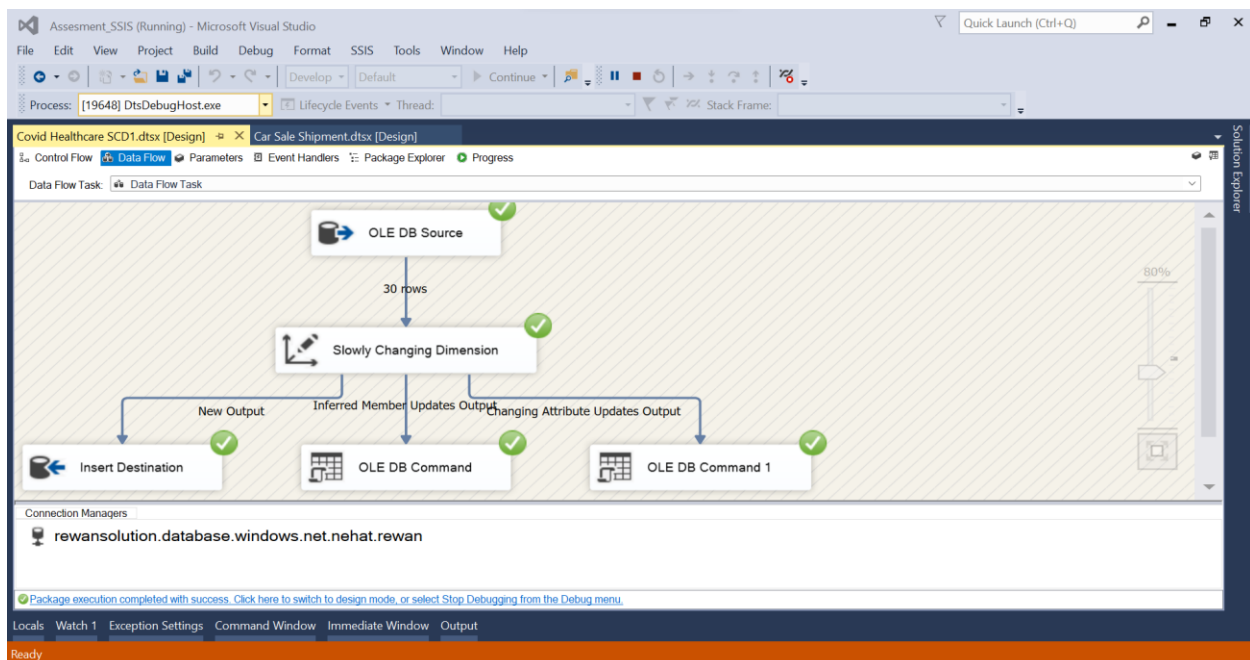
#### Step 2 - Business Key (Provider\_ID) - SCD1



### Step 3 - Changing Attribute (Drug\_ID) - SCD1



### Step 4 - Execute- SCD1



## Step 5 - Result SCD1

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

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator x Projects

Enter a part of object name here

dlithe - rewasolution.database.windows.net:1433

nehat - rewasolution.database.windows.net:1433

Databases

nehat

Schemas

dbo

Tables

Views

Indexes

Procedures

Sequences

Synonyms

Triggers

Data Types

Database triggers

Security

Administer

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

Project - General x

Name DataSource

Bookmarks

Diagrams

Scripts

SQL

```
SELECT * FROM ProviderDetailss

CREATE TABLE ProviderDetailss_SCD2
(
    Provider_ID FLOAT PRIMARY KEY,
    Drug_ID FLOAT,
    Provider_Name VARCHAR(50) NOT NULL,
    Provider_Zip_Code FLOAT,
)

SELECT * FROM ProviderDetailss_SCD2

DROP TABLE ProviderDetailss_SCD2

-- SCD1
--(Can be loaded and updated)

UPDATE ProviderDetailss SET DRUG_ID=40 WHERE Provider_ID=10006
```

Results 1 x

SELECT \* FROM ProviderDetailss\_SCD2

	Provider_ID	Drug_ID	Provider_Name	Provider_Zip_Code
1	10.001	39	SOUTHEAST ALABAMA MEDICAL CENTER	36.301
2	10.005	39	MARSHALL MEDICAL CENTER SOUTH	35.957
3	10.006	40	ELIZA COFFEE MEMORIAL HOSPITAL	35.631
4	10.011	39	ST VINCENTS EAST	35.235
5	10.016	39	SHELBY BAPTIST MEDICAL CENTER	35.007
6	10.023	39	BAPTIST MEDICAL CENTER SOUTH	36.116
7	10.030	39	EAST ALABAMA MEDICAL CENTER AND CUF	36.000

Value x

Save Cancel Script

IST en Writable

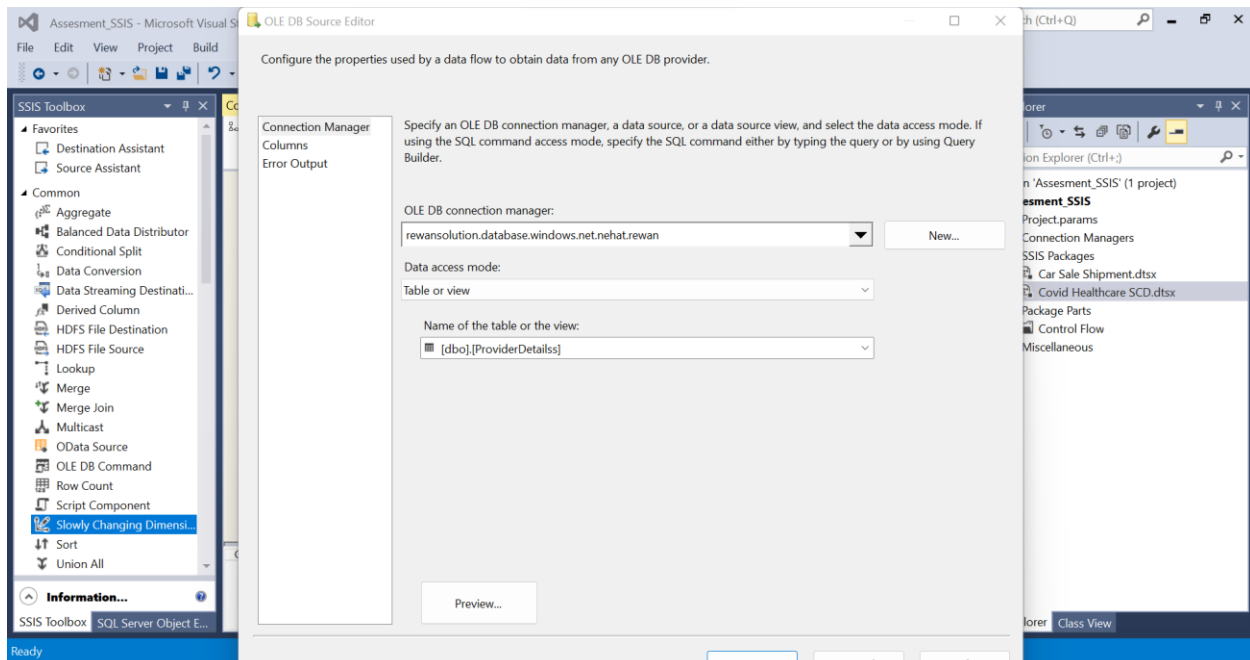
Smart Insert

200 30 Rows: 1 30 row(s) fetched - 90ms, on 2022-10-06 at 10:00:32

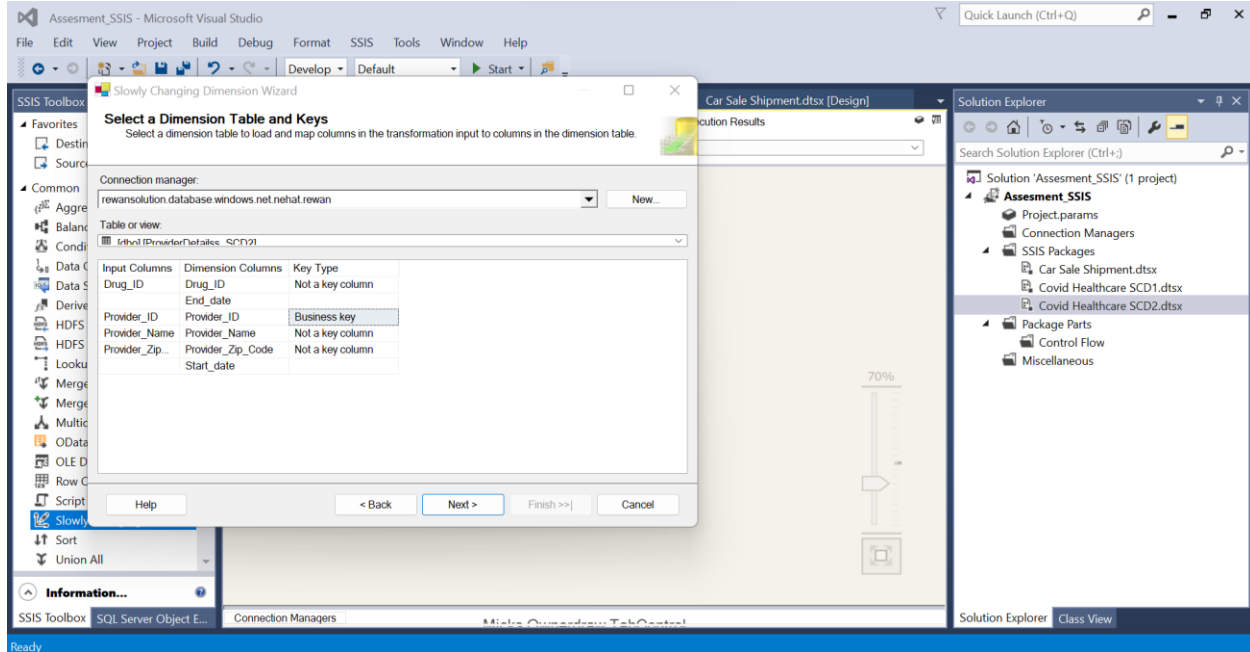
12:23:218 Set: 0 | 0

## SCD2

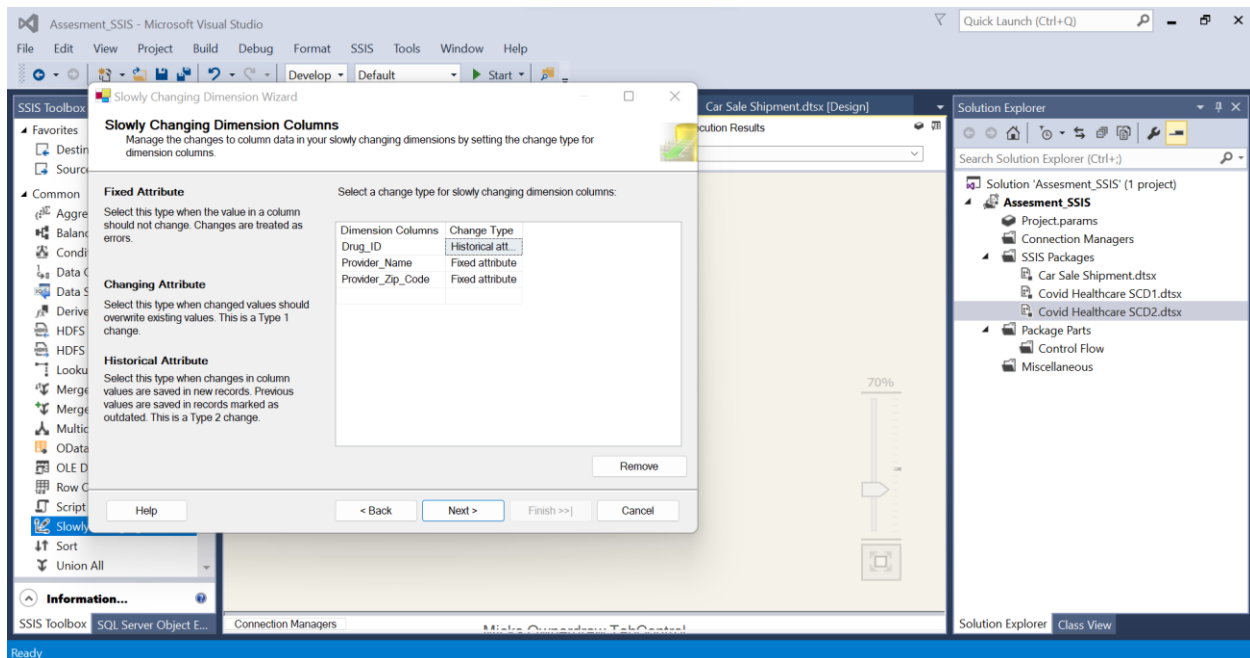
### Step 1 SQL table to use - SCD2



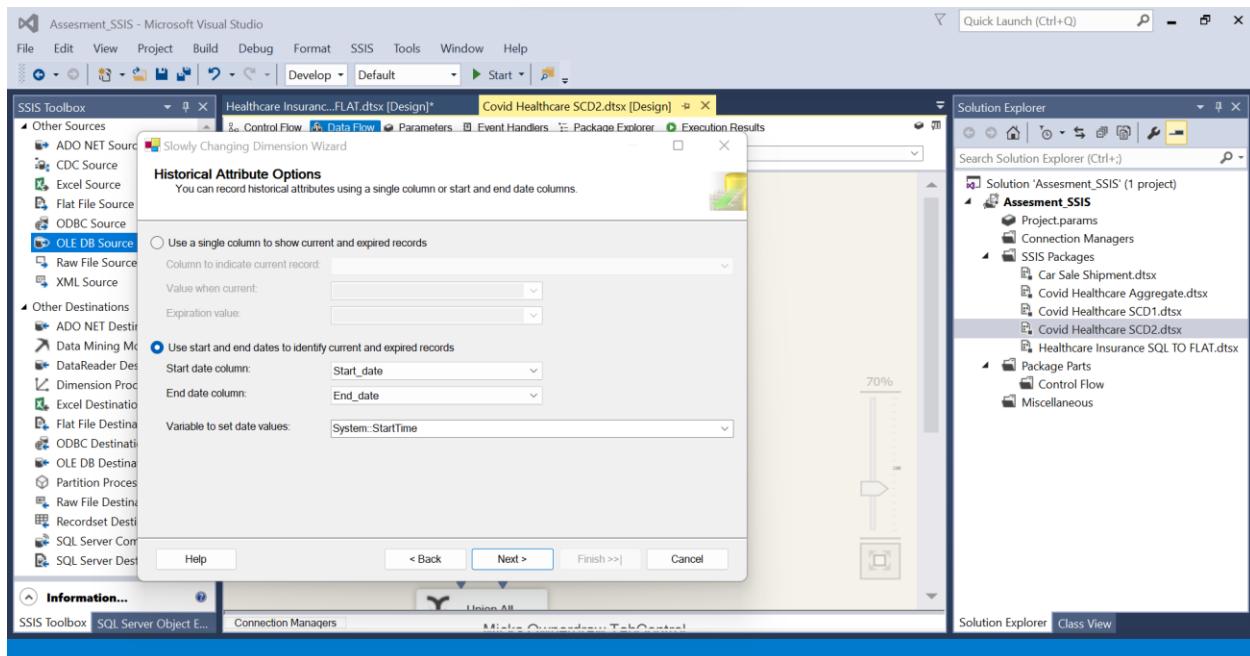
### Step 2 - Business Key (Provider\_ID) - SCD2



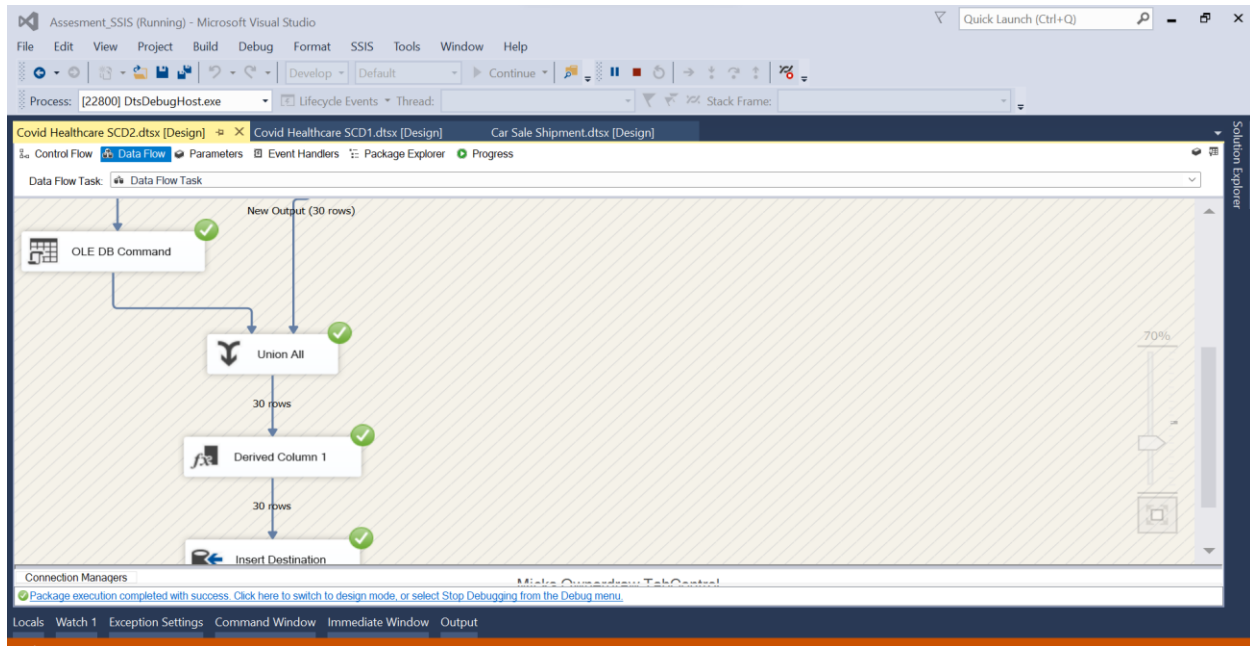
### Step 3 - Historical Attribute (Drug\_ID) - SCD2



### Step 4 - Historical Attribute - Start and End date - SCD2



## Step 5 - Execute- SCD2



## Step 6 - Result SCD2

The screenshot shows the DBeaver 22.2.0 interface with the SQL Editor open. The SQL Editor contains the following queries:

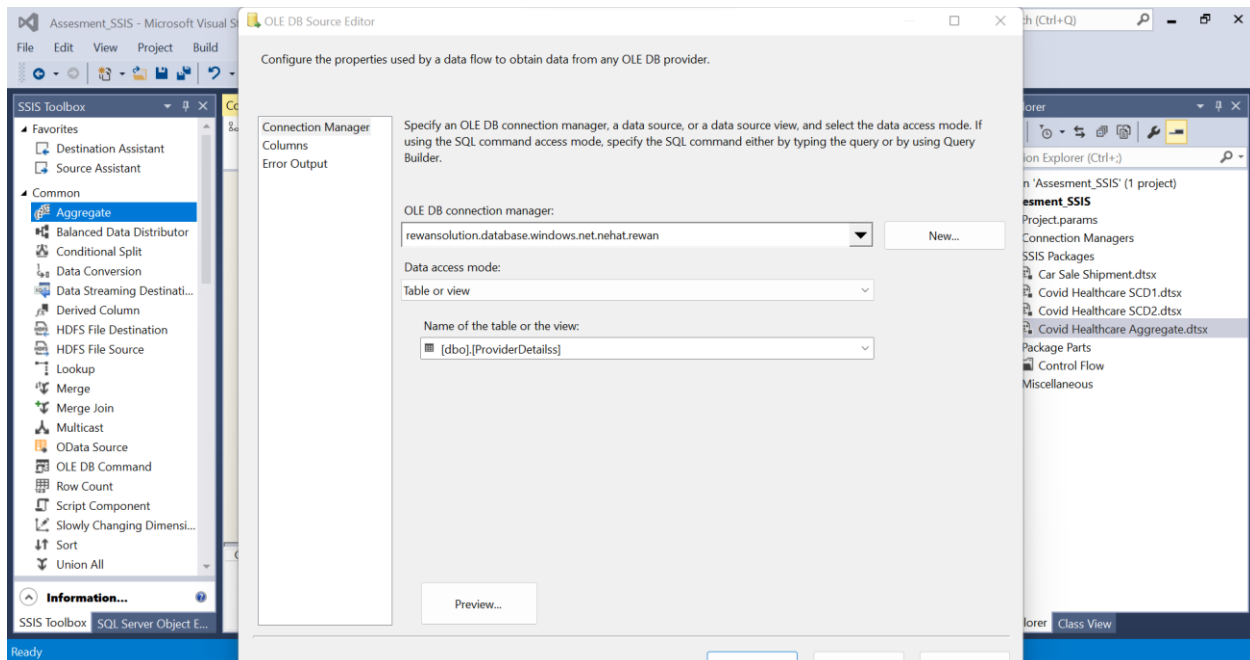
```
Provider_Zip_Code FLOAT,  
Start_date DATE,  
End_date DATE  
)  
SELECT * FROM ProviderDetailss_SCD2  
DROP TABLE ProviderDetailss_SCD2  
-- SCD1  
--(Can be loaded and Updated)  
UPDATE ProviderDetailss SET DRUG_ID=40 WHERE Provider_ID=10006  
-- SCD2  
--(Can be loaded and stores historical data as well as new record)  
UPDATE ProviderDetailss SET Provider_Zip_Code=36200 WHERE Provider_ID=10006
```

The Results grid shows 31 rows of data. The first 7 rows are displayed in the screenshot:

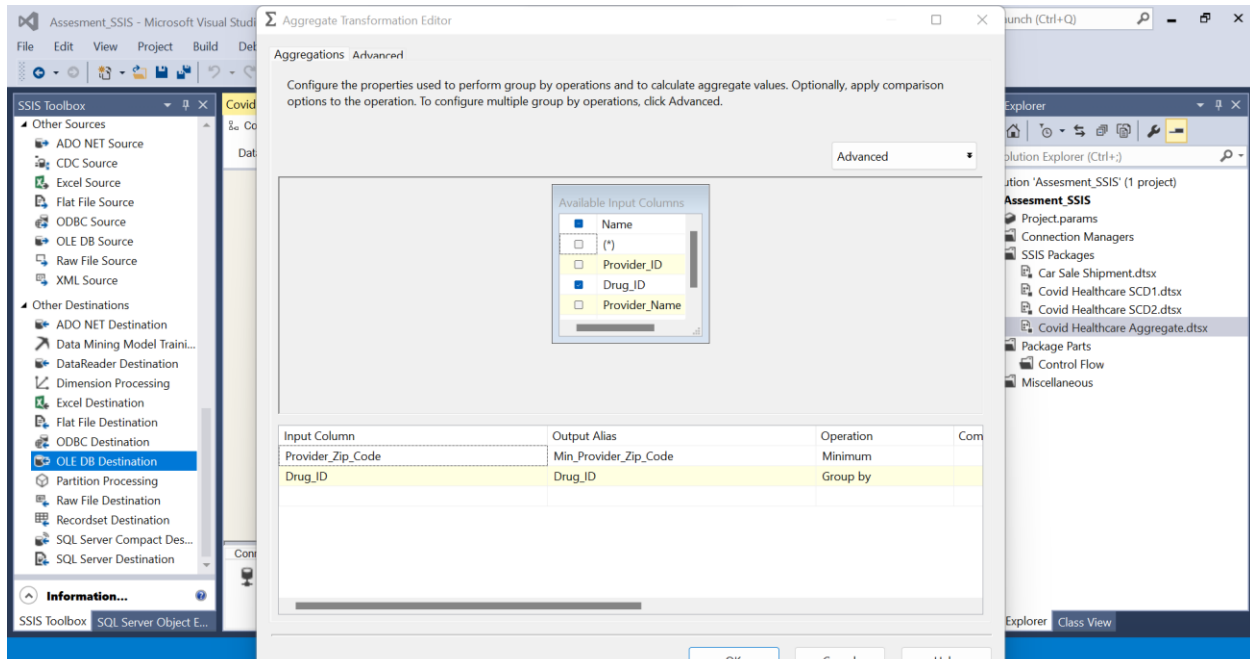
Provider_ID	Drug_ID	Provider_Name	Provider_Zip_Code	Start_date	End_date
10.001	39	SOUTHEAST ALABAMA MEDICAL CENTER	36.301	2022-10-06	[NULL]
10.005	39	MARSHALL MEDICAL CENTER SOUTH	35.957	2022-10-06	[NULL]
10.006	39	ELIZA COFFEE MEMORIAL HOSPITAL	35.631	2022-10-06	2022-10-06
10.011	39	ST VINCENTS EAST	35.235	2022-10-06	[NULL]
10.016	39	SHELBY BAPTIST MEDICAL CENTER	35.007	2022-10-06	[NULL]
10.023	39	BAPTIST MEDICAL CENTER SOUTH	36.116	2022-10-06	[NULL]
10.029	39	EAST ALABAMA MEDICAL CENTER AND SNF	36.801	2022-10-06	[NULL]

## AGGREGATE

### Step 1 - Choose the Source table (Covid Healthcare)

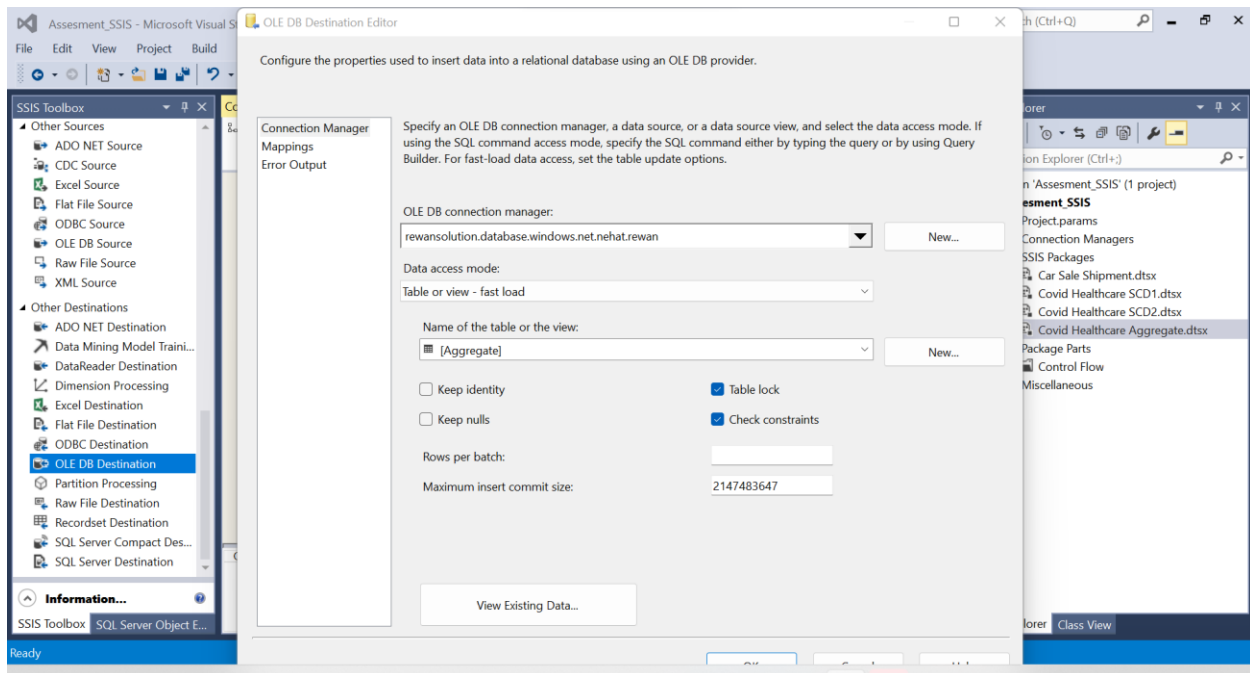


### Step 2 - Perform Aggregate (Covid Healthcare)

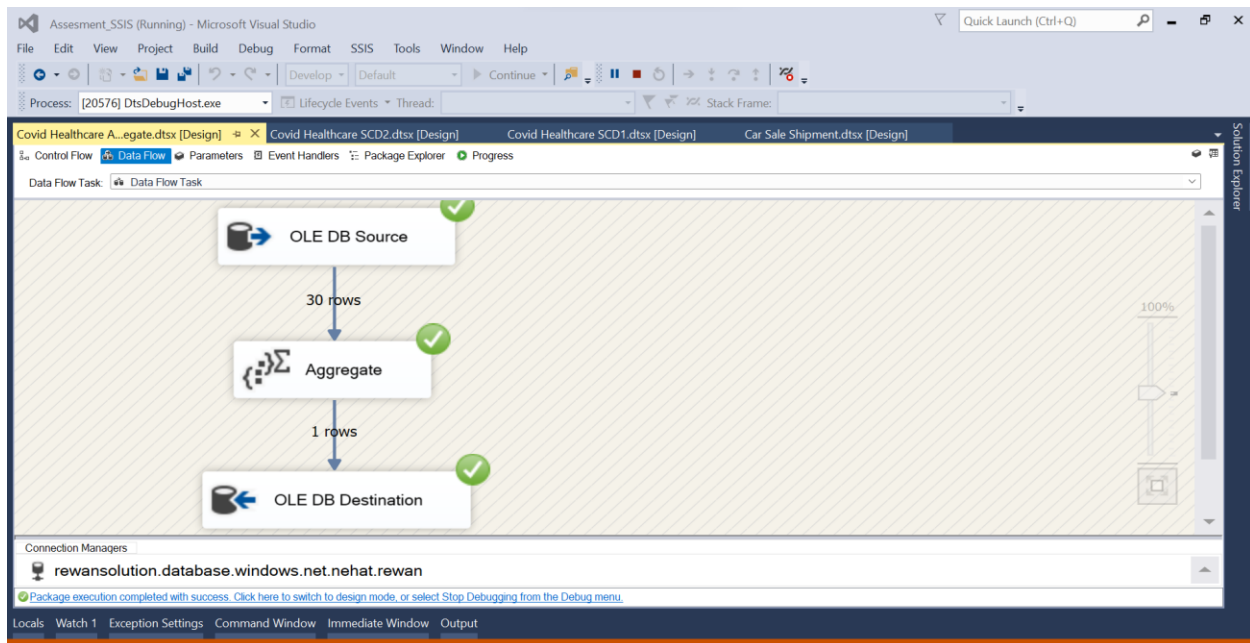




### Step 3 - Create new Destination table (Covid Healthcare)



### Step 4 - Execute (Covid Healthcare)





## Step 5 - Aggregate OP (Covid Healthcare)

### Provider\_Zip\_Code Group by Drug\_ID

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

File Edit Navigate Search SQL Editor Database Window Help

nehat dbo@nehat

Database Navigator Projects

Enter a part of object name here

dlithe - revansolution.database.windows.net:1433

nehat - revansolution.database.windows.net:1433

Databases

nehat

Schemas

dbo

Tables

Views

Indexes

Procedures

Sequences

Synonyms

Triggers

Data Types

Database triggers

Security

Administer

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

Project - General

Name DataSource

Bookmarks

Diagrams

Scripts

nehat> Module 1 ... nehat> Module 1 ... nehat> Module 1 ... nehat> Car\_Sale nehat> Module 2 ... x <dlithe> SLOWLY ...

```
UPDATE ProviderDetailss SET DRUG_ID=40 WHERE Provider_ID=10006
```

```
-- SCD2
```

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

```
UPDATE ProviderDetailss SET Provider_Zip_Code=36200 WHERE Provider_ID=10006
```

```
*****
```

```
--Aggregate
```

```
--Minimun of Provider_Zip_Code, Group by Drug_ID
```

```
SELECT * FROM Aggregate
```

```
*****
```

```
--PatientDetailss Table
```

Results 1 x

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

Grid	1	Min_Provider_Zip_Code	Drug_ID
Text	1	35,007	39
Record			

Value x

Save Cancel Script

IST en Writable Smart Insert

200 1 Rows: 1 1 row(s) fetched - 98ms, on 2022-10-06 at 11:08:04

34:19:666 Set: 0 | 0