

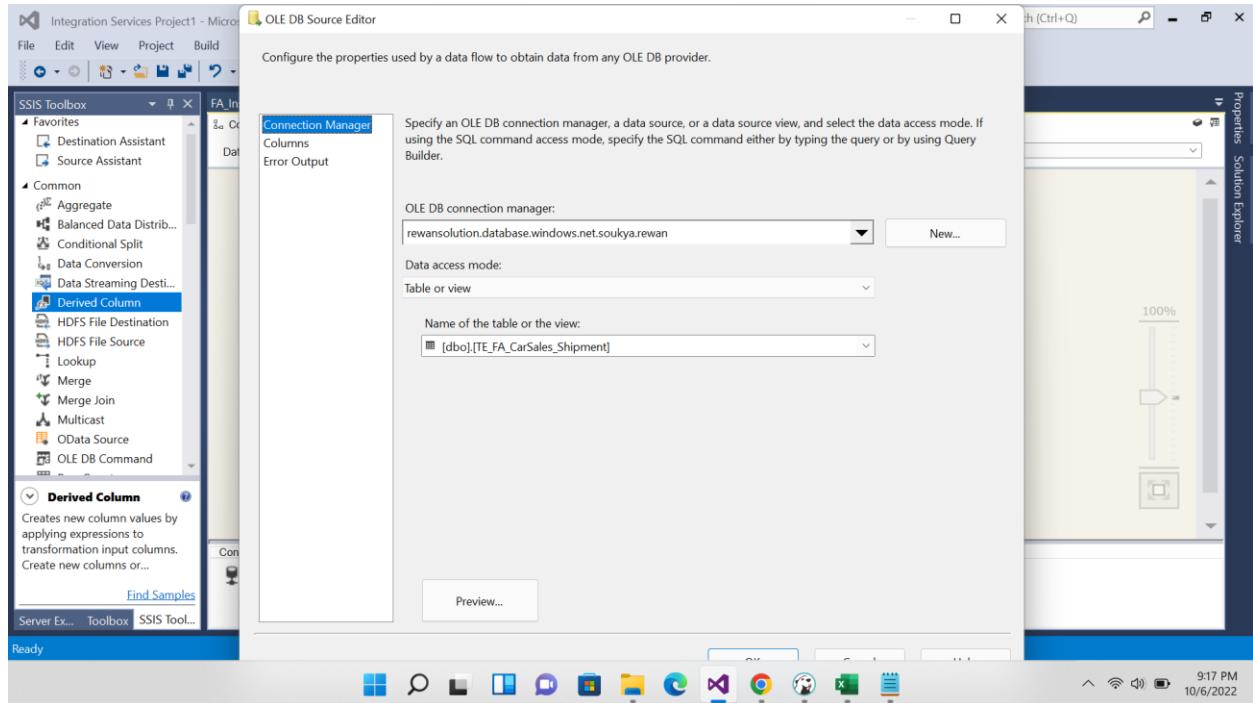
# Module 2

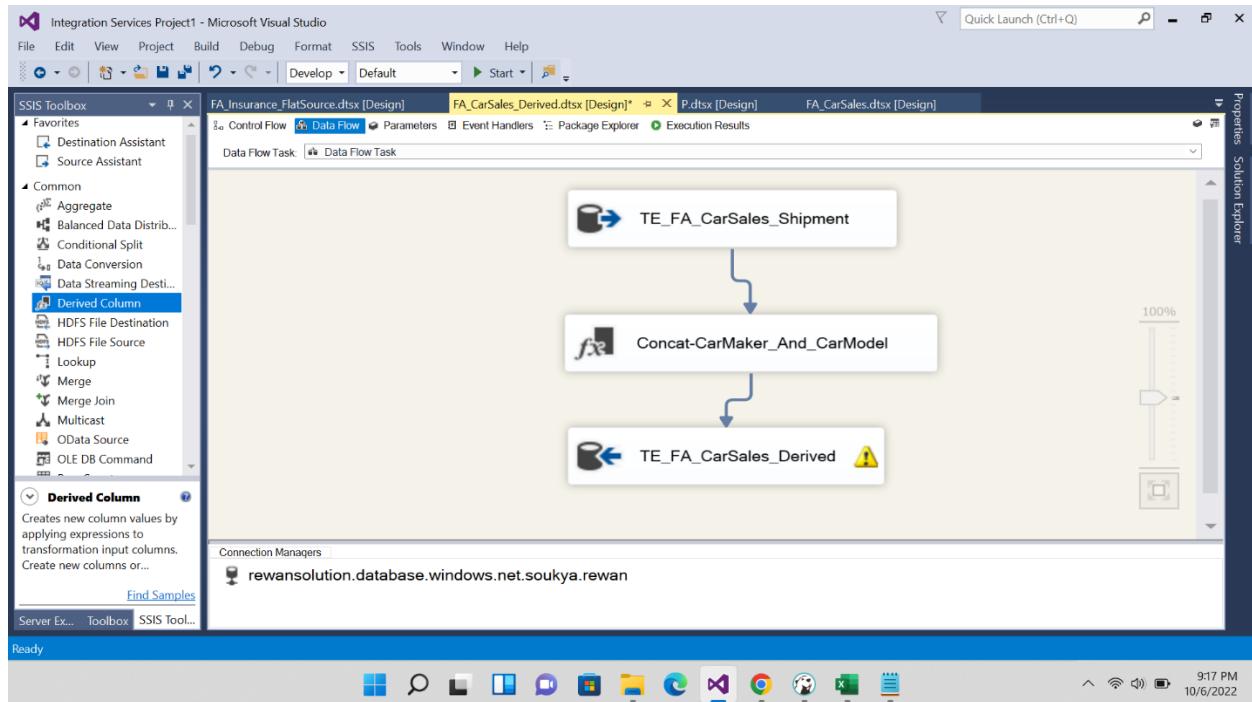
Extract

Transform

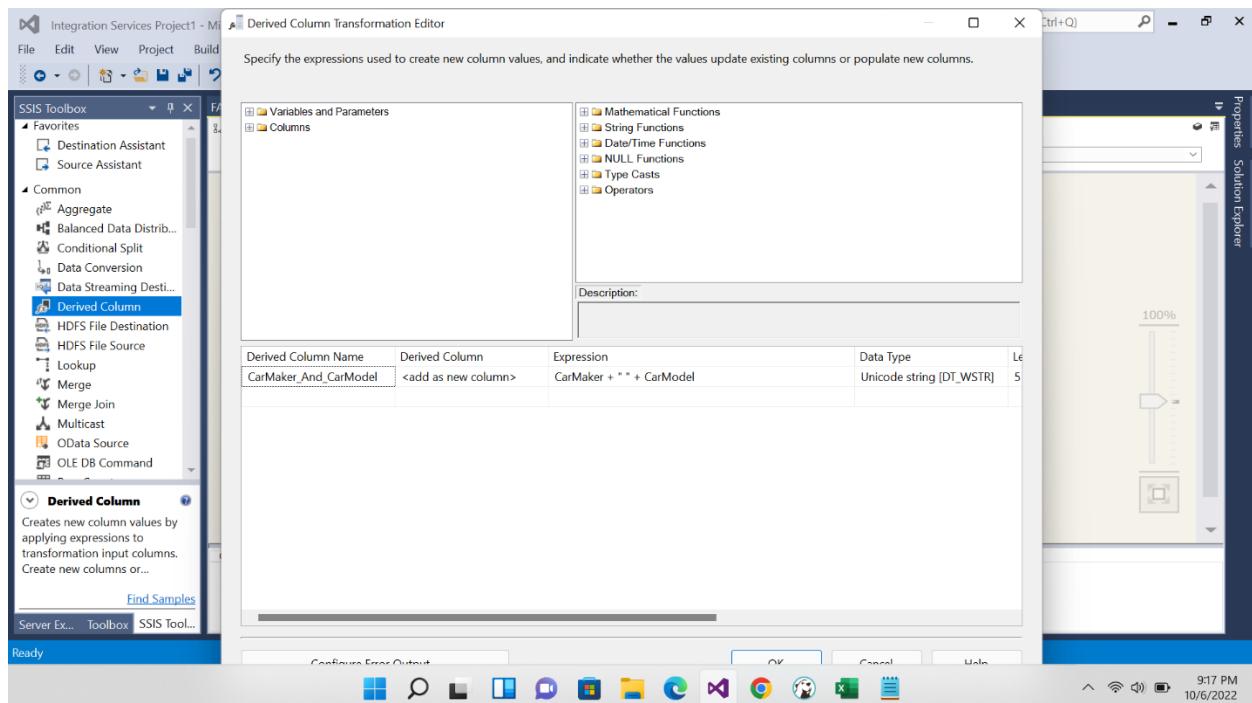
Load to new target system - SQL Server

## 1) OLE DB Data source – Car Sales

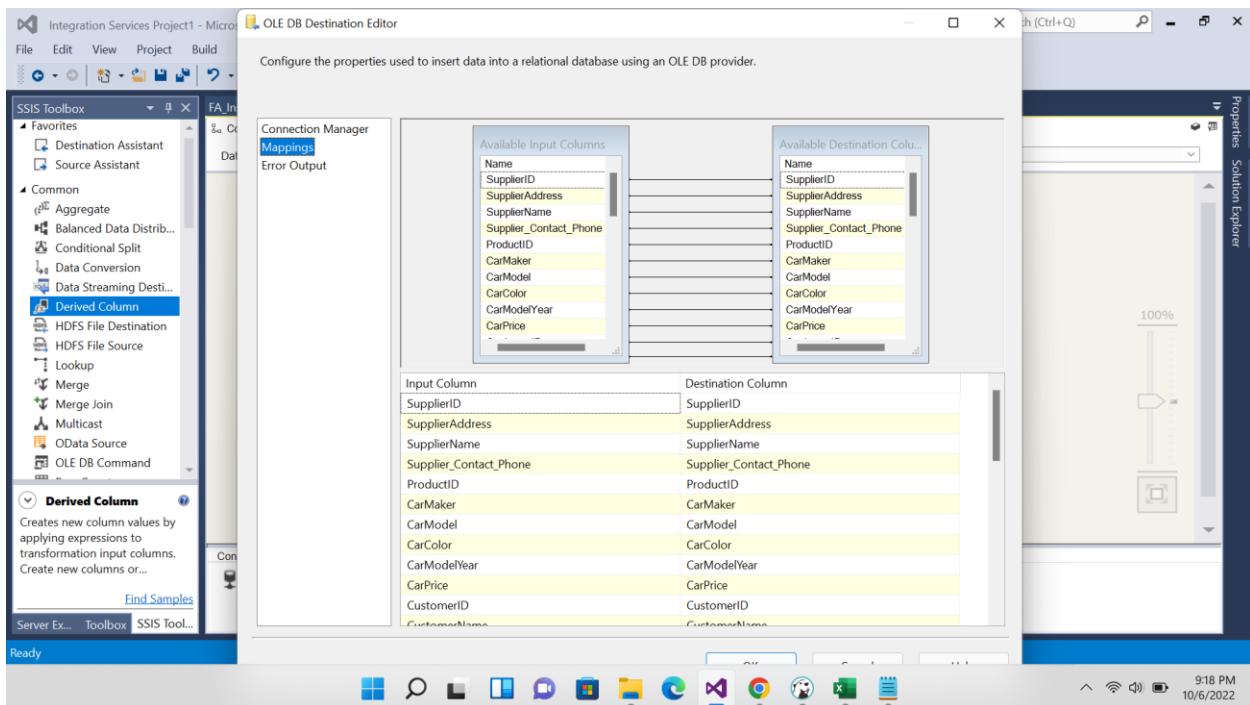
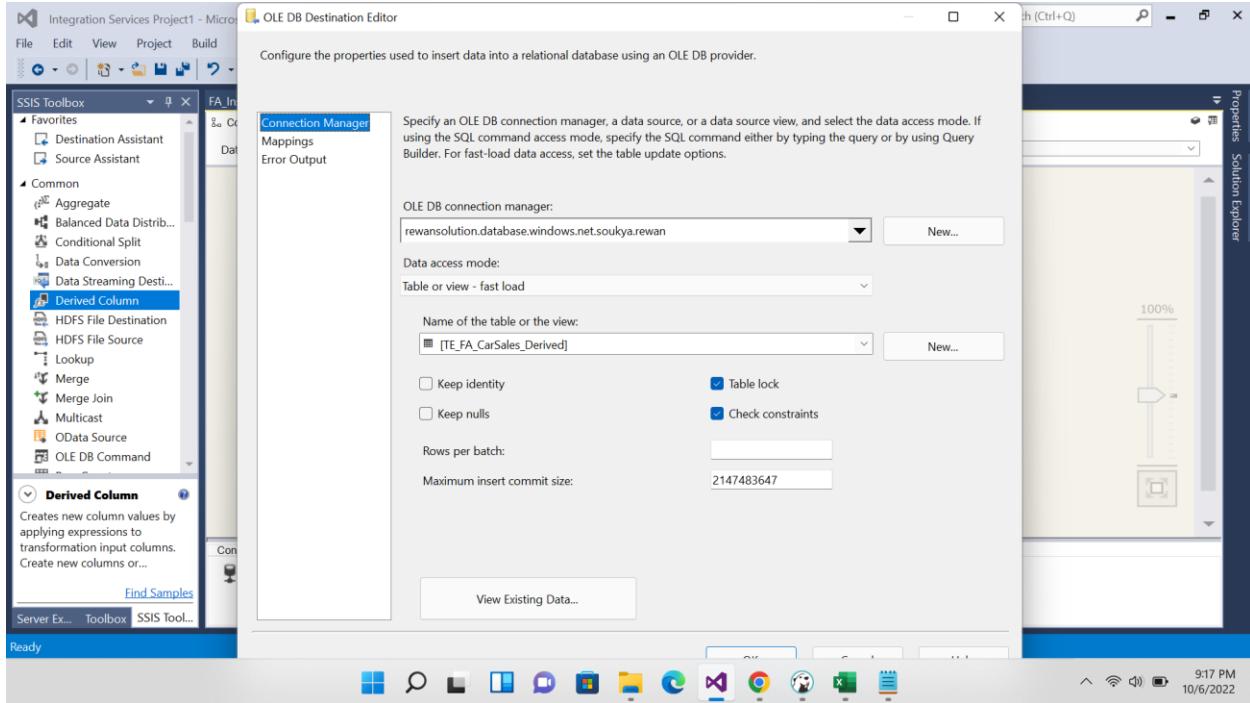




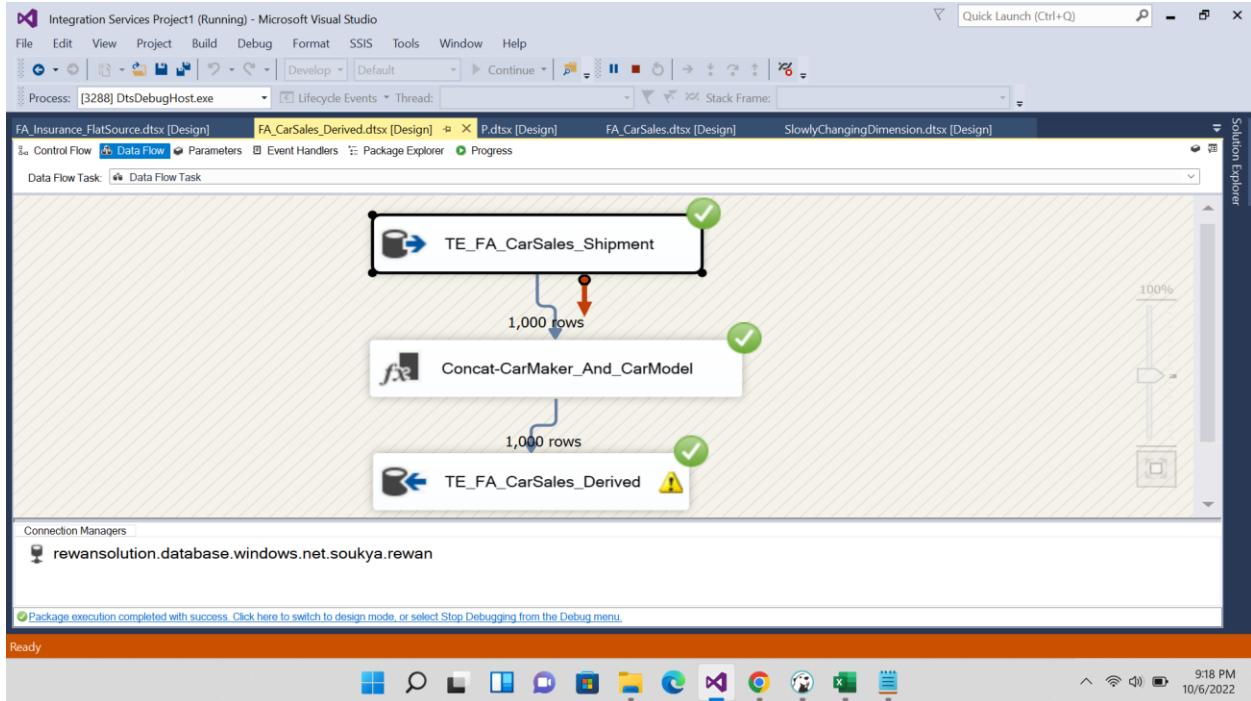
## Configuring Derived Column



## Target – OLE DB



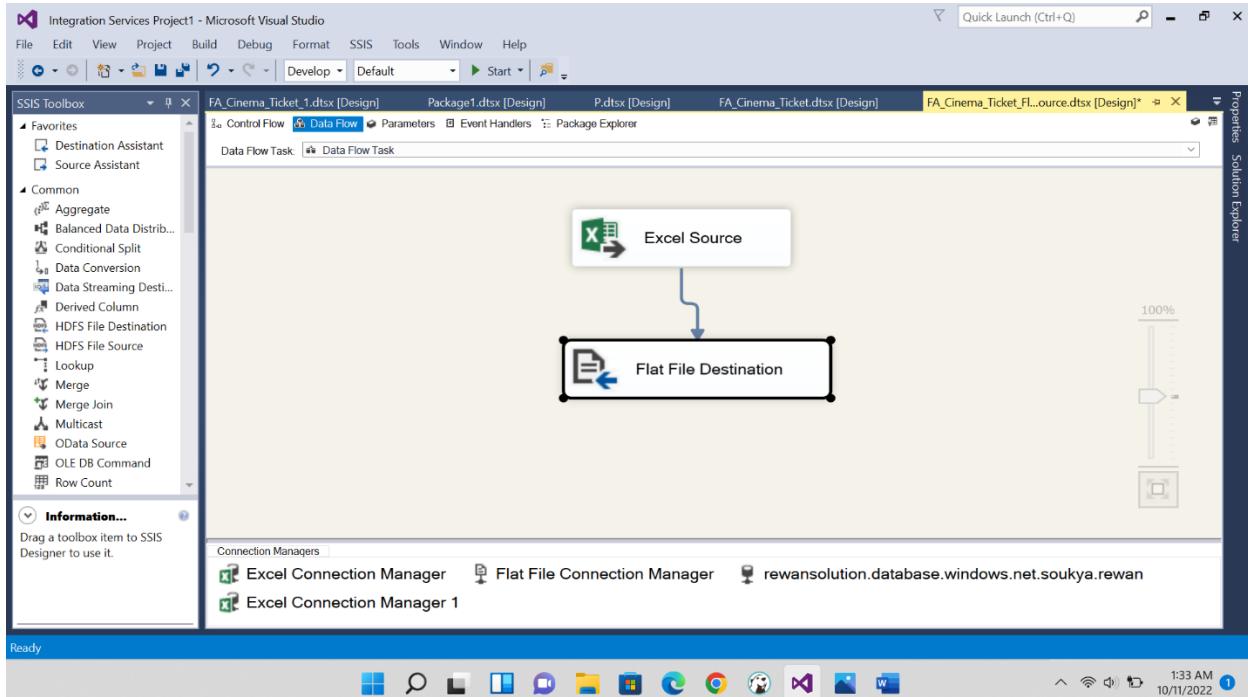
# Execution



# Result

	ShipMode	Shipping	PostalCode	Sales	Quantity	Discount	CreditCardType	CreditCard	CustomerFeedback	CarMaker_And_CarModel
1	0:00:00:00	Standard Class	Truck	99,522,744,796.41	1	0.83	diners-club-carte-blanche	30,408,000,000,000	Bad	Dodge Ram 2500
2	0:00:00:00	Standard Class	Truck	56,398,794,773.17	1	0.79	jcb	3,549,220,000,000,000	Good	Toyota Tundra
3	0:00:00:00	Second Class	Air	60,674,968,244.9	1	0.28	jcb	3,557,160,000,000,000	Okay	GMC Savana 1500
4	0:00:00:00	First Class	Truck	32,885,942,213.82	2	0.76	jcb	3,529,910,000,000,000	Very Bad	Volkswagen Cabriolet
5	0:00:00:00	Second Class	Air	48,232,879,519.57	1	0.5	china-unionpay	5,602,240,000,000,000	Bad	Mercury Mariner
6	0:00:00:00	Standard Class	Air	31,136,947,785.4	2	0.39	laser	6,706,250,000,000,000	Good	Toyota Land Cruiser
7	0:00:00:00	Same Day	Truck	2,208,883,836.81	2	0.79	diners-club-carte-blanche	30,528,100,000,000,000	Very Bad	Subaru Impreza
8	0:00:00:00	Second Class	Truck	25,336,779,626.29	1	0.9	jcb	3,589,140,000,000,000	Bad	BMW X6
9	0:00:00:00	First Class	Air	85,035,818,364.32	2	0.5	jcb	3,557,050,000,000,000	Okay	Mitsubishi Galant
10	0:00:00:00	Standard Class	Truck	95,113,902,866.47	1	0.61	jcb	3,534,730,000,000,000	Very Bad	Subaru Justy
11	0:00:00:00	Same Day	Air	7,112,932,957.69	1	0.62	diners-club-enroute	201,441,000,000,000	Very Bad	Mercedes-Benz M-Class
12	0:00:00:00	Same Day	Truck	13,217,743,643.26	2	0.61	jcb	3,558,310,000,000,000	Okay	Ford Taurus X
13	0:00:00:00	Second Class	Truck	25,331,856,186.55	2	0.81	diners-club-enroute	201,524,000,000,000	Good	Mercedes-Benz CL-Class
14	0:00:00:00	First Class	Air	66,642,703,359.96	1	0.88	jcb	3,542,460,000,000,000	Good	Dodge Avenger
15	0:00:00:00	Same Day	Air	20,005,832,581.18	2	0.44	jcb	3,547,070,000,000,000	Good	Nissan Pathfinder
16	0:00:00:00	Same Day	Air	37,416,948,098.46	2	0.84	visa	4,041,370,000,000	Good	BMW M3
17	0:00:00:00	Same Day	Air	45,470,856,069.09	2	0.63	china-unionpay	5,602,210,000,000,000	Very Good	Mercedes-Benz R-Class
18	0:00:00:00	Same Day	Air	54,915,749,727.44	1	0.64	mastercard	5,002,350,000,000,000	Very Good	Honda FCX Clarity
19	0:00:00:00	First Class	Air	37,131,758,563.82	2	0.56	jcb	3,548,070,000,000,000	Very Good	Toyota Corolla
20	0:00:00:00	Standard Class	Truck	21,405,927,054.81	2	0.83	jcb	3,585,380,000,000,000	Bad	Ford Tempo

## 2)Excel Data Source – Cinema Ticket



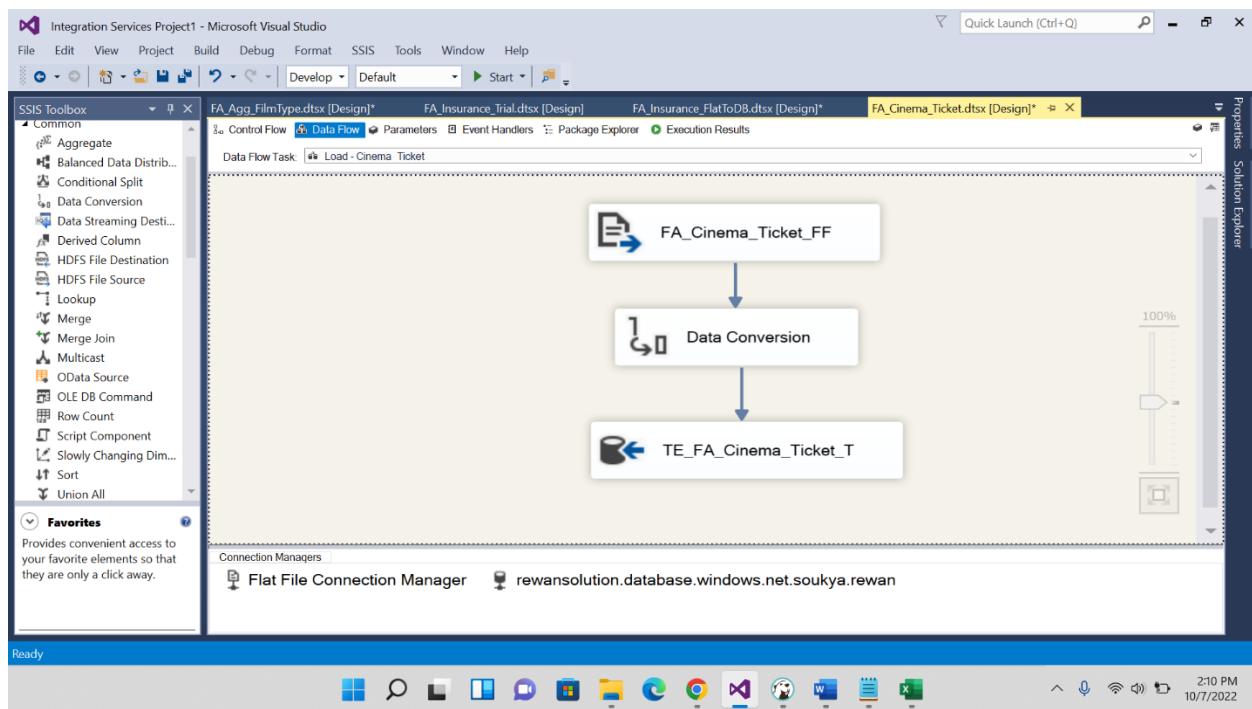
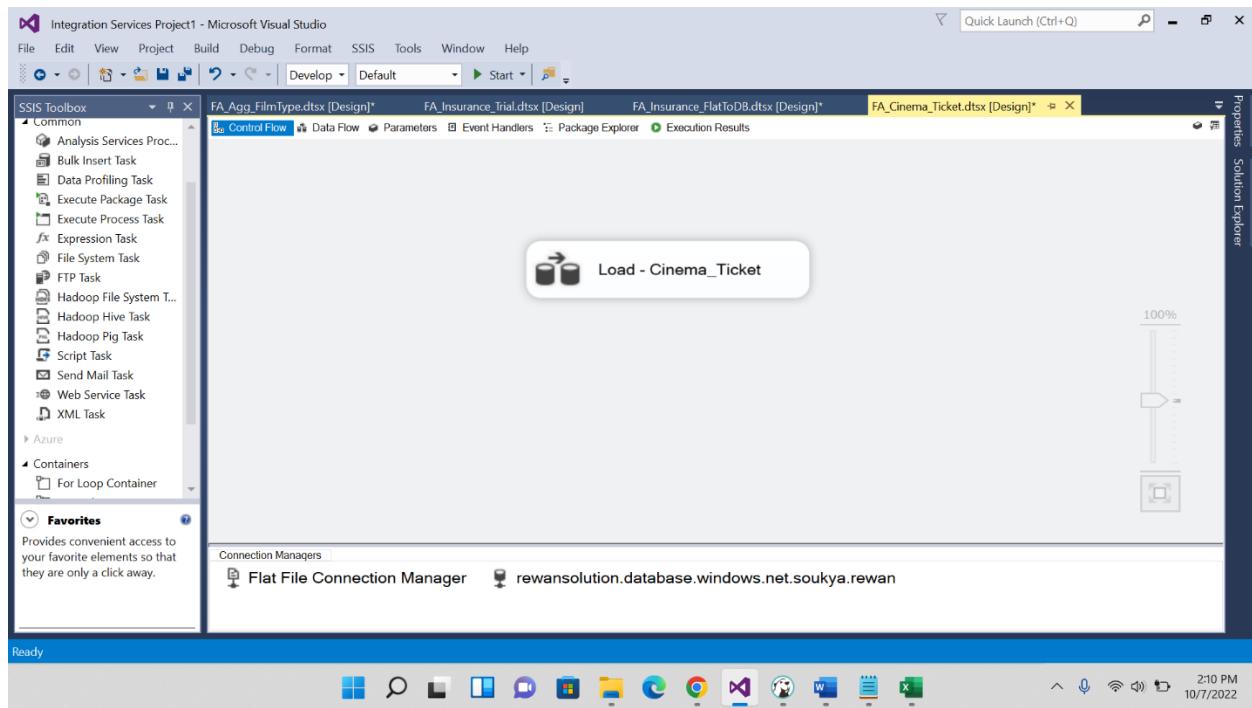
The screenshot shows the Microsoft Visual Studio interface for an SSIS project named 'Integration Services Project1'. The 'Data Flow' tab is selected in the ribbon. The Data Flow Task is displayed, featuring an 'Excel Source' connected to a 'Flat File Destination'. The 'Flat File Destination' is currently set to 100% of its capacity. The SSIS Toolbox is open on the left, showing various data flow components like Destination, Aggregate, and Data Conversion. The 'Information...' section of the toolbox is expanded, showing a note to drag a toolbox item to the SSIS Designer. The 'Connection Managers' pane at the bottom lists 'Excel Connection Manager', 'Flat File Connection Manager', and 'rewansolution.database.windows.net.soukya.rewan'. The Windows taskbar at the bottom shows the Notepad application is active, and the system tray indicates the date and time as 10/11/2022, 10:33 AM.

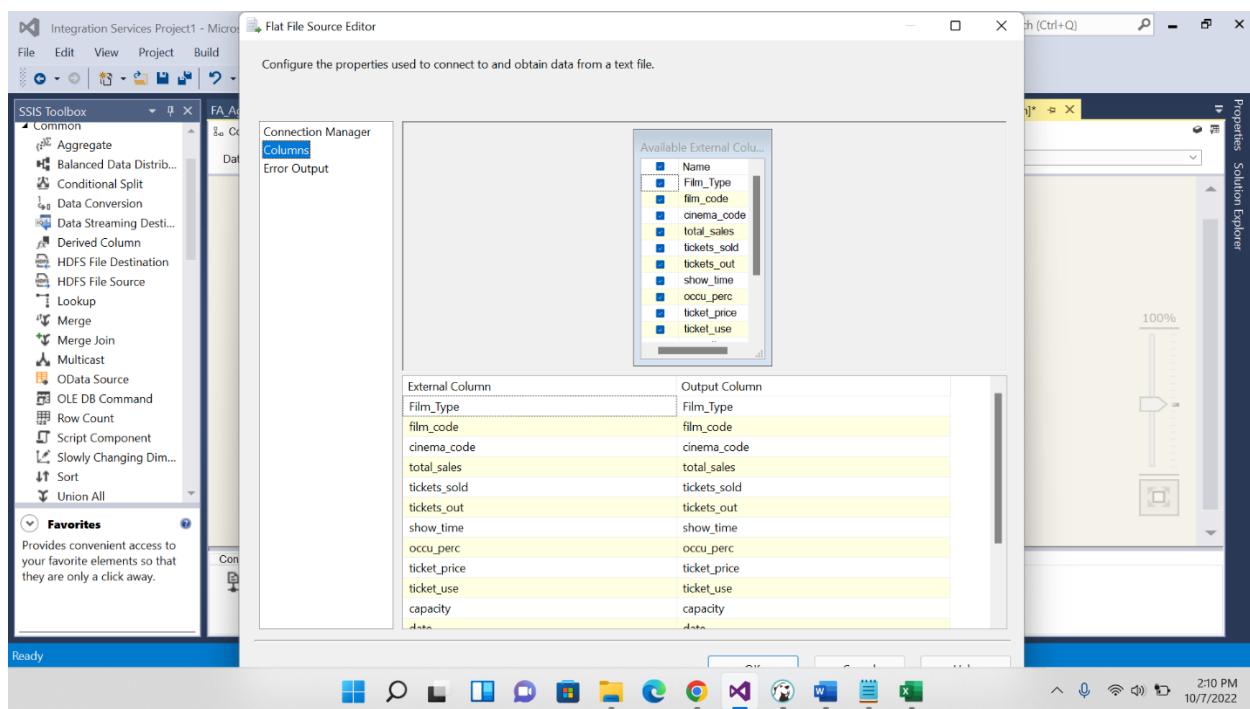
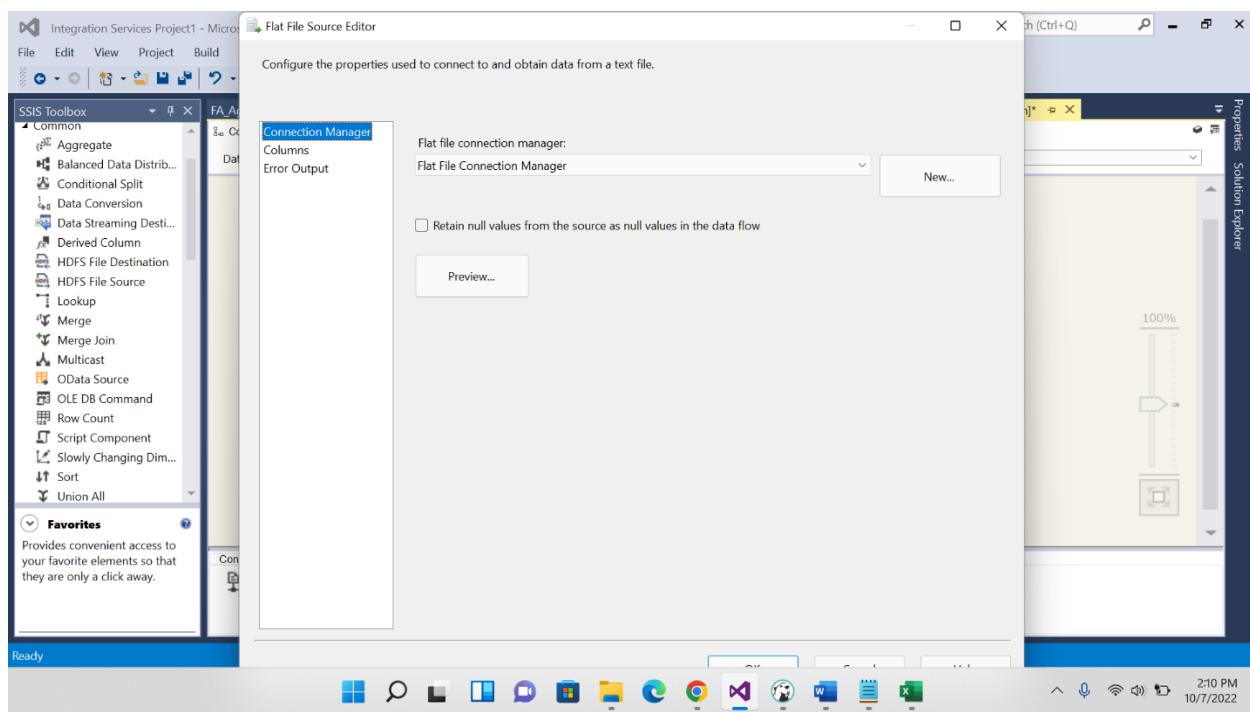
FA\_Cinema\_Ticket\_FF - Notepad

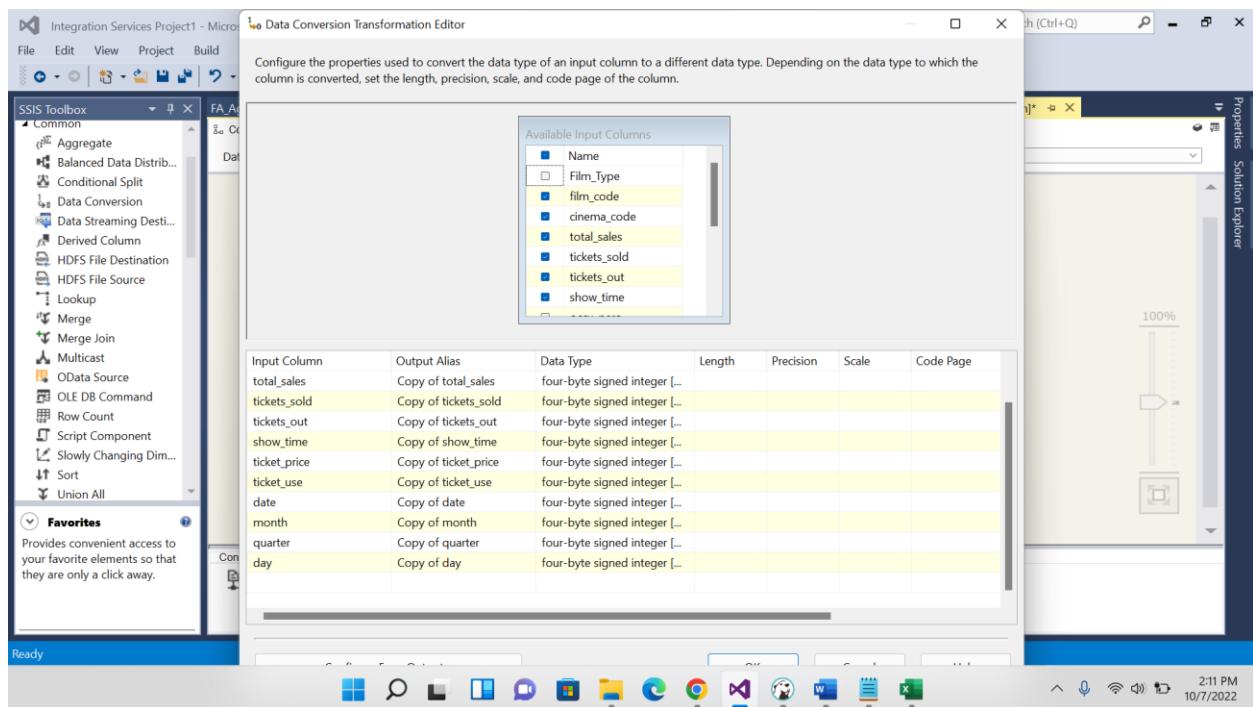
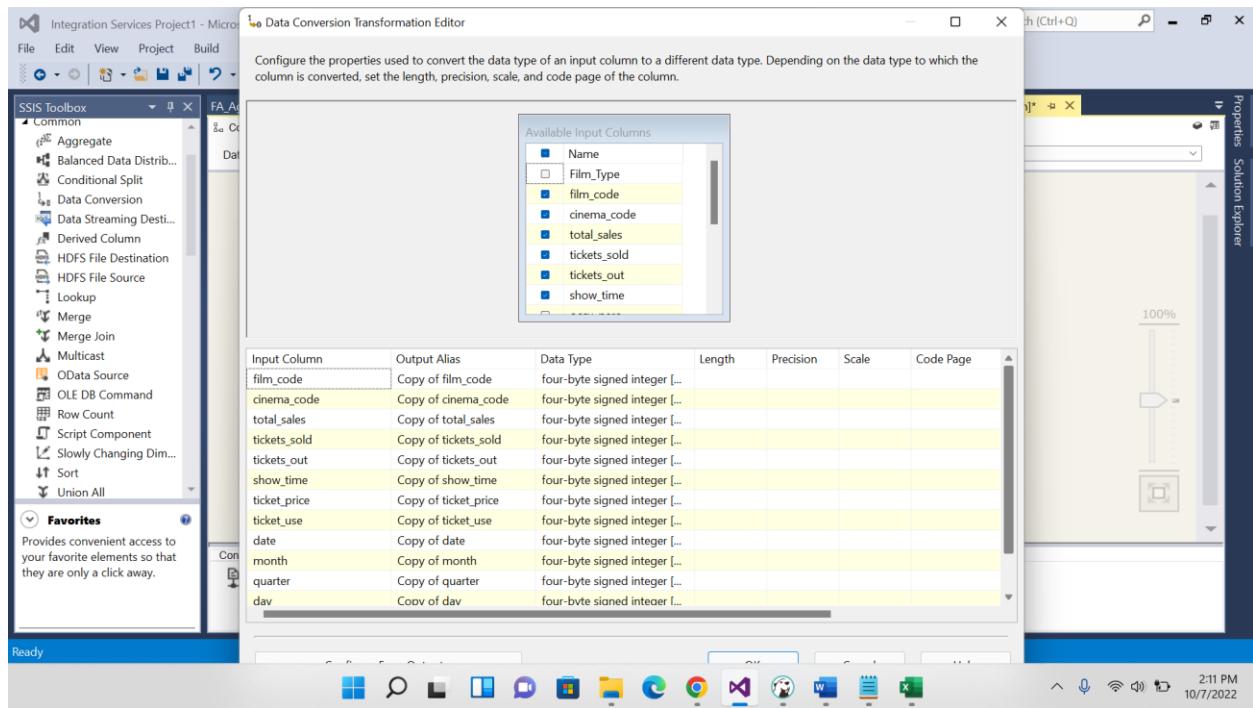
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Fiction,1481,55,640000,8,0,1,2,96,80000,8,270,43357,9,3,14
Fiction,1481,181,420000,5,0,3,0,6800000000000005,84000,5,733,43357,9,3,14
Fiction,1481,489,1490000,16,0,6,5.3300000000000001,93125,16,300,43356,9,3,13
Fiction,1481,181,900000,11,0,3,1,5,81818,181819999998,11,733,43356,9,3,13
Fiction,1481,55,160000,5,0,1,1,8500000000000001,32000,5,270,43356,9,3,13
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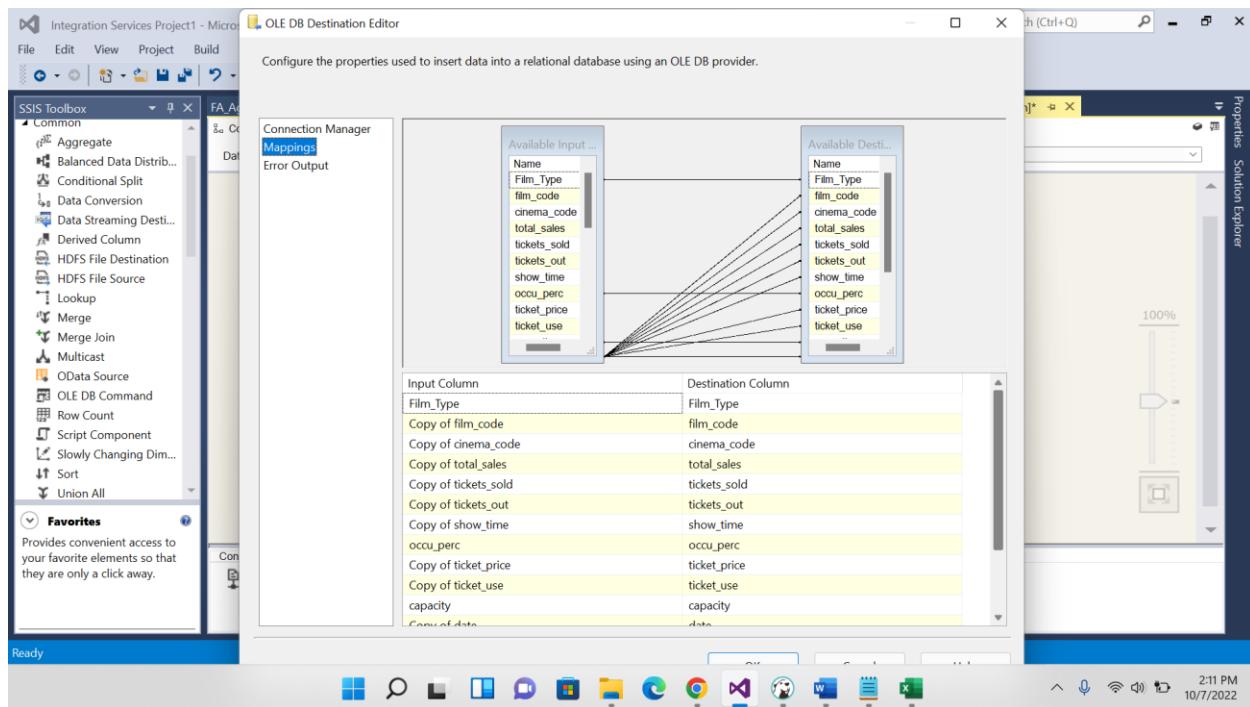
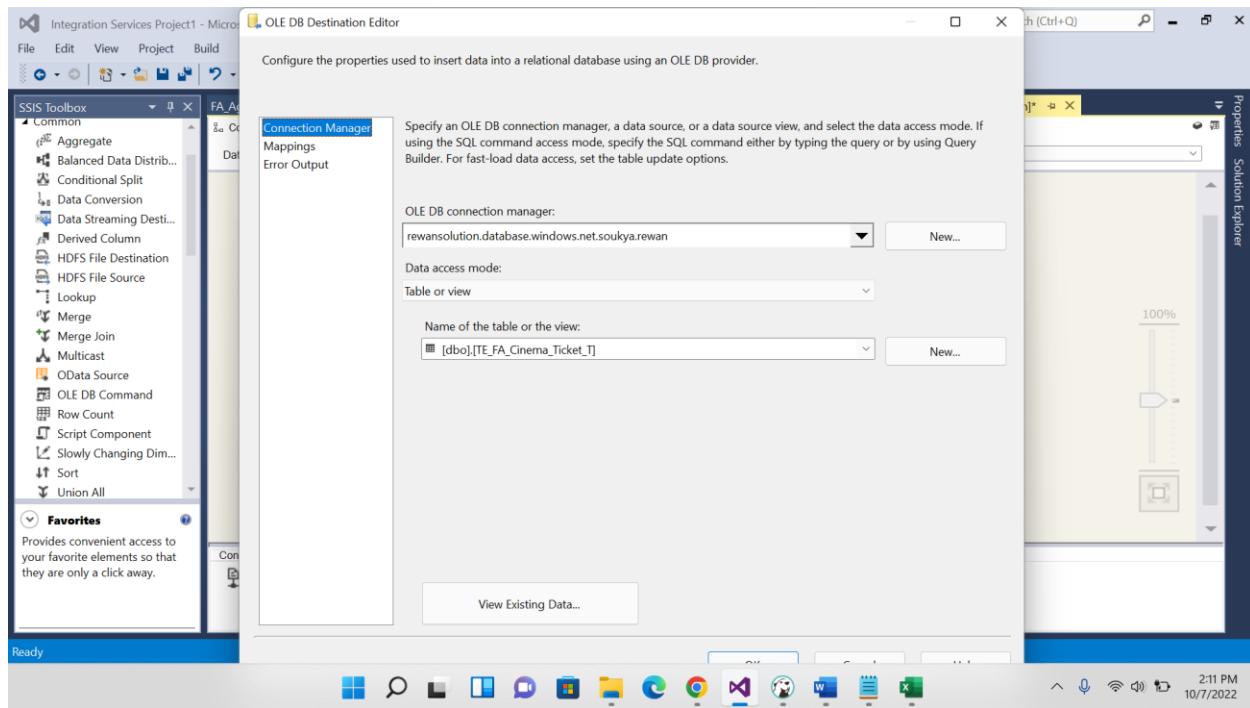
Ln1, Col 1

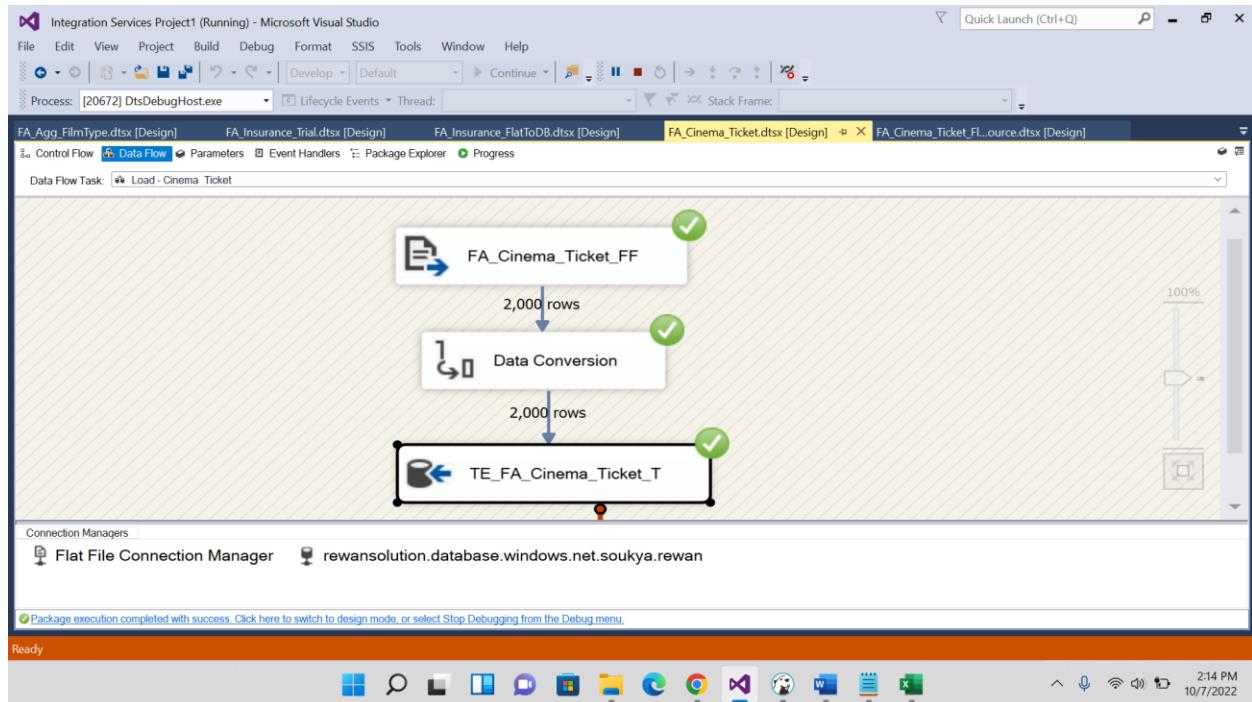
100% Windows (CRLF) UTF-8 2:05 PM 10/7/2022











DBBeaver 22.2.0 - <soukya> FA\_SSIS

File Edit Navigate Search SQL Editor Database Window Help

<soukya> Normalization.Assessment <soukya> FA\_Commands\_CarSales <soukya> FA\_Insurance <soukya> FA\_SSIS

```

State nvarchar(255),
CustomerAddress nvarchar(255),
OrderDate datetime,
OrderID nvarchar(255),
ShipDate datetime,
ShipMode nvarchar(255),
Shipping nvarchar(255),
PostalCode float,
Sales float,
Quantity float,
Discount float,
CreditCardType nvarchar(255),
CreditCard float,
CustomerFeedback nvarchar(255)
)
select * from TE_FA_Car_Sales_SCD
select * from TE_FA_Insurance_CharacterMap
Select * from TE_FA_Cinema_Ticket_T
select * from TE_FA_Cinema_Thriller
select * from TE_FA_Cinema_Family

```

Results 1

Select \* from TE\_FA\_Cinema\_Ticket\_T

Grid	Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc	ticket_price	ticket_use	capacity	date_	month_
1	Romance	1,492	304	3,900,000	26	0	4	4.2599999999999998	150,000	26	610	43,225	
2	Romance	1,492	352	3,360,000	42	0	5	8.0800000000000001	80,000	42	520	43,225	
3	Romance	1,492	489	2,560,000	32	0	4	20	80,000	32	160	43,225	

200+ Rows: 1 200 row(s) fetched - 220ms (1ms fetch), on 2022-10-07 21:54:46 IST en Writable Smart Insert 46 : 1 [35] Set: 35 | 1

2:15 PM 10/7/2022

DBBeaver 22.2.0 - <soukya> FA\_SSIS

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto\_ soukya dbo@soukya

<soukya> Normalization\_Assessment <soukya> FA\_Commands\_CarSales <soukya> FA\_Insurance <soukya> FA\_SSIS

State nvarchar(255),

Results 1 x

Select \* from TE\_FA\_Cinema\_Ticket\_1 Enter a SQL expression to filter results (use Ctrl+Space)

Grid Text Record

187 Romance 1,492 277 240,000 3 0 1 0.8199999999999999 80,000 3 366 43,278

188 Romance 1,492 304 8,560,000 107 0 1 72.79000000000006 80,000 107 147 43,277

189 Romance 1,492 344 4,320,000 54 0 3 60 80,000 54 90 43,277

190 Romance 1,492 489 2,400,000 30 0 4 30 80,000 30 100 43,277

191 Romance 1,492 291 2,130,000 71 0 7 5.969999999999998 30,000 71 1189 43,277

192 Romance 1,492 352 2,000,000 25 0 1 24.03999999999999 80,000 25 104 43,277

193 Romance 1,492 56 1,280,000 32 0 4 10.26 40,000 32 312 43,277

194 Romance 1,492 210 1,200,000 30 0 2 62.5 40,000 30 48 43,277

195 Romance 1,492 452 720,000 9 0 1 12.85999999999999 80,000 9 70 43,277

196 Romance 1,492 428 640,000 16 0 2 5.330000000000001 40,000 16 300 43,277

197 Romance 1,492 479 560,000 14 0 2 4.139999999999997 40,000 14 338 43,277

198 Romance 1,492 253 560,000 16 0 3 5.610000000000003 35,000 16 285 43,277

199 Romance 1,492 362 455,000 13 0 2 4.080000000000001 35,000 13 319 43,277

200 Romance 1,492 431 420,000 7 0 2 13.460000000000001 60,000 7 52 43,277

201 Thriller 1,486 163 21,980,000 191 0 7 32.36999999999997 115,079 191 590 43,175

202 Thriller 1,486 513 21,700,000 251 0 2 51.96999999999999 86,454 251 483 43,175

203 Thriller 1,486 344 21,360,000 182 0 5 21.28999999999999 117,363 182 855 43,175

204 Thriller 1,486 450 19,800,000 167 0 4 30.69999999999999 118,563 167 544 43,175

205 Thriller 1,486 489 19,080,000 165 2 16 15.42000000000002 115,636 163 850 43,175

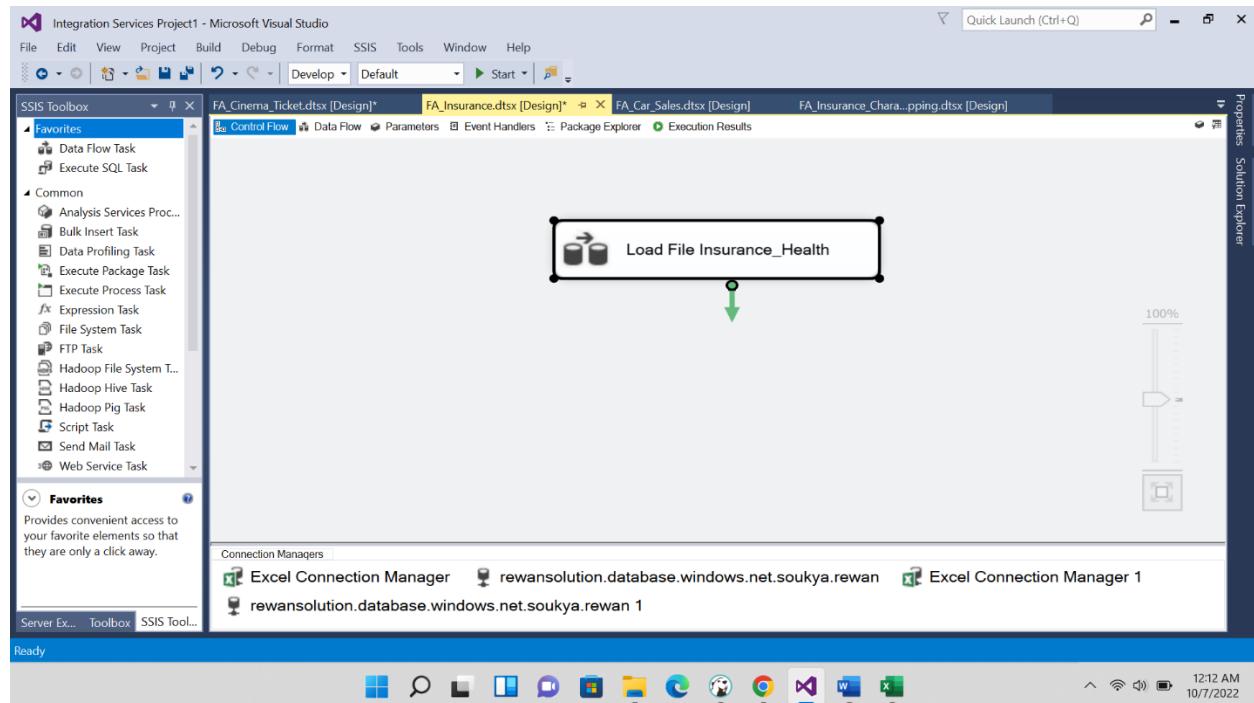
206 Thriller 1,486 529 15,360,000 131 0 15 19.01000000000002 117,252 131 689 43,175

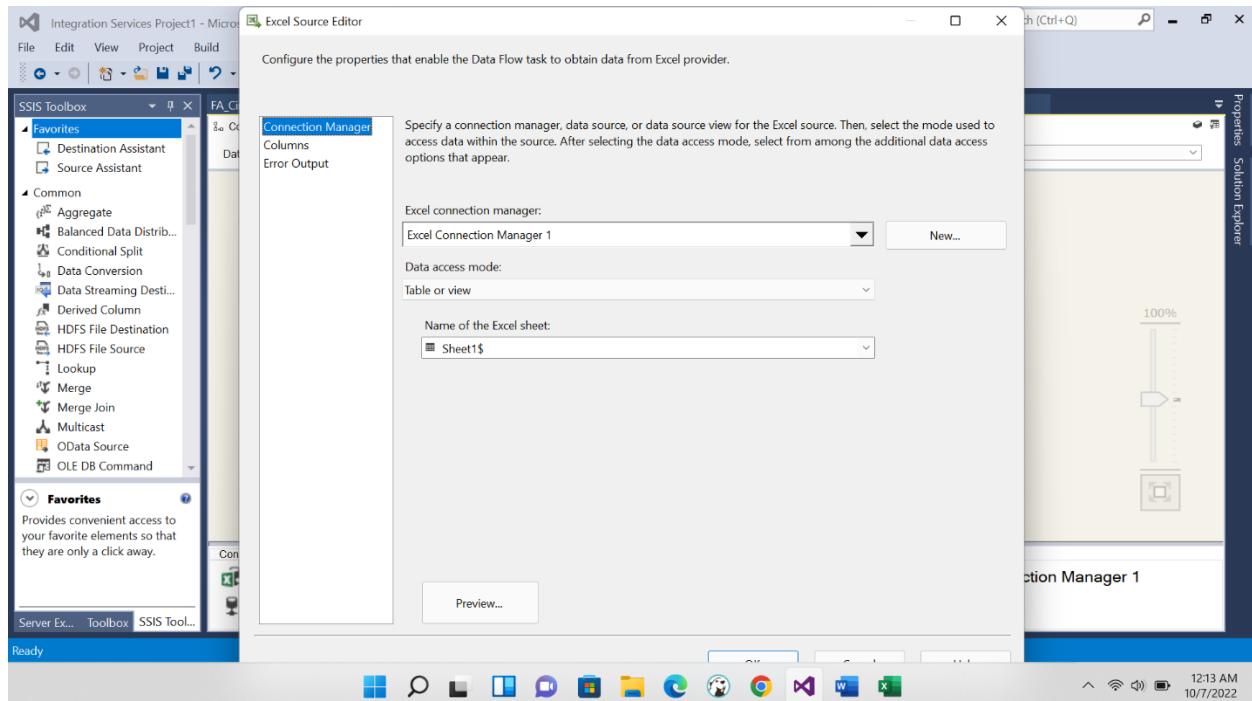
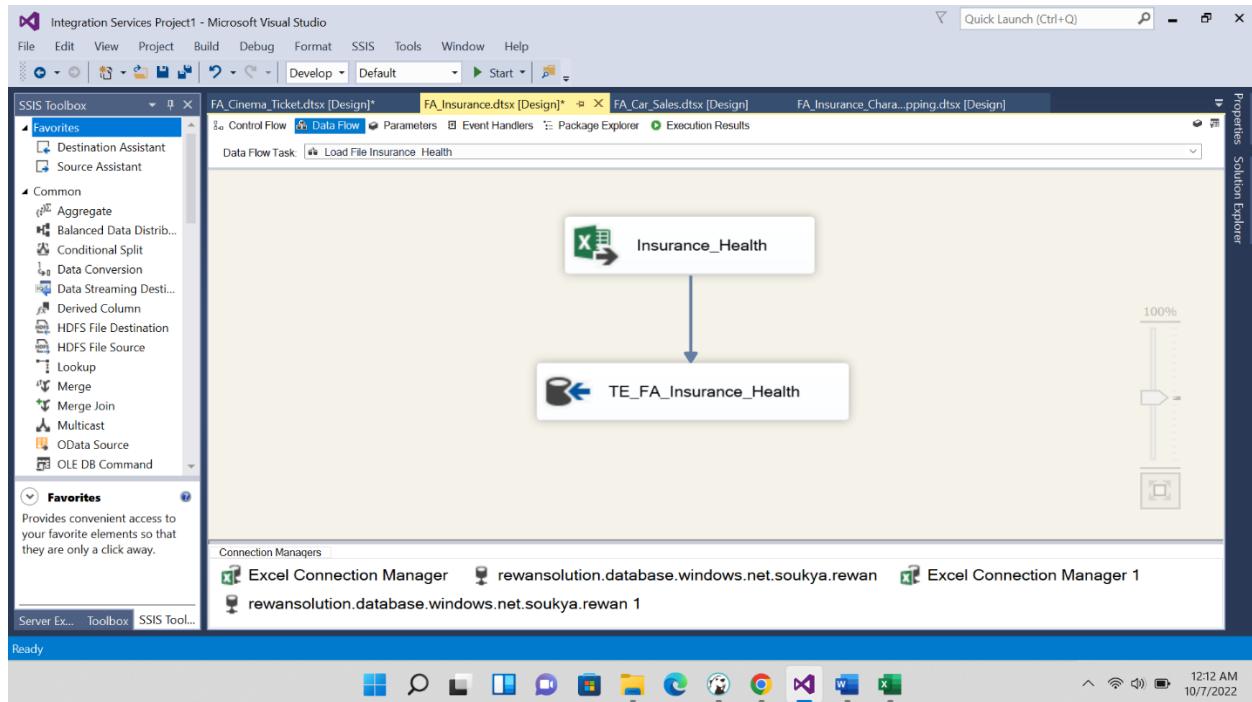
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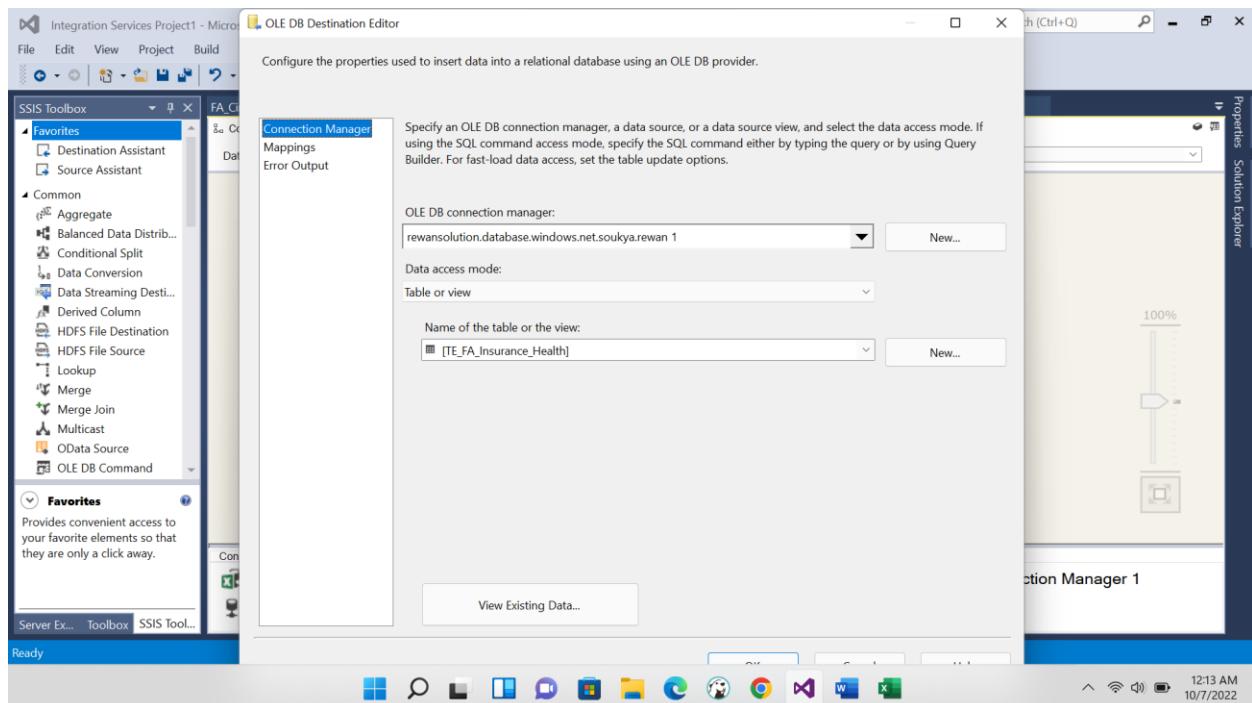
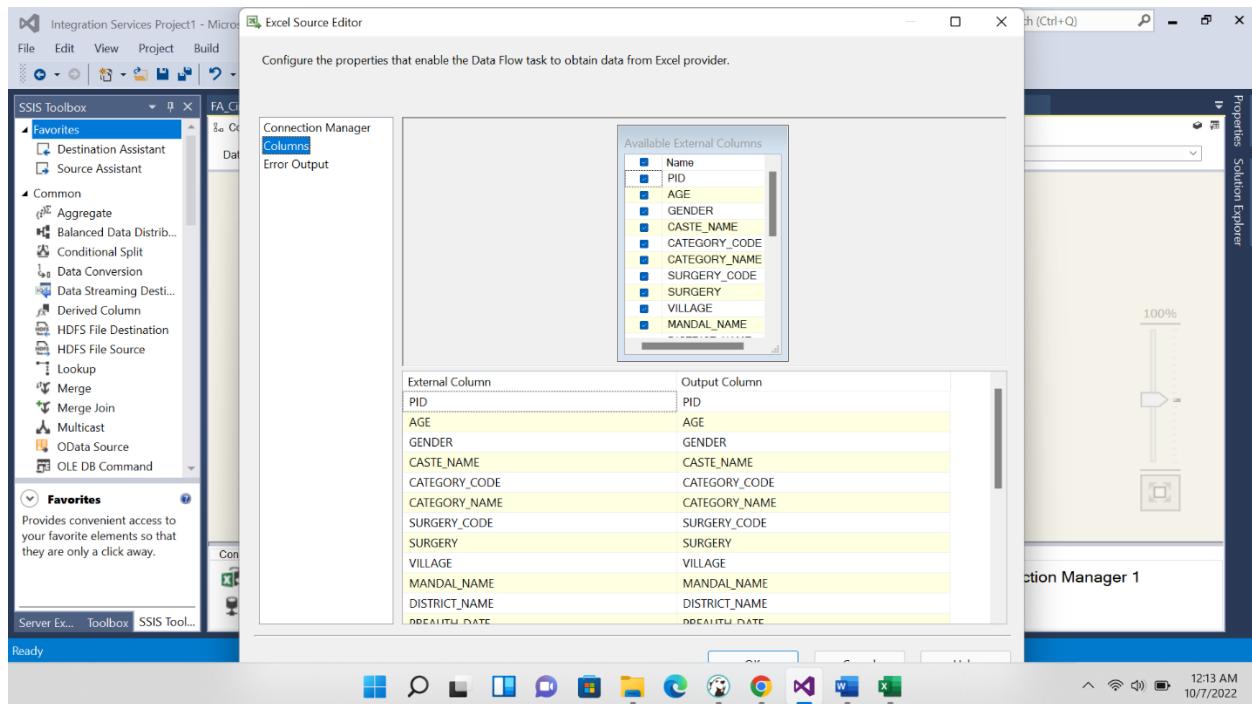
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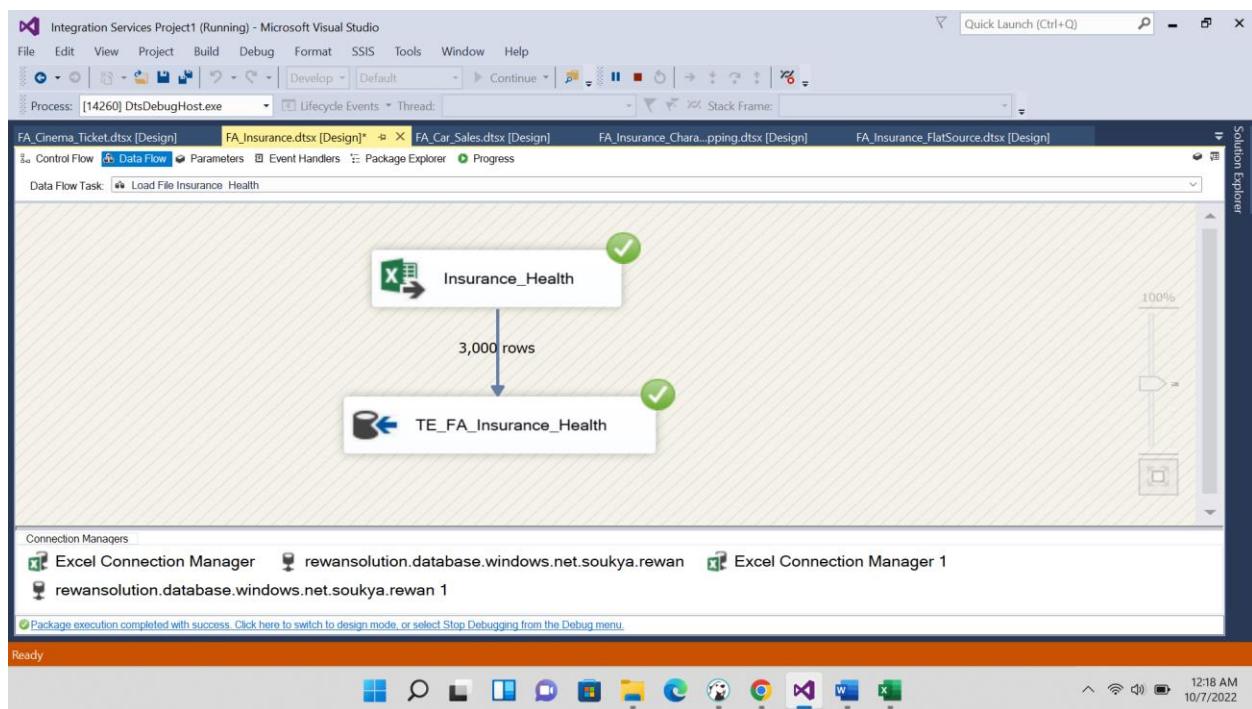
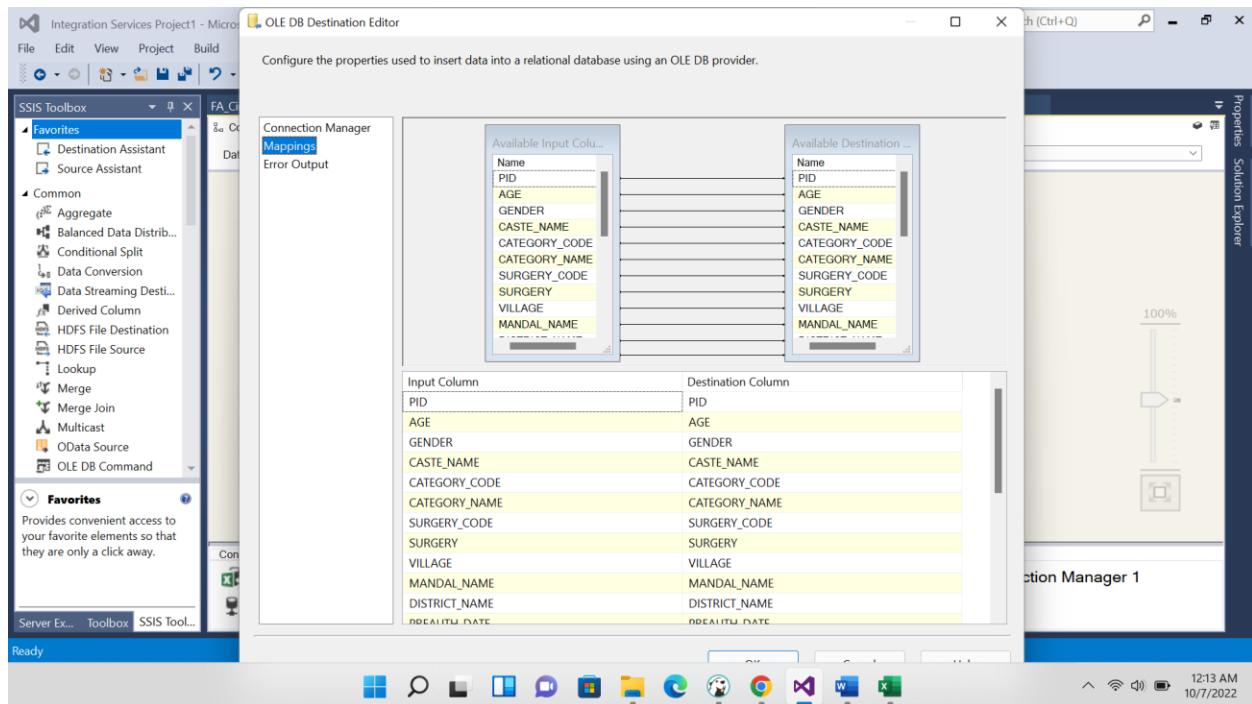
Save Cancel Script 200 1,000+ Rows: 1 1000 row(s) fetched - 389ms (39ms fetch), on 2022-10-07 IST en Writable Smart Insert 46 : 1 [35] Sel: 35 | 1 2:15 PM 10/7/2022

## Source – Insurance\_Health









DBBeaver 22.2.0 - <soukya> FA\_SSIS

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto soukya dbo@soukya soukya Normalizatio... soukya Normalizatio... soukya FA\_Comma... soukya FA\_Insurance soukya FA\_SSIS

```
select * from TE_FA_Car_Sales
select * from TE_FA_Insurance_Health
delete from TE_FA_Insurance_Health Where GENDER= 'NULL'
```

Results 1 ×

Enter a SQL expression to filter results (use Ctrl+Space)

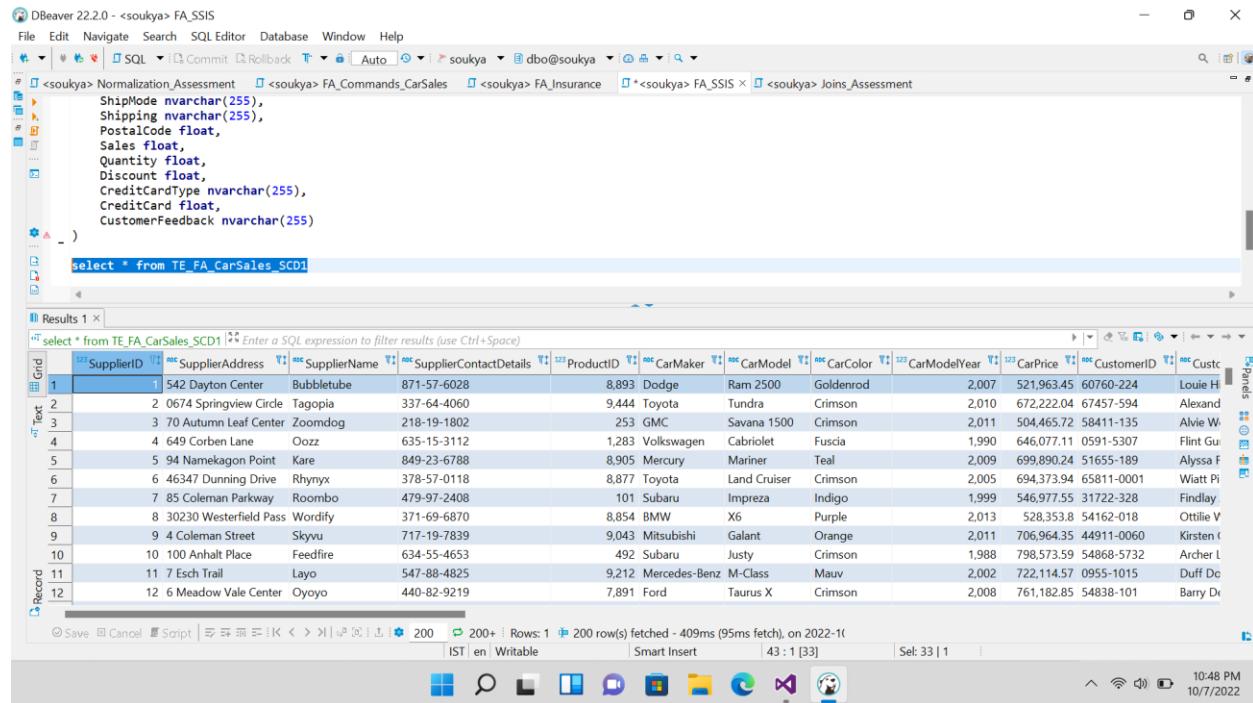
Grid	PID	AGE	GENDER	CASTE_NAME	CATEGORY_CODE	CATEGORY_NAME	SURGERY_CODE	SURGERY	VILLAGE
Text	1	56	Female	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Lolugu
Text	2	37	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Borivanka
Text	3	50	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Kapasakuddi
Text	4	45	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Telikipenta
Text	5	54	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Thandemvalasa
Text	6	35	Male	OC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Phasigangupeta
Text	7	52	Male	OC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Kranti Nagar
Text	8	73	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Bhoguparam
Text	9	56	Male	OC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.1.1	Coronary Balloon Angioplasty with stent(0.45)	Vallur
Text	10	49	Male	OC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1	Coronary Bypass Surgery	Ward-15
Text	11	52	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Rajam
Text	12	56	Male	SC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	Thurlapadu
Text	13	65	Female	SC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure	Pulipadu
Text	14	75	Male	OC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure	Karlapalem
Text	15	52	Male	OC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure	Ward-19
Text	16	56	Male	Minorities	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	Tullur
Text	17	1	Male(Child)	OC	S16	COCHLEAR IMPLANT SURGERY	S16.1.1	Cochlear Implant Surgery	Phirangipuram

Rows: 1 200 row(s) fetched - 346ms (1ms fetch), on 2022-10-07 12:18 AM 10/7/2022

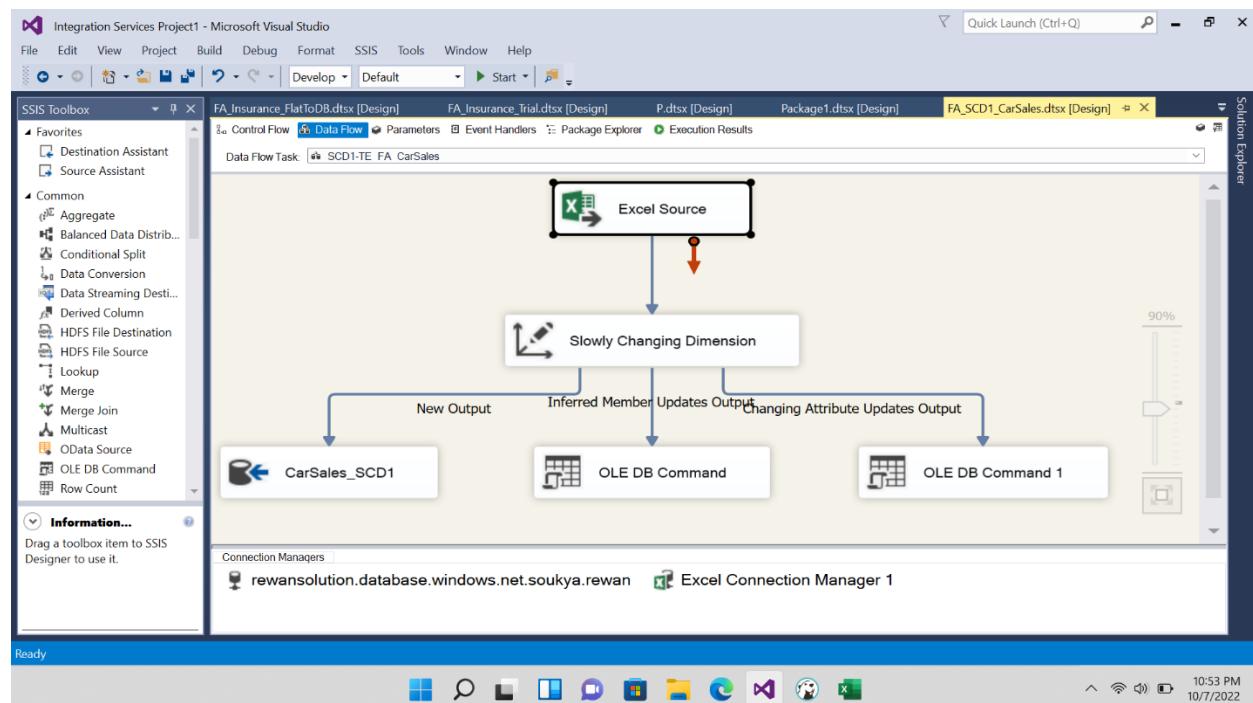
# SCD1 And SCD2 Dimension Table Modelling

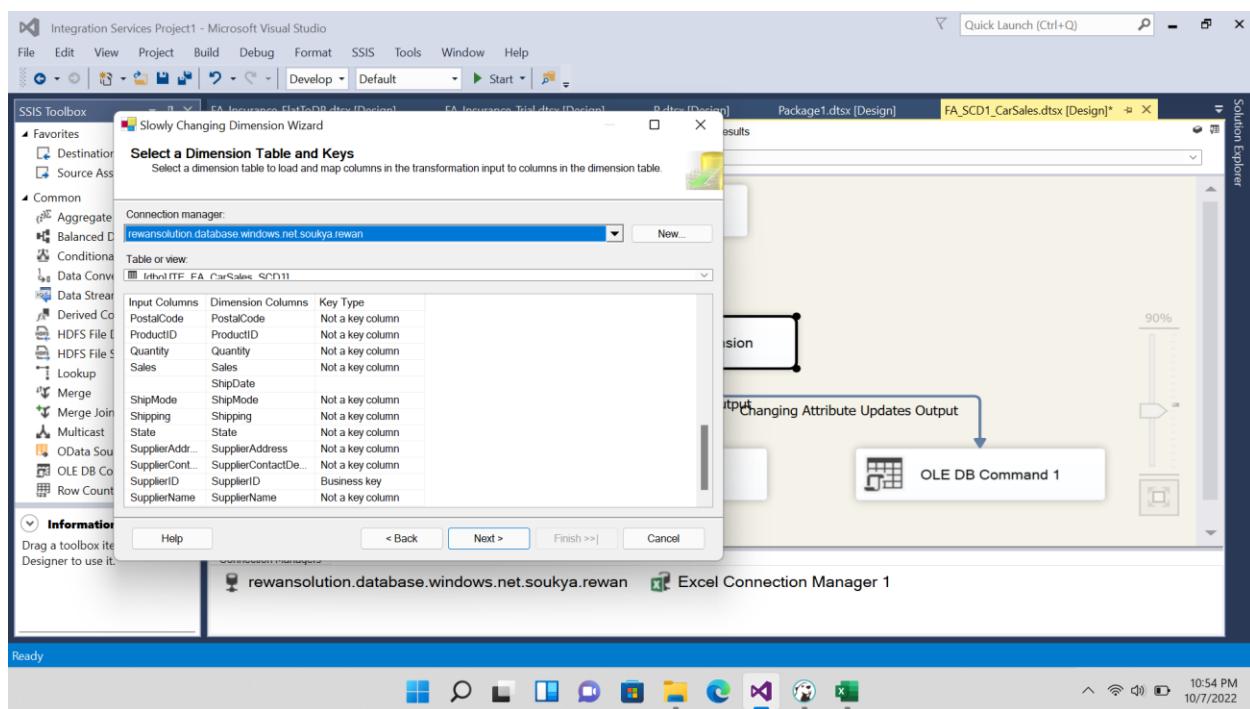
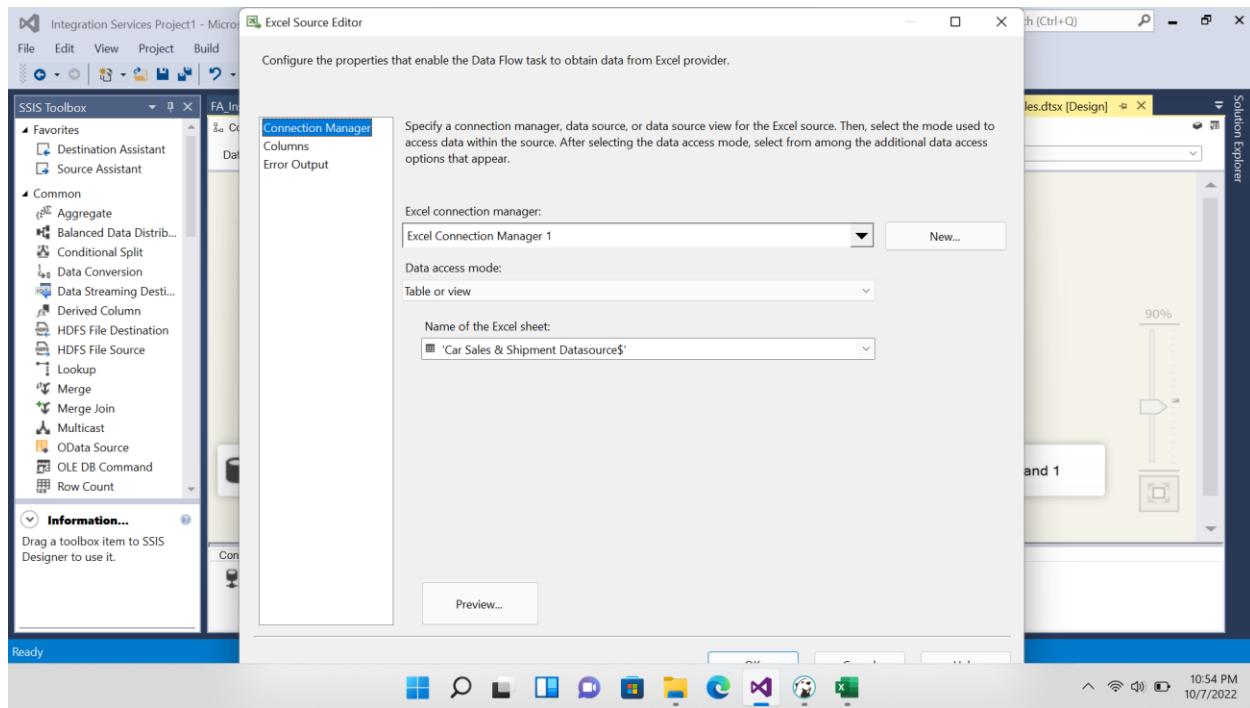
## SCD1

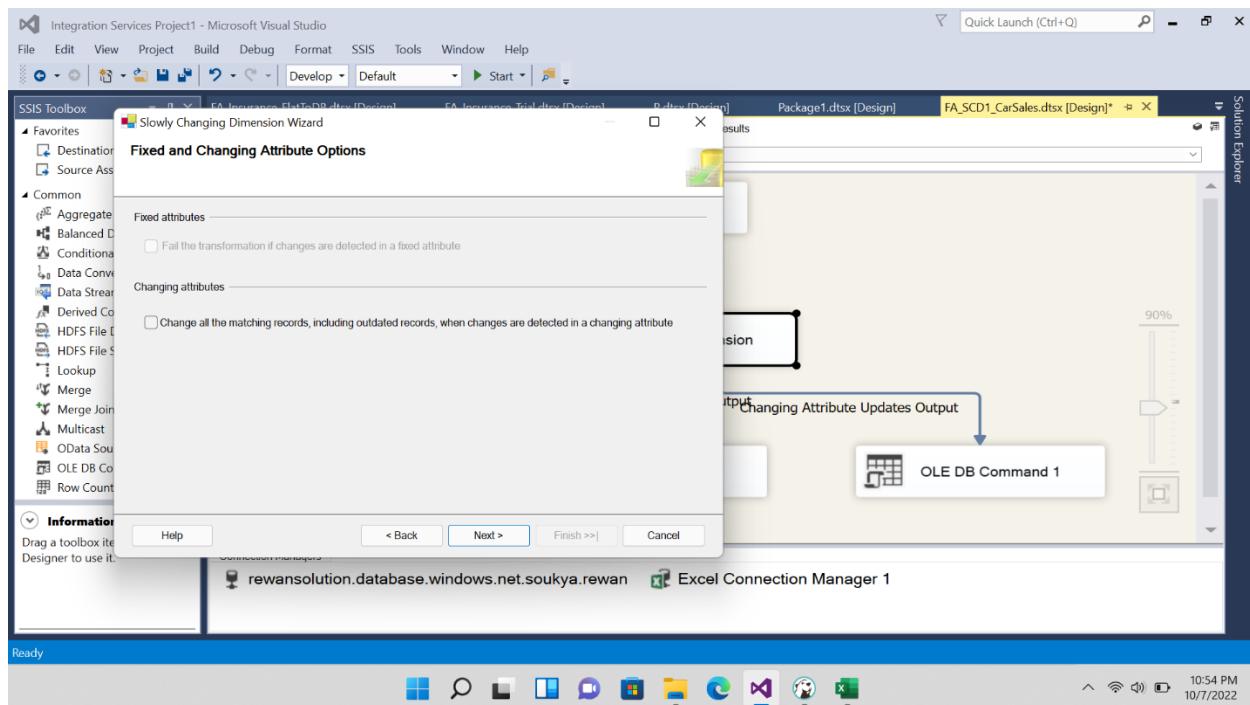
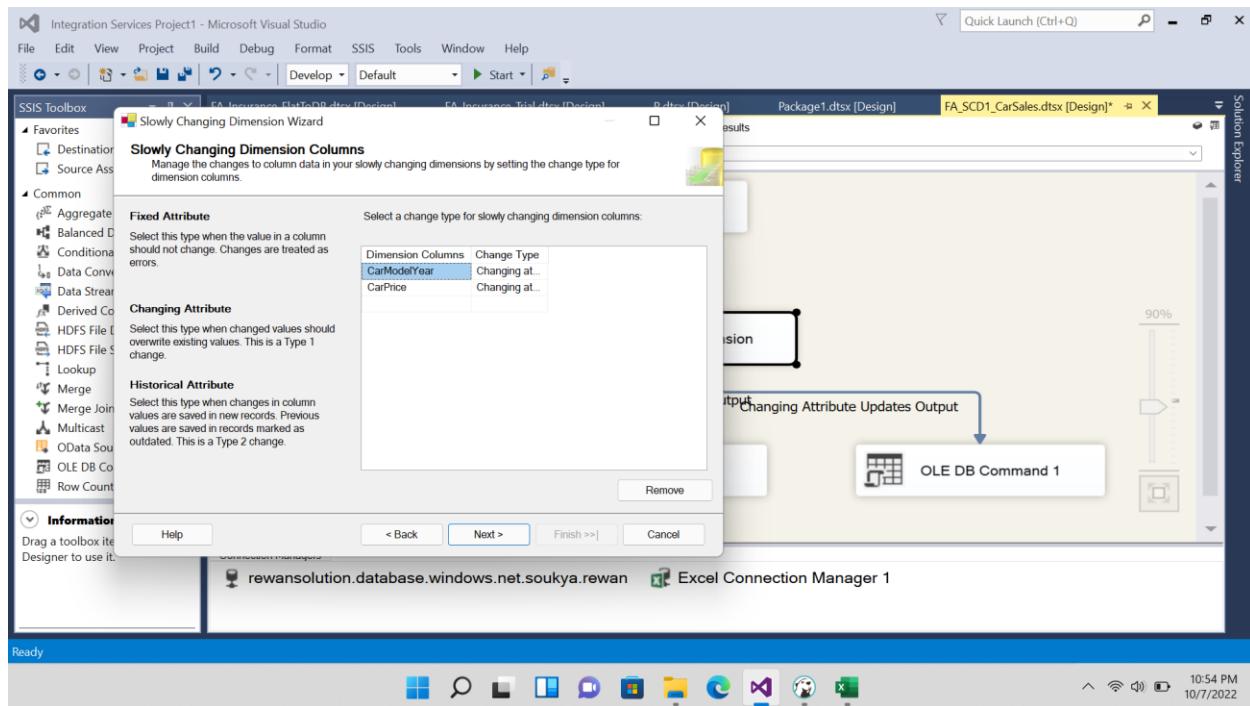
### Original Data

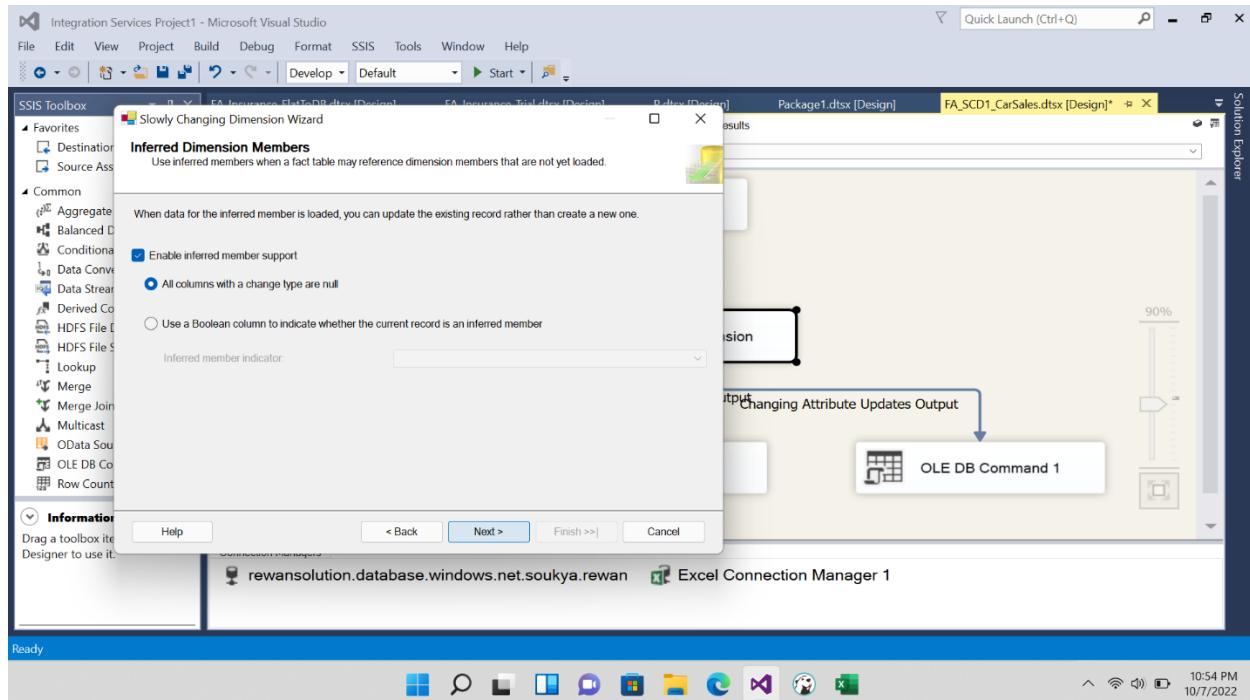


```
DBBeaver 22.2.0 - <soukya> FA_SSIS
File Edit Navigate Search SQL Editor Database Window Help
File | SQL | Commit | Rollback | Auto | soukya | dbo@soukya |  |  |  |
<soukya> Normalization_Assessment <soukya> FA_Commands_CarSales <soukya> FA_Insurance <soukya> FA_SSIS <soukya> Joins_Assessment
SELECT * FROM TE_FA_CarSales_SCD1
Results 1
select * from TE_FA_CarSales_SCD1
1 1 542 Dayton Center Bubbletube 871-57-6028 8,893 Dodge Ram 2500 Goldenrod 2,007 521,963.45 60760-224 Louie H
2 2 0674 Springview Circle Tagopia 337-64-4060 9,444 Toyota Tundra Crimson 2,010 672,222.04 67457-594 Alexand
3 3 70 Autumn Leaf Center Zoomdog 218-19-1802 253 GMC Savana 1500 Crimson 2,011 504,465.72 58411-135 Alvie W
4 4 649 Corben Lane Oozz 635-15-3112 1,283 Volkswagen Cabriolet Fuscia 1,990 646,077.11 0591-5307 Flint Gu
5 5 94 Namekagon Point Kare 849-23-6788 8,905 Mercury Mariner Teal 2,009 699,890.24 51655-189 Alyssa F
6 6 46347 Dunning Drive Rhynyx 378-57-0118 8,877 Toyota Land Cruiser Crimson 2,005 694,373.94 65811-0001 Wiatt Pi
7 7 85 Coleman Parkway Roomb0 479-97-2408 101 Subaru Impreza Indigo 1,999 546,977.55 31722-328 Findlay
8 8 30230 Westerfield Pass Wordify 371-69-6870 8,854 BMW X6 Purple 2,013 528,353.8 54162-018 Ottlie V
9 9 4 Coleman Street Skyvu 717-19-7839 9,043 Mitsubishi Galant Orange 2,011 706,964.35 44911-0060 Kirsten C
10 10 100 Anhalt Place Feedfire 634-55-4653 492 Subaru Justy Crimson 1,988 798,573.59 54868-5732 Archer L
11 11 7 Esch Trail Layo 547-88-4825 9,212 Mercedes-Benz M-Class Mauv 2,002 722,114.57 0955-1015 Duff Dc
12 12 6 Meadow Vale Center Oyoyo 440-82-9219 7,891 Ford Taurus X Crimson 2,008 761,182.85 54838-101 Barry Dc
Record 12
Save Script | 200+ Rows: 1 200 row(s) fetched - 409ms (95ms fetch), on 2022-10-07 10:48 PM
IST | en | Writable | Smart Insert | 43 : 1 [33] | Sel: 33 | 1
10:48 PM 10/7/2022
```









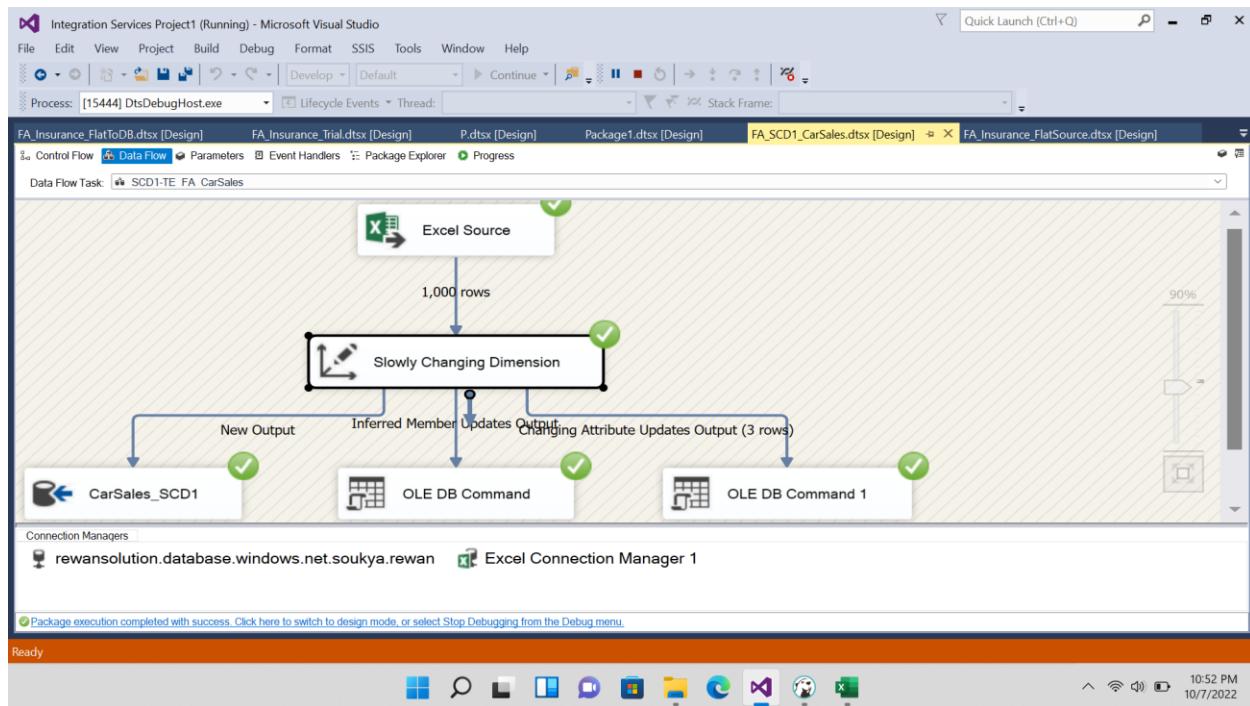
## Update made in Excel

## Supplier ID 2

**Car Price – 800000 , Car Model Year - 2020**

Car Sales & Shipment Datasource

	A	B	C	D	E	F	G	H	I	J	K
1	SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID
2	542 Dayton Center	Bubbletube	871-57-6028	8893	Dodge	Ram 2500	Goldenebod	2007	521963.45	60760-224	Louie Hir
3	0674 Springview Circle	Tagopia	337-64-4060	9444	Toyota	Tundra	Crimson	2020	800000	67457-594	Alexandr
4	70 Autumn Leaf Center	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	2011	504465.72	58411-135	Alvie We
5	649 Corben Lane	Oozz	635-15-3112	1283	Volkswagen	Cabriolet	Fuscia	2000	646077.11	0591-5037	Flint Gun
6	94 Namekagon Point	Kare	849-23-6788	8905	Mercury	Mariner	Teal	2009	698900.24	51655-189	Allyssa Fil
7	46347 Dunning Drive	Rhynyx	378-57-0118	8877	Toyota	Land Cruiser	Crimson	2005	500000.56	65811-0001	Wlatt Pic
8	85 Coleman Parkway	Roombo	479-97-2408	101	Subaru	Impreza	Indigo	1999	546977.55	3172-328	Findlay A
9	30230 Westerfield Pass	Wordify	371-69-6870	8854	BMW	X6	Purple	2013	52853.83	54162-018	Ottlie W
10	4 Coleman Street	Skyvu	717-19-7839	9043	Mitsubishi	Galant	Orange	2011	706964.35	44911-0060	Kirsten C
11	100 Anhalt Place	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732	Archer Le
12	7 Esch Trail	Layo	547-88-4825	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015	Duff Dod
13	6 Meadow Vale Center	Oyoyo	440-82-9219	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101	Barry De
14	0972 Pepper Wood Lane	Quatz	803-82-7568	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119	Libbey D
15	55262 Emmet Place	Gabvine	854-30-4179	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504	Demetric
16	330 Pennsylvania Plaza	Jaxspan	385-11-6886	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059	Creigh W
17	428 Meadow Ridge Alley	Mybuzz	632-59-2978	3327	BMW	M3	Turquoise	2009	728986.85	68788-9726	Erv Man
18	26 Stuart Court	Gabcube	236-54-6347	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672	Mychal Z
19	73 Bellifrus Road	Lazz	329-80-2609	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215	Jermain J
20	9 Lukken Way	Buzzdog	351-97-3917	2373	Toyota	Corolla	Aquamarine	2004	563380.63	37000-352	Liuka Du
21	411 Coleman Circle	Yodel	298-99-8758	5839	Ford	Tempo	Turquoise	1988	686028.43	49288-0606	Timmy D
22	88 Katie Wav	Innoiam	188-55-0225	1459	Mercedes-Benz	SL-Class	Turquoise	2009	526717.03	49693-1801	Barbee C

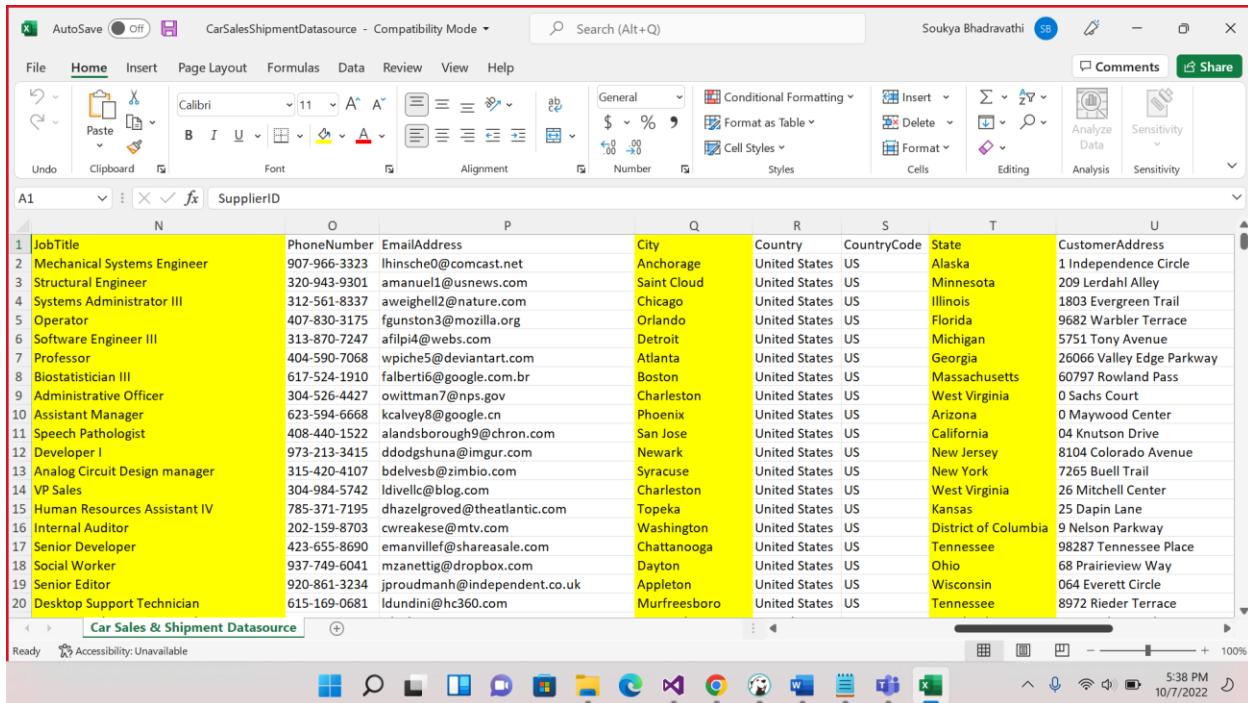


## Updated Result

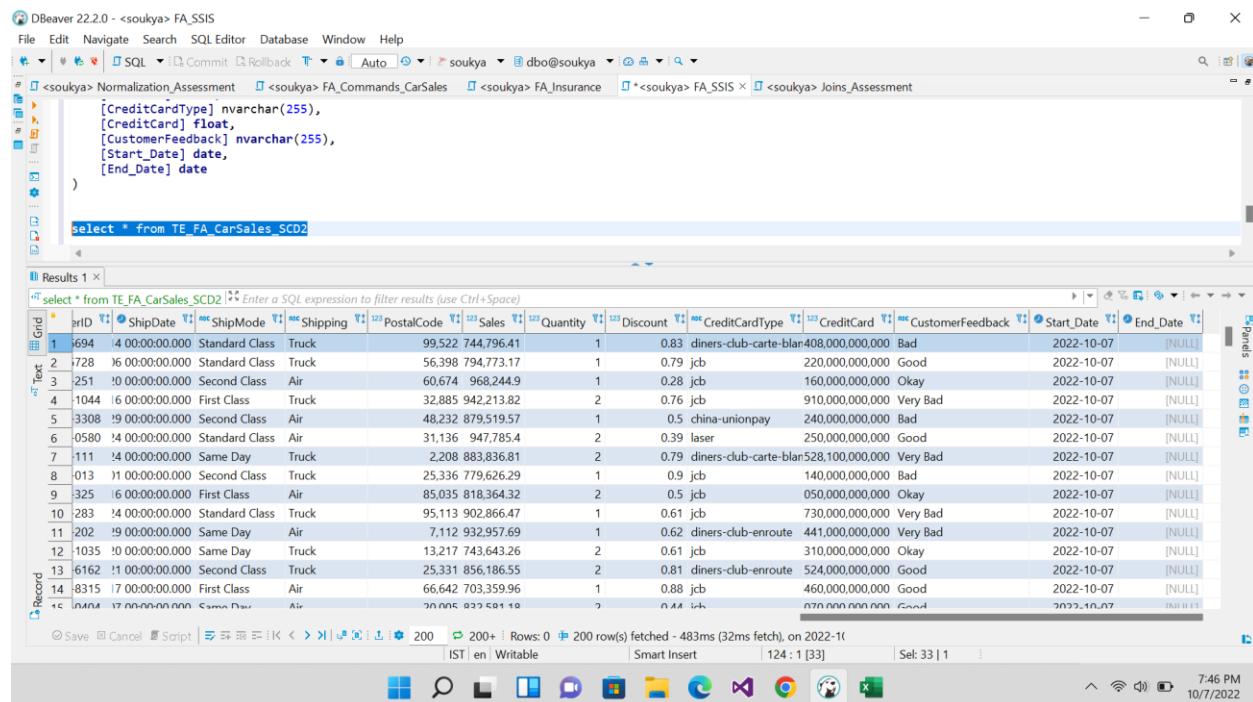
SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID	CustC
1	542 Dayton Center	Bubbletube	871-57-6028	8,893	Dodge	Ram 2500	Goldenerod	2,007	521,963.45	60760-224	Louie H
2	2 0674 Springview Circle	Tagopia	337-64-4060	9,444	Toyota	Tundra	Crimson	2,020	800,000	67457-594	Alexand
3	3 70 Autumn Leaf Center	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	2,011	504,465.72	58411-135	Alvie W
4	4 649 Corben Lane	Oozz	635-15-3112	1,283	Volkswagen	Cabriolet	Fuscia	2,000	646,077.11	0591-5307	Flint Gu
5	5 94 Namekagon Point	Kare	849-23-6788	8,905	Mercury	Mariner	Teal	2,009	699,890.24	51655-189	Alyssa F
6	6 46347 Dunning Drive	Rhynys	378-57-0118	8,877	Toyota	Land Cruiser	Crimson	2,005	500,000.56	65811-0001	Watt Pi
7	7 85 Coleman Parkway	Roombo	479-97-2408	101	Subaru	Impreza	Indigo	1,999	546,977.55	31722-328	Findlay
8	8 30230 Westerfield Pass	Wordify	371-69-6870	8,854	BMW	X6	Purple	2,013	528,353.8	54162-018	Ottlie V
9	9 4 Coleman Street	Skyvu	717-19-7839	9,043	Mitsubishi	Galant	Orange	2,011	706,964.35	44911-0060	Kirsten C
10	10 100 Anholt Place	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	1,988	798,573.59	54868-5732	Archer I
11	11 7 Esch Trail	Layo	547-88-4825	9,212	Mercedes-Benz	M-Class	Mauv	2,002	722,114.57	0955-1015	Duff De
12	12 6 Meadow Vale Center	Oyoyo	440-82-9219	7,891	Ford	Taurus X	Crimson	2,008	761,182.85	54838-101	Barry De

# SCD2

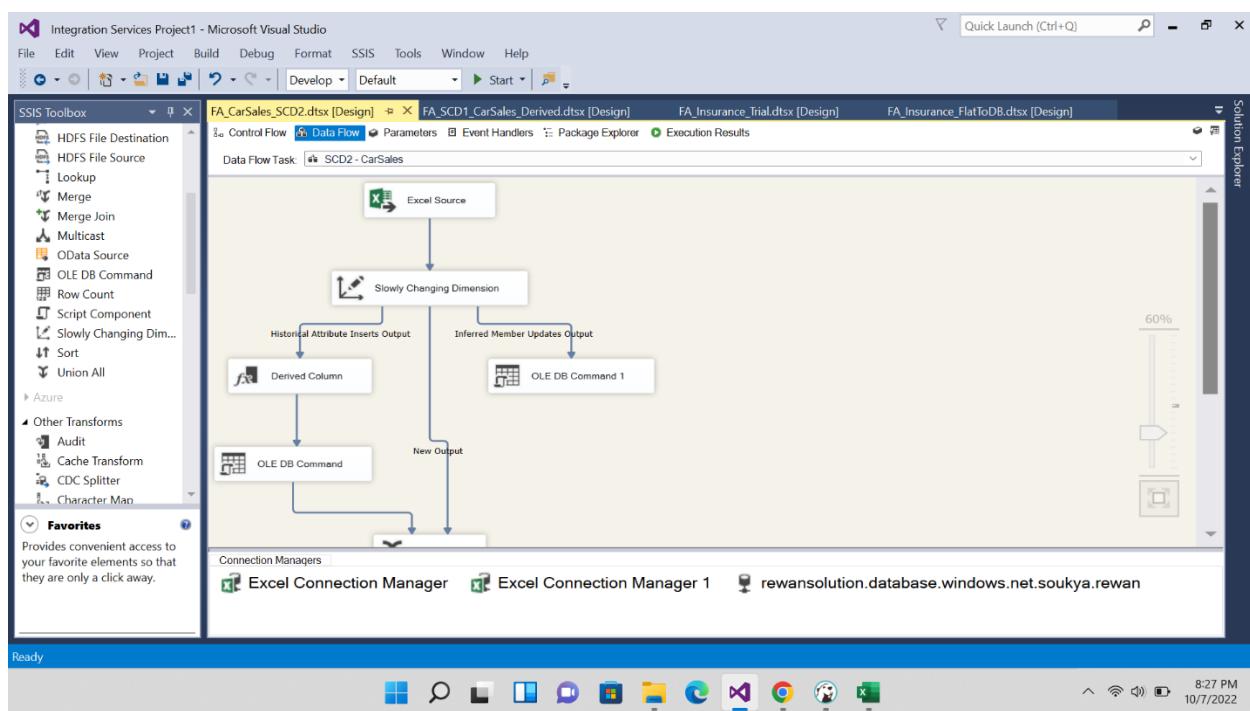
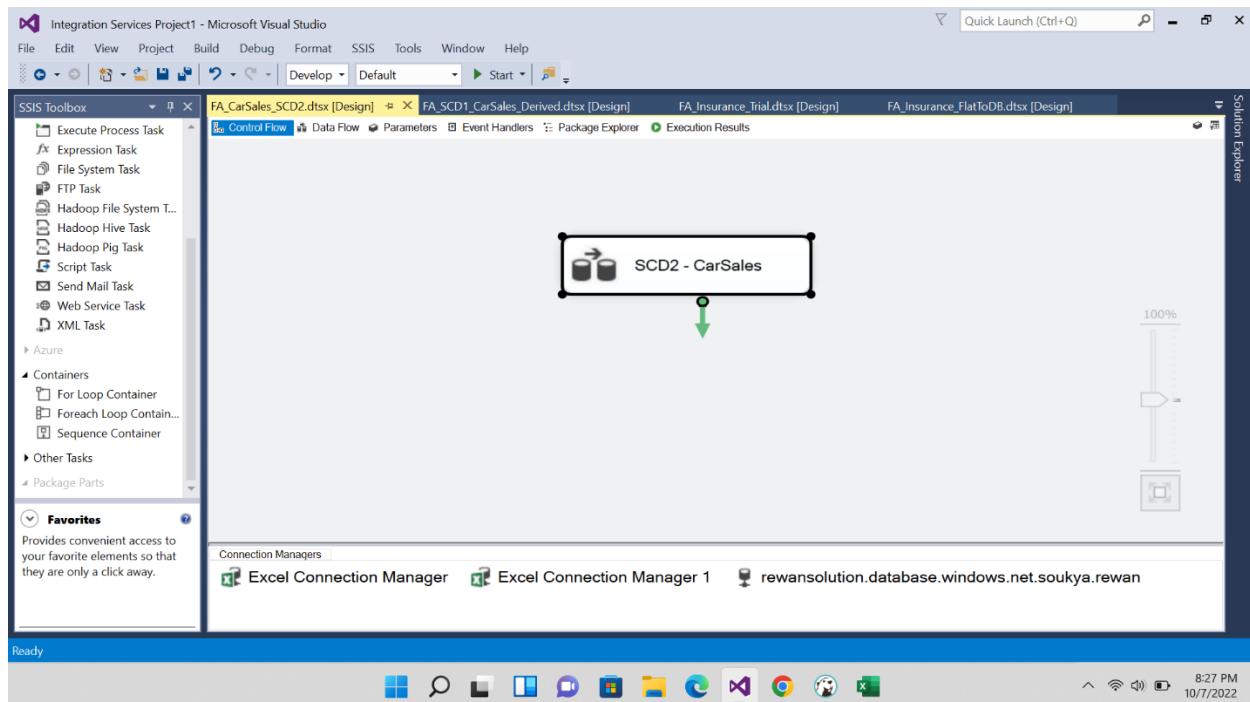
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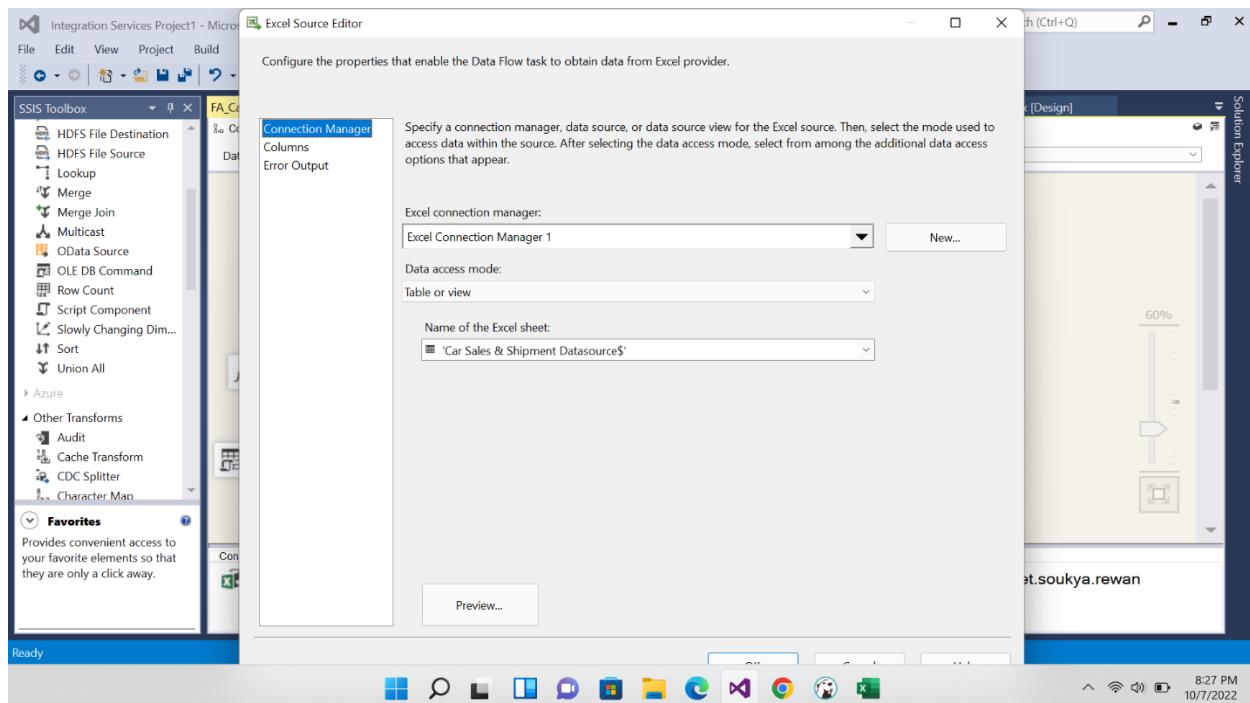
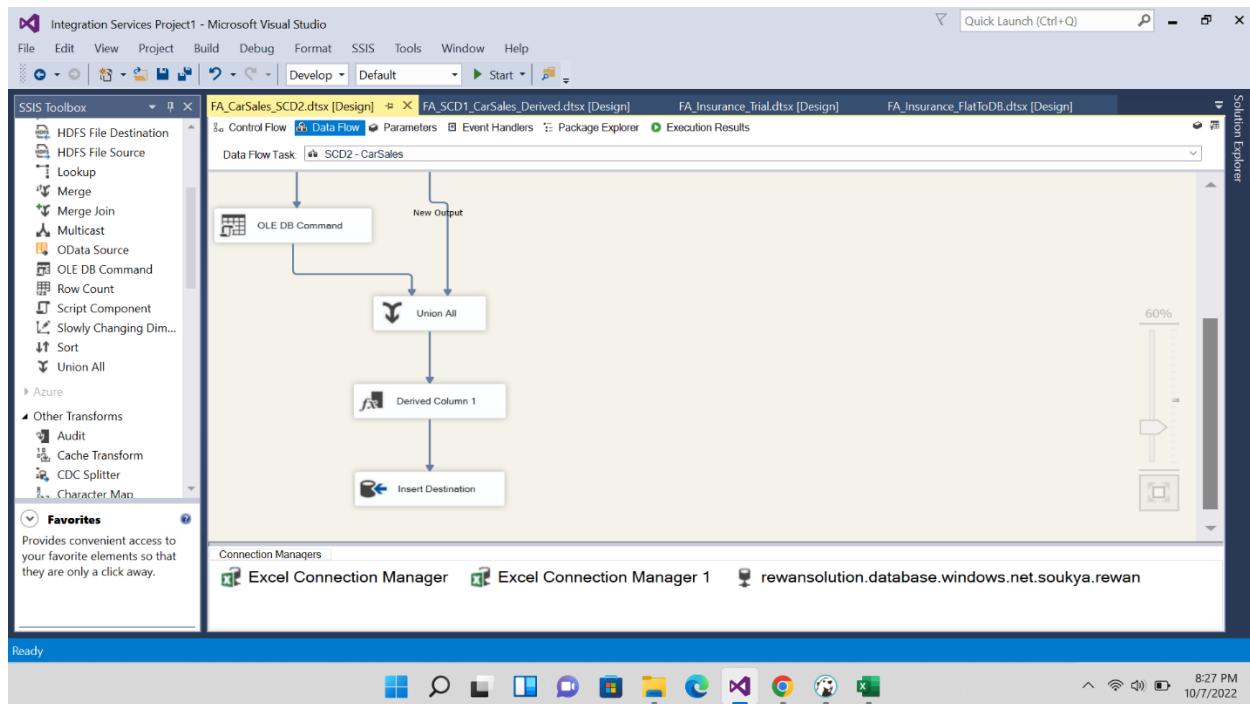


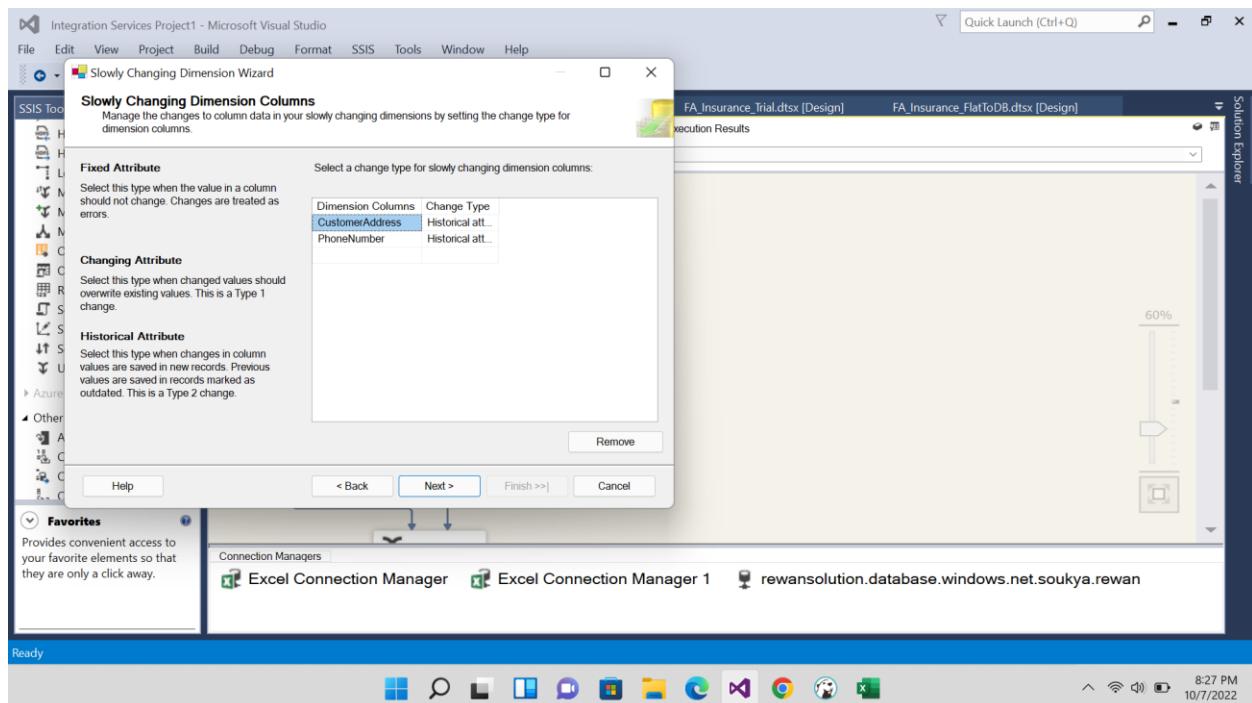
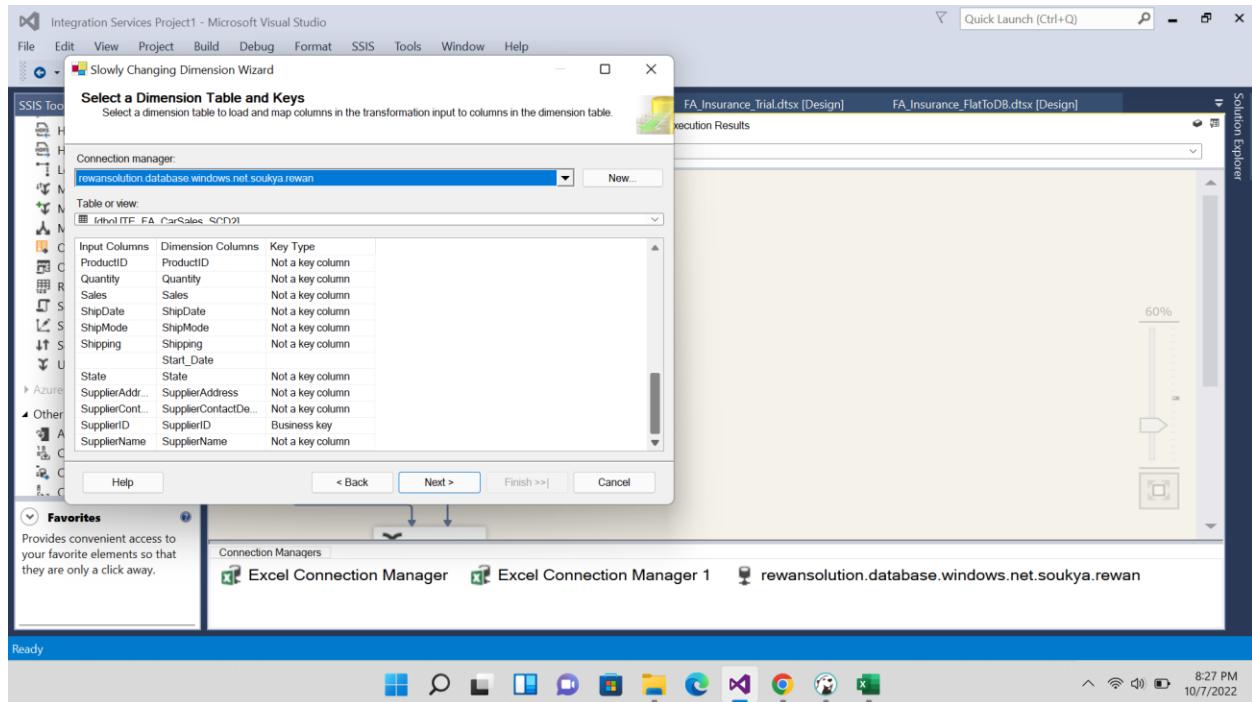
JobTitle	PhoneNumber	EmailAddress	City	Country	CountryCode	State	CustomerAddress
Mechanical Systems Engineer	907-966-3323	linsche@comcast.net	Anchorage	United States	US	Alaska	1 Independence Circle
Structural Engineer	320-943-9301	amanuel1@usnews.com	Saint Cloud	United States	US	Minnesota	209 Lerdahl Alley
Systems Administrator III	312-561-8337	aweilhell2@nature.com	Chicago	United States	US	Illinois	1803 Evergreen Trail
Operator	407-830-3175	fgunston3@mozilla.org	Orlando	United States	US	Florida	9682 Warbler Terrace
Software Engineer III	313-870-7247	falipi4@webs.com	Detroit	United States	US	Michigan	5751 Tony Avenue
Professor	404-590-7068	wipiche5@deviantart.com	Atlanta	United States	US	Georgia	26066 Valley Edge Parkway
Biostatistician III	617-524-1910	fabert6@google.com.br	Boston	United States	US	Massachusetts	60797 Rowland Pass
Administrative Officer	304-526-4427	owittman7@nps.gov	Charleston	United States	US	West Virginia	0 Sachs Court
Assistant Manager	623-594-6668	kcalvey8@google.cn	Phoenix	United States	US	Arizona	0 Maywood Center
Speech Pathologist	408-440-1522	alandsbrough9@chron.com	San Jose	United States	US	California	04 Knutson Drive
Developer I	973-213-3415	ddodgshuna@imgur.com	Newark	United States	US	New Jersey	8104 Colorado Avenue
Analog Circuit Design manager	315-420-4107	bdelvesb@zimbio.com	Syracuse	United States	US	New York	7265 Buell Trail
VP Sales	304-984-5742	ldivelle@blog.com	Charleston	United States	US	West Virginia	26 Mitchell Center
Human Resources Assistant IV	785-371-7195	dhazelgroved@theatlantic.com	Topeka	United States	US	Kansas	25 Dapin Lane
Internal Auditor	202-159-8703	cwreakese@mtv.com	Washington	United States	US	District of Columbia	9 Nelson Parkway
Senior Developer	423-655-8690	emanvillef@shareasale.com	Chattanooga	United States	US	Tennessee	98287 Tennessee Place
Social Worker	937-749-6041	mzannettig@dropbox.com	Dayton	United States	US	Ohio	68 Prairieview Way
Senior Editor	920-861-3234	jproudmanh@independent.co.uk	Appleton	United States	US	Wisconsin	064 Everett Circle
Desktop Support Technician	615-169-0681	ldundinj@h360.com	Murfreesboro	United States	US	Tennessee	8972 Rieder Terrace

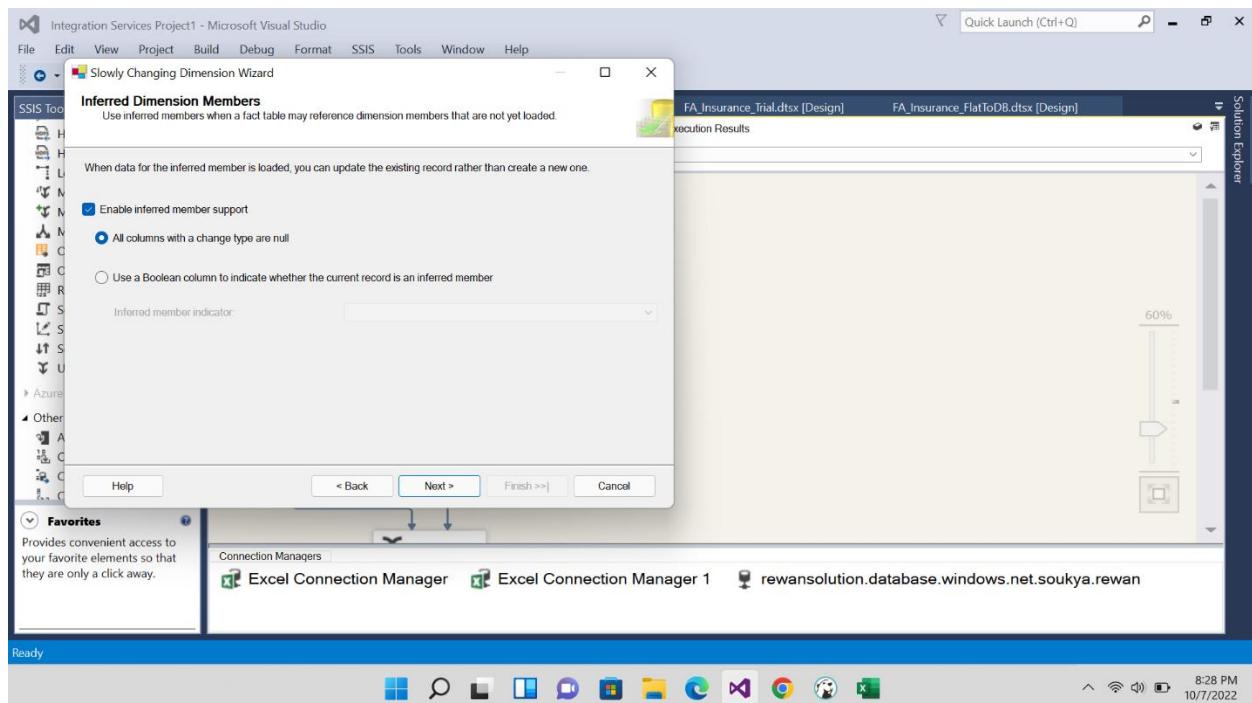
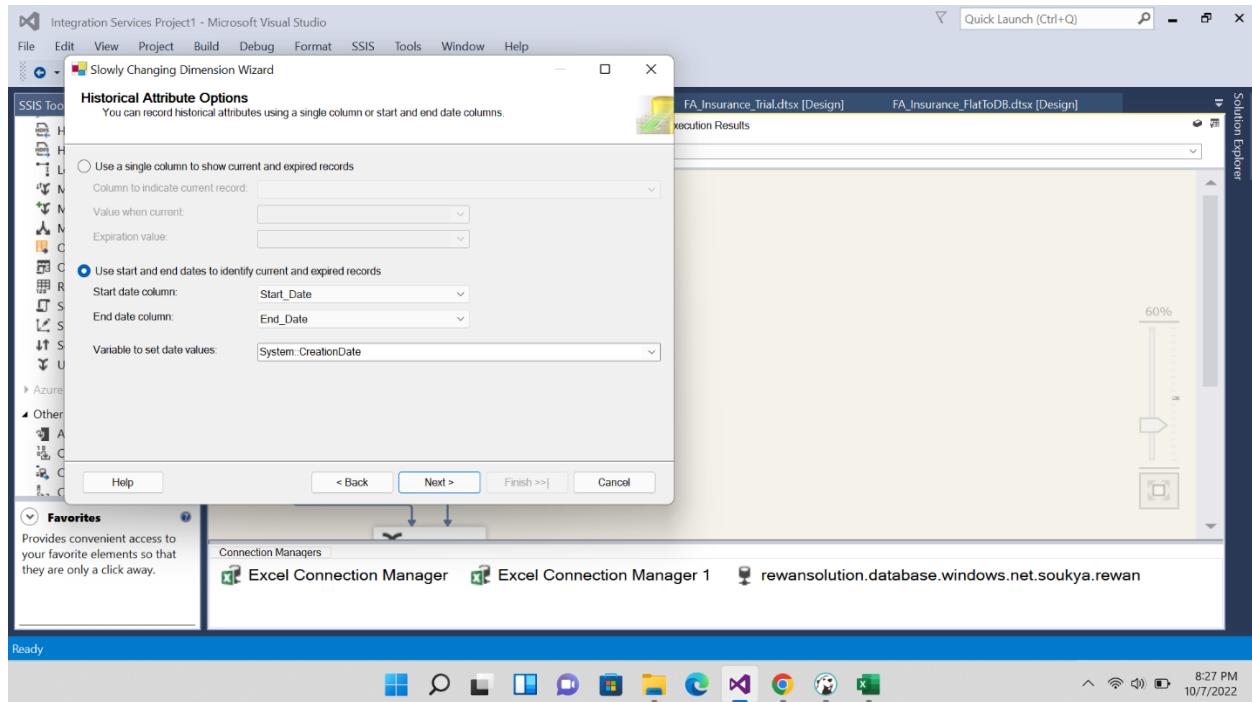


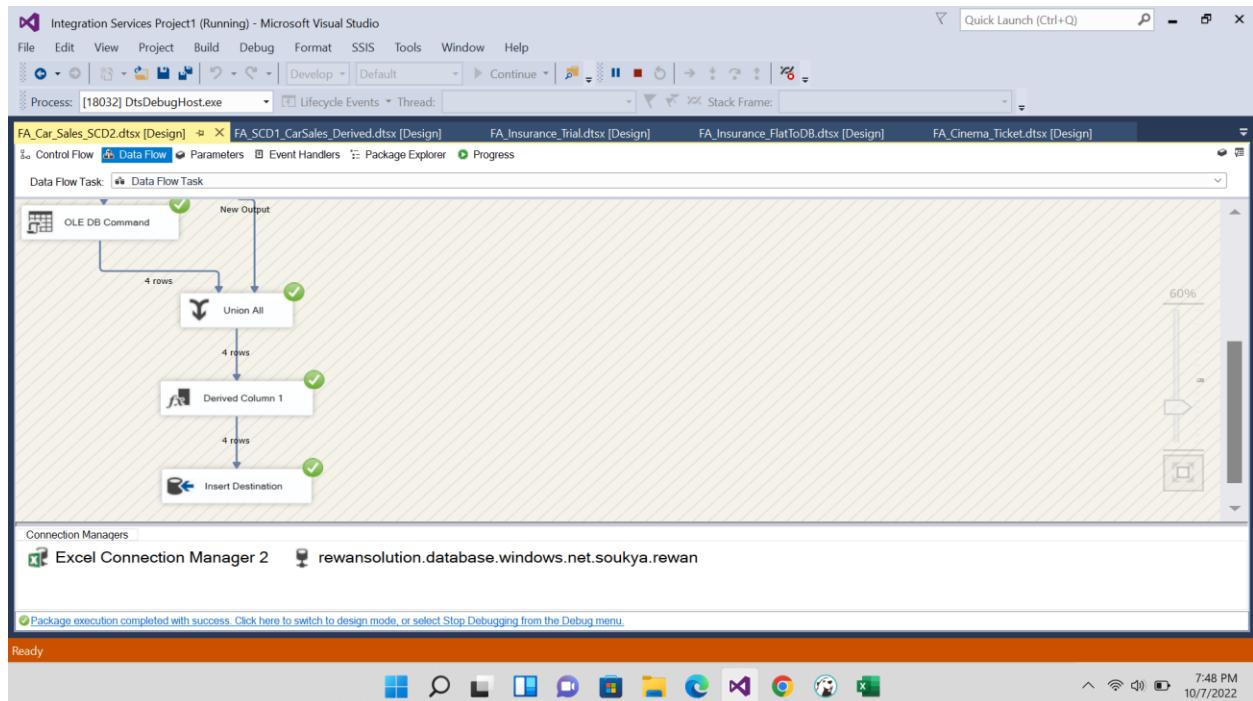
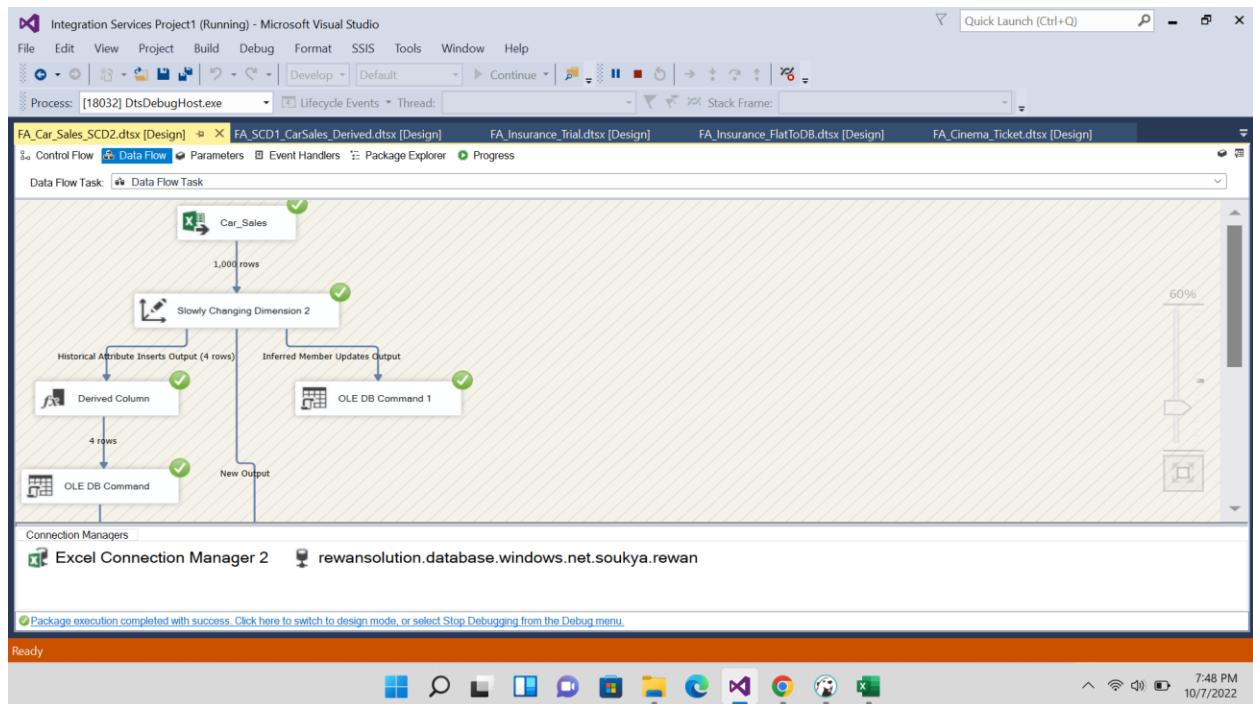
OrderID	ShipDate	ShipMode	Shipping	PostalCode	Sales	Quantity	Discount	CreditCardType	CreditCard	CustomerFeedback	Start Date	End Date
1	694	4 00:00:00.000	Standard Class	Truck	99,522 744,796.41	1	0.83	diners-club-blanc	408,000,000,000	Bad	2022-10-07	[NULL]
2	728	6 00:00:00.000	Standard Class	Truck	56,398 794,773.17	1	0.79	jcb	220,000,000,000	Good	2022-10-07	[NULL]
3	251	10 00:00:00.000	Second Class	Air	60,674 968,244.9	1	0.28	jcb	160,000,000,000	Okay	2022-10-07	[NULL]
4	1044	6 00:00:00.000	First Class	Truck	32,885 942,213.82	2	0.76	jcb	910,000,000,000	Very Bad	2022-10-07	[NULL]
5	3308	9 00:00:00.000	Second Class	Air	48,232 879,519.57	1	0.5	china-unionpay	240,000,000,000	Bad	2022-10-07	[NULL]
6	0580	14 00:00:00.000	Standard Class	Air	31,136 947,785.4	2	0.39	laser	250,000,000,000	Good	2022-10-07	[NULL]
7	111	24 00:00:00.000	Same Day	Truck	2,208 883,836.81	2	0.79	diners-club-carte-blanc	528,100,000,000	Very Bad	2022-10-07	[NULL]
8	013	21 00:00:00.000	Second Class	Truck	25,336 779,626.29	1	0.9	jcb	140,000,000,000	Bad	2022-10-07	[NULL]
9	325	16 00:00:00.000	First Class	Air	85,035 818,364.32	2	0.5	jcb	050,000,000,000	Okay	2022-10-07	[NULL]
10	283	24 00:00:00.000	Standard Class	Truck	95,113 902,866.47	1	0.61	jcb	730,000,000,000	Very Bad	2022-10-07	[NULL]
11	202	19 00:00:00.000	Same Day	Air	7,112 932,957.69	1	0.62	diners-club-enroute	441,000,000,000	Very Bad	2022-10-07	[NULL]
12	1035	10 00:00:00.000	Same Day	Truck	13,217 743,643.26	2	0.61	jcb	310,000,000,000	Okay	2022-10-07	[NULL]
13	6162	21 00:00:00.000	Second Class	Truck	25,331 856,186.55	2	0.81	diners-club-enroute	524,000,000,000	Good	2022-10-07	[NULL]
14	8315	17 00:00:00.000	First Class	Air	66,642 703,359.96	1	0.88	jcb	460,000,000,000	Good	2022-10-07	[NULL]
15	10404	17 00:00:00.000	Same Day	Air	20,005 823,501.19	2	0.44	jcb	870,000,000,000	Good	2022-10-07	[NULL]











DBBeaver 22.2.0 - <soukya> FA\_SSIS

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto soukya dbo@soukya FA\_SSIS <soukya> Joins\_Assessment

```
[creditCardType] nvarchar(255),
[creditCard] float,
[CustomerFeedback] nvarchar(255),
[Start_Date] date,
[End_Date] date
)
```

```
select * from TE_FA_CarSales_SCD2
```

Results 1 ×

select \* from TE\_FA\_CarSales\_SCD2 Enter a SQL expression to filter results (use Ctrl+Space)

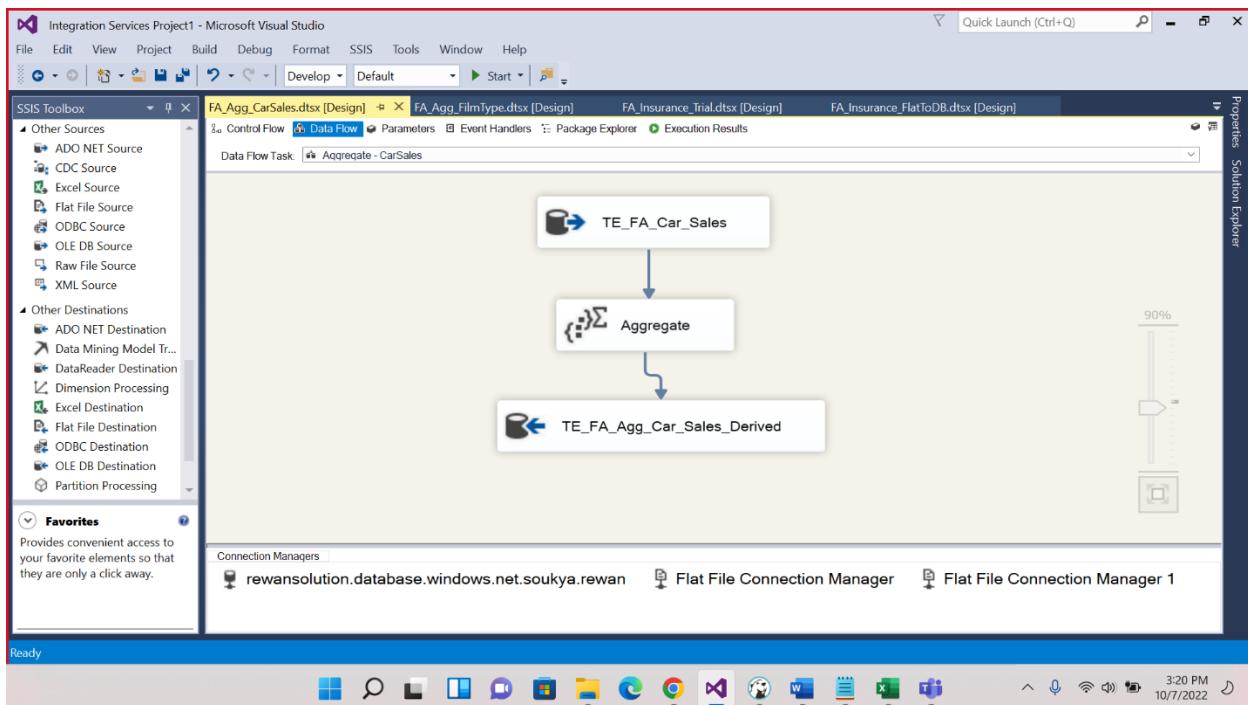
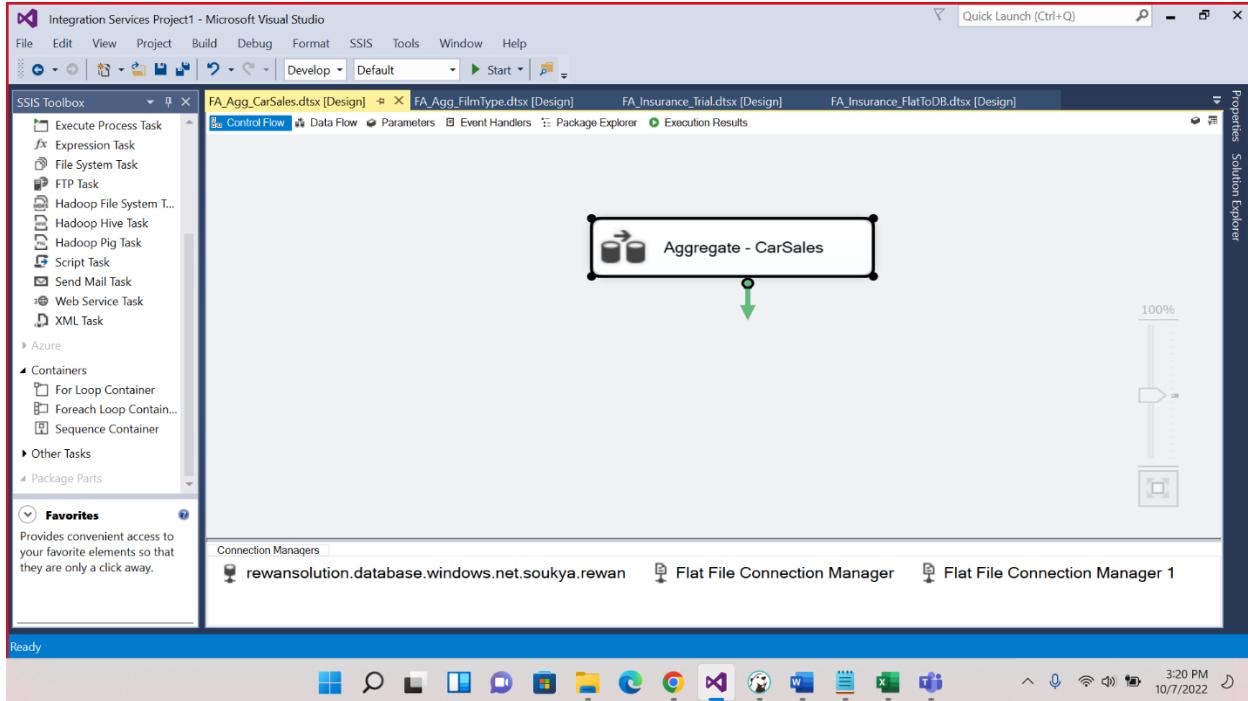
Grid	ordID	ShipDate	ShipMode	Shipping	PostalCode	Sales	Quantity	Discount	CreditCardType	CreditCard	CustomerFeedback	Start_Date	End_Date
1	694	4 00:00:00.000	Standard Class	Truck	99,522	744,796.41	1	0.83	diners-club-carte-blanc	408,000,000,000	Bad	2022-10-07	2022-10-07
2	728	16 00:00:00.000	Standard Class	Truck	56,398	794,773.17	1	0.79	jcb	220,000,000,000	Good	2022-10-07	2022-10-07
3	251	10 00:00:00.000	Second Class	Air	60,674	968,244.9	1	0.28	jcb	160,000,000,000	Okay	2022-10-07	[NULL]
4	1044	16 00:00:00.000	First Class	Truck	32,885	942,213.82	2	0.76	jcb	910,000,000,000	Very Bad	2022-10-07	[NULL]
5	3308	19 00:00:00.000	Second Class	Air	48,232	879,519.57	1	0.5	china-unionpay	240,000,000,000	Bad	2022-10-07	2022-10-07
6	0580	14 00:00:00.000	Standard Class	Air	31,136	947,785.4	2	0.39	laser	250,000,000,000	Good	2022-10-07	2022-10-07
7	111	14 00:00:00.000	Same Day	Truck	2,208	883,836.81	2	0.79	diners-club-carte-blanc	528,100,000,000	Very Bad	2022-10-07	[NULL]
8	013	11 00:00:00.000	Second Class	Truck	25,336	779,626.29	1	0.9	jcb	140,000,000,000	Bad	2022-10-07	[NULL]
9	325	6 00:00:00.000	First Class	Air	85,035	818,364.32	2	0.5	jcb	050,000,000,000	Okay	2022-10-07	[NULL]
10	283	14 00:00:00.000	Standard Class	Truck	95,113	902,866.47	1	0.61	jcb	730,000,000,000	Very Bad	2022-10-07	[NULL]
11	202	19 00:00:00.000	Same Day	Air	7,112	932,957.69	1	0.62	diners-club-enroute	441,000,000,000	Very Bad	2022-10-07	[NULL]
12	1035	10 00:00:00.000	Same Day	Truck	13,217	743,643.26	2	0.61	jcb	310,000,000,000	Okay	2022-10-07	[NULL]
13	6162	11 00:00:00.000	Second Class	Truck	25,331	856,186.55	2	0.81	diners-club-enroute	524,000,000,000	Good	2022-10-07	[NULL]
14	8315	17 00:00:00.000	First Class	Air	66,642	703,359.96	1	0.88	jcb	460,000,000,000	Good	2022-10-07	[NULL]
15	0004	17 00:00:00.000	Same Day	Air	20,005	833,501.10	2	0.84	jcb	377,000,000,000	Good	2022-10-07	[NULL]

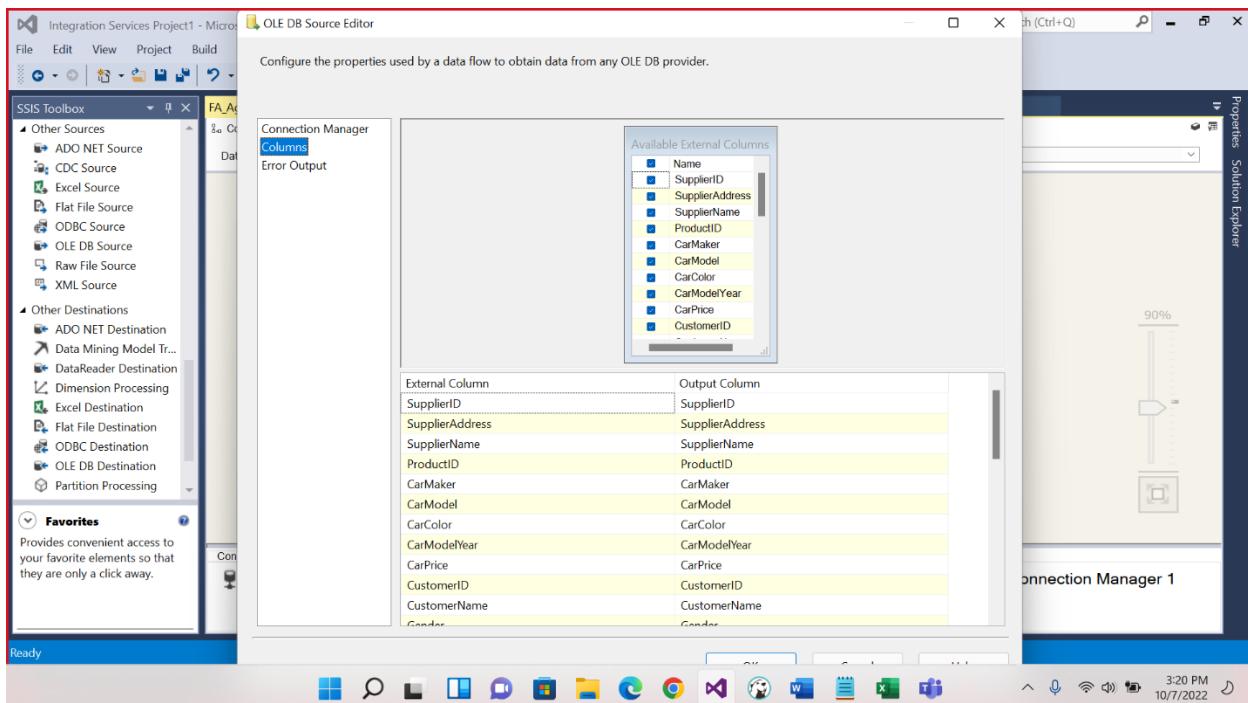
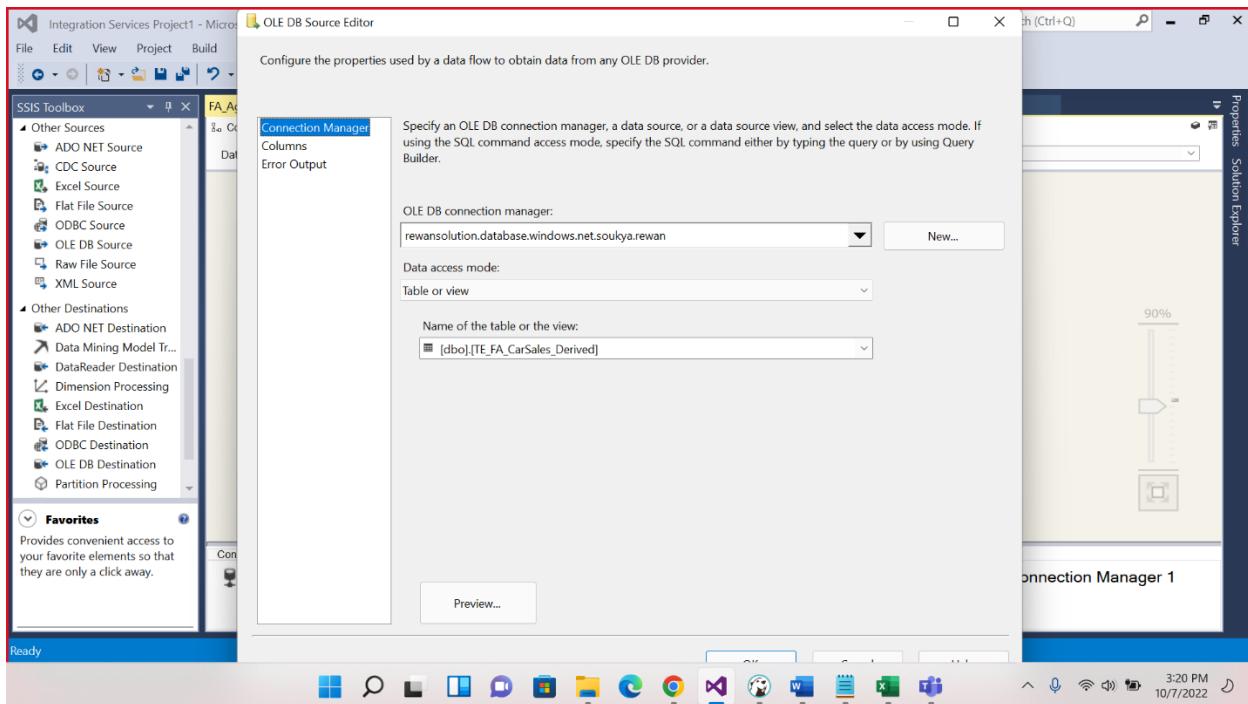
The screenshot shows the DBBeaver 22.2.0 interface with the following details:

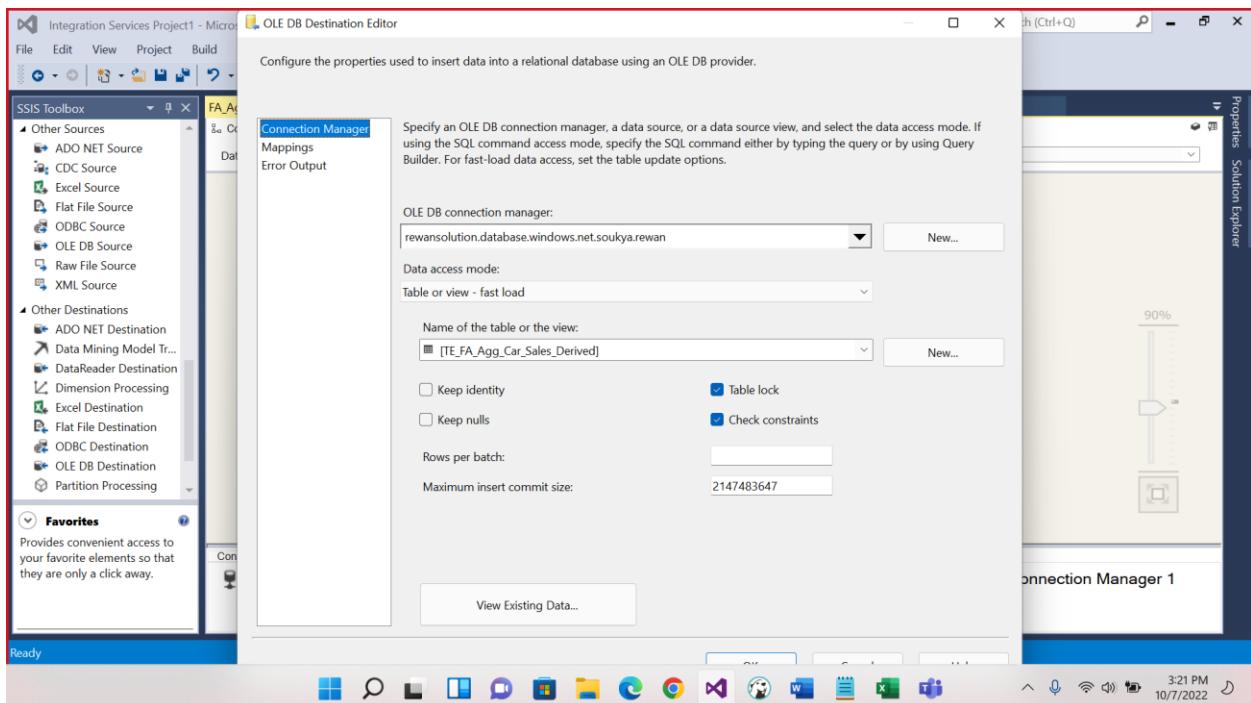
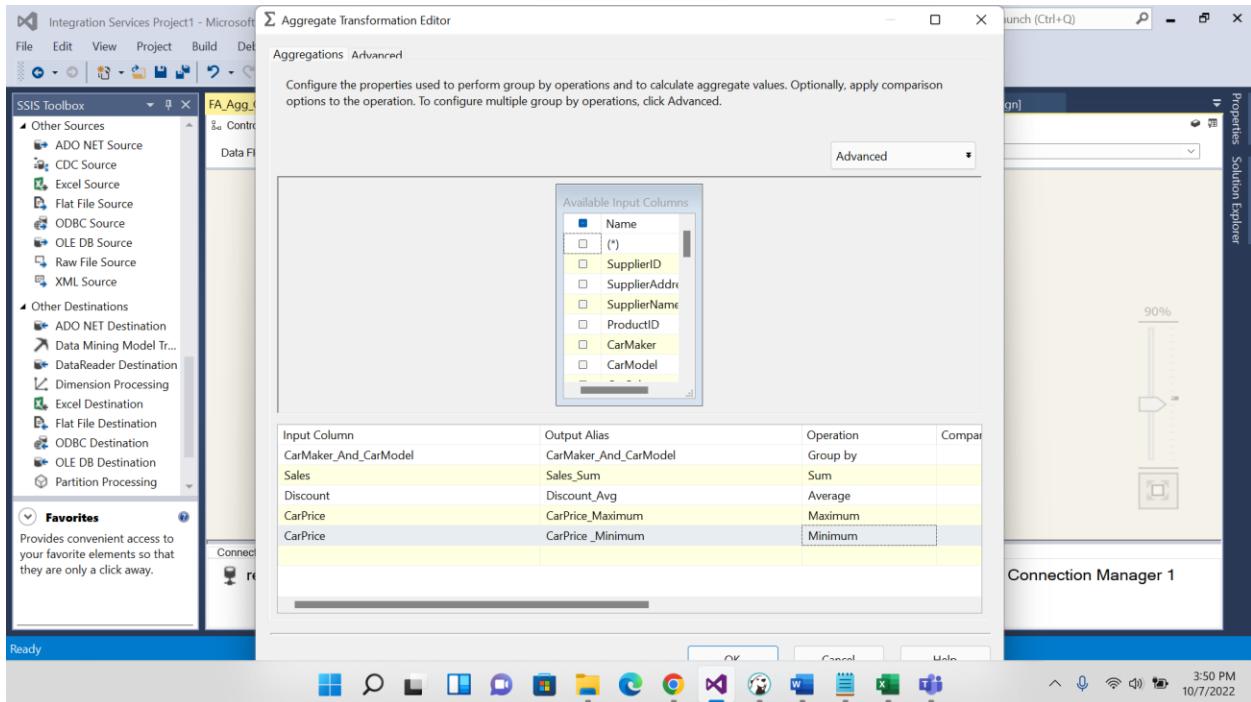
- File Bar:** File, Edit, Navigate, Search, SQL Editor, Database, Window, Help.
- Toolbar:** Commit, Rollback, Auto, soukya, dbo@soukya, Save, Undo, Redo, Find, Replace.
- SQL Editor:** Contains a query for creating a table with a primary key and constraints, and a SELECT statement filtering rows by SupplierID.
- Results Grid:** Shows the output of the query, with 10 rows of data.
- Record Bar:** Save, Cancel, Script, and various navigation icons.
- Bottom Status Bar:** Rows: 1, 10 row(s) fetched - 472ms, on 2022-10-07 at 20:26:4, IST, en, Writable, Smart Insert, Sel: 111 | 1.
- System Icons:** Taskbar icons for File Explorer, Search, Task View, Edge, File Explorer, and others.
- System Clock:** 8:27 PM, 10/7/2022.

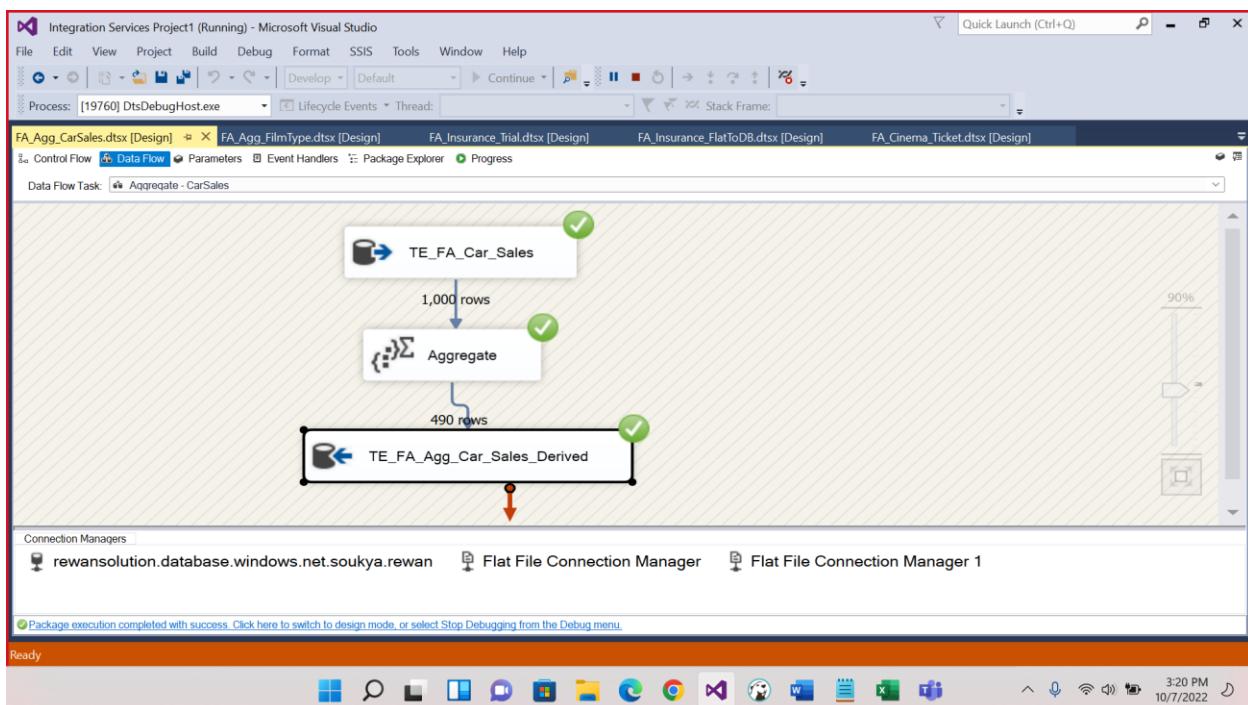
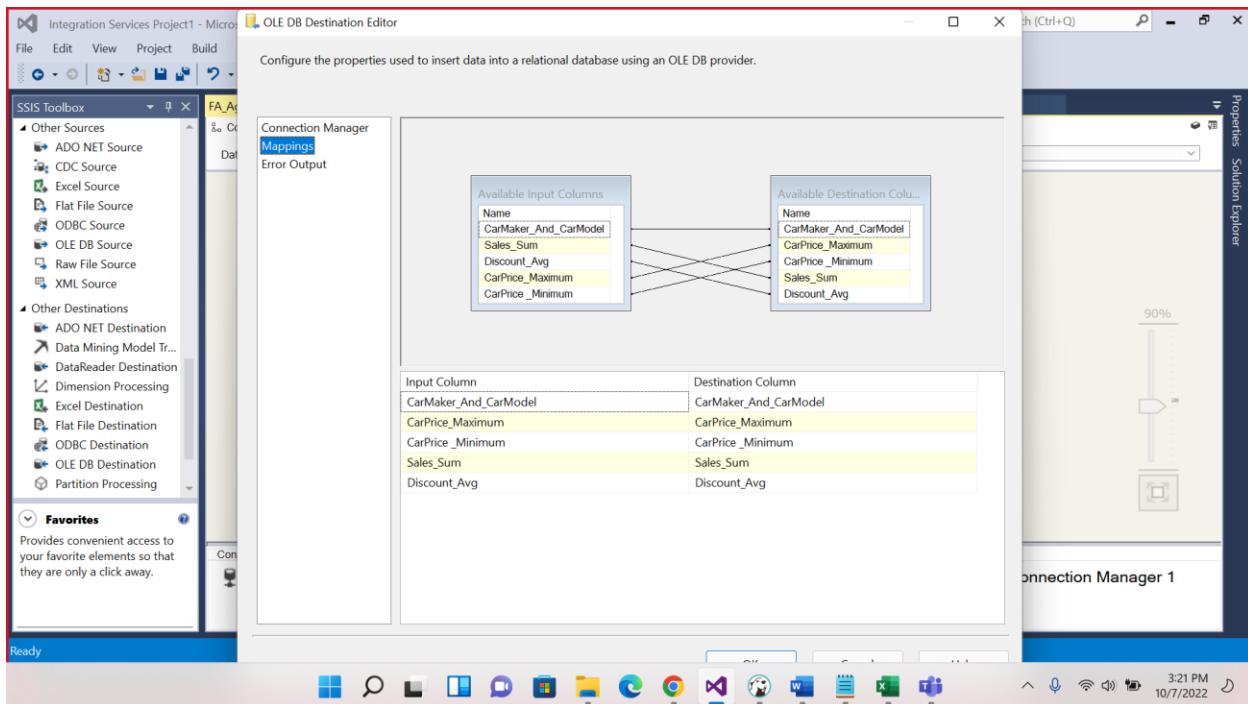
	PhoneNumber	CustomerAddress	Start_Date	End_Date
1	907-966-3323	1 Independence Circle	2022-10-07	2022-10-07
2	320-943-9301	209 Lerdahl Alley	2022-10-07	2022-10-07
3	313-870-7247	5751 Tony Avenue	2022-10-07	2022-10-07
4	304-526-4427	0 Sachs Court	2022-10-07	2022-10-07
5	623-594-6668	0 Maywood Center	2022-10-07	2022-10-07
6	[NULL]	250 Bhadravathi Shimoga	2022-10-07	[NULL]
7	320-943-9301	Kochi Kerala	2022-10-07	[NULL]
8	[NULL]	5751 Tony Avenue	2022-10-07	[NULL]
9	[NULL]	0 Sachs Court	2022-10-07	[NULL]
10	623-594-6668	56 Pune Mumbai	2022-10-07	[NULL]

## Create Aggregate Table









DBeaver 22.2.0 - <soukya>.FA\_SSIS

File Edit Navigate Search SQL Editor Database Window Help

SQL Commit Rollback Auto soukya dbo@soukya 200 200+ Rows: 1 200 row(s) fetched - 198ms (2ms fetch), on 2022-10-07 10:51:22

Results 1 ×

select \* from TE\_FA\_Agg\_Car\_Sales\_Derived

CarMaker_And_CarModel	Sales_Sum	Discount_Avg	CarPrice_Maximum	CarPrice_Minimum
[NULL]	35,728,987.87	0.616744186	798,837.47	511,800.86
Chevrolet Camaro	7,566,281	0.5477777778	757,579.72	527,560.44
Buick Coachbuilder	904,555.79	0.74	610,872.2	610,872.2
Ford Explorer Sport Trac	708,585.42	0.5	587,498.89	587,498.89
Pontiac Grand Prix	7,656,373.99	0.6266666667	784,238.63	546,993.51
Suzuki Sidekick	3,269,133.8600000003	0.5875	645,381.97	501,184.47
Chevrolet Caprice	1,909,406,7799999998	0.485	584,013.95	575,973.51
Mercedes-Benz CLS-Class	1,873,244.24	0.55	760,854.57	733,580.12
Toyota Avalon	1,875,855.62	0.615	750,136.44	570,870.44
Nissan 370Z	906,383.42	0.29	734,064.83	734,064.83
Lexus IS-F	1,647,551.5499999998	0.475	544,052.09	540,377.33
Cadillac Escalade EXT	3,336,570,7500000005	0.52	636,858.15	555,111.84
Toyota MR2	1,482,726,9100000001	0.485	792,030.29	505,282.4
Chevrolet Tahoe	2,463,449.54	0.59	584,628.7	506,708.4
Lexus ES	1,909,101.83	0.72	751,092.56	620,925.48
Lexus GS	1,598,336.98	0.54	650,995.54	634,610.93
Lexus IS	1,774,412.8	0.76	554,332.62	501,225.2