

Module 2 SSIS

Entry criteria: Transactions tables created in Module 1, task 2

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

1. EXCEL TO DB

The screenshot shows a Microsoft Excel spreadsheet titled "FINAL_1000_CARS". The data is organized into columns Q through X. Column Q contains email addresses, while columns R through X contain geographical and transactional information. The data includes cities like Bangalore and Mysore, countries like India and US, states like Alaska and Minnesota, and various customer addresses and order details.

Q	R	S	T	U	V	W	X	Y	
1 EmailAddress	City	Country	CountryCode	State	CustomerAddress	OrderDate	OrderID	ShipDate	ShipMode
2 ihinsche0@comcast.net	Bangalore	India	US	Alaska	1 Independence Circle	43450	0268-6694	43538	Standard Class
3 amanuel1@usnews.com	Mysore	India	US	Minnesota	209 Lerdahl Alley	43509	0699-5728	43530	Standard Class
4 aweiheil2@nature.com	Chicago	United States	US	Illinois	1803 Evergreen Trail	43328	42043-251	43485	Second Class
5 fgunston3@mozilla.org	Orlando	United States	US	Florida	9682 Warbler Terrace	43518	57520-1044	43540	First Class
6 afilipi4@webs.com	Detroit	United States	US	Michigan	5751 Tony Avenue	43349	36987-3308	43494	Second Class
7 wpiche5@deviantart.com	Atlanta	United States	US	Georgia	26066 Valley Edge Parkway	43328	11822-0580	43548	Standard Class
8 falberti6@nps.gov	Boston	United States	US	Massachusetts	60797 Rowland Pass	43540	24909-111	43489	Same Day
9 owittman7@nps.gov	Charleston	United States	US	West Virginia	0 Sachs Court	43281	49527-013	43466	Second Class
10 kcalvey8@google.cn	Phoenix	United States	US	Arizona	0 Maywood Center	43408	52125-325	43481	First Class
11 alandsborough9@chron.com	San Jose	United States	US	California	04 Knutson Drive	43428	45802-283	43520	Standard Class
12 dddogshuna@imgur.com	Newark	United States	US	New Jersey	8104 Colorado Avenue	43608	50563-202	43553	Same Day
13 bdelvesb@zimbio.com	Syracuse	United States	US	New York	7265 Buell Trail	43436	60512-1035	43605	Same Day
14 ldivelli@blog.com	Charleston	United States	US	West Virginia	26 Mitchell Center	43633	54868-6162	43486	Second Class
15 dhazelgroved@theatlantic.com	Topeka	United States	US	Kansas	25 Dapin Lane	43580	57955-8315	43602	First Class
16 cwreakese@mtv.com	Washington	United States	US	District of Columbia	9 Nelson Parkway	43324	58118-0404	43472	Same Day
17 emanville@shareasale.com	Chattanooga	United States	US	Tennessee	98287 Tennessee Place	43437	65862-082	43617	Same Day
18 mzanettig@dropbox.com	Dayton	United States	US	Ohio	68 Prairieview Way	43318	50169-0005	43517	Same Day
19 jproudmanh@independent.co.uk	Appleton	United States	US	Wisconsin	064 Everett Circle	43570	49404-204	43605	Same Day
20 ldundini@hc360.com	Murfreesboro	United States	US	Tennessee	8972 Rieder Terrace	43619	0363-0459	43585	First Class
21 tduckj@mapquest.com	Annapolis	United States	US	Maryland	90 Mendota Park	43416	57955-2282	43548	Standard Class
22 bcathelk@daireneville.it	Bloomington	United States	US	Indiana	618 Bunting Court	43437	28107-003	43616	Second Class

The screenshot shows the Microsoft Visual Studio interface for an Integration Services Project. The main window displays the "Data Flow Task" design surface. It features an "Excel Source" component connected to an "OLE DB Destination" component. A data flow path is shown with arrows indicating the flow of data from the source to the destination. The "OLE DB Destination" component has a note indicating "1,000 rows". The "Control Flow" tab is selected in the ribbon. The status bar at the bottom shows "Process: [1548] DtsDebugHost.exe" and "8:28 PM 10/9/2022".

DBBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator > Projects > <dlithe> queries... > <shreya> Script-1... > <shreya> SSIS.sql > <shreya> Views... > Cinema_ASSIGN_da... > <shreya> IIS.sql > <shreya> DDLDM...

Enter a part of object name here

ddithe - rewsolution.database.windows.net

- Databases
- Security
- Administrator
- oracle-88094-0.cloudclusters.net - oracle-6
- shreya - rewsolution.database.windows.net
- Databases
- shreya
- Schemas
- dbo
- Tables
- External Tables
- Views
- Indexes
- Procedures
- Sequences
- Synonyms
- Triggers
- Data Types

Project - General > Name: DataSource

Record

Results 1 > SELECT * FROM T_FINAL_CARS_1000; Enter a SQL expression to filter results (use Ctrl+Space)

SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModel
1	542 Dayton Center	Bubbletube	871-57-6028	8,893	Dodge	Ram 2500	Red	
2	2 0674 Springview Circle	Tagopia	337-64-4060	9,444	Toyota	Tundra	Crimson	
3	3 70 Autumn Leaf Center	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	
4	4 649 Corben Lane	Oozz	635-15-3112	1,283	Volkswagen	Cabriolet	Fuscia	
5	5 94 Namekagon Point	Kare	849-23-6788	8,905	Mercury	Mariner	Teal	
6	6 46347 Dunning Drive	Rhynyx	378-57-0118	8,877	Toyota	Land Cruiser	Crimson	
7	7 85 Coleman Parkway	Roombro	479-97-2408	101	Subaru	Impreza	Indigo	
8	8 30230 Westerfield Pass	Wordify	371-69-6870	8,854	BMW	X6	Purple	
9	9 4 Coleman Street	Skyvu	717-19-7839	9,043	Mitsubishi	Galant	Orange	
10	10 100 Anhalt Place	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	
11	11 7 Esch Trail	Layo	547-88-4825	9,212	Mercedes-Benz	M-Class	Mauv	
12	12 6 Meadow Vale Center	Oyoyo	440-82-9219	7,891	Ford	Taurus X	Crimson	
13	13 0972 Pepper Wood Lane	Quatz	803-82-7568	3,334	Mercedes-Benz	CL-Class	Red	
14	14 55262 Emmet Place	Gabvine	854-30-4179	8,898	Dodge	Avenger	Turquoise	
15	15 330 Pennsylvania Plaza	Jaxspan	385-11-6886	4,531	Nissan	Pathfinder	Khaki	
16	16 428 Meadow Ridge Alley	Mybuzz	632-59-2978	3,327	BMW	M3	Turquoise	

Save Cancel Script | IST en Writable | Smart Insert | 342 : 1 [33] | Sel: 33 | 1 | Rows: 1 1000 row(s) fetched - 148ms (47ms fetch), on 2022-10-09 8:30 PM 10/9/2022

72°F Rain to stop

2.EXCEL TO FLAT FILE USING ANOTHER DATA SOURCE

AutoSave Off CinemaTicket_Ref_Entertainment - Protected View

File Home Insert Page Layout Formulas Data Review View Help

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

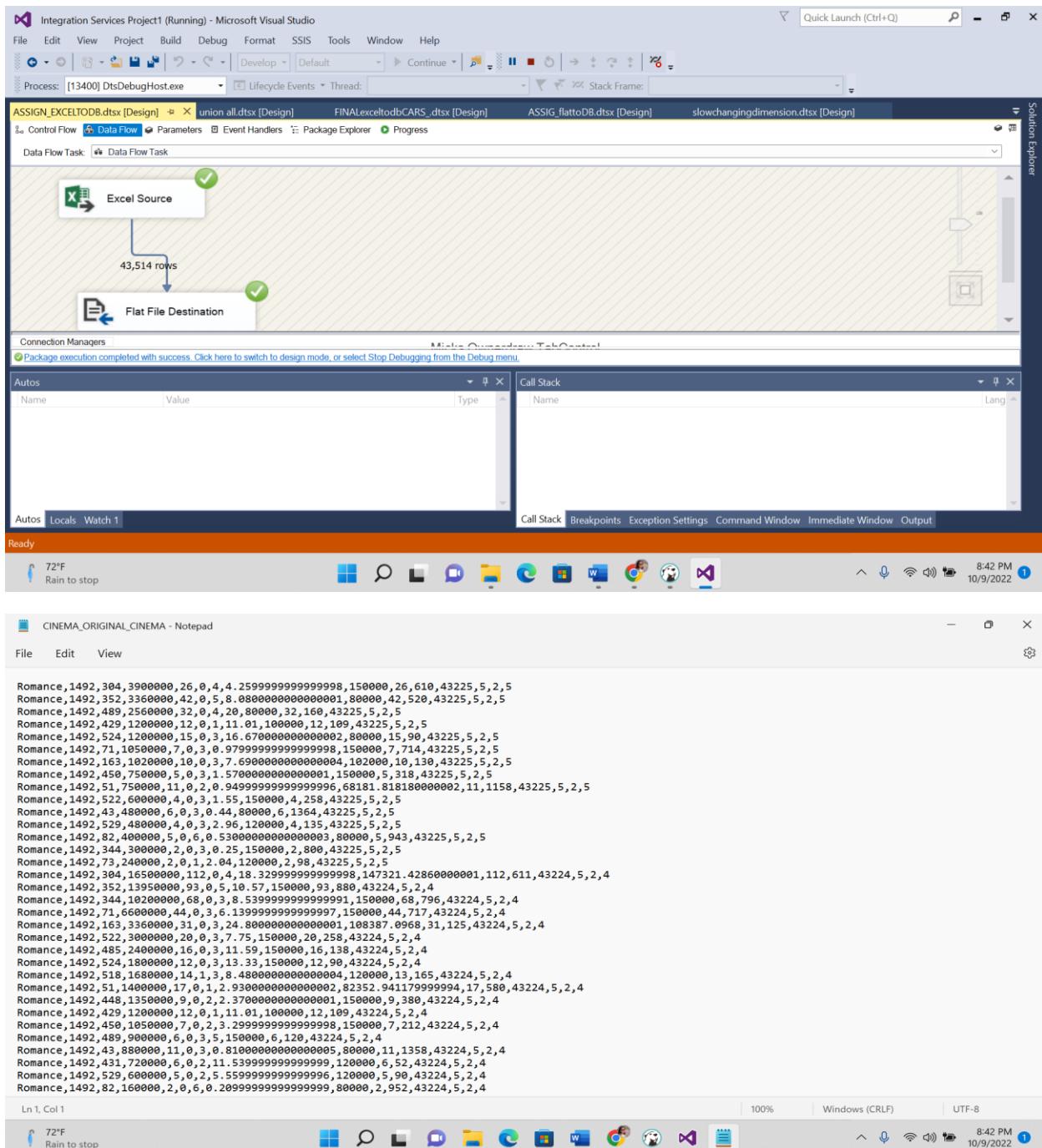
A1 Film_Type

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Film_Type	film_code	cinema_code	total_sales	tickets_sold	tickets_out	show_time	occu_perc	ticket_price	ticket_use	capacity	date	month	quarter	day		
2	Romance	1492	304	3900000	26	0	4	4.26	150000	26	610	43225	5	2	5		
3	Romance	1492	352	3360000	42	0	5	8.08	80000	42	520	43225	5	2	5		
4	Romance	1492	489	2560000	32	0	4	20	80000	32	160	43225	5	2	5		
5	Romance	1492	429	1200000	12	0	1	11.01	100000	12	109	43225	5	2	5		
6	Romance	1492	524	1200000	15	0	3	16.67	80000	15	90	43225	5	2	5		
7	Romance	1492	71	1050000	7	0	3	0.98	150000	7	714	43225	5	2	5		
8	Romance	1492	163	1020000	10	0	3	7.69	102000	10	130	43225	5	2	5		
9	Romance	1492	450	750000	5	0	3	1.57	150000	5	318	43225	5	2	5		
10	Romance	1492	51	750000	11	0	2	0.95	68181.81818	11	1158	43225	5	2	5		
11	Romance	1492	522	600000	4	0	3	1.55	150000	4	258	43225	5	2	5		
12	Romance	1492	43	480000	6	0	3	0.44	80000	6	1364	43225	5	2	5		
13	Romance	1492	529	480000	4	0	3	2.96	120000	4	135	43225	5	2	5		
14	Romance	1492	82	400000	5	0	6	0.53	80000	5	943	43225	5	2	5		
15	Romance	1492	344	300000	2	0	3	0.25	150000	2	800	43225	5	2	5		
16	Romance	1492	73	240000	2	0	1	2.04	120000	2	98	43225	5	2	5		
17	Romance	1492	304	1650000	112	0	4	18.33	147321.4286	112	611	43224	5	2	4		
18	Romance	1492	352	13950000	93	0	5	10.57	150000	93	880	43224	5	2	4		
19	Romance	1492	344	10200000	68	0	3	8.54	150000	68	796	43224	5	2	4		
20	Romance	1492	71	6600000	44	0	3	6.14	150000	44	717	43224	5	2	4		
21	Romance	1492	163	3360000	31	0	3	24.8	108387.0968	31	125	43224	5	2	4		
22	Romance	1492	522	3000000	20	0	3	7.75	150000	20	258	43224	5	2	4		
23	Romance	1492	485	2400000	16	0	3	11.59	150000	16	138	43224	5	2	4		
24	Romance	1492	524	1800000	12	0	3	13.33	150000	12	90	43224	5	2	4		
25	Romance	1492	518	1680000	14	1	3	8.48	120000	13	165	43224	5	2	4		
26	Romance	1492	51	1400000	17	0	1	2.93	82352.94118	17	580	43224	5	2	4		

CinemaTicket_Ref Entertainment

Ready

72°F Rain to stop



3.FLAT FILE TO DB

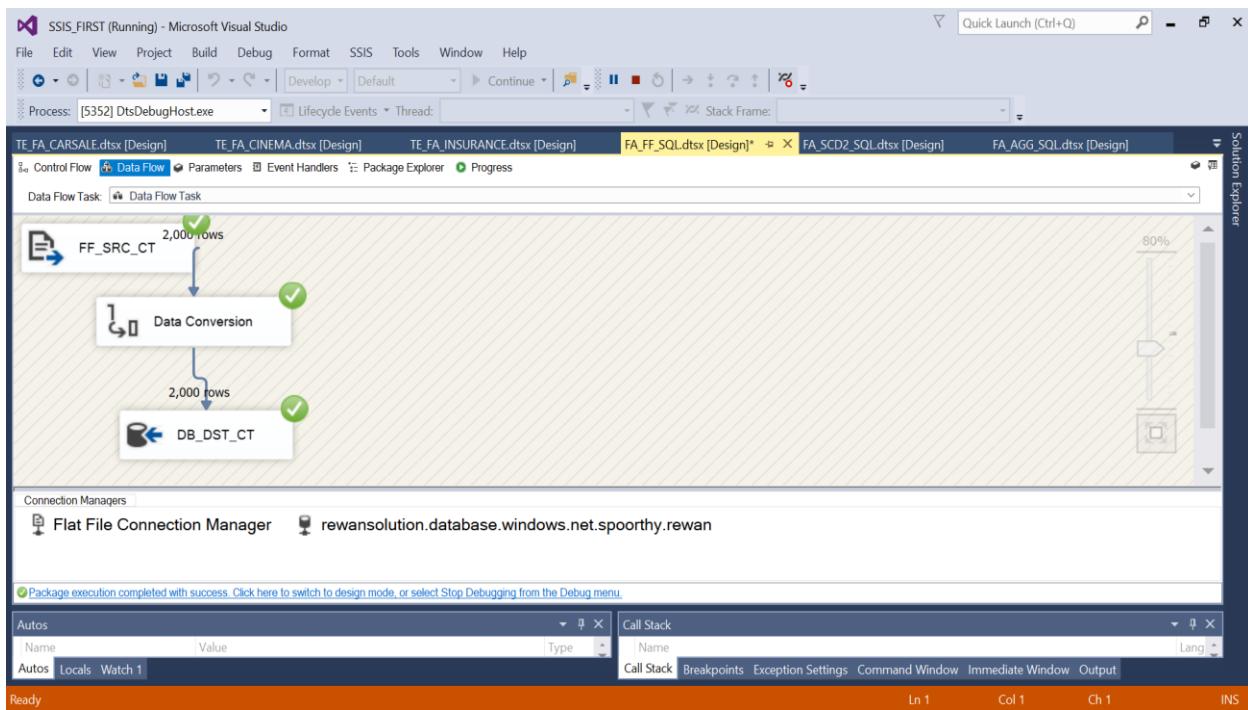
CINEMA_ORIGINAL_CINEMA - Notepad

File Edit View

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Romance,1492,304,3900000,26,0,4,4,2599999999999998,150000,26,610,43225,5,2,5
Romance,1492,352,3360000,42,0,5,8,0800000000000001,80000,42,520,43225,5,2,5
Romance,1492,489,2560000,32,0,4,20,80000,32,160,43225,5,2,5
Romance,1492,429,1200000,12,0,1,11,01,100000,12,109,43225,5,2,5
Romance,1492,524,1200000,15,0,3,16,67000000000002,80000,15,98,43225,5,2,5
Romance,1492,71,1050000,7,0,3,0,9799999999999998,150000,7,714,43225,5,2,5
Romance,1492,163,1820000,10,0,3,7,6900000000000004,162000,10,130,43225,5,2,5
Romance,1492,450,750000,5,0,3,1,5700000000000001,150000,5,318,43225,5,2,5
Romance,1492,51,750000,11,0,2,0,9499999999999996,68181,818180000002,11,1158,43225,5,2,5
Romance,1492,522,600000,4,0,3,1,55,150000,4,258,43225,5,2,5
Romance,1492,43,480000,6,0,6,0,5300000000000003,80000,5,943,43225,5,2,5
Romance,1492,529,480000,4,0,3,2,96,120000,4,135,43225,5,2,5
Romance,1492,82,400000,5,0,6,0,5300000000000003,80000,5,943,43225,5,2,5
Romance,1492,344,300000,2,0,3,0,25,150000,2,800,43225,5,2,5
Romance,1492,352,13950000,93,0,5,10,57,150000,93,880,43224,5,2,4
Romance,1492,344,1050000,68,0,3,8,5399999999999991,150000,68,796,43224,5,2,4
Romance,1492,71,6600000,44,0,3,6,1399999999999997,150000,44,717,43224,5,2,4
Romance,1492,163,3360000,31,0,3,24,8000000000000001,188387,0968,31,125,43224,5,2,4
Romance,1492,485,2400000,16,0,3,11,59,150000,16,138,43224,5,2,4
Romance,1492,524,1800000,12,0,1,13,33,150000,12,98,43224,5,2,4
Romance,1492,518,1680000,14,1,3,8,4800000000000004,120000,13,165,43224,5,2,4
Romance,1492,448,1350000,17,0,1,2,9300000000000002,82352,94117999994,17,580,43224,5,2,4
Romance,1492,429,1200000,12,0,1,11,01,160000,12,169,43224,5,2,4
Romance,1492,450,1850000,7,0,2,3,2999999999999998,150000,7,212,43224,5,2,4
Romance,1492,489,900000,6,0,3,5,150000,6,120,43224,5,2,4
Romance,1492,43,880000,11,0,3,0,8100000000000005,80000,11,1358,43224,5,2,4
Romance,1492,431,720000,6,0,2,11,5399999999999999,120000,6,52,43224,5,2,4
Romance,1492,529,600000,5,0,2,5,5599999999999996,120000,5,90,43224,5,2,4
Romance,1492,82,160000,2,0,6,0,2099999999999999,80000,2,952,43224,5,2,4
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Ln 1, Col 1 100% Windows (CRLF) UTF-8

72°F Rain to stop 8:42 PM 10/9/2022



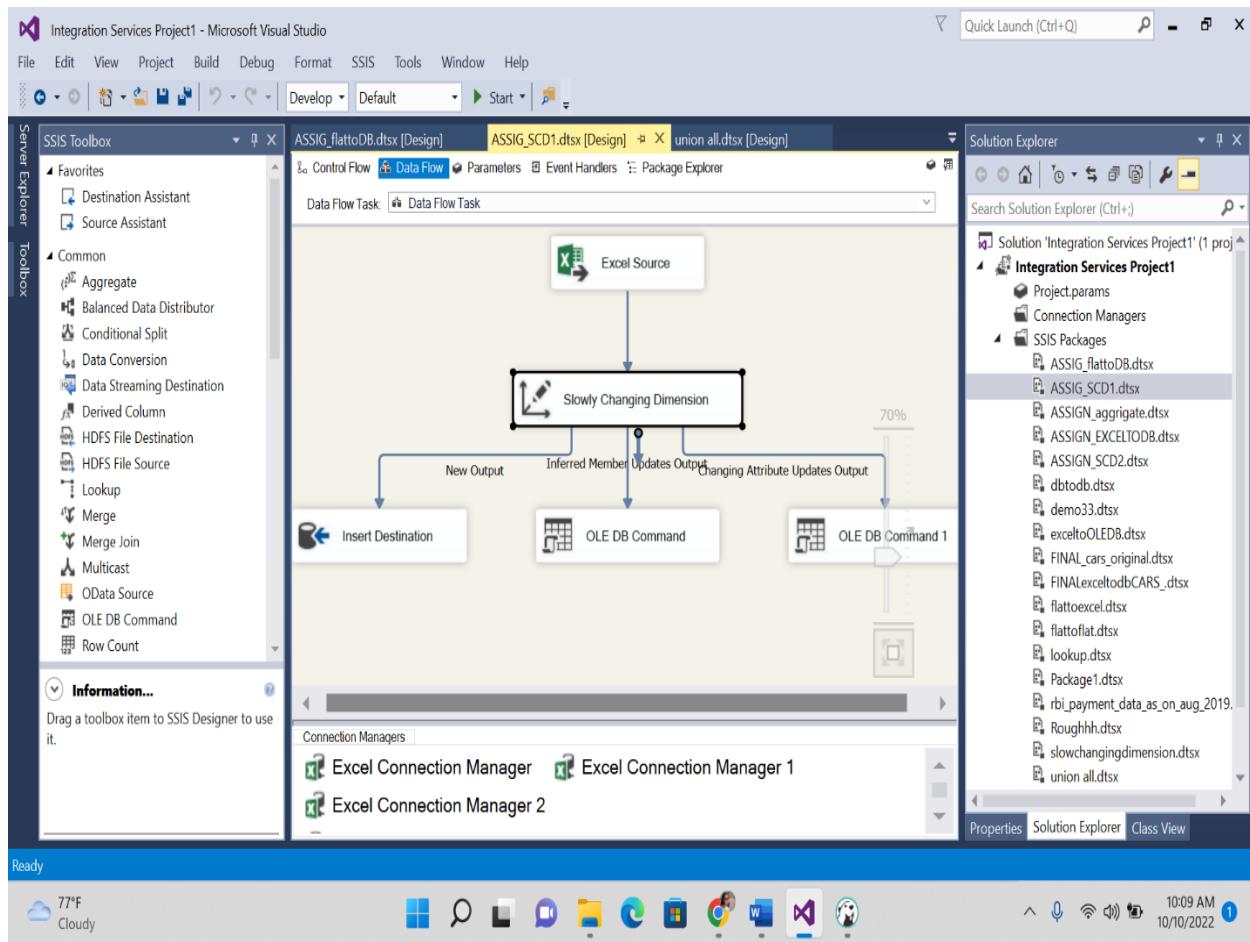
5. Perform SCD 1; SCD2 dimension table modelling.

SCD1

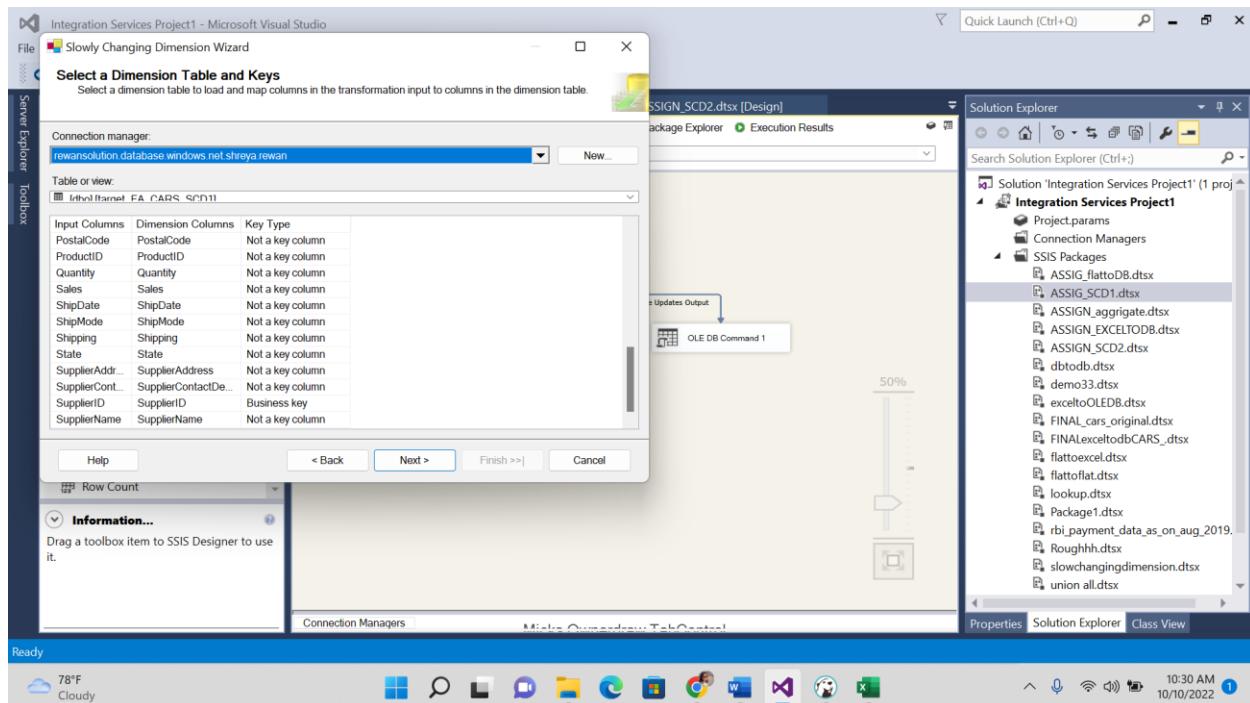
Source table- CarSalesShipmentDatasource_original

	A	B	C	D	E	F	G	H	I	J	K
1	SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID
2	1	542 Dayton Center	Bubbletube	871-57-6028	8893	Dodge	Ram 2500	Goldenrod	2007	521963.45	60760-224
3	2	0674 Springview Circle	Tagopia	337-64-4060	9444	Toyota	Tundra	Crimson	2010	672222.04	67457-594
4	3	70 Autumn Leaf Center	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	2011	504465.72	58411-135
5	4	649 Corben Lane	Oozz	635-15-3112	1283	Volkswagen	Cabriolet	Fuscia	1990	646077.11	0591-5307
6	5	94 Namekagon Point	Kare	849-23-6788	8905	Mercury	Mariner	Teal	2009	699890.24	51655-189
7	6	46347 Dunning Drive	Rhynyx	378-57-0118	8877	Toyota	Land Cruiser	Crimson	2005	694373.94	65811-0001
8	7	85 Coleman Parkway	Roombo	479-97-2408	101	Subaru	Impreza	Indigo	1999	546977.55	31722-328
9	8	30230 Westerfield Pass	Wordify	371-69-6870	8854	BMW	X6	Purple	2013	528353.8	54162-018
10	9	4 Coleman Street	Skyvu	717-19-7839	9043	Mitsubishi	Galant	Orange	2011	706964.35	44911-0060
11	10	100 Anhalt Place	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732
12	11	7 Esch Trail	Layo	547-88-4825	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015
13	12	6 Meadow Vale Center	Oyoyo	440-82-9219	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101
14	13	972 Pepper Wood Lane	Quatz	803-82-7568	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119
15	14	55262 Emmet Place	Gavvine	854-30-4179	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504
16	15	330 Pennsylvania Plaza	Jaxspan	385-11-6886	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059
17	16	428 Meadow Ridge Alley	Mybuzz	632-59-2978	3327	BMW	M3	Turquoise	2009	728986.85	68788-9728
18	17	26 Stuart Court	Gabcube	236-54-6347	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672
19	18	73 Bellfuss Road	Lazz	329-80-2609	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215
20	19	9 Lukken Way	Buzzdog	351-97-3917	2373	Toyota	Corolla	Aquamarine	2004	563380.63	37000-352
21	20	411 Coleman Circle	Yodel	298-99-8758	5839	Ford	Tempo	Turquoise	1998	686028.43	49288-0606
22	21	88 Katie Wav	Innojam	188-55-0225	1459	Mercedes-Benz	SL-Class	Turquoise	2009	526717.03	49693-1801

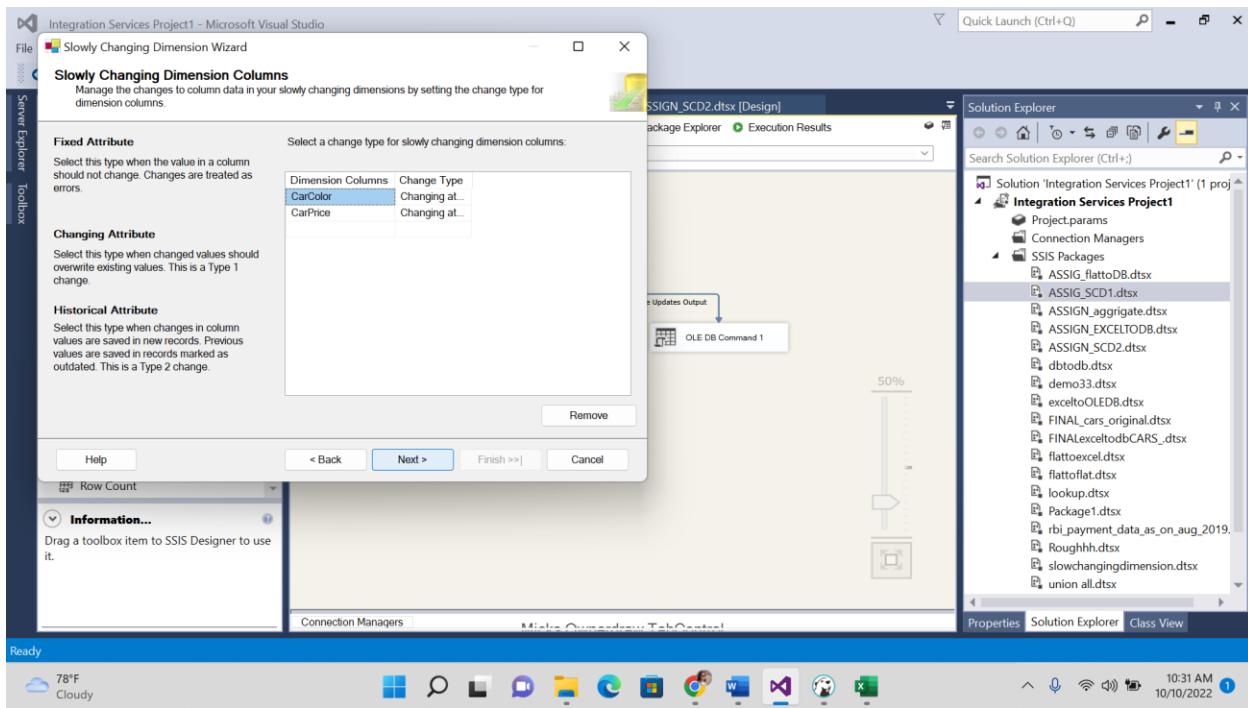
Performing SCD1



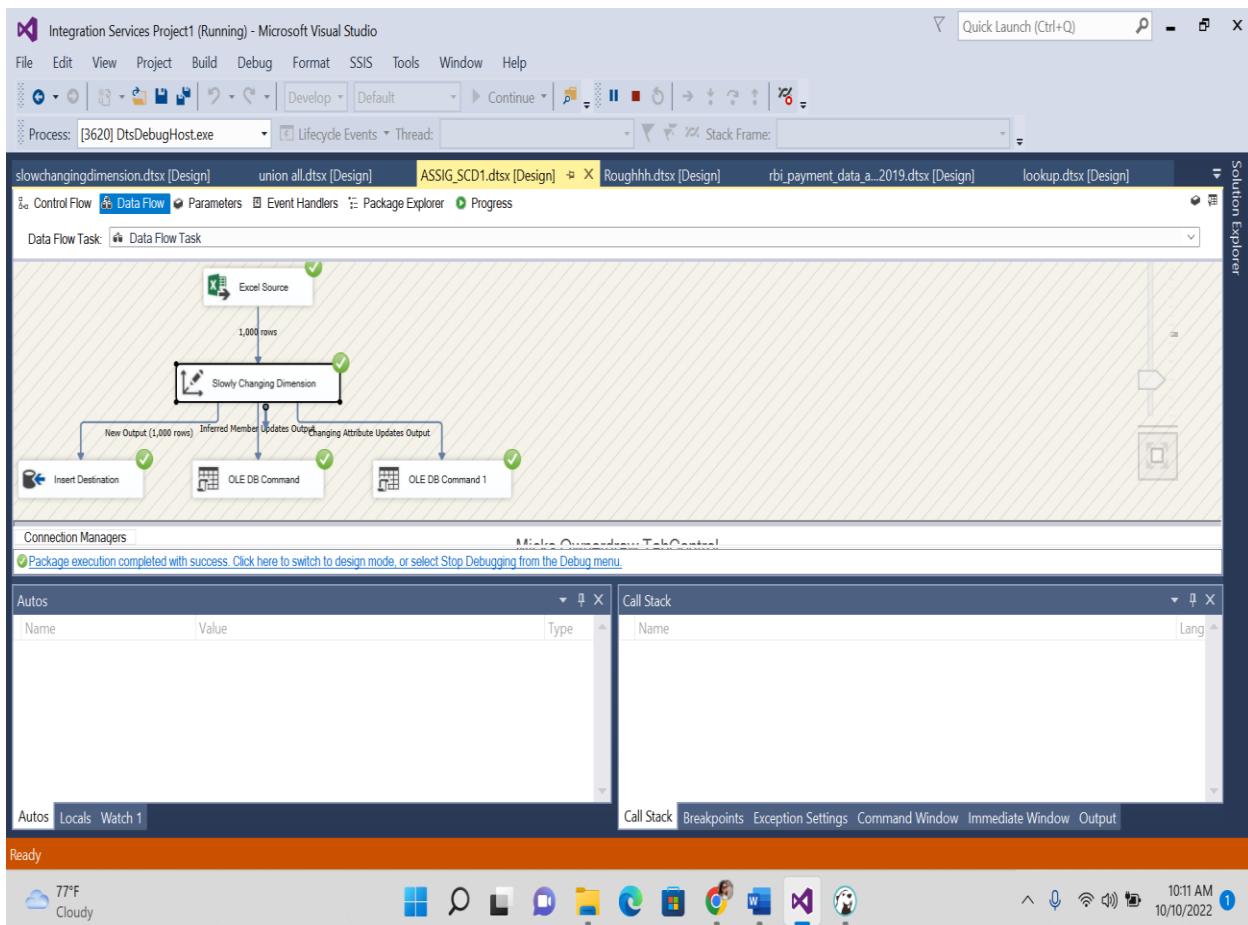
Setting the values



Setting CarColor and CarPrice attribute as changing attributes.



Executing the package.



DB output.

DBeaver 22.2.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects > <dlithe - rewansolution.database.windows.net> > <shreya - rewansolution.database.windows.net>

Results 1 x

Text

Grid

Table

1 Bubbletube 871-57-6028 8,893 Dodge Ram 2500 Red 2,007 343,434.88 60760-224

2 Tagopia 337-64-4060 9,444 Toyota Tundra Crimson 2,010 672,222.04 67457-594

3 Zoomdog 218-19-1802 253 GMC Savana 1500 Crimson 2,011 504,465.72 58411-135

4 Oozz 635-15-3112 1,283 Volkswagen Cabriolet Fuschia 1,990 646,077.11 0591-5307

5 Kare 849-23-6788 8,905 Mercury Mariner Teal 2,009 699,890.24 51655-189

6 Rhynyx 378-57-0118 8,877 Toyota Land Cruiser Crimson 2,005 694,373.94 65811-0001

7 Roomb0 479-97-2408 101 Subaru Impreza Indigo 1,999 546,977.55 31722-328

8 Wordify 371-69-6870 8,854 BMW X6 Purple 2,013 528,353.54 54162-018

9 Skyvu 717-19-7839 9,043 Mitsubishi Galant Orange 2,011 706,964.35 44911-0060

10 Feedfire 634-55-4653 492 Subaru Justy Crimson 1,988 798,573.59 54868-5732

11 Layo 547-88-4825 9,212 Mercedes-Benz M-Class Mauv 2,002 722,114.57 0955-1015

12 Oyoyo 440-82-9219 7,891 Ford Taurus X Crimson 2,008 761,182.85 54838-101

13 Quatz 803-82-7568 3,334 Mercedes-Benz CL-Class Red 2,011 568,015.89 49825-119

14 Gabvine 854-30-4179 8,898 Dodge Avenger Turquoise 2,008 646,591.02 54799-504

15 Jaxspan 385-11-6886 4,531 Nissan Pathfinder Khaki 2,002 670,304.84 43742-0059

16 Mybuzz 632-59-2978 3,327 BMW M3 Turquoise 2,009 728,986.85 68788-9728

17 Gabcub0 236-54-6347 7,975 Mercedes-Benz R-Class Puce 2,009 665,854.24 0228-2672

18 Lazz 329-80-2609 7,029 Honda FCX Clarity Yellow 2,012 707,705.42 21695-215

19 Buzzdog 351-97-3917 2,373 Toyota Corolla Aquamarine 2,004 563,380.63 37000-352

20 Yodel 298-99-8758 5,839 Ford Tempo Turquoise 1,988 686,028.43 49288-0606

21 Innojam 188-55-0225 1,459 Mercedes-Benz SL-Class Turquoise 2,009 526,717.03 49693-1801

22 Skidoo 192-42-0999 8,464 Chevrolet Monte Carlo Aquamarine 1,996 569,743.98 23155-141

23 Mynte 323-91-4731 7,705 Bentley Continental Flyr Fuschia 2,009 649,917 65517-0027

Record

Save Cancel Script IST en Writable Smart Insert 10 : 36 : 132 Rows: 1 200 row(s) fetched - 317ms (76ms fetch), on 2022-11-10 10:11 AM 10/10/2022

Cloudy 77°F

CHANGING THE VALUES OF

CAR COLOR =PINK AND CARPRICE = 11111.77 WHERE SUPPLIER_ID=1,

CAR COLOR =WHITE WHERE SUPPLIER_ID=2 IN SOURCE FILE.

FINAL_1000_CARS - Compatibility Mode

File Home Insert Page Layout Formulas Data Review View Help

H3

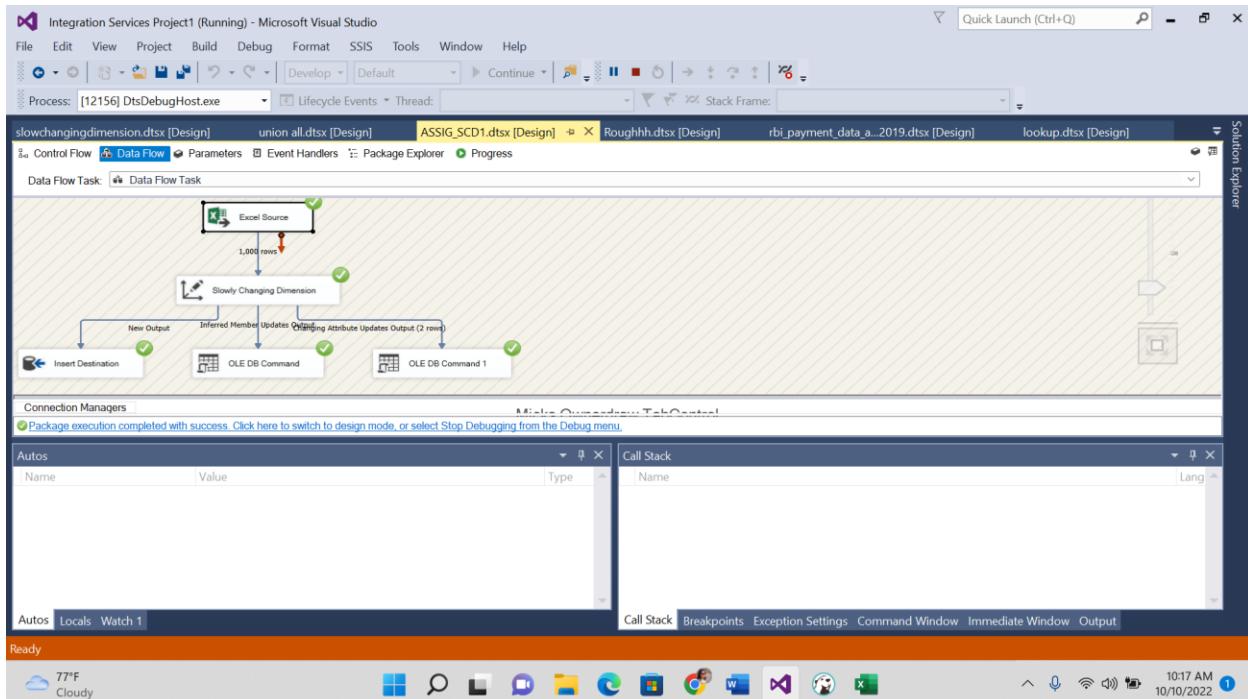
	D	E	F	G	H	I	J	K	L	M	N
1	SupplierContactDetails	ProductId	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID	CustomerName	Gender	JobTitle
2	871-57-6028	8893	Dodge	Ram 2500	PINK	2010	11111.77	60760-224	Louie Hinsche	Male	Mechanical Systems Engineer
3	337-64-4060	9444	Toyota	Tundra	WHITE	2010	672222.04	67457-594	Alexandros Manuel	Male	Structural Engineer
4	218-19-1802	253	GMC	Savana 1500	Crimson	2011	504465.72	58411-135	Alvie Weighell	Male	Systems Administrator III
5	635-15-3112	1283	Volkswagen	Cabriolet	Fuschia	1990	646077.11	0591-5307	Flint Gunston	Male	Operator
6	849-23-6788	8905	Mercury	Mariner	Teal	2009	699890.24	51655-189	Alyssa Filpi	Female	Software Engineer III
7	378-57-0118	8877	Toyota	Land Cruiser	Crimson	2005	694373.94	65811-0001	Witt Piche	Male	Professor
8	479-97-2408	101	Subaru	Impreza	Indigo	1999	546977.55	31722-328	Findlay Alberti	Male	Biostatistician III
9	371-69-6870	8854	BMW	X6	Purple	2013	528353.8	54162-018	Ottlie Wittman	Female	Administrative Officer
10	717-19-7839	9043	Mitsubishi	Galant	Orange	2011	706964.35	44911-0060	Kirsten Calvey	Female	Assistant Manager
11	634-55-4653	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732	Archer Lansborough	Male	Speech Pathologist
12	547-88-4825	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015	Duff Dodgshun	Male	Developer I
13	440-82-9219	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101	Barry Delves	Female	Analog Circuit Design manager
14	803-82-7568	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119	Libby Divell	Female	VP Sales
15	854-30-4179	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504	Demetria Hazelgrove	Female	Human Resources Assistant IV
16	385-11-6886	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059	Craig Wreakes	Male	Internal Auditor
17	632-59-2978	3327	BMW	M3	Turquoise	2009	728986.85	68788-9728	Erv Manville	Male	Senior Developer
18	236-54-6347	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672	Mychal Zanetti	Male	Social Worker
19	329-80-2609	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215	Jermain Proudman	Male	Senior Editor
20	351-97-3917	2373	Toyota	Corolla	Aquamarine	2004	563380.62	37000-352	Luuka Dundin	Female	Desktop Support Technician
21	298-99-8758	5839	Ford	Tempo	Turquoise	1988	686028.43	49288-0606	Timmy Duck	Female	Payment Adjustment Coordinator
22	188-55-0225	1459	Mercedes-Benz	SL-Class	Turquoise	2009	526717.03	49693-1801	Barbee Cathel	Female	Chemical Engineer

Car Sales & Shipment Datasource

Ready Accessibility:Unavailable

Cloudy 77°F

Performing SCD1.



OUTPUT IN DB.

TARGET FILE = target_FA_CARS_SCD1

DBeaver 22.2.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects

Enter a part of object name here

Results 1 x

select * from target_FA_CARS_SCD1 Enter a SQL expression to filter results (use Ctrl+Space)

	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID
1	Bubbletub	871-57-6028	8,893	Dodge	Ram 2500	PINK	2,007	11,111.71	60760-224
2	Tagopia	337-64-4060	9,444	Toyota	Tundra	WHITE	2,010	672,222.04	6757-594
3	Zoomdog	218-19-1802	253	GMC	Savana 1500	Crimson	2,011	504,465.72	58411-135
4	Oozz	635-15-3112	1,283	Volkswagen	Cabriolet	Fuscia	1,990	646,077.11	0591-5307
5	Kare	849-23-6788	8,905	Mercury	Mariner	Teal	2,009	699,890.24	51655-189
6	Rhynyx	378-57-0118	8,877	Toyota	Land Cruiser	Crimson	2,005	694,373.94	58511-0001
7	Roomb0	479-97-2408	101	Subaru	Impreza	Indigo	1,999	546,977.55	31722-328
8	Wordify	371-69-6870	8,854	BMW	X6	Purple	2,013	528,353.8	54162-018
9	Skyvu	717-19-7839	9,043	Mitsubishi	Galant	Orange	2,011	706,964.35	44911-0060
10	Feedfire	634-55-4653	492	Subaru	Justy	Crimson	1,988	798,573.59	54868-5732
11	Layo	547-88-4825	9,212	Mercedes-Benz	M-Class	Mauv	2,002	722,114.57	0955-1015
12	Oyoyo	440-82-9219	7,891	Ford	Taurus X	Crimson	2,008	761,182.85	54838-101
13	Quatz	803-82-7568	3,334	Mercedes-Benz	CL-Class	Red	2,011	568,015.89	49825-119
14	Gavbine	854-30-4179	8,898	Dodge	Avenger	Turquoise	2,008	646,591.02	54799-504
15	Jaxspan	385-11-6886	4,531	Nissan	Pathfinder	Khaki	2,002	670,304.84	43742-0059
16	Mybuzz	632-59-2978	3,327	BMW	M3	Turquoise	2,009	728,986.85	68788-9728
17	Gabcube	236-54-6347	7,975	Mercedes-Benz	R-Class	Puce	2,009	665,854.24	0228-2672
18	Lazz	329-80-2609	7,029	Honda	FCX Clarity	Yellow	2,012	707,705.42	21695-215
19	Buzzdog	351-97-3917	2,373	Toyota	Corolla	Aquamarine	2,004	563,380.63	37000-352
20	Yodel	298-99-8758	5,839	Ford	Tempo	Turquoise	1,988	686,028.43	49288-0606
21	Innojam	188-55-0225	1,459	Mercedes-Benz	SL-Class	Turquoise	2,009	526,717.03	49693-1801
22	Skidoo	192-42-0999	8,464	Chevrolet	Monte Carlo	Aquamarine	1,996	569,743.98	23155-141
23	Mynte	323-91-4731	7,705	Bentley	Continental Flyr Fuscia	2,009	649,917	65517-0027	

SD2

Source file = FINAL_1000_CARS

J14 E F G H I J K L M N

	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID	CustomerName	Gender	JobTitle
1	871-57-6028	8893	Dodge	Ram 2500	PINK	2007	11111.77	60760-224	Louie Hinsche	Male	Mechanical Systems Engineer
2	337-64-4060	9444	Toyota	Tundra	WHITE	2010	67222.04	67457-594	Alexandros Manuel	Male	Structural Engineer
3	218-19-1802	253	GMC	Savana 1500	Crimson	2011	504465.75	58411-135	Alvie Weighell	Male	Systems Administrator III
4	635-15-3112	1283	Volkswagen	Cabriolet	Fuscia	1990	646077.11	0591-5307	Flint Gunston	Male	Operator
5	849-23-6788	8905	Mercury	Mariner	Teal	2009	699890.24	51655-189	Alyssa Filpi	Female	Software Engineer III
6	378-57-0118	8877	Toyota	Land Cruiser	Crimson	2005	694373.94	65811-0001	Wiat Piche	Male	Professor
7	479-97-2408	101	Subaru	Impreza	Indigo	1999	546977.55	31722-328	Findlay Alberti	Male	Biostatistician III
8	371-69-6870	8854	BMW	X6	Purple	2013	528353.8	54162-018	Ottilie Wittman	Female	Administrative Officer
9	717-19-7839	9043	Mitsubishi	Galant	Orange	2011	706964.35	44911-0060	Kirsten Calvey	Female	Assistant Manager
10	634-55-4653	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732	Archer Lansborough	Male	Speech Pathologist
11	547-88-4825	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015	Duff Dogdshun	Male	Developer I
12	440-82-9219	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101	Barry Delves	Female	Analog Circuit Design manager
13	803-82-7568	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119	Libbey Divell	Female	VP Sales
14	854-30-4179	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504	Demetria Hazelgrove	Female	Human Resources Assistant IV
15	385-11-6886	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059	Creigh Wreakes	Male	Internal Auditor
16	632-59-2978	3327	BMW	M3	Turquoise	2009	728986.85	68788-9728	Erv Manville	Male	Senior Developer
17	236-54-6347	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672	Mychal Zanetti	Male	Social Worker
18	329-80-2609	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215	Jermain Proudman	Male	Senior Editor
19	351-97-3917	2373	Toyota	Corolla	Aquamarine	2004	563380.63	37000-352	Liuka Dundin	Female	Desktop Support Technician
20	298-99-8758	5839	Ford	Tempo	Turquoise	1988	686028.43	49288-0606	Timmy Duck	Female	Payment Adjustment Coordinator
21	188-55-0225	1459	Mercedes-Benz	SL-Class	Turquoise	2009	526717.03	49693-1801	Barbee Cathel	Female	Chemical Engineer

CREATING TARGET TABLE IN DATABASE.

Target file = FA_CARS_SCD2

```

CREATE TABLE FA_CARS_SCD2 (
    [SupplierID] float,
    [SupplierAddress] nvarchar(255),
    [SupplierName] nvarchar(255),
    [SupplierContactDetails] nvarchar(255),
    [ProductID] float,
    [CarMaker] nvarchar(255),
    [CarModel] nvarchar(255),
    [CarColor] nvarchar(255),
    [CarModelYear] float,
    [CarPrice] float,
    [CustomerID] nvarchar(255),
    [CustomerName] nvarchar(255),
    [Gender] nvarchar(255),
    [JobTitle] nvarchar(255),
    [PhoneNumber] nvarchar(255),
    [EmailAddress] nvarchar(255),
)

```

Results 1 ×

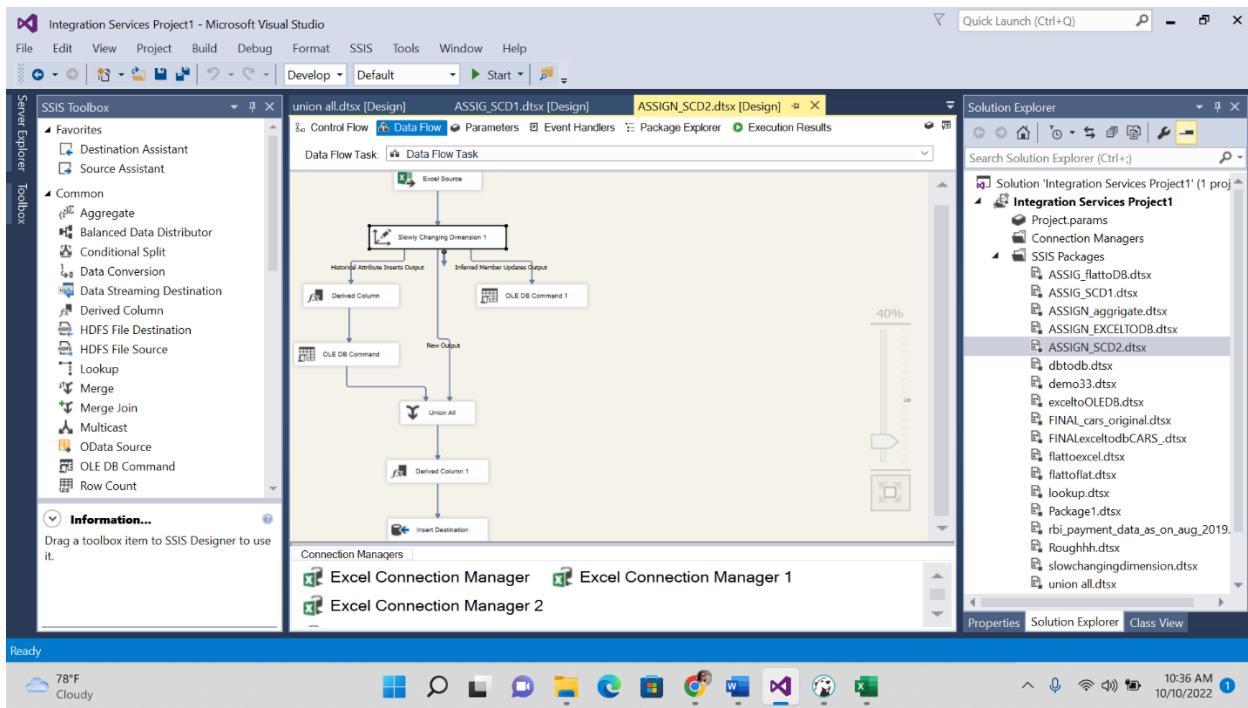
```

select * from FA_CARS_SCD2

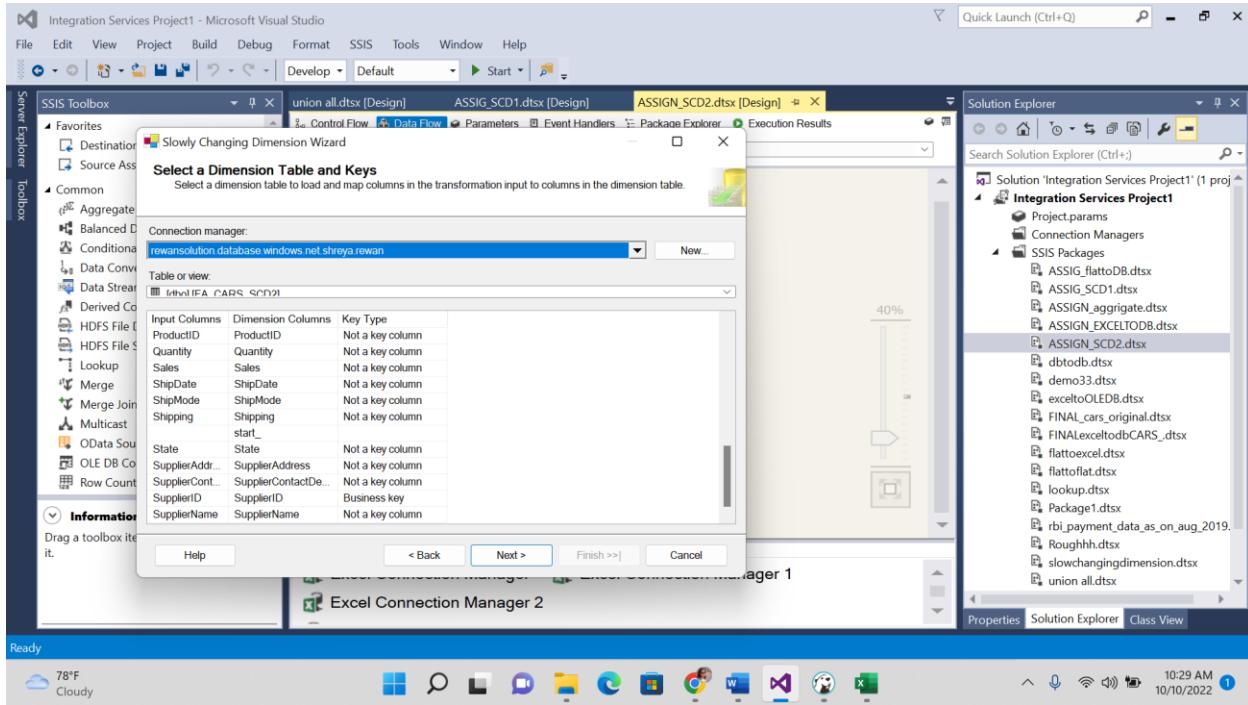
```

SupplierID	SupplierAddress	SupplierName	SupplierContactDetails	ProductID	CarMaker	CarModel	CarColor	CarModelYear

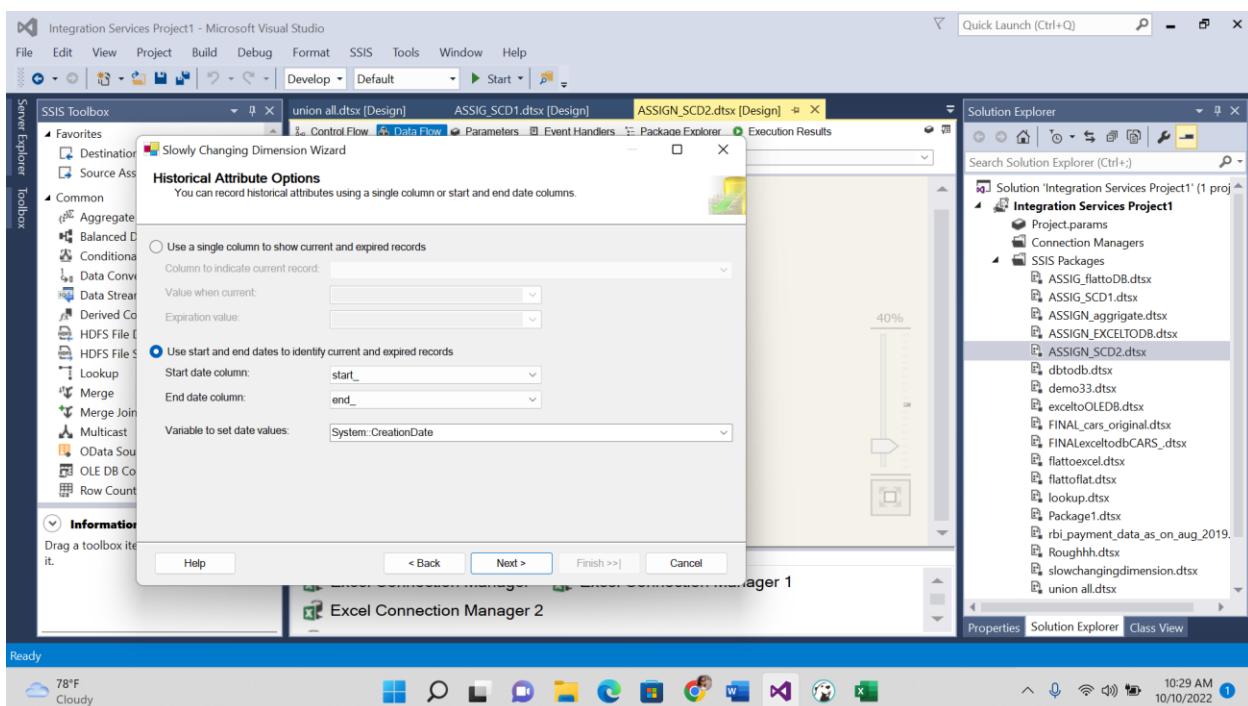
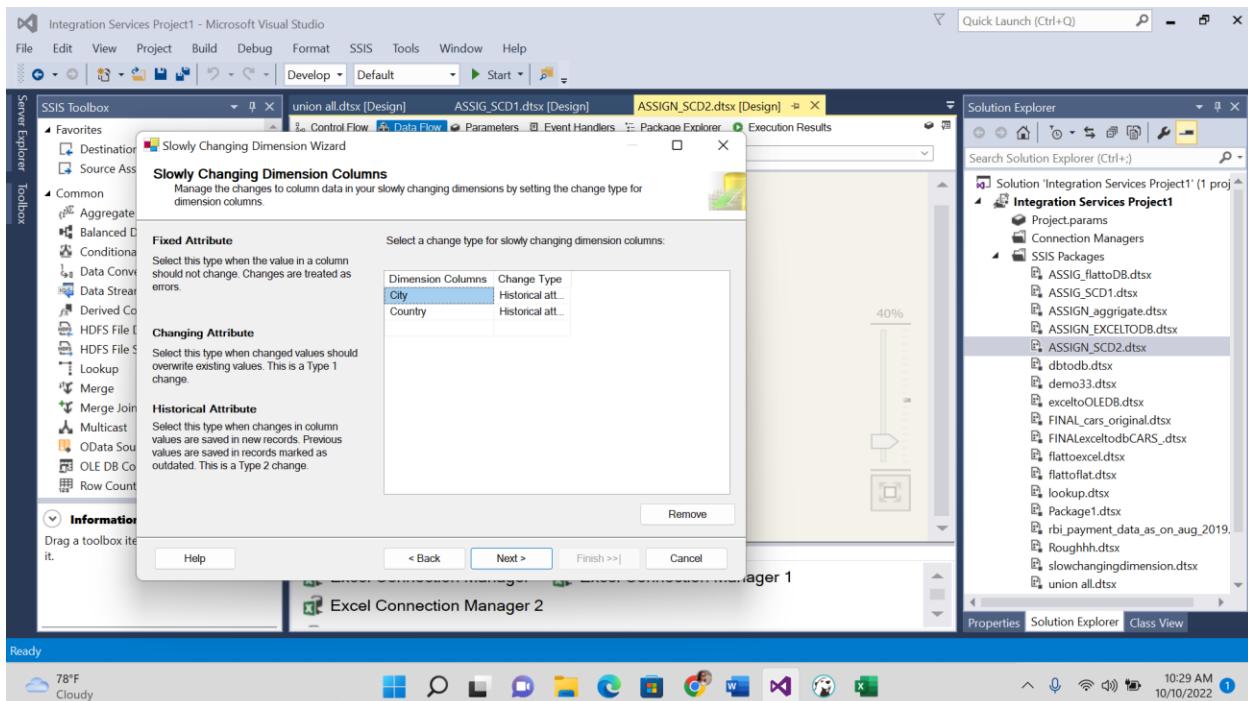
PERFORMING SCD2.



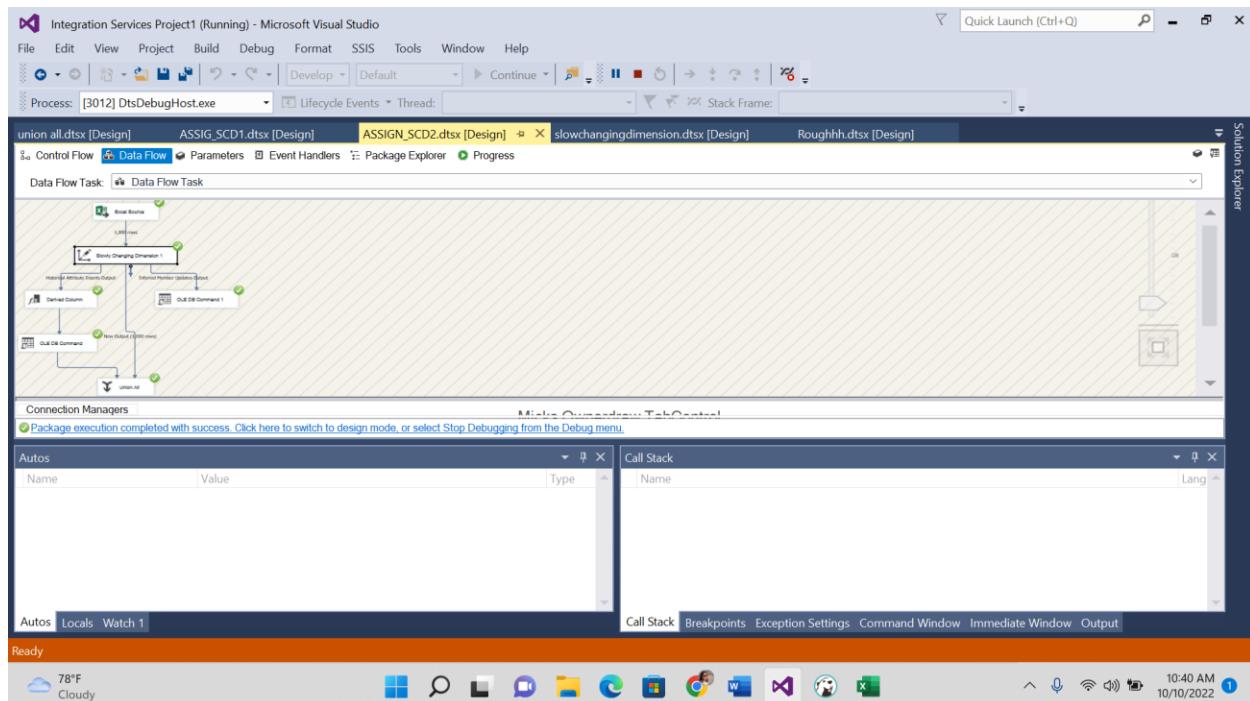
SETTING THE VALUES.



SETTING CITY ,COUNTRY ATTRIBUTES TO HISTORICAL ATTRIBUTES.



Executing the package.



OUTPUT IN DESTINATION DB.

Changing the attribute value of

City=Bangalore and country=India where supplier_id=1,

City=Mysore and country=India where supplier_id=2,

in source file.

Screenshot of Microsoft Excel showing a table titled "Car Sales & Shipment Datasource". The table contains data from columns O to X, including columns for Phone Number, Email Address, City, Country, Country Code, State, Customer Address, Order Date, Order ID, and Ship Date. The "State" column is highlighted in yellow.

O	P	Q	R	S	T	U	V	W	X	
1	PhoneNumber	EmailAddress	City	Country	CountryCode	State	CustomerAddress	OrderDate	OrderID	ShipDate
2	907-966-3323	lhinsche@comcast.net	Bangalore	India	US	Alaska	1 Independence Circle	43450	0268-6694	43538
3	320-943-9301	amanuel1@usnews.com	Mysore	India	US	Minnesota	209 Lerdahl Alley	43509	0699-5728	43530
4	312-561-8337	aweghelli2@nature.com	Chicago	United States	US	Illinois	1803 Evergreen Trail	43328	42043-251	43485
5	407-830-3175	fgunston3@mozilla.org	Orlando	United States	US	Florida	9682 Warbler Terrace	43518	57520-1044	43540
6	313-870-7247	afilipi4@webs.com	Detroit	United States	US	Michigan	5751 Tony Avenue	43349	36987-3308	43494
7	404-590-7068	wpiche5@deviantart.com	Atlanta	United States	US	Georgia	26066 Valley Edge Parkway	43328	11822-0580	43548
8	617-524-1910	falberti6@google.com.br	Boston	United States	US	Massachusetts	60797 Rowland Pass	43540	24909-111	43489
9	304-526-4427	owittman7@nps.gov	Charleston	United States	US	West Virginia	0 Sachs Court	43281	49527-013	43466
10	623-594-6668	kcalvey8@google.cn	Phoenix	United States	US	Arizona	0 Maywood Center	43408	52125-325	43481
11	408-440-1522	alandsborough9@chron.com	San Jose	United States	US	California	04 Knutson Drive	43428	45802-283	43520
12	973-213-3415	ddodgshuna@imgur.com	Newark	United States	US	New Jersey	8104 Colorado Avenue	43608	50563-202	43553
13	315-420-4107	bdevels@zimbio.com	Syracuse	United States	US	New York	7265 Buell Trail	43436	60512-1035	43605
14	304-984-5742	livellic@blog.com	Charleston	United States	US	West Virginia	26 Mitchell Center	43633	54868-6162	43486
15	785-371-7195	dhazelgroved@theatlantic.com	Topeka	United States	US	Kansas	25 Dapin Lane	43580	57955-8315	43602
16	202-159-8703	cwrighte@mtv.com	Washington	United States	US	District of Columbia	9 Nelson Parkway	43324	58118-0404	43472
17	423-655-8690	emanvillef@shareasale.com	Chattanooga	United States	US	Tennessee	98287 Tennessee Place	43437	65862-082	43617
18	937-749-6041	mzannettig@dropbox.com	Dayton	United States	US	Ohio	68 Prairieview Way	43318	50169-0005	43517
19	920-861-3234	jprodmahn@independent.co.uk	Appleton	United States	US	Wisconsin	064 Everett Circle	43570	49404-204	43605
20	615-169-0681	ldundini@hc360.com	Murfreesboro	United States	US	Tennessee	8972 Rieder Terrace	43619	0363-0459	43585
21	410-914-0768	tduckj@mapquest.com	Annapolis	United States	US	Maryland	90 Mendota Park	43416	57955-2282	43548
22	812-935-0173	bcathelk@apainewiale.it	Bloomington	United States	US	Indiana	618 Bunting Court	43437	28107-003	43616

Executing the package .

The values of particular attributes has changed successfully in destination output.

Screenshot of DBeaver 22.2.0 showing the execution of an SSIS package. The SQL Editor window displays the following T-SQL code:

```


--> drop table FA_CARS_SCD2;
--> select * from FA_CARS_SCD2;
--> alter table FA_CARS_SCD2 add start_date;
--> alter table FA_CARS_SCD2 add end_date;


```

The Results 1 window shows the data from the FA_CARS_SCD2 table, which includes columns for JobTitle, PhoneNumber, EmailAddress, City, Country, CountryCode, State, CustomerAddress, OrderDate, and OrderID. The data is identical to the one shown in the Excel screenshot above.

JobTitle	PhoneNumber	EmailAddress	City	Country	CountryCode	State	CustomerAddress	OrderDate	OrderID
Mechanical Sy	907-966-3323	lhinsche0@comcast.net	Bangalore	India	US	Alaska	1 Independence Circle	43,450	0268-669
Structural Eng	320-943-9301	amanuel1@usnews.com	Mysore	India	US	Minnesota	209 Lerdahl Alley	43,509	0699-572
Systems Admin	312-561-8337	aweghelli2@nature.com	Chicago	United States	US	Illinois	1803 Evergreen Trail	43,328	42043-25
Operator	407-830-3175	fgunston3@mozilla.org	Orlando	United States	US	Florida	9682 Warbler Terrace	43,518	57520-10
Software Eng	313-870-7247	afilipi4@webs.com	Detroit	United States	US	Michigan	5751 Tony Avenue	43,349	36987-33
Professor	404-590-7068	wpiche5@deviantart.com	Atlanta	United States	US	Georgia	26066 Valley Edge Parkv	43,328	11822-058
Biostatistician	617-524-1910	falberti6@google.com.br	Boston	United States	US	Massachusetts	60797 Rowland Pass	43,540	24909-111
Administrativ	304-526-4427	owittman7@nps.gov	Charleston	United States	US	West Virgin	0 Sachs Court	43,281	49527-013

Start_ and End_ attribute values are updated now.

DBBeaver 22.2.0 - <shreya> SSIS.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <shreya> Auto shreya dbo:shreya

<dlithe> queries.sql <shreya> Script-1... <shreya> SSIS.sql <shreya> Viewss.s... Cinema_ASSIGN_data <shreya> IISC.sql <shreya> DDL/DML...

Enter a part of object name here

Results 1 x

select * from FA_CARS_SCD2: Enter a SQL expression to filter results (use Ctrl+Space)

Grid	Shipping	PostalCode	Sales	Quantity	Discount	CreditCardType	CreditCard	CustomerFeedback	start_	end_
1	Truck	99.522	744,796.41	1	0.83	diners-club-carte-blanc	408,000,000.000	Bad	2022-10-07	022-10-07
2	Truck	56,398	794,773.17	1	0.79	jcb	220,000,000.000	Good	2022-10-07	022-10-07
3	Air	60,674	968,244.9	1	0.28	jcb	160,000,000.000	Okay	2022-10-07	[NULL]
4	Truck	32,885	942,213.82	2	0.76	jcb	910,000,000.000	Very Bad	2022-10-07	[NULL]
5	Air	48,232	879,519.57	1	0.5	china-unionpay	240,000,000.000	Bad	2022-10-07	[NULL]
6	Air	31,136	947,785.4	2	0.39	laser	250,000,000.000	Good	2022-10-07	[NULL]
7	Truck	2,208	883,836.81	2	0.79	diners-club-carte-blanc	528,100,000.000	Very Bad	2022-10-07	[NULL]
8	Truck	25,336	779,626.29	1	0.9	jcb	140,000,000.000	Bad	2022-10-07	[NULL]
9	Air	85,035	818,364.32	2	0.5	jcb	050,000,000.000	Okay	2022-10-07	[NULL]
10	Truck	95,113	902,866.47	1	0.61	jcb	730,000,000.000	Very Bad	2022-10-07	[NULL]
11	Air	7,112	932,957.69	1	0.62	diners-club-enroute	441,000,000.000	Very Bad	2022-10-07	[NULL]
12	Truck	13,217	743,643.26	2	0.61	jcb	310,000,000.000	Okay	2022-10-07	[NULL]
13	Truck	25,331	856,186.55	2	0.81	diners-club-enroute	524,000,000.000	Good	2022-10-07	[NULL]
14	Air	66,642	703,359.96	1	0.88	jcb	460,000,000.000	Good	2022-10-07	[NULL]
15	Air	20,005	832,581.18	2	0.44	jcb	070,000,000.000	Good	2022-10-07	[NULL]
16	Air	37,416	948,098.46	2	0.84	visa	041,370,000,000	Good	2022-10-07	[NULL]
17	Air	45,470	856,069.09	2	0.63	china-unionpay	210,000,000.000	Very Good	2022-10-07	[NULL]
18	Air	54,915	749,727.44	1	0.64	mastercard	350,000,000.000	Very Good	2022-10-07	[NULL]
19	Air	37,131	758,563.82	2	0.56	jcb	070,000,000.000	Very Good	2022-10-07	[NULL]
20	Truck	21,405	927,054.81	2	0.83	jcb	380,000,000.000	Bad	2022-10-07	[NULL]
21	Air	47,405	979,571.33	2	0.4	china-unionpay	100,000,000.000	Bad	2022-10-07	[NULL]
22	Air	90,405	718,907.78	1	0.39	jcb	760,000,000.000	Good	2022-10-07	[NULL]
23	Truck	47,725	736,530.42	2	0.89	maestro	000,000,000.000	Very Good	2022-10-07	[NULL]
...										

Record

Save Cancel Script | IST en Writable Smart Insert Rows: 2 200 row(s) fetched - 110ms (6ms fetch), on 2022-10-10 94 : 28 [27] Sel: 27 | 1

Cloudy 78°F 10:48 AM 10/10/2022

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

Source file = Cinema_Ticket_FF (flat file).

Cinema_Ticket_FF - Notepad

File Edit View

Film_Type,film_code,cinema_code,total_sales,tickets_sold,tickets_out,show_time,occu_perc,ticket_price,ticket_use,capacity,date,month,quarter,day

Romance,1492,304,3900000,26,0,4,4.2599999999999998,150000,26,610,43225,5,2,5

Romance,1492,352,3360000,42,0,5,8.0800000000000001,80000,42,520,43225,5,2,5

Romance,1492,489,2560000,32,0,4,20,80000,32,160,43225,5,2,5

Romance,1492,429,1200000,12,0,1,11,01,100000,12,109,43225,5,2,5

Romance,1492,524,1200000,15,0,3,16,67000000000002,80000,15,98,43225,5,2,5

Romance,1492,71,1050000,7,0,3,0,9799999999999998,150000,7,714,43225,5,2,5

Romance,1492,163,1820000,10,0,3,7,69000000000004,102000,10,130,43225,5,2,5

Romance,1492,458,750000,5,0,3,1,57000000000001,150000,5,318,43225,5,2,5

Romance,1492,51,750000,11,0,2,0,9499999999999996,68181,81810000002,11,1158,43225,5,2,5

Romance,1492,522,600000,4,0,3,1,55,150000,4,258,43225,5,2,5

Romance,1492,43,480000,6,0,3,0,44,80000,6,1364,43225,5,2,5

Romance,1492,529,480000,4,0,3,2,96,120000,4,135,43225,5,2,5

Romance,1492,82,400000,5,0,6,0,530000000000003,80000,5,943,43225,5,2,5

Romance,1492,344,380000,2,0,3,0,25,150000,2,800,43225,5,2,5

Romance,1492,73,2400000,2,0,1,2,04,120000,2,98,43225,5,2,5

Romance,1492,304,1650000,112,0,4,18,3299999999999998,147321,42860000001,112,611,43224,5,2,4

Romance,1492,352,13950000,93,0,5,10,57,150000,93,880,43224,5,2,4

Romance,1492,344,18200000,68,0,3,8,5399999999999991,150000,68,796,43224,5,2,4

Romance,1492,71,6600000,44,0,3,6,1399999999999997,150000,44,717,43224,5,2,4

Romance,1492,163,3360000,31,0,3,24,80000000000001,108387,0968,31,125,43224,5,2,4

Romance,1492,522,3000000,20,0,3,7,75,150000,20,258,43224,5,2,4

Romance,1492,485,2400000,16,0,3,11,59,150000,16,138,43224,5,2,4

Romance,1492,524,1800000,12,0,3,13,00000,12,90,43224,5,2,4

Romance,1492,518,1680000,14,1,3,8,480000000000004,120000,13,165,43224,5,2,4

Romance,1492,51,1400000,17,0,1,2,930000000000002,82352,94117999994,17,580,43224,5,2,4

Romance,1492,448,1350000,9,0,2,2,37000000000001,150000,9,388,43224,5,2,4

Romance,1492,429,1200000,12,0,1,11,01,100000,12,109,43224,5,2,4

Romance,1492,458,1050000,7,0,2,3,2999999999999998,150000,7,212,43224,5,2,4

Romance,1492,489,980000,6,0,3,5,150000,6,128,43224,5,2,4

Romance,1492,43,880000,11,0,3,0,810000000000005,80000,11,1358,43224,5,2,4

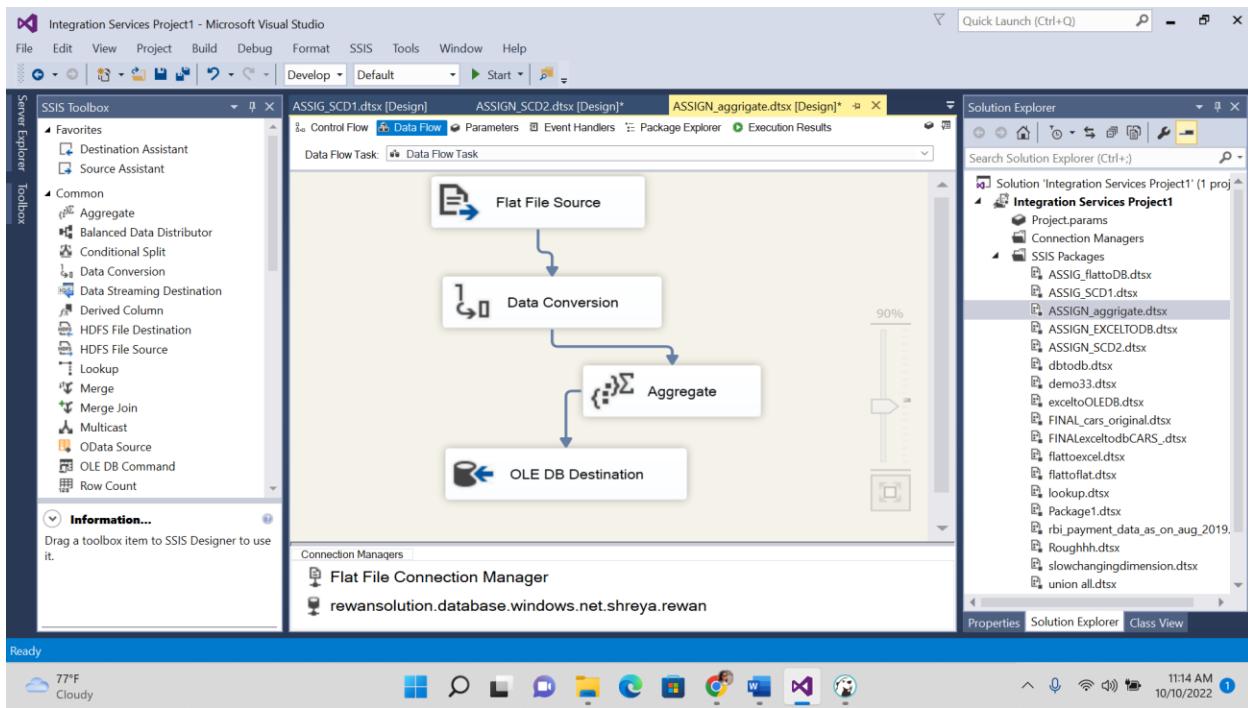
Romance,1492,431,720000,6,0,2,11,5399999999999999,120000,6,52,43224,5,2,4

Romance,1492,529,600000,5,0,2,5,5599999999999996,120000,5,90,43224,5,2,4

Ln 1, Col 1

Cloudy 11:17 AM 10/10/2022

Using aggregate function in SSIS.



Setting up aggregate operations.

The screenshot shows the Aggregate Transformation Editor. It displays the properties used for group by operations and aggregate calculations. The 'Available Input Columns' pane lists columns like Name, Film_Type, film_code, cinema_co, total_sales, tickets_sold, and tickets_out. The 'Input Column' table defines the operations:

Input Column	Output Alias	Operation	Comparison
Film_Type	Film_Type	Group by	
Copy of total_sales	sum_total_sales	Sum	
Copy of tickets_sold	max_tickets_sold	Maximum	
Copy of ticket_price	average_ticket_price	Average	

Execute the package and the output is shown in destination target table.

Target table = **Assign_Aggrigate_cinema**

DBBeaver 22.2.0 - <shreya> Script-1.sql

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator Projects <shreya> queries.sql <shreya> Script-1.... <shreya> SSIS.sql <shreya> Viewss.s... Cinema_ASSIGN_data <shreya> IISC.sql <shreya> DDL/DML...

Enter a part of object name here

> **dlithe** - rewansolution.database.windows.net:1

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

> **shreya** - rewansolution.database.windows.net:

---aggregate

select * from Assign_Aggriate_cinema;

Results 1

select * from Assign_Aggriate_cinema

	Film_Type	sum_total_sales	max_tickets_sold	average_ticket_price
1	Fiction	2,120,200,000	694	66.681
2	Action	8,075,538,991	2,015	87.789
3	Science	1,780,934,998	1,656	59.317
4	Family	3,505,049,998	3,003	89.010
5	Romance	310,725,000	112	94.030
6	Horror	2,320,015,000	814	82.263
7	Thriller	983,815,000	620	78.649
8	Drama	710,235,000	340	84.524
9	Comedy	315,250,000	371	57.710

Save Cancel Script IST en Writable Smart Insert Rows: 1 9 row(s) fetched - 187ms, on 2022-10-10 at 11:15:12
200 9 277 : 39 : 7363 Sel: 0 | 0

Cloudy 77°F 11:22 AM 10/10/2022