Module 2 SSIS:

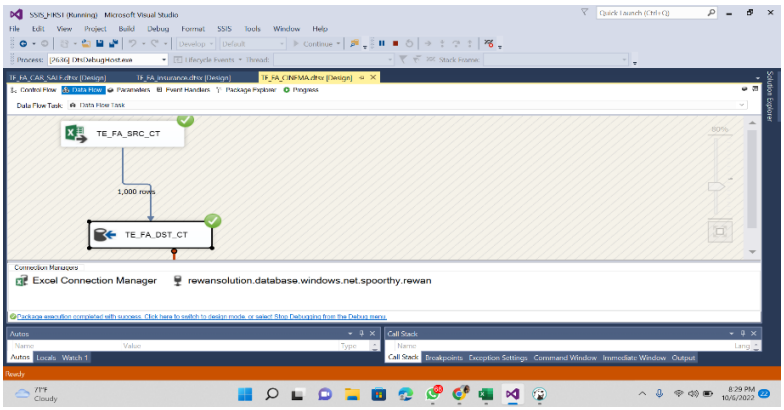
1. Make connection to different data source ((Oracle DB, Flat file, SQL Server)

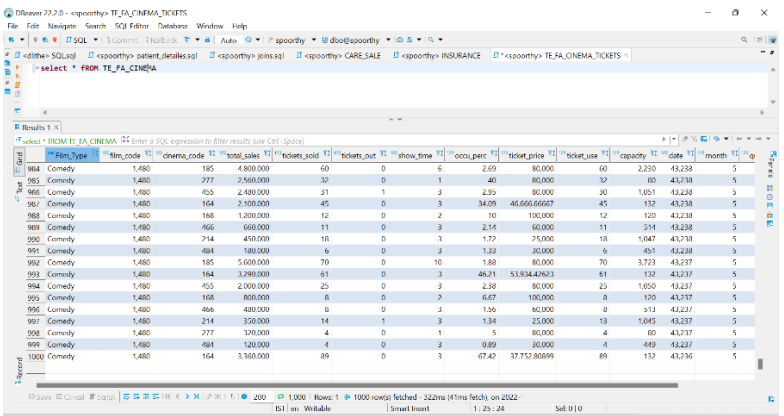
2. Extract

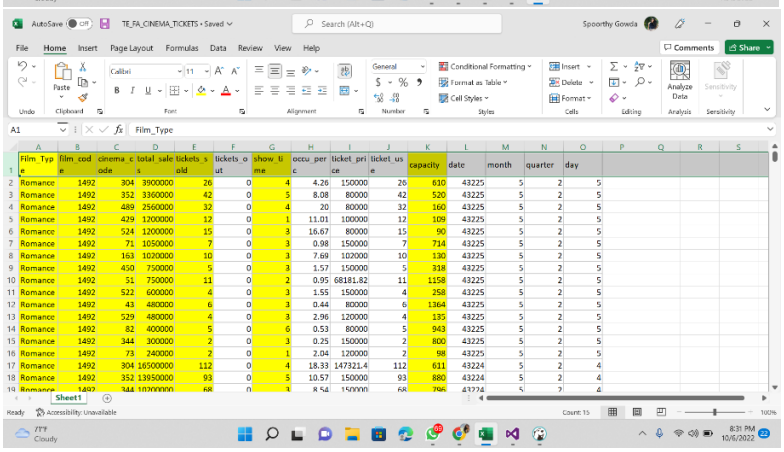
3. Transform

4. Load to new target system - SQL Server

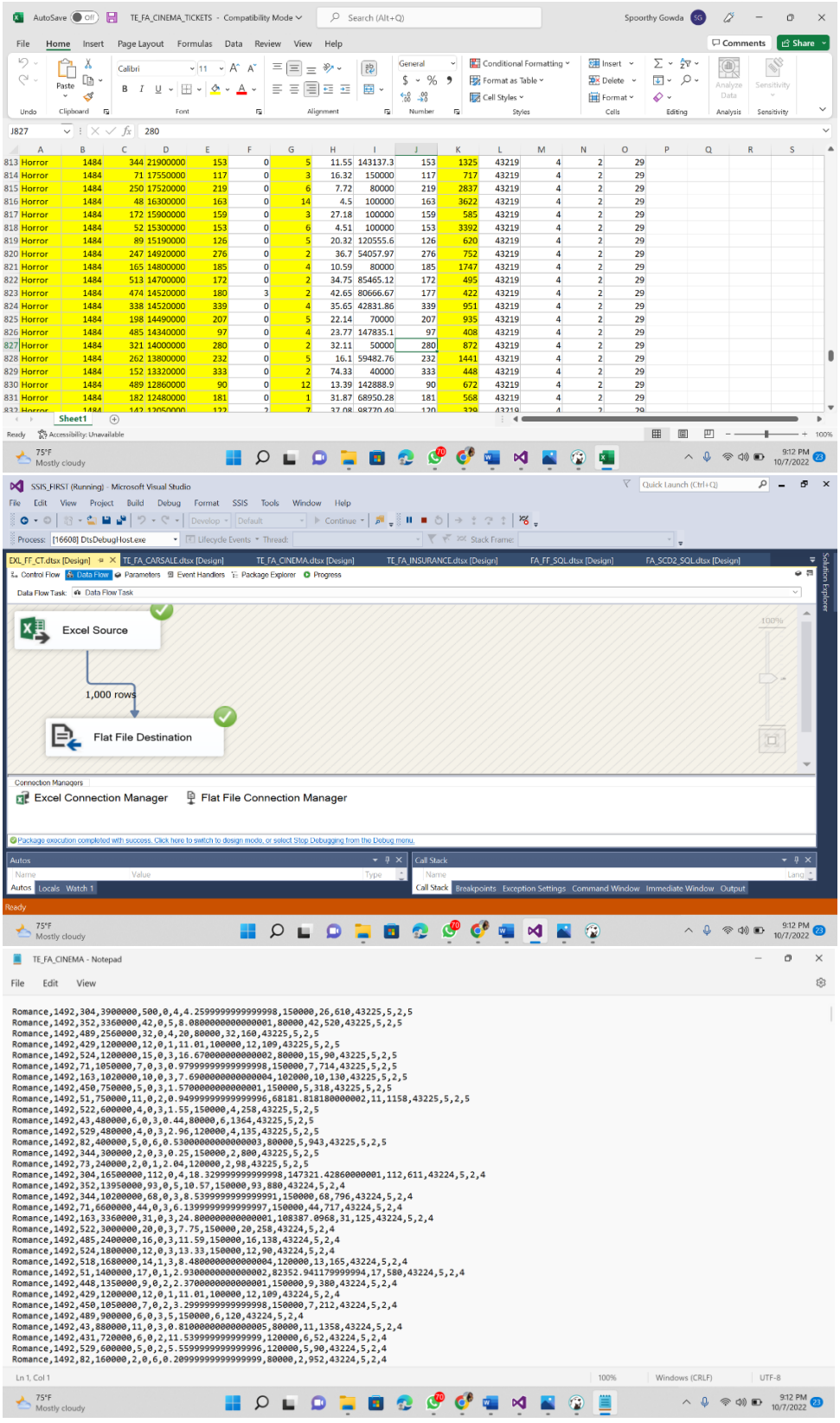
1.Excel to DB



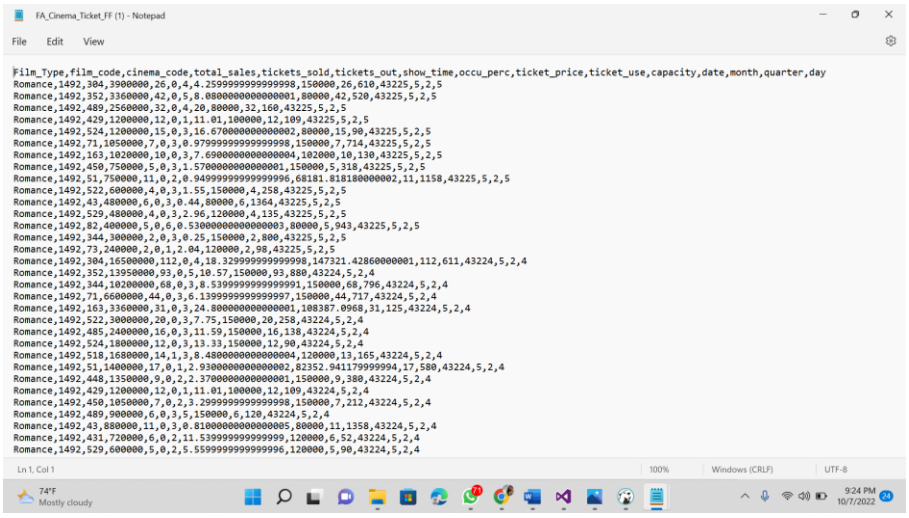


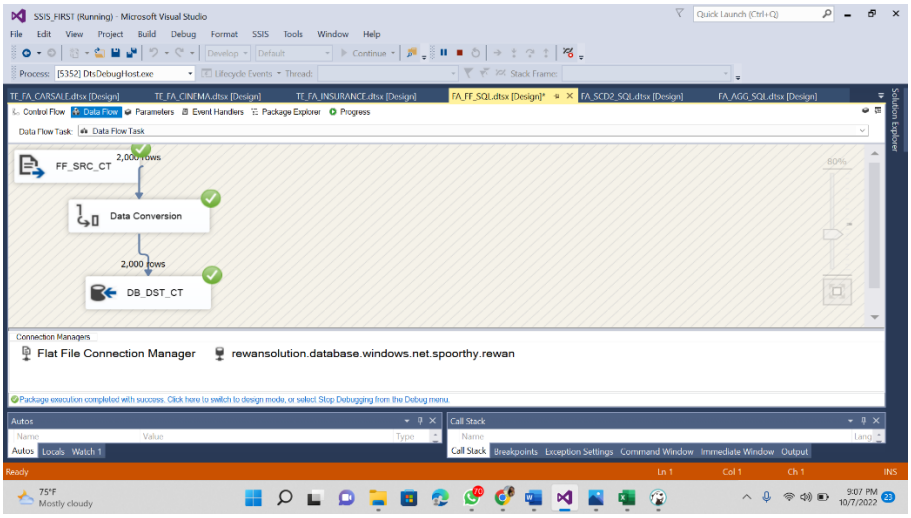


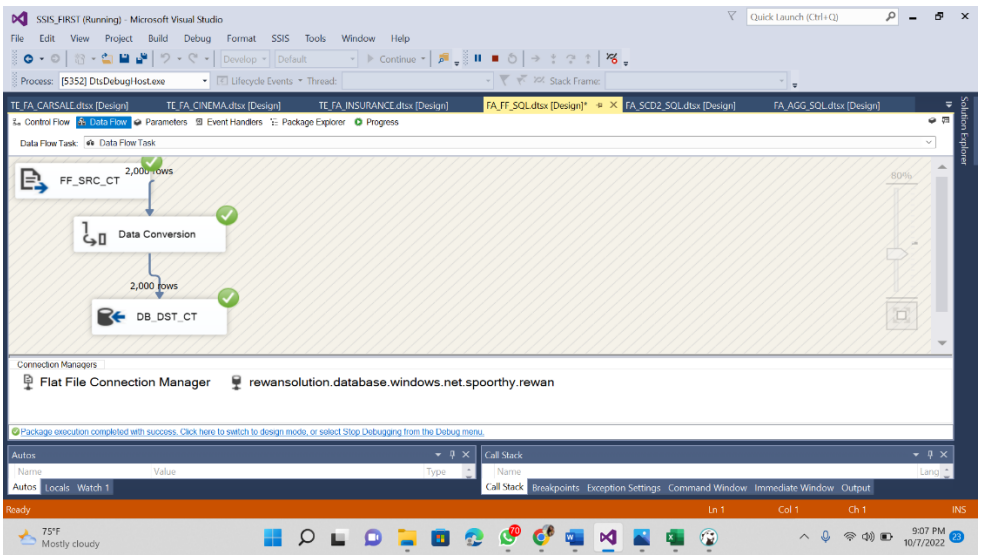
2. Excel to flat file



3. Flat file to DB

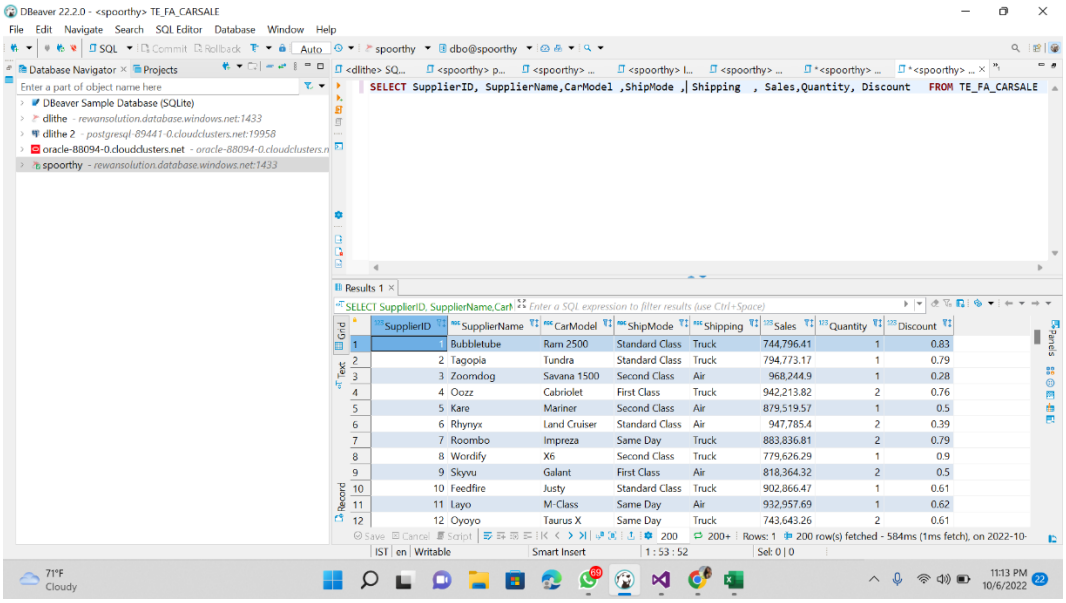






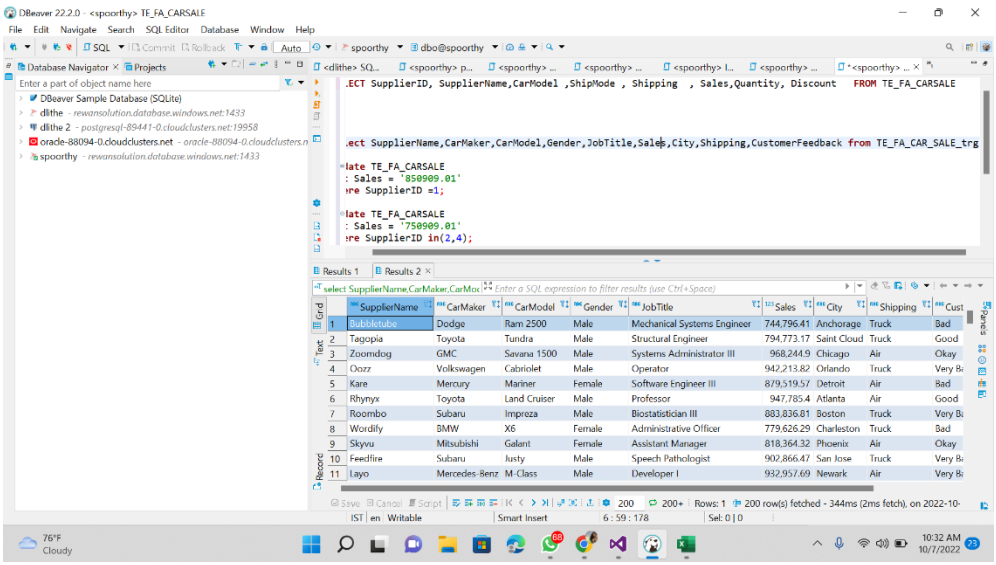
SCD-1

SOURCE TABLE – **TE_FA_CARSALE**

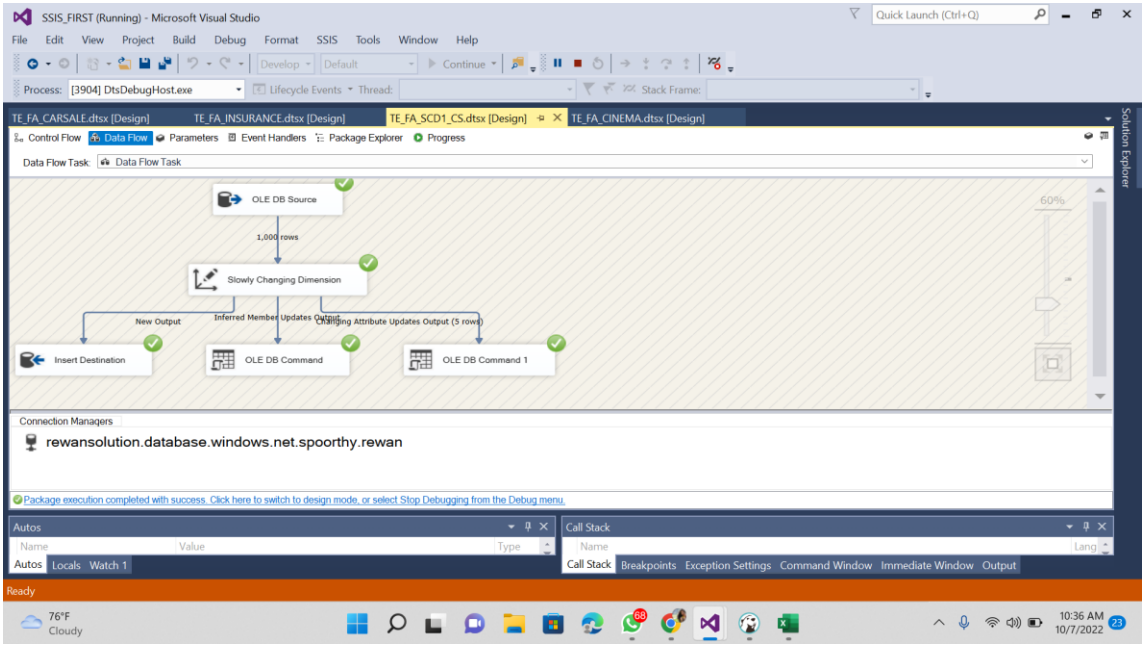


UPDATING IN SOURCE TABLE **TE_FA_CARSALE**

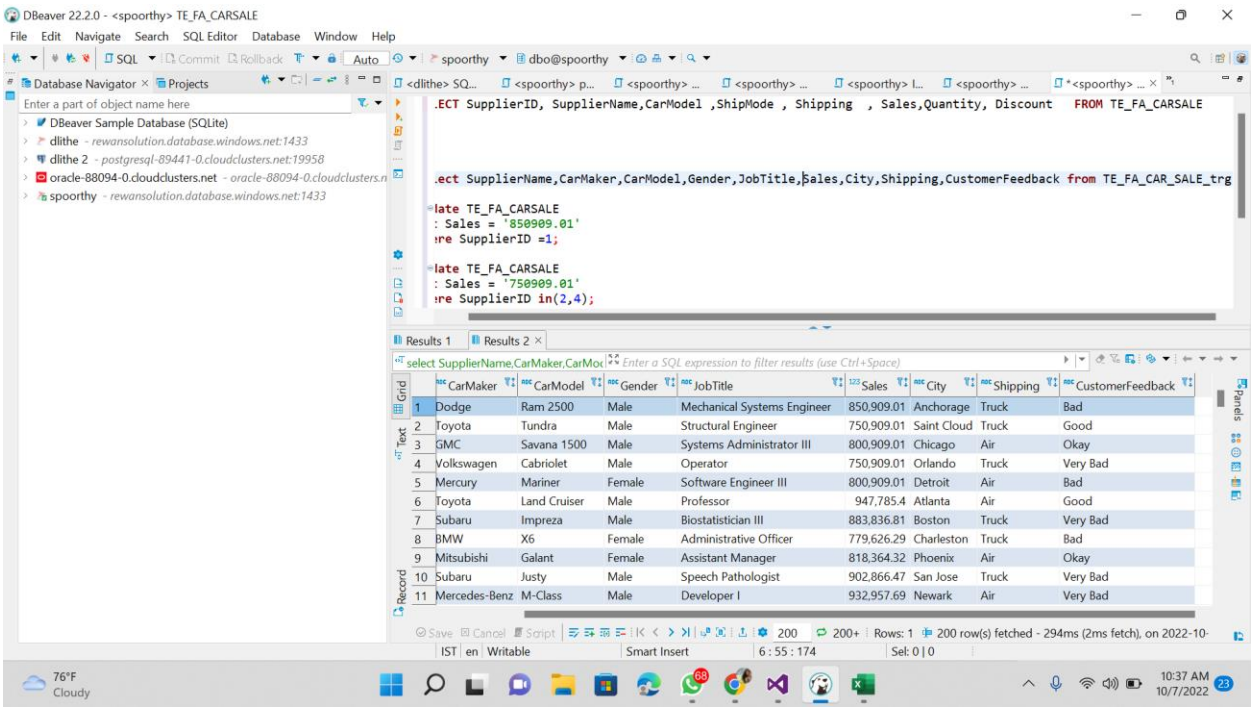
SALES HAVE BEEN UPDATED FOR SUPPLIER_ID 1,2,3,4,5



PERFOMING SCD-1



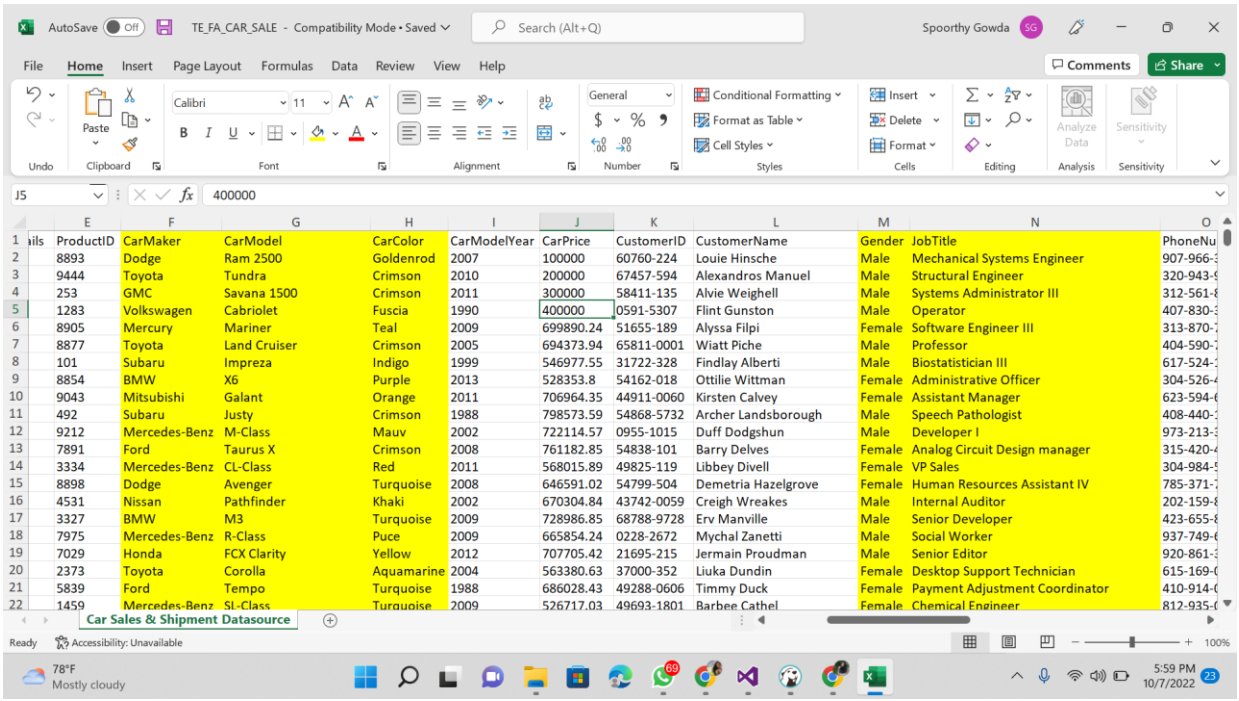
SALES HAVE UPDATED IN DESTINATION TABLE **TE_FA_CAR_SALE_TRG** FOR SUPPLIER_ID 1,2,3,4,5



SCD-2

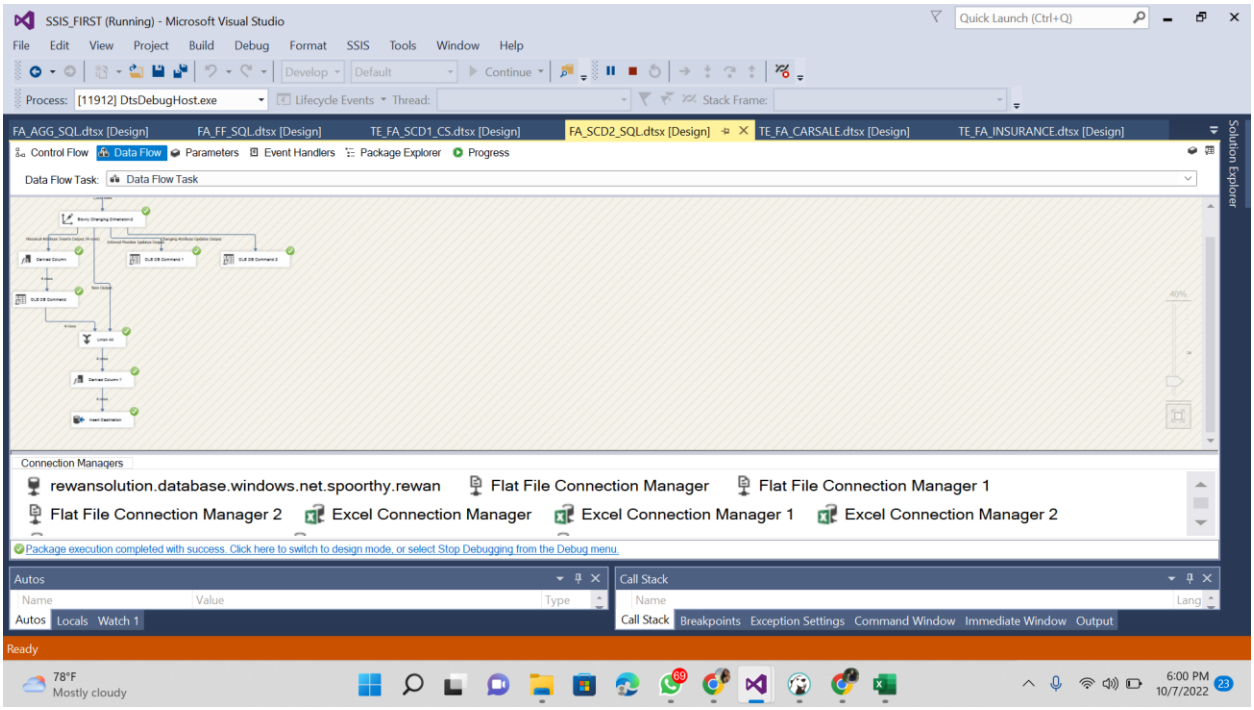
SOURCE TABLE **TE_FA_CAR_SALE**

Changes are made in source table by changing car price of product_id-8893,9444,253,1283



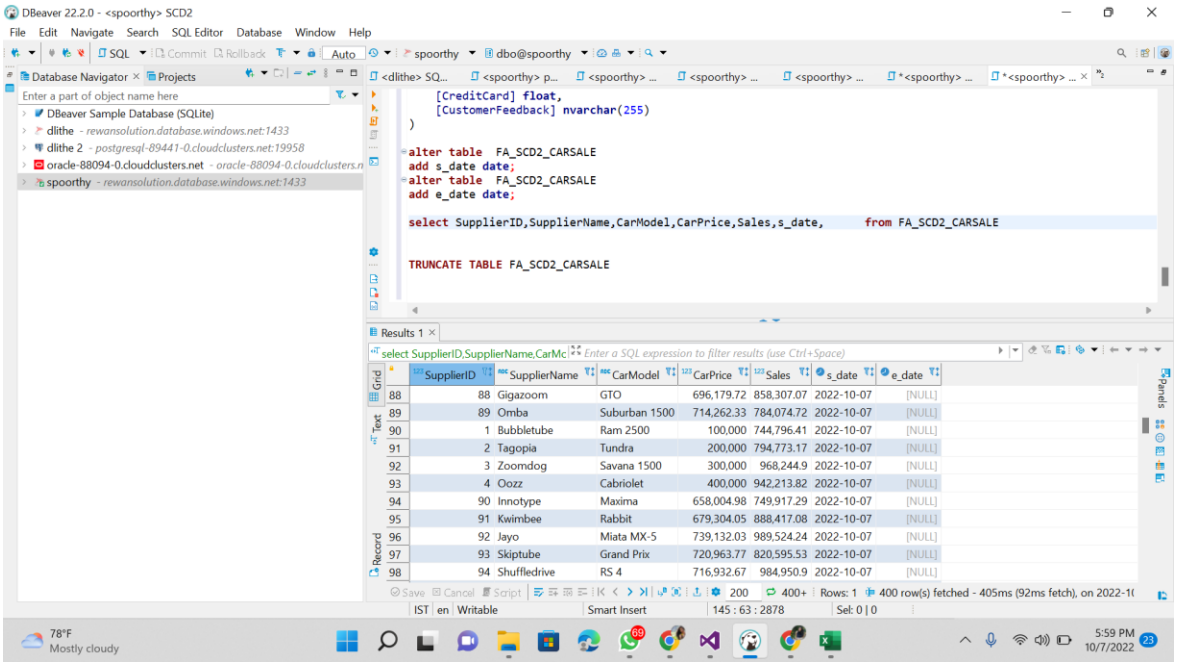
	E	F	G	H	I	J	K	L	M	N	O
1	ProductID	CarMaker	CarModel	CarColor	CarModelYear	CarPrice	CustomerID	CustomerName	Gender	JobTitle	PhoneNu
2	8893	Dodge	Ram 2500	Goldenrod	2007	100000	60760-224	Louie Hinsche	Male	Mechanical Systems Engineer	907-966-3
3	9444	Toyota	Tundra	Crimson	2010	200000	67457-594	Alexandros Manuel	Male	Structural Engineer	320-943-9
4	253	GMC	Savana 1500	Crimson	2011	300000	58411-135	Alvie Weighell	Male	Systems Administrator III	312-561-8
5	1283	Volkswagen	Cabriolet	Fuscia	1990	400000	0591-5307	Flint Gunston	Male	Operator	407-830-3
6	8905	Mercury	Mariner	Teal	2009	699890.24	51655-189	Alyssa Filpi	Female	Software Engineer III	313-870-7
7	8877	Toyota	Land Cruiser	Crimson	2005	694373.94	65811-0001	Wiatt Piche	Male	Professor	404-590-7
8	101	Subaru	Impreza	Indigo	1999	546977.55	31722-328	Findlay Alberti	Male	Biostatistician III	617-524-1
9	8854	BMW	X6	Purple	2013	528353.8	54162-018	Ottilie Wittman	Female	Administrative Officer	304-526-4
10	9043	Mitsubishi	Galant	Orange	2011	706964.35	44911-0060	Kirsten Calvey	Female	Assistant Manager	623-594-6
11	492	Subaru	Justy	Crimson	1988	798573.59	54868-5732	Archer Landsborough	Male	Speech Pathologist	408-440-1
12	9212	Mercedes-Benz	M-Class	Mauv	2002	722114.57	0955-1015	Duff Dodgshun	Male	Developer I	973-213-3
13	7891	Ford	Taurus X	Crimson	2008	761182.85	54838-101	Barry Delves	Female	Analog Circuit Design manager	315-420-4
14	3334	Mercedes-Benz	CL-Class	Red	2011	568015.89	49825-119	Libbey Divell	Female	VP Sales	304-984-5
15	8898	Dodge	Avenger	Turquoise	2008	646591.02	54799-504	Demetria Hazelgrove	Female	Human Resources Assistant IV	785-371-7
16	4531	Nissan	Pathfinder	Khaki	2002	670304.84	43742-0059	Creigh Wreakes	Male	Internal Auditor	202-159-8
17	3327	BMW	M3	Turquoise	2009	728986.85	68788-9728	Erv Manville	Male	Senior Developer	423-655-8
18	7975	Mercedes-Benz	R-Class	Puce	2009	665854.24	0228-2672	Mychal Zanetti	Male	Social Worker	937-749-6
19	7029	Honda	FCX Clarity	Yellow	2012	707705.42	21695-215	Jermain Proudman	Male	Senior Editor	920-861-3
20	2373	Toyota	Corolla	Aquamarine	2004	563380.63	37000-352	Liuka Dundin	Female	Desktop Support Technician	615-169-0
21	5839	Ford	Tempo	Turquoise	1988	686028.43	49288-0606	Timmy Duck	Female	Payment Adjustment Coordinator	410-914-0
22	1459	Mercedes-Benz	SL-Class	Turquoise	2009	526717.03	49693-1801	Barbee Cathel	Female	Chemical Engineer	812-935-0

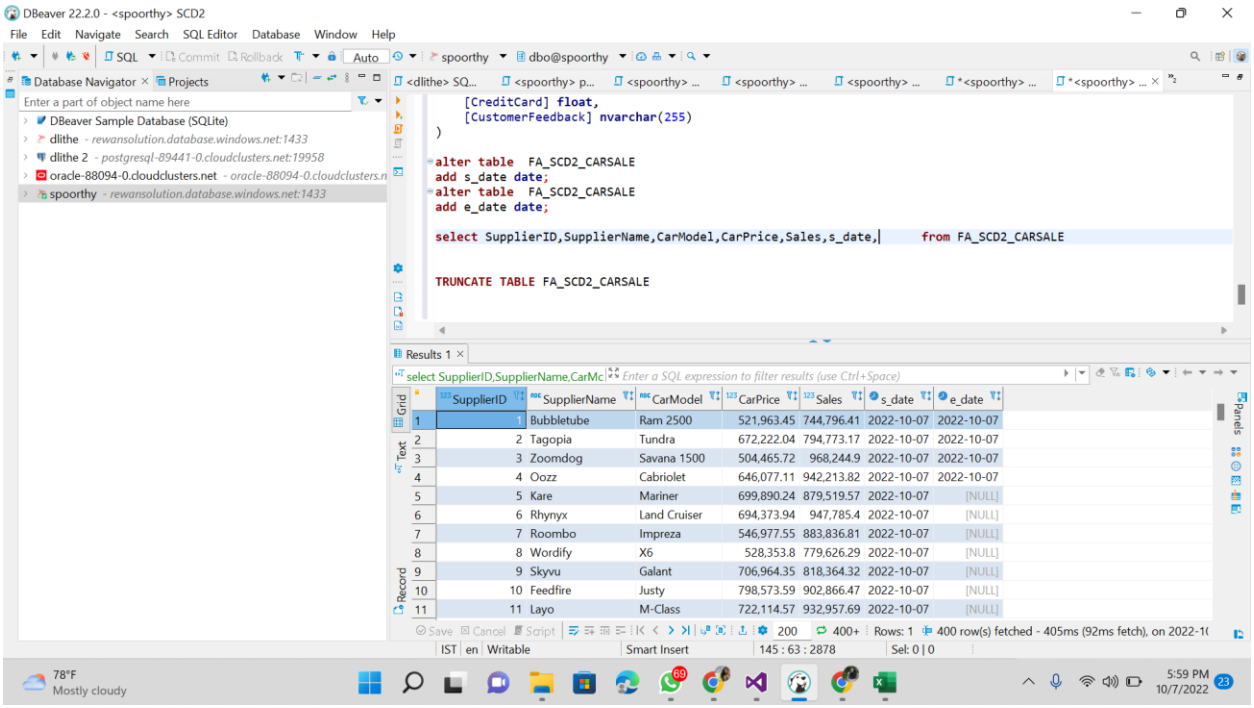
SCD-2 is perfomed



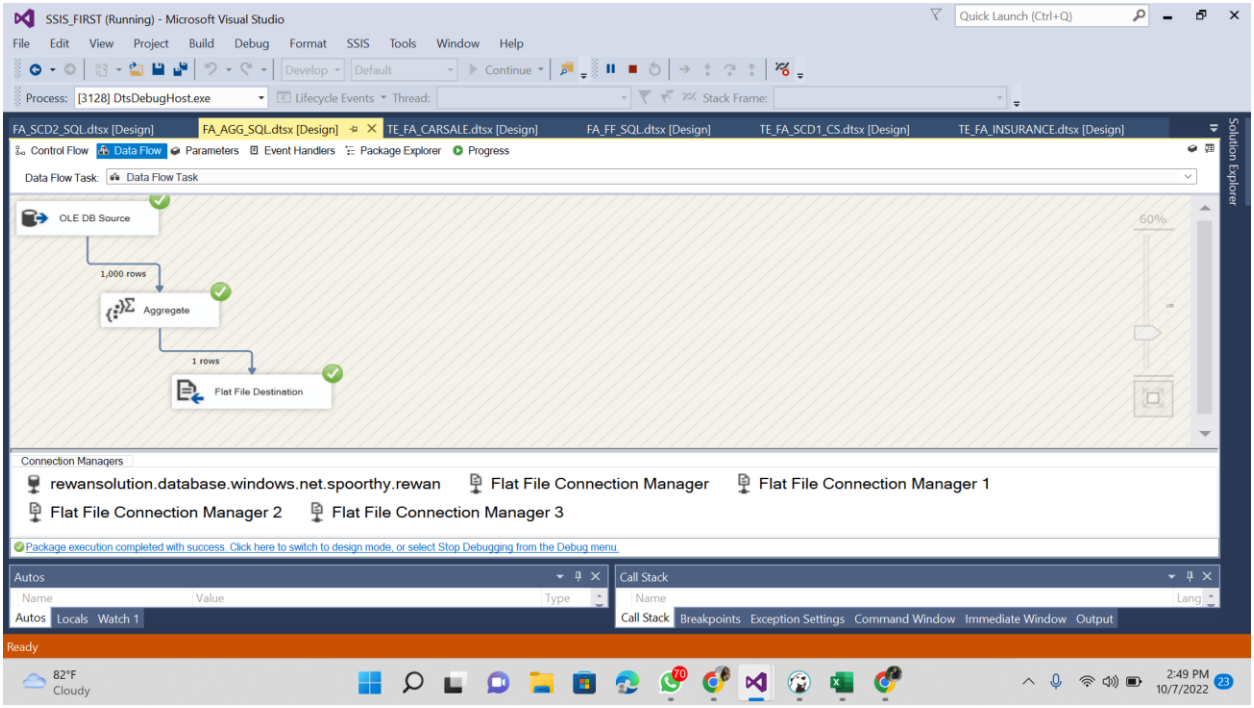
DESTINATION TABLE HAVE UPDATED FOR product_id-8893,9444,253,1283

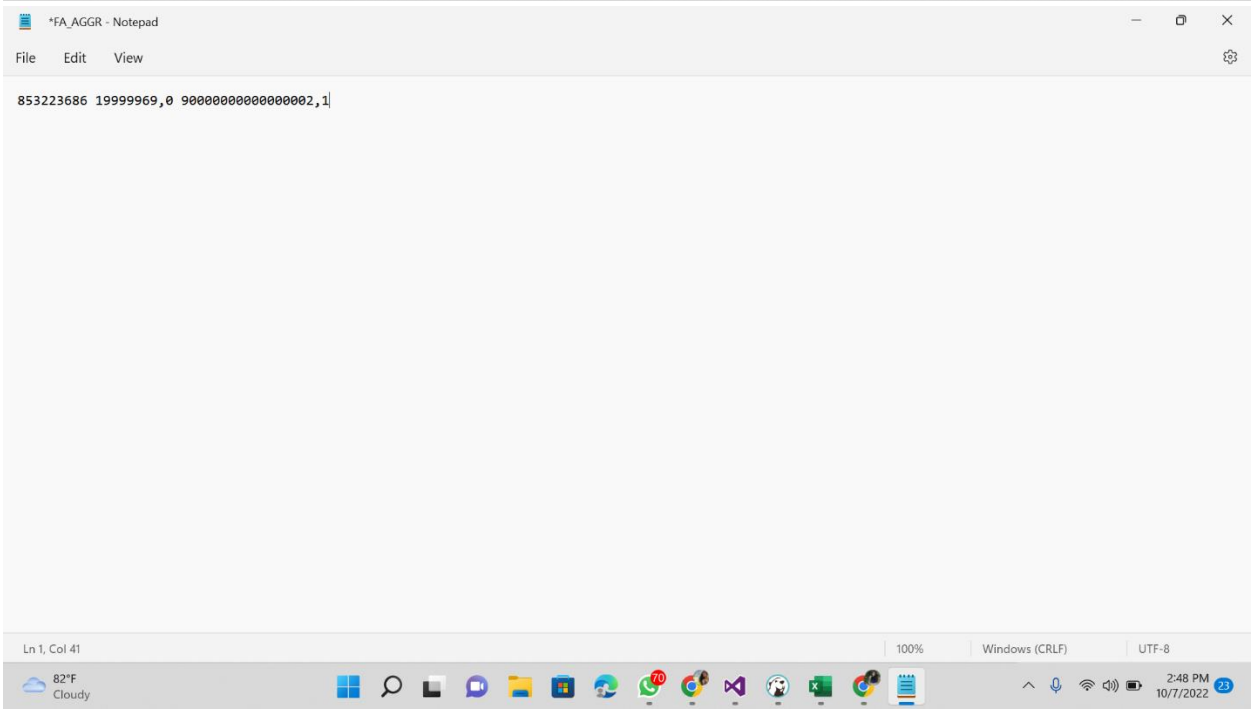
ALONG WITH START DATE AND END DATE

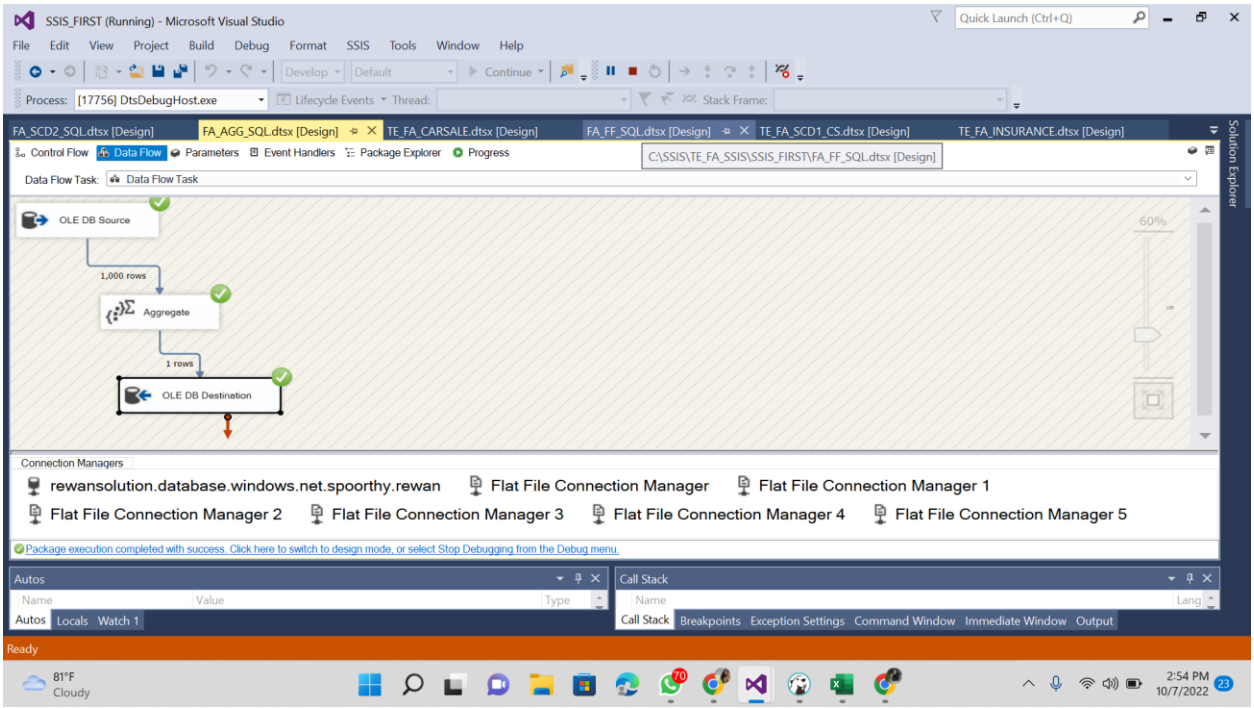


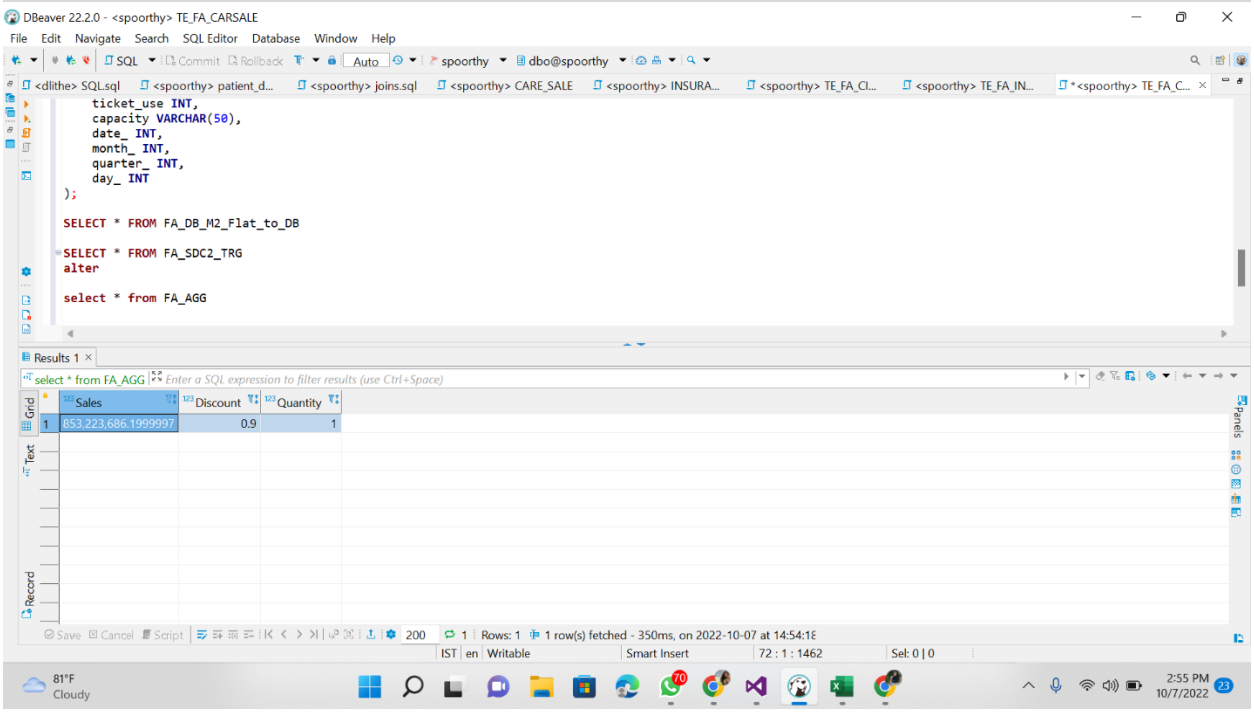


AGGREGATOR


SSIS_FIRST (Running) - Microsoft Visual Studio
FA_SCD2_SQL.dtsx [Design]
FA_AGG_SQL.dtsx [Design]
TE_FA_CARSALE.dtsx [Design]
FA_FF_SQL.dtsx [Design]
TE_FA_SCD1_CS.dtsx [Design]
TE_FA_INSURANCE.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Progress
Data Flow Task:
Data Flow Task
OLE DB Source
1,000 rows
Aggregate
1 rows
Flat File Destination
Connection Managers
rewansolution.database.windows.net.spoorthy.rewan
Flat File Connection Manager
Flat File Connection Manager 1
Flat File Connection Manager 2
Flat File Connection Manager 3
Package execution completed with success. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Ready


*FA_AGGR - Notepad
File
Edit
View
853223686 19999969,0 90000000000000002,1
Ln 1, Col 41
100%
Windows (CRLF)
UTF-8


SSIS_FIRST (Running) - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
File Edit View Project Build Debug Format SSIS Tools Window Help
Process: [17756] DtsDebugHost.exe
FA_SCD2_SQL.dtsx [Design]
FA_AGG_SQL.dtsx [Design]
TE_FA_CARSALE.dtsx [Design]
FA_FF_SQL.dtsx [Design]
TE_FA_SCD1_CS.dtsx [Design]
TE_FA_INSURANCE.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explorer
Progress
C:\SSIS\TE_FA_SSIS\SSIS_FIRST\FA_FF_SQL.dtsx [Design]
Data Flow Task: Data Flow Task
OLE DB Source
1,000 rows
Aggregate
1 rows
OLE DB Destination
60%
Solution Explorer
Connection Managers
rewansolution.database.windows.net.spoorthy.rewan
Flat File Connection Manager
Flat File Connection Manager 1
Flat File Connection Manager 2
Flat File Connection Manager 3
Flat File Connection Manager 4
Flat File Connection Manager 5
Package execution completed with success. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Autos
Name
Value
Type
Autos Locals Watch 1
Call Stack
Name
Lang
Call Stack Breakpoints Exception Settings Command Window Immediate Window Output
Ready
81°F
Cloudy
2:54 PM
10/7/2022


DBeaver 22.2.0 - <spoorthy> TE_FA_CARSALE
File Edit Navigate Search SQL Editor Database Window Help
<dlithe> SQL.sql
<spoorthy> patient_d...
<spoorthy> joins.sql
<spoorthy> CARE_SALE
<spoorthy> INSURA...
<spoorthy> TE_FA_CI...
<spoorthy> TE_FA_IN...
*<spoorthy> TE_FA_C...
ticket_use INT,
capacity VARCHAR(50),
date_ INT,
month_ INT,
quarter_ INT,
day_ INT
);
SELECT * FROM FA_DB_M2_Flat_to_DB
SELECT * FROM FA_SDC2_TRG
alter
select * from FA_AGG
Results 1
select * from FA_AGG
Enter a SQL expression to filter results (use Ctrl+Space)
Sales
Discount
Quantity
1
853,223,686.1999997
0.9
1
Rows: 1
1 row(s) fetched - 350ms, on 2022-10-07 at 14:54:18
Writable
Smart Insert
72 : 1 : 1462
Sel: 0 | 0
81°F
Cloudy
2:55 PM
10/7/2022