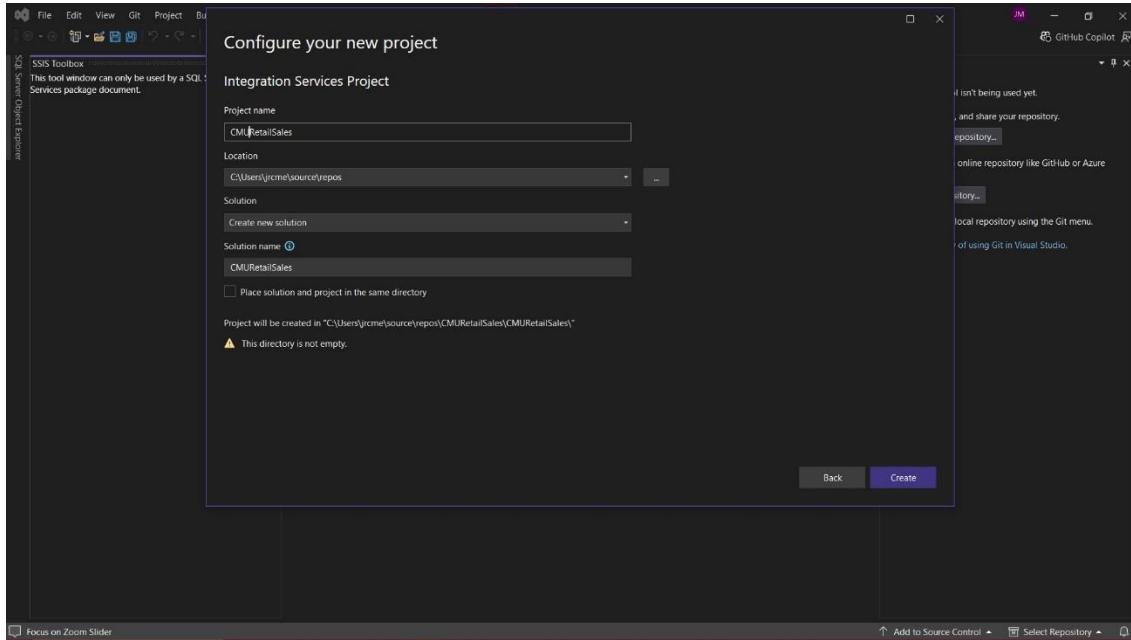
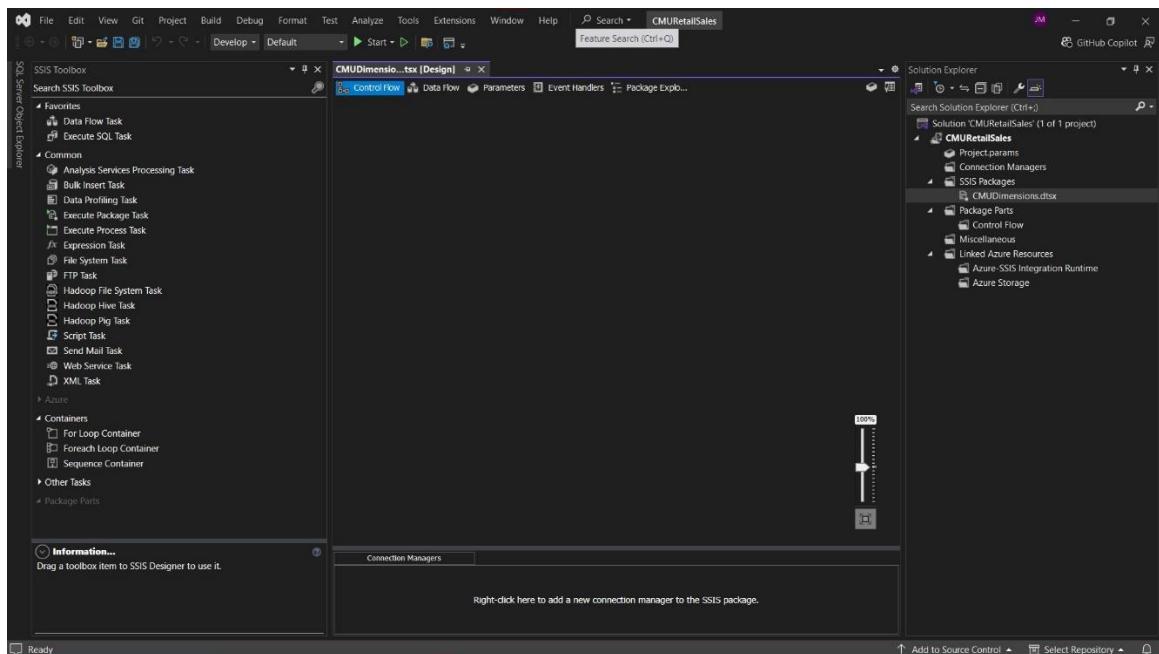


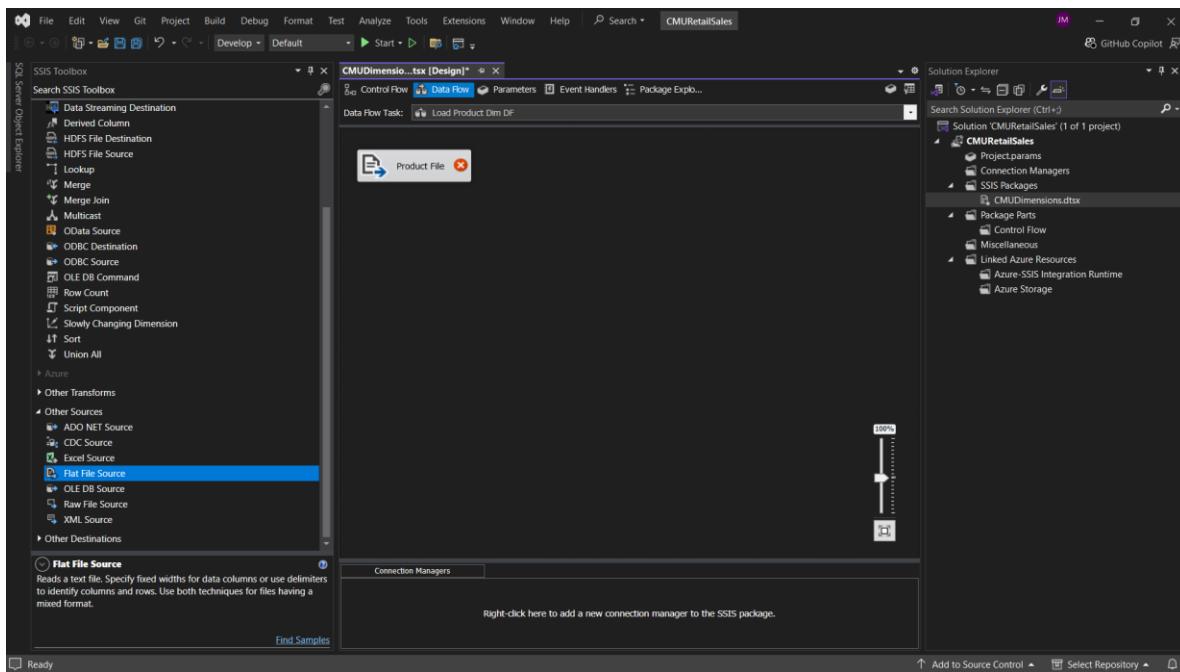
Data Mining Lab Exercise #1



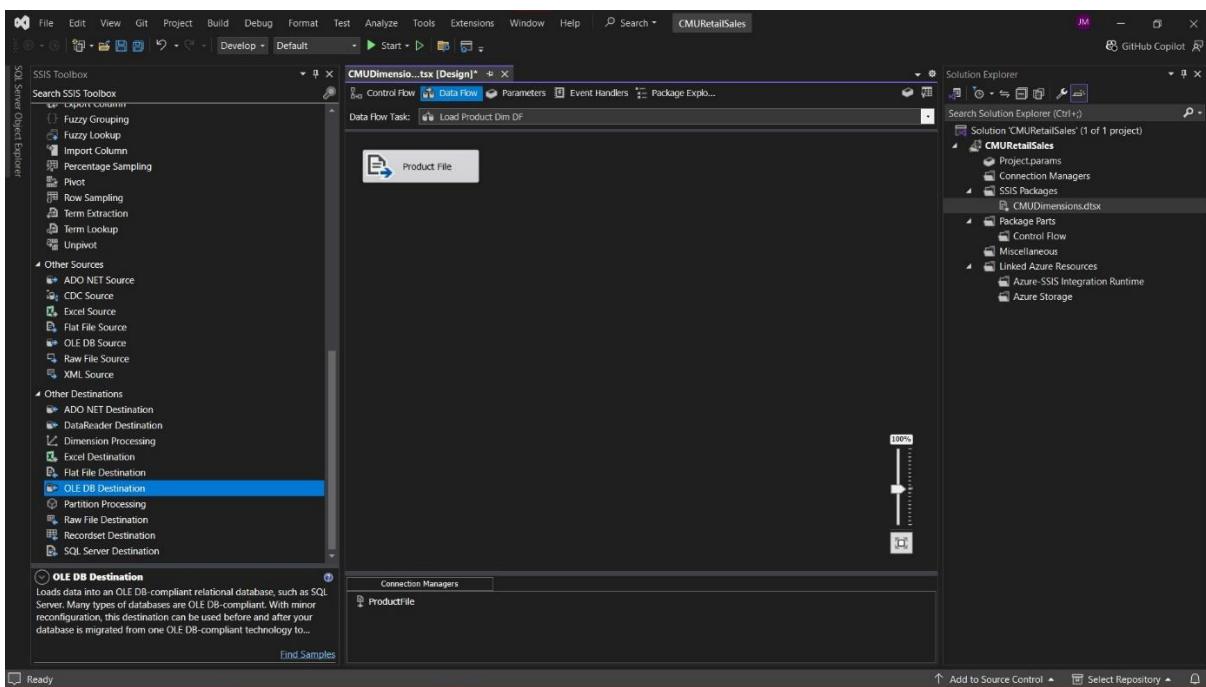
Creating Integration Service Project



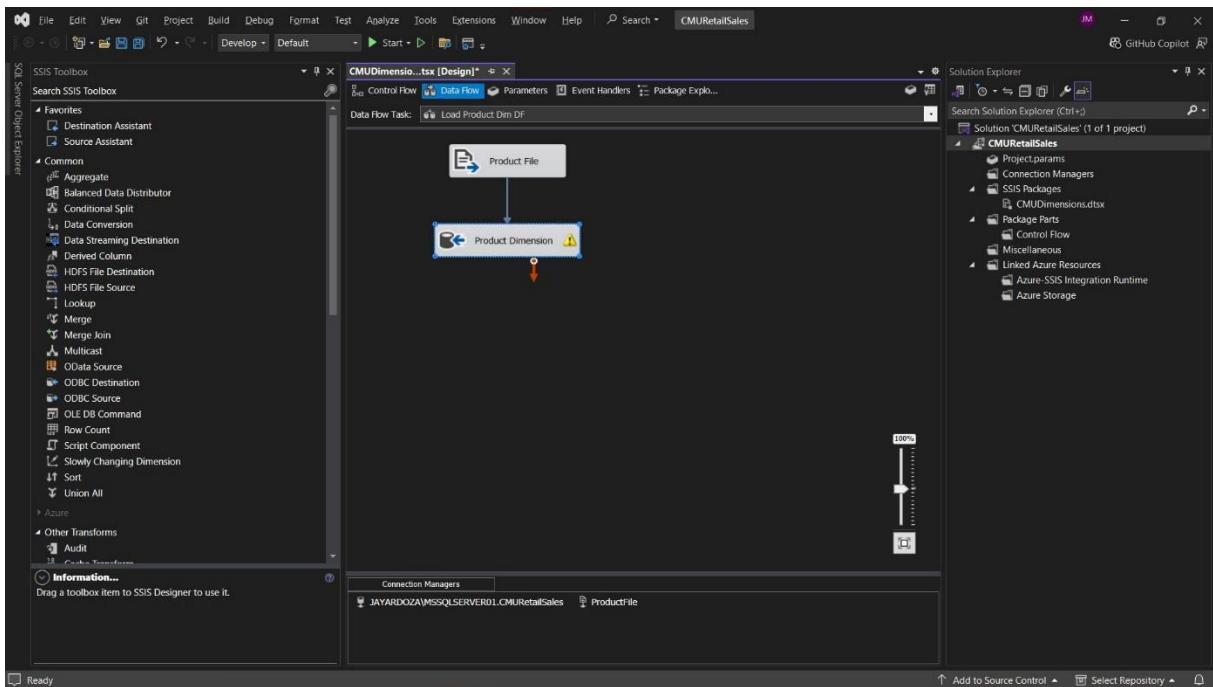
Renaming Data Package



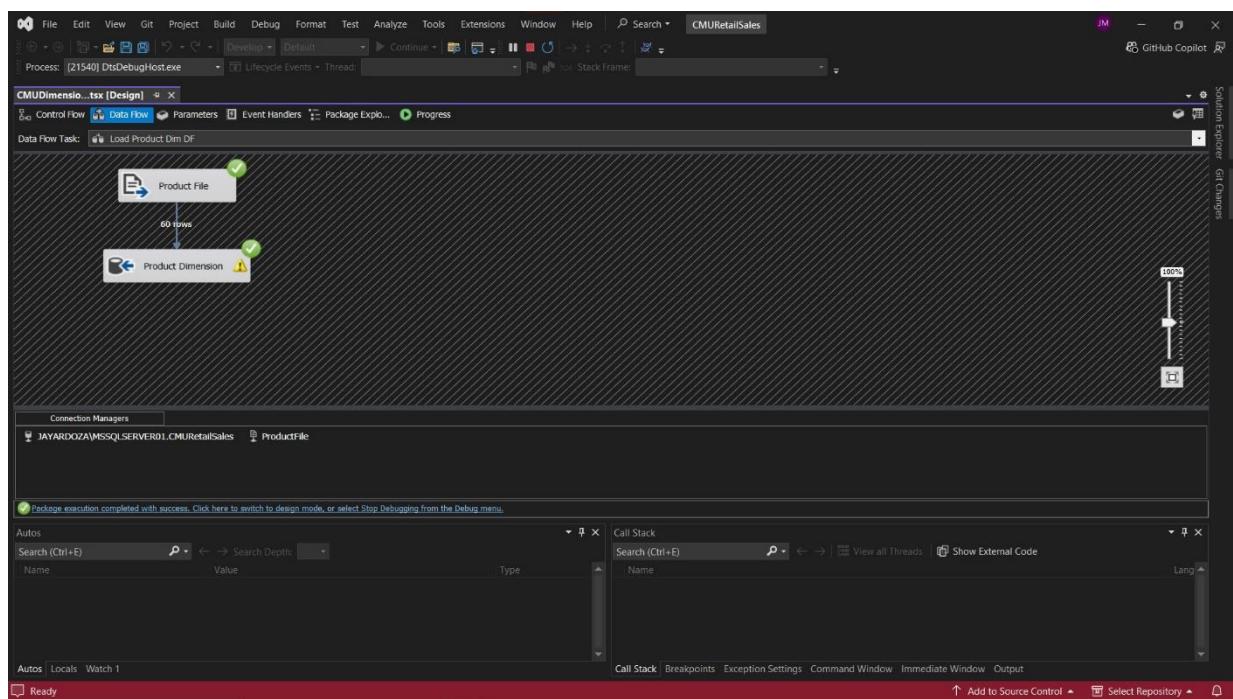
Product File



Product File No Errors



Product Dimension Mapping



Product Dimension Mapping Test

Object Explorer

CMURetailSales -> Execute

SQLQuery1.sql - JAYARDOZA\jrrome (SS) - Microsoft SQL Server Management Studio

```
SELECT TOP (1000) [ProductKey]
      ,[ProductName]
      ,[ProductDescription]
      ,[SKU]
      ,[Brand]
      ,[Category]
      ,[Department]
      ,[ActiveInd]
   FROM [CMURetailSales].[dbo].[DimProduct]
```

100 % 14

Result Messages

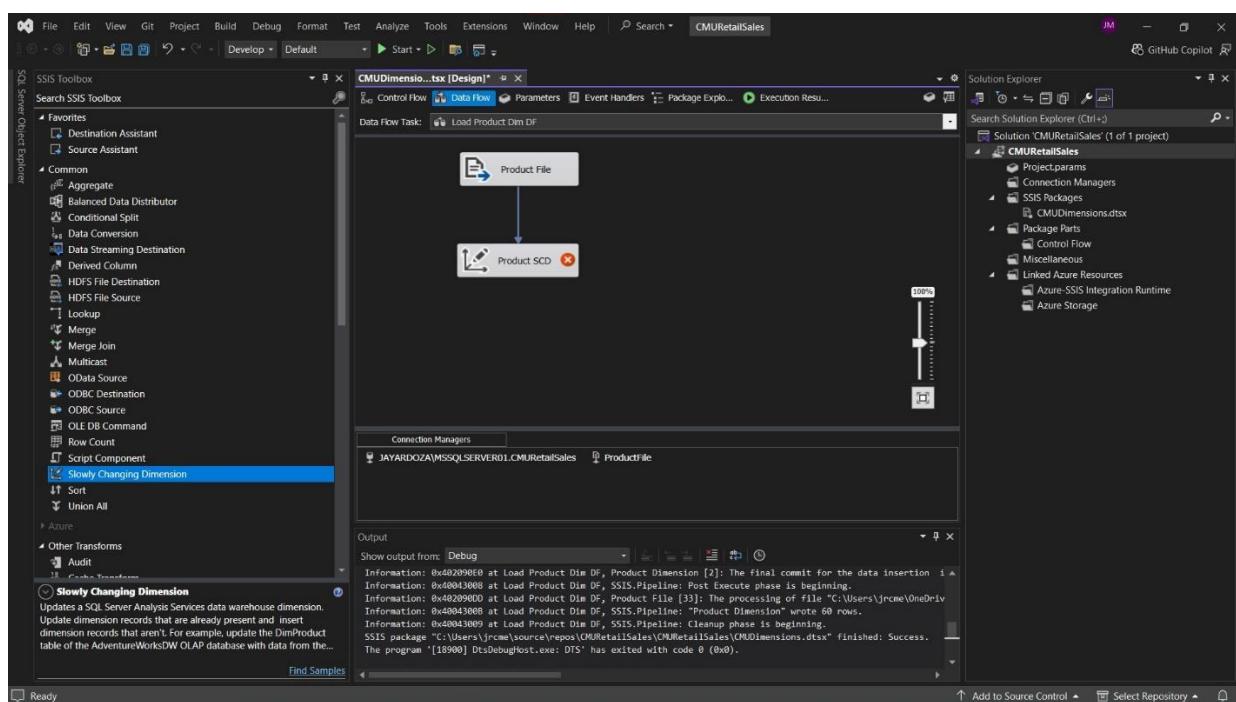
ProductKey	ProductName	ProductDescription	SKU	Brand	Category	Department	ActiveInd
33	Paper Towels	Paper Towels 12 oz	62874321939	Squeezable Inc	Supplies	Household	1
34	Dry Tissues	Dry Tissues 7.5 oz	43007173000	Squeezable Inc	Supplies	Household	1
35	Wet Wipes	Wet Wipes 10 oz	62874321943	Squeezable Inc	Supplies	Household	1
36	Salt/Gums	Salt/Gums 3 oz	54985556865	American Com	Food	Grocery	1
37	Dried Gums	Dried Gums 3 oz	11104004496	American Com	Food	Grocery	1
38	Power Chips	Power Chips 4.5 oz	51364643658	American Com	Food	Grocery	1
39	Onion Slices	Onion Slices 4.5 oz	72546122646	Western Veget.	Food	Grocery	1
40	Buffalo Jerky	Buffalo Jerky 4.5 oz	37331588167	Western Veget.	Food	Grocery	1
41	Lasagna	Lasagna 13.5 oz	84302852771	Cold Gourmet	Food	Grocery	1
42	Beef Stew	Beef Stew 13 oz	23430942207	Cold Gourmet	Food	Grocery	1
43	Turkey Dinner	Turkey Dinner 18 oz	77016208053	Frozen Bird	Food	Grocery	1
44	Chicken Dinner	Chicken Dinner 18 ...	83931167599	Frozen Bird	Food	Grocery	1
45	Extra Nutritious	Extra Nutritious 4.5 oz	76831116862	Chewy Industries	Food	Grocery	1
46	Lots of Nuts	Lots of Nuts 4.5 oz	85831116862	Chewy Industries	Food	Grocery	1
47	Smart Tools	Smart Tools 4.5 oz	8043823203	Chewy Industries	Food	Grocery	1
48	Fizzy Light	Fizzy Light 13.5 oz	59432116987	Big Can	Drinks	Grocery	1
49	Fizzy Classic	Fizzy Classic 13.5 oz	6475233722	Big Can	Drinks	Grocery	1
50	Athletic Drink	Athletic Drink 13.5 ...	63996140597	Big Can	Drinks	Grocery	1
51	Strong Cola	Strong Cola 18 oz	7833224493	National Bottl	Drinks	Grocery	1
52	Clear Refresher	Clear Refresher 13...	26124581284	National Bottl	Drinks	Grocery	1
53	Paper Towels	Paper Towels 18 oz	99257418302	Squeezable Inc	Supplies	Household	1
54	Dry Tissues	Dry Tissues 11.2 oz	46205912500	Squeezable Inc	Supplies	Household	1
55	Wet Wipes	Wet Wipes 18 oz	28231250089	Squeezable Inc	Supplies	Household	1
56	Salt/Gums	Salt/Gums 3 oz	31763179100	American Com	Food	Grocery	1
57	Dried Gums	Dried Gums 4.5 oz	55861968178	American Com	Food	Grocery	1
58	Power Chips	Power Chips 6.7 oz	43982125296	American Com	Food	Grocery	1
59	Onion Slices	Onion Slices 6.7 oz	50616533214	Western Veget.	Food	Grocery	1
60	Buffalo Jerky	Buffalo Jerky 6.7 oz	69467630292	Western Veget.	Food	Grocery	1

Query executed successfully:

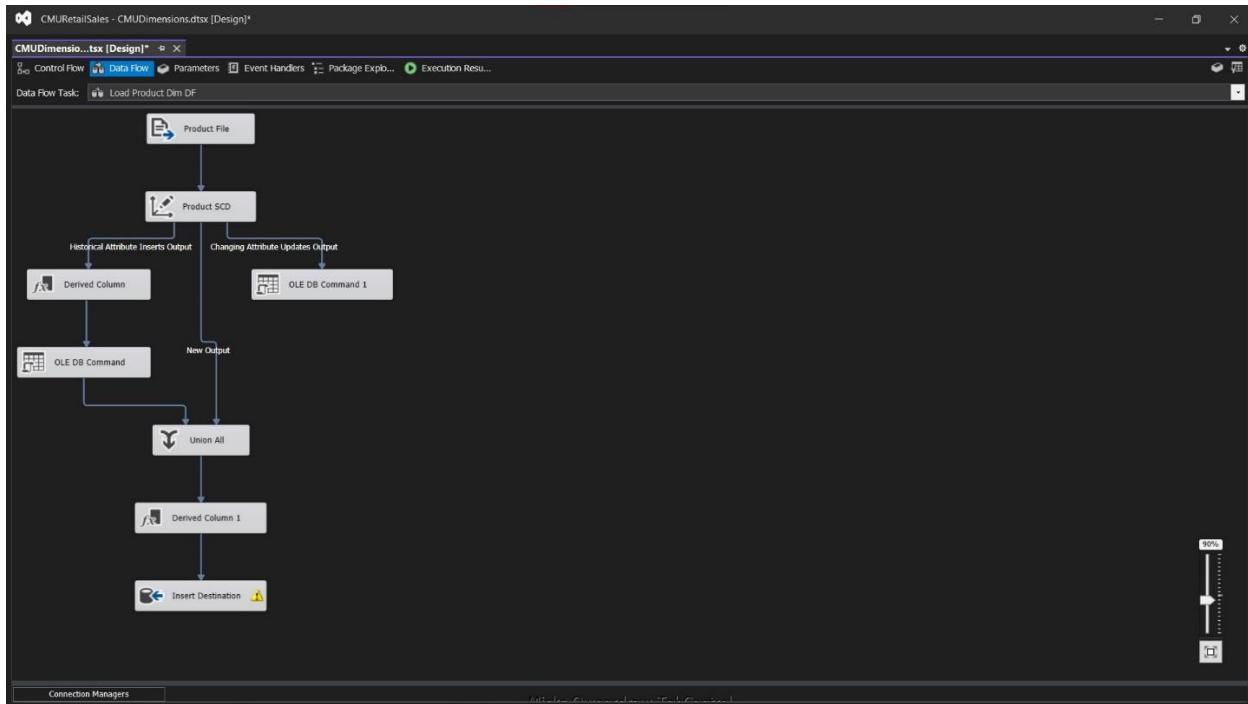
Ready

Lin 1 Col 31 Ch 31 INS

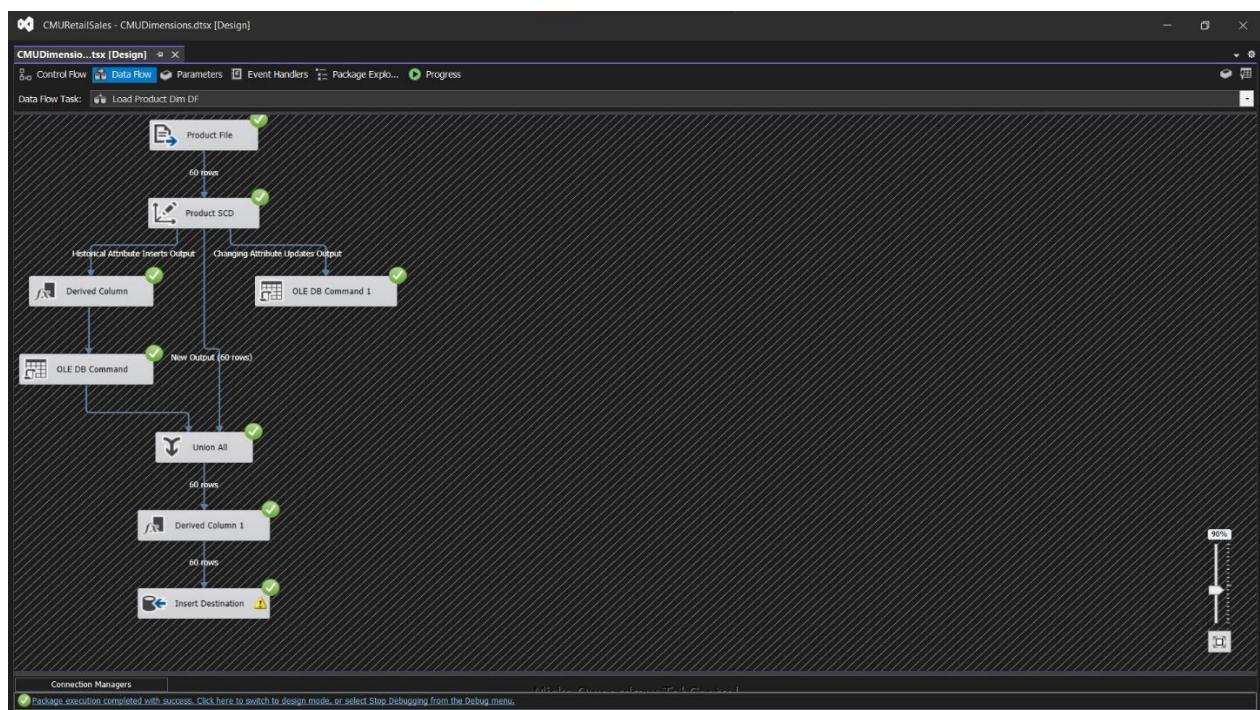
Verify 60 Rows for Product Dimension



Created and Linked Product SCD



Product SCD Mapping and Organized Controls



Product SCD Mapping Test

SQLQuery4.sql - JAYARDOZA\CMURetailSales (JAYARDOZA)\rcme (58) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute

CMURetailSales

Object Explorer

SQLQuery4.sql - J..ARD0ZA\rcme (58) x

```
SELECT TOP (1000) [ProductKey]
      ,[ProductName]
      ,[SKU]
      ,[Brand]
      ,[Category]
      ,[Department]
      ,[ActiveInd]
  FROM [CMURetailSales].[dbo].[DimProduct]
```

Results Messages

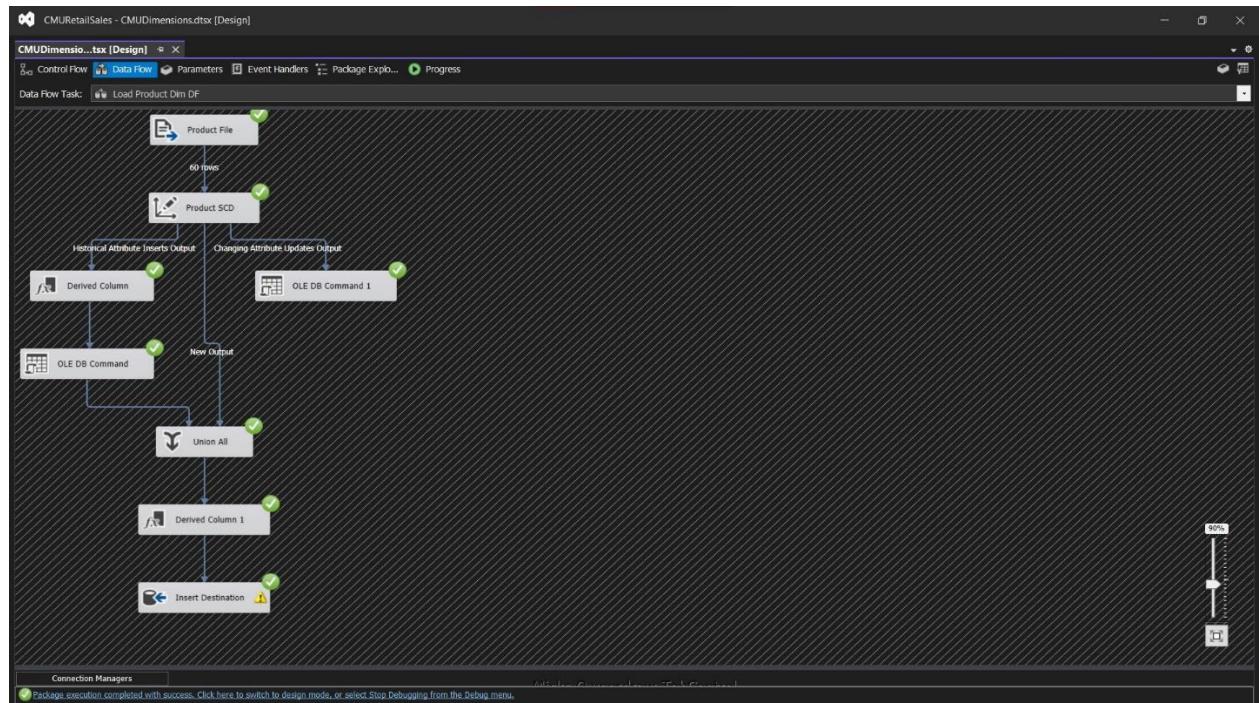
ProductKey	ProductName	ProductDescription	SKU	Brand	Category	Department	ActiveInd	
44	164	Chicken Dinner	Chicken Dinner 18...	83931167559	Frozen Bird	Food	Grocery	1
45	165	Extra Nougat	Extra Nougat 4.5 oz	76234081227	Chewy Industries	Food	Grocery	1
46	166	Lots of Nuts	Lots of Nuts 4.5 oz	8568141862	Chewy Industries	Food	Grocery	1
47	167	Sweet Tooth	Sweet Tooth 4.5 oz	3294335203	Chewy Industries	Food	Grocery	1
48	168	Fuzzy Light	Fuzzy Light 13.5 oz	59632319867	Big Can	Drinks	Grocery	1
49	169	Fuzzy Classic	Fuzzy Classic 13.5 oz	64750233722	Big Can	Drinks	Grocery	1
50	170	Albert's Drink	Albert's Drink 13.5 oz	78532241093	Big Can	Drinks	Grocery	1
51	171	Strong Orange Cola	Strong Orange Cola 18 oz	78532241093	Neonol Bottl	Drinks	Grocery	1
52	172	Clean Refresher	Clean Refresher 13.	26124581284	Squeezable Inc	Supplies	Household	1
53	173	Paper Towels	Paper Towels 18 oz	92657110302	Squeezable Inc	Supplies	Household	1
54	174	Dry Tissues	Dry Tissues 11.2 oz	46205094999	Squeezable Inc	Supplies	Household	1
55	175	Wet Wipes	Wet Wipes 18 oz	26231258098	Squeezable Inc	Supplies	Household	1
56	176	Salty Corn	Salty Corn 4.5 oz	21028378100	American Corn	Food	Grocery	1
57	177	Dried Grts	Dried Grts 4.5 oz	55681968175	American Corn	Food	Grocery	1
58	178	Power Chips	Power Chips 6.7 oz	43992125296	American Corn	Food	Grocery	1
59	179	Onion Slices	Onion Slices 6.7 oz	50916533214	Western Veget...	Food	Grocery	1
60	180	Buffalo Jerky	Buffalo Jerky 6.7 oz	69467630292	Western Veget...	Food	Grocery	1

Query executed successfully.

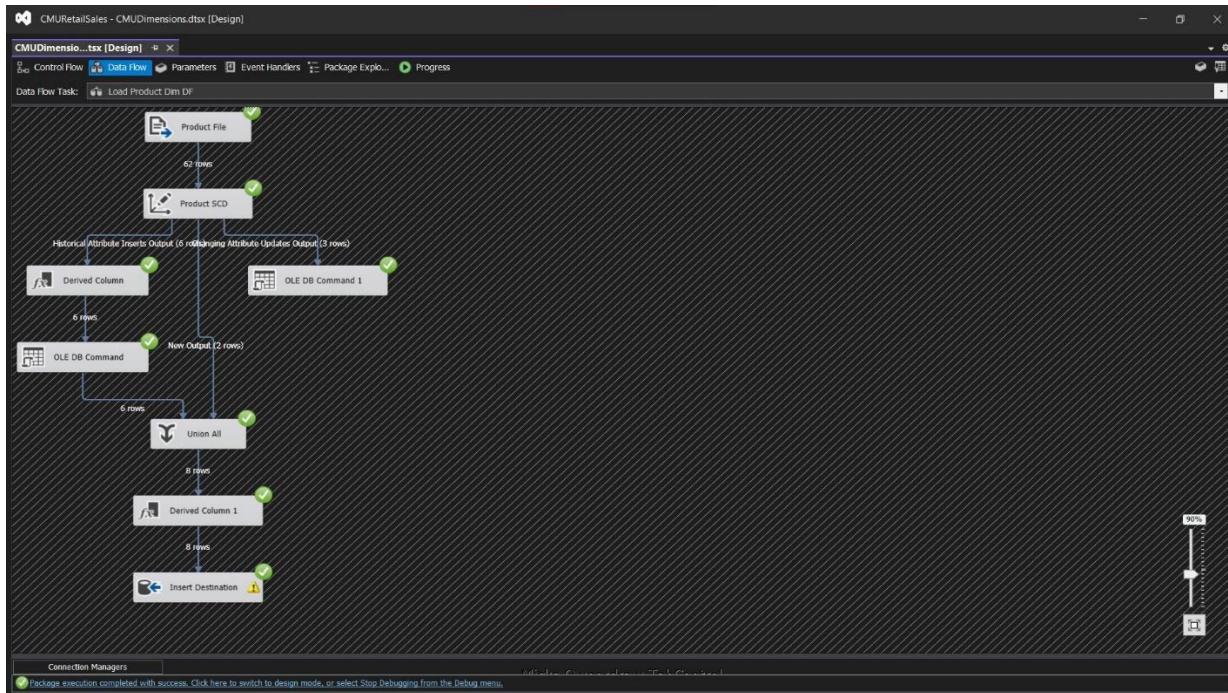
JAYARDOZA\CMURetailSales (JAYARDOZA)\rcme (58) CMURetailSales 00:00:00 | 60 rows

Ready

Verify 60 Rows for Product SCD



Product SCD Mapping Test with 60 Rows on Source File



Product SCD Mapping Test with 62 Rows, Swapped Product with Product_Time2

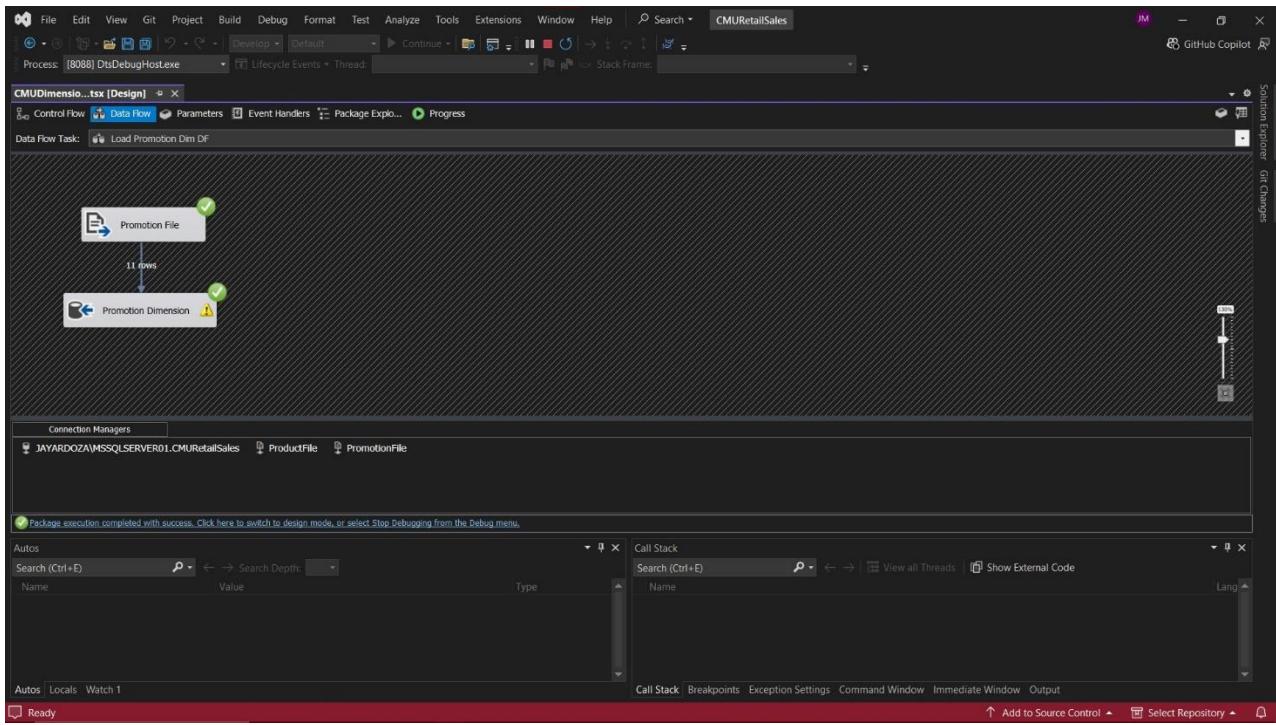
```

SELECT TOP (1000) [ProductKey]
      ,[ProductName]
      ,[ProductDescription]
      ,[SKU]
      ,[Brand]
      ,[Category]
      ,[Department]
      ,[ActiveInd]
  FROM [CMURetailSales].[dbo].[DimProduct]
  
```

ProductKey	ProductName	ProductDescription	SKU	Brand	Category	Department	ActiveInd	
52	172	Clear Refresher	07454581204	National Bath	Grocery	1	0	
53	173	Paper Towels	Paper Towels 16 oz	9625741932	Squeezable Inc	Supplies	Household	0
54	174	Dry Tissues	Dry Tissues 11.2 oz	462052049999	Squeezable Inc	Supplies	Household	0
55	175	Wet Wipes	Wet Wipes 18 oz	26231258098	Squeezable Inc	Supplies	Household	1
56	176	Salty Corn	Salty Corn 4.5 oz	216282878100	American Corn	Food	Grocery	1
57	177	Dried Grits	Dried Grits 4.5 oz	556811968175	American Corn	Food	Grocery	1
58	178	Power Chips	Power Chips 6.7 oz	43992125296	American Corn	Food	Grocery	1
59	179	Onion Slices	Onion Slices 6.7 oz	50516533214	Western Veget.	Food	Grocery	1
60	180	Buffalo Jerky	Buffalo Jerky 6.7 oz	69467930292	Western Veget.	Food	Grocery	1
61	181	Diet Fuzzy	Diet Fuzzy 12 oz Can	59832311234	Big Can	Drinks	Grocery	1
62	182	Fuzzy Zero	Fuzzy Zero 12 oz Can	59832324321	Big Can	Drinks	Grocery	1
63	183	Paper Towels	Paper Towels 8 oz	22563048203	Squeezable Inc	Paper...	Household	1
64	184	Dry Tissues	Dry Tissues 5 oz	20703212107	Squeezable Inc	Paper...	Household	1
65	185	Paper Towels	Paper Towels 12 oz	43974211709	Squeezable Inc	Paper...	Household	1
66	186	Dry Tissues	Dry Tissues 7.5 oz	43507173902	Squeezable Inc	Paper...	Household	1
67	187	Paper Towels	Paper Towels 18 oz	99257419302	Squeezable Inc	Paper...	Household	1
68	188	Dry Tissues	Dry Tissues 11.2 oz	462052049999	Squeezable Inc	Paper...	Household	1

Query executed successfully.

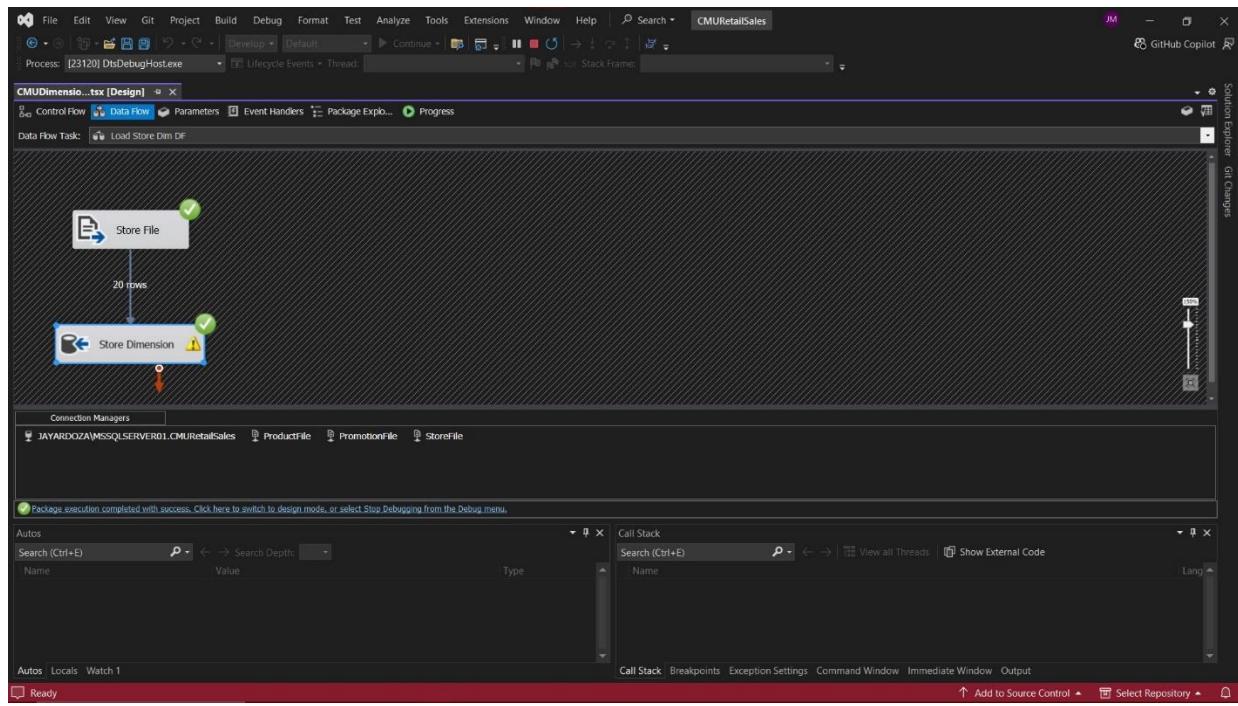
Updated Verify 68 Rows with 6 ActiveInd 0 Records



Promotion Dimension Mapping Test

PromotionKey	PromotionName	PriceReductionType	AdType	DisplayType	CouponType	AdMediaType	PromotionCost	ActiveInd
1	Blue Ribbon Discounts	Temporary	Daily Paper	None	Paper	2000.00	1	
2	Red Carpet Closeout	Markdown	Sunday Paper	None	Paper	1000.00	1	
3	Ad Blitz	None	Paper and Radio	None	Paper and Radio	7000.00	1	
4	Ads and Rocks	None	Paper and Radio	Rack	Paper and Radio	3000.00	1	
5	Shelf Talkers	None	None	Shelf Tag	None	500.00	1	
6	POS Grabbers	None	None	Register	None	600.00	1	
7	Two for One	Coupon Only	Sunday Paper	None	Paper	1000.00	1	
8	Cents Off Coupon	Coupon Only	Mailer	None	Mailer	1000.00	1	
9	Redemption	Redemption Only	Attached	None	Attached	5000.00	1	
10	Big Promo	Temporary	Daily Paper	End Aisle	Paper	8000.00	1	
11	No Promotion	None	None	None	None	0.00	1	

Verify 11 Rows for Promotion Dimension



Store Dimension Mapping Test

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The Object Explorer on the left shows the database structure, including the CMURetailSales database and its tables like DimStore. The main window displays a query results grid for a SELECT statement on the DimStore table. The results show 20 rows of store information:

StoreKey	StoreName	StoreNumber	City	State	SalesRegion	ActiveInd
4	Store No. 4	4.00	Los Angeles	CA	Pacific	1
5	Store No. 5	5.00	San Francisco	CA	Pacific	1
6	Store No. 6	6.00	Philadelphia	PA	Eastern	1
7	Store No. 7	7.00	Pittsburgh	PA	Eastern	1
8	Store No. 8	8.00	New Orleans	LA	South West	1
9	Store No. 9	9.00	Seattle	WA	Pacific	1
10	Store No. 10	10.00	Dallas	TX	South West	1
11	Store No. 11	11.00	Cincinnati	OH	Mid West	1
12	Store No. 12	12.00	Minneapolis	MN	Mid West	1
13	Store No. 13	13.00	Louisville	KY	Mid West	1
14	Store No. 14	14.00	Phoenix	AZ	Mountain	1
15	Store No. 15	15.00	Denver	CO	Mountain	1
16	Store No. 16	16.00	St. Louis	MO	Mid West	1
17	Store No. 17	17.00	Washington	DC	Mid Atlantic	1
18	Store No. 18	18.00	Miami	FL	South East	1
19	Store No. 19	19.00	Boston	MA	Eastern	1
20	Store No. 20	20.00	Nashville	TN	Mid West	1

At the bottom, a message says 'Query executed successfully.'

Verify 20 Rows for Store Dimension