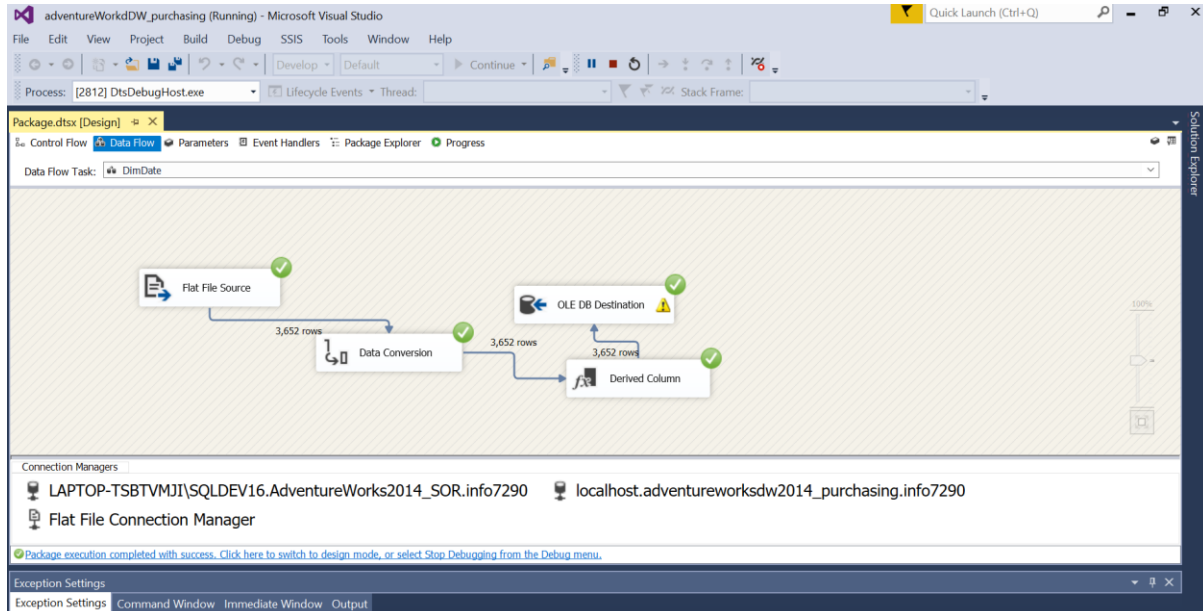


# Assignment

## PurchaseDW(SSIS)

- 1) DimDate  
Total rows:2652

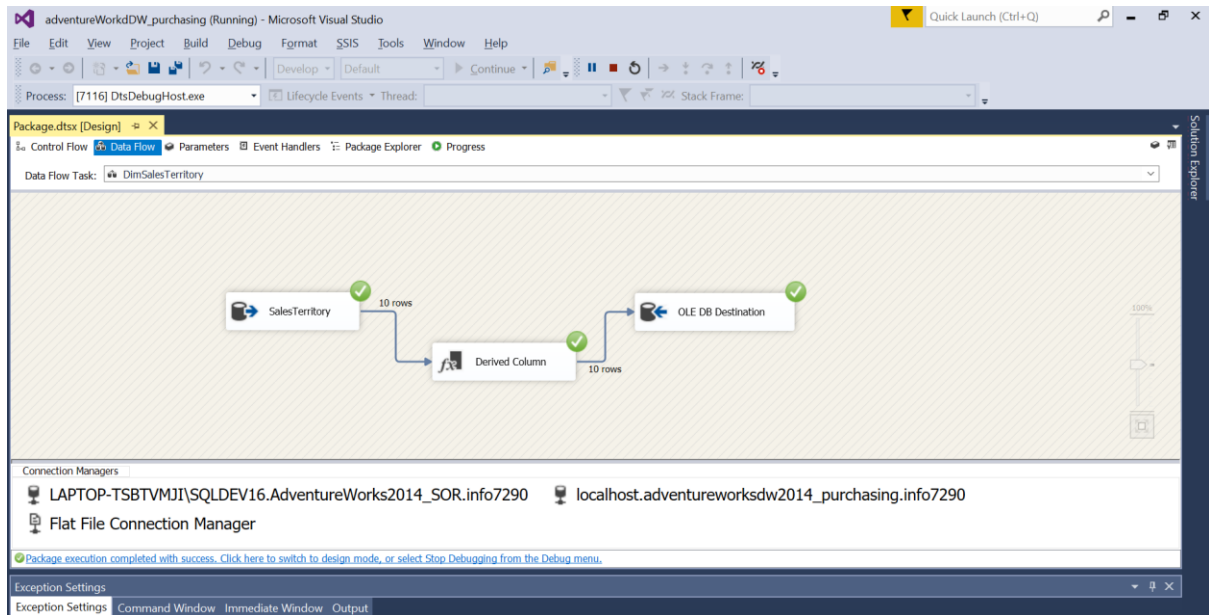


The screenshot shows the SQL Server Enterprise Manager interface. The 'Object Explorer' on the left shows the 'LAPTOP-TS8TVMJI\SQLDEV16 (SQL Server 13.0.4202.2)' server. The 'Query Editor' in the center shows the query 'select \* from dbo.DimDate;'. The 'Results' pane displays the data from the DimDate table. The 'Properties' pane on the right shows the 'Aggregate Status' and 'Connection' details for the 'LAPTOP' connection.

DateSK	FullDateAK	DayNumberOfWeek	DayNameOfWeek	DayNameOfWeekAbbr	DayNumberOfMonth	DayNumberOFY
1	2005-01-01	7	Saturday	Sat	1	1
2	2005-01-02	1	Sunday	Sun	2	2
3	2005-01-03	2	Monday	Mon	3	3
4	2005-01-04	3	Tuesday	Tue	4	4
5	2005-01-05	4	Wednesday	Wed	5	5
6	2005-01-06	5	Thursday	Thu	6	6
7	2005-01-07	6	Friday	Fri	7	7
8	2005-01-08	7	Saturday	Sat	8	8
9	2005-01-09	1	Sunday	Sun	9	9
10	2005-01-10	2	Monday	Mon	10	10
11	2005-01-11	3	Tuesday	Tue	11	11
12	2005-01-12	4	Wednesday	Wed	12	12
13	2005-01-13	5	Thursday	Thu	13	13
14	2005-01-14	6	Friday	Fri	14	14
15	2005-01-15	7	Saturday	Sat	15	15
16	2005-01-16	1	Sunday	Sun	16	16
17	2005-01-17	2	Monday	Mon	17	17
18	2005-01-18	3	Tuesday	Tue	18	18
19	2005-01-19	4	Wednesday	Wed	19	19
20	2005-01-20	5	Thursday	Thu	20	20

## 2) Dim Sales Territory

Total rows:10



SQLQuery8.sql - LAPTOP-TS8TVMJI\SQLDEV16.adventureworksdw2014\_purchasing (info7290 (63)) - Microsoft SQL Server Management Studio

Object Explorer

- Production.ScrapReason
- Production.TransactionHistory
- Production.TransactionHistoryArchive
- Production.UnitMeasure
- Production.WorkOrder
- Production.WorkOrderRouting
- Purchasing.ProductVendor
- Purchasing.PurchaseOrderDetail
- Purchasing.PurchaseOrderHeader
- Purchasing.ShipMethod
- Purchasing.Vendor
- Sales.CountryRegionCurrency
- Sales.CreditCard
- Sales.Currency
- Sales.CurrencyRate
- Sales.Customer
- Sales.PersonCreditCard
- Sales.SalesOrderDetail
- Sales.SalesOrderHeader
- Sales.SalesOrderHeaderSalesReason
- Sales.SalesPerson
- Sales.SalesPersonQuotaHistory
- Sales.SalesReason
- Sales.SalesTaxRate
- Sales.SalesTerritory
- Sales.SalesTerritoryHistory

SQLQuery8.sql - LAPTOP-TS8TVMJI\SQLDEV16 (info7290 (63))

```
select * from dbo.DimDate;  
  
delete from dbo.DimDate;  
  
select * from dbo.DimSalesTerritory;
```

Results

	SalesTerritorySK	SalesTerritoryID	SalesTerritoryName	CountryRegionCode	SalesTerritoryGroup	SOR_ID	SOR_LoadDate
1	21	1	Northwest	US	North America	-1	NULL
2	22	2	Northeast	US	North America	-1	NULL
3	23	3	Central	US	North America	-1	NULL
4	24	4	Southwest	US	North America	-1	NULL
5	25	5	Southeast	US	North America	-1	NULL
6	26	6	Canada	CA	North America	-1	NULL
7	27	7	France	FR	Europe	-1	NULL
8	28	8	Germany	DE	Europe	-1	NULL
9	29	9	Australia	AU	Pacific	-1	NULL
10	30	10	United Kingdom	GB	Europe	-1	NULL

Properties

Current connection parameters

Aggregate Status

Connection failure:

Elapsed time: 00:00:00

Finish time: 27-06-2017 10:00:00

Name: LAPTOP

Rows returned: 10

Start time: 27-06-2017 10:00:00

State: Open

Connection

Connection name: LAPTOP

Connection Details

Connection elapsed: 00:00:00

Connection encrypted: Not encrypted

Connection finish time: 27-06-2017 10:00:00

Connection rows returned: 10

Connection start time: 27-06-2017 10:00:00

Connection state: Open

Display name: LAPTOP

Login name: info7290

Server name: LAPTOP

Server version: 13.0.4201.1

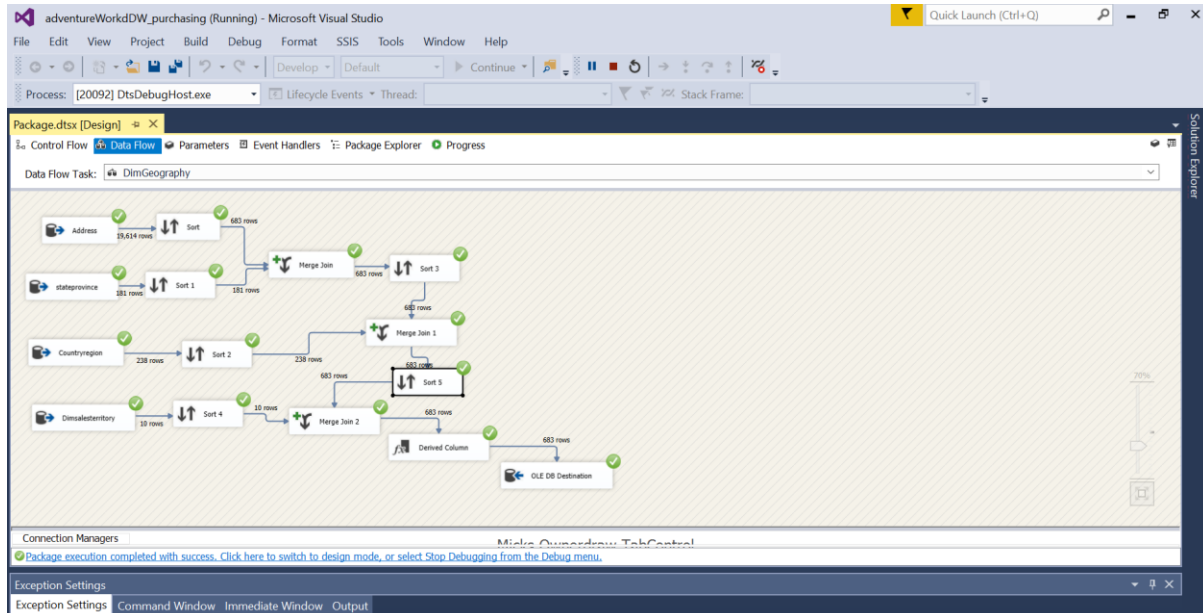
Name

The name of the connection.

Query executed successfully. LAPTOP-TS8TVMJI\SQLDEV16 (1... info7290 (63)) adventureworksdw2014\_p... 00:00:00 10 rows

### 3) Dim Geography

Total rows:683



The screenshot shows the execution of a SQL query in Microsoft SQL Server Management Studio. The query is as follows:

```

select * from dbo.DimDate;

delete from dbo.DimDate;

delete from dbo.DimSalesTerritory;

delete from dbo.DimGeography;

select * from dbo.DimGeography;

```

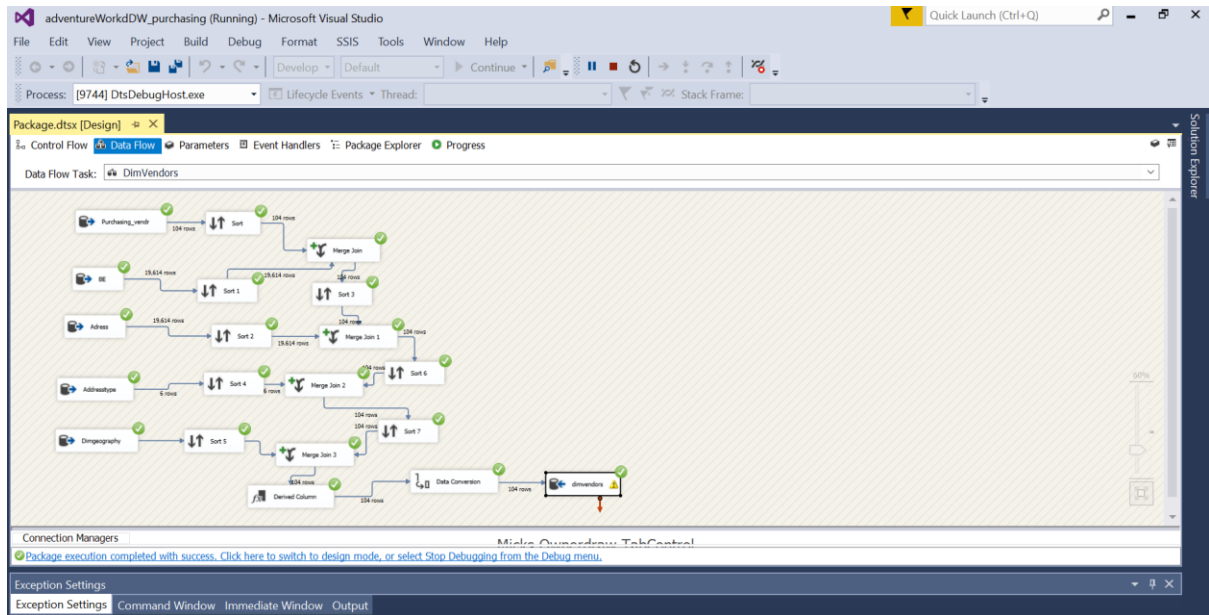
The results show 10 rows of data from DimGeography:

GeoSK	City	StateProvinceCode	StateProvinceName	IsOnlyStateProvinceFlag	CountryRegionCode	CountryReg
1	722	Albany	OR	Oregon	0	US
2	723	Anacortes	WA	Washington	0	US
3	724	Ballard	WA	Washington	0	US
4	725	Beaverton	OR	Oregon	0	US
5	726	Bellevue	WA	Washington	0	US
6	727	Bellingham	WA	Washington	0	US
7	728	Billings	MT	Montana	0	US
8	729	Boise	ID	Idaho	0	US
9	730	Bothell	WA	Washington	0	US
10	731	Bountiful	UT	Utah	0	US

The Properties window on the right shows the connection details for 'LAPTOP'.

#### 4)Dim Vendors

Total rows: 104



SQLQuery8.sql - LAPTOP-TS8TVMJ\SQLDEV16Adventureworks2014\_purch...

File Edit View Query Project Debug Tools Window Help

Adventureworks2014\_pu...

Execute Debug

Object Explorer

Connect

Tables

- System Tables
- FileTables
- External Tables
- dbo.Dim\_Reject\_Codes
- dbo.Dim\_SOR
- dbo.Dim\_SOR\_System
- dbo.DimDate
- dbo.DimEmployee
- dbo.DimGeography
- dbo.DimLocation
- dbo.DimPayHistory
- dbo.DimProductCostHistory\_SCD
- dbo.DimProductPriceHistory\_SCD
- dbo.DimProducts
- dbo.DimProducts\_Purchased
- dbo.DimProductVendor
- dbo.DimSalesTerritory
- dbo.DimScrapReason
- dbo.DimShipMethod
- dbo.DimVendorContacts
- dbo.DimVendors
- dbo.Fact\_WorkOrder
- dbo.Fact\_WorkOrder\_Rejects
- dbo.Fact\_WorkOrderRouting
- dbo.Fact\_WorkOrderRouting\_Rejects

SQLQuery8.sql - LAP...ing (info7290 (63))

```
select * from dbo.DimDate;

delete from dbo.DimDate;

delete from dbo.DimSalesTerritory;

delete from dbo.DimGeography;

delete from dbo.DimVendors;

select * from dbo.DimVendors;
```

100 %

Results Messages

	VendorSK	BusinessEntityID	AccountNumber	VendorName	CreditRating	PreferredVendorStatus
1	316	1500	MORGANB0001	Morgan Bike Accessories	1	T
2	317	1666	LEAFRIV0001	Leaf River Terrain	1	F
3	318	1494	ALLENSON0001	Allenson Cycles	2	T
4	319	1516	GARDNER0001	Gardner Touring Cycles	1	F
5	320	1622	SPEEDCO0001	Speed Corporation	1	T
6	321	1642	ELECTRON0001	Electronic Bike Co.	1	T
7	322	1662	NORTHERN0001	Northern Bike Travel	3	T
8	323	1624	COMPETIT0001	Competition Bike Training Systems	1	T
9	324	1614	RELIANCE0001	Reliance Fitness, Inc.	2	F
10	325	1562	NORSTAN0001	Norstan Bike Hut	1	T
11	326	1594	FITNESS0001	Fitness Association	1	T
12	327	1492	ASTORIA0001	Astoria Bike Products	1	T

Properties

Current connection parameters

Aggregate Status

Connection failure

Elapsed time 00:00:00

Finish time 27-06-20

Name LAPTOP

Rows returned 104

Start time 27-06-20

State Open

Connection

Connection name LAPTOP

Connection Details

Connection elapsed 00:00:00

Connection encrypt Not encrypted

Connection finish 27-06-20

Connection rows n 104

Connection start time 27-06-20

Connection state Open

Display name LAPTOP

Login name info7290

Server name LAPTOP

Server version 13.0.4202

Name

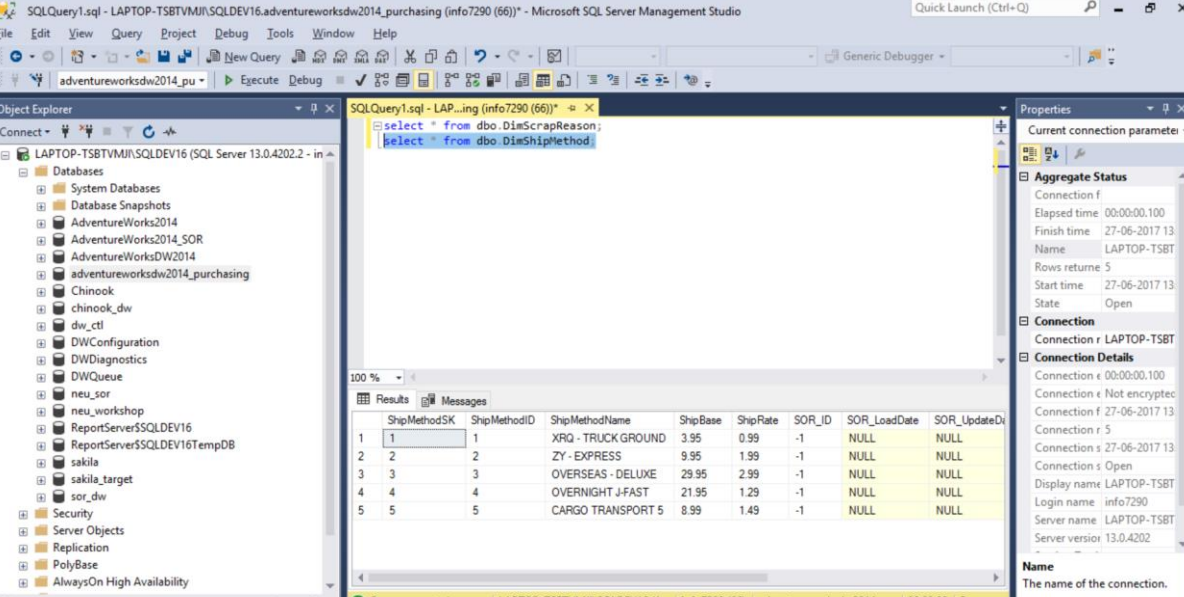
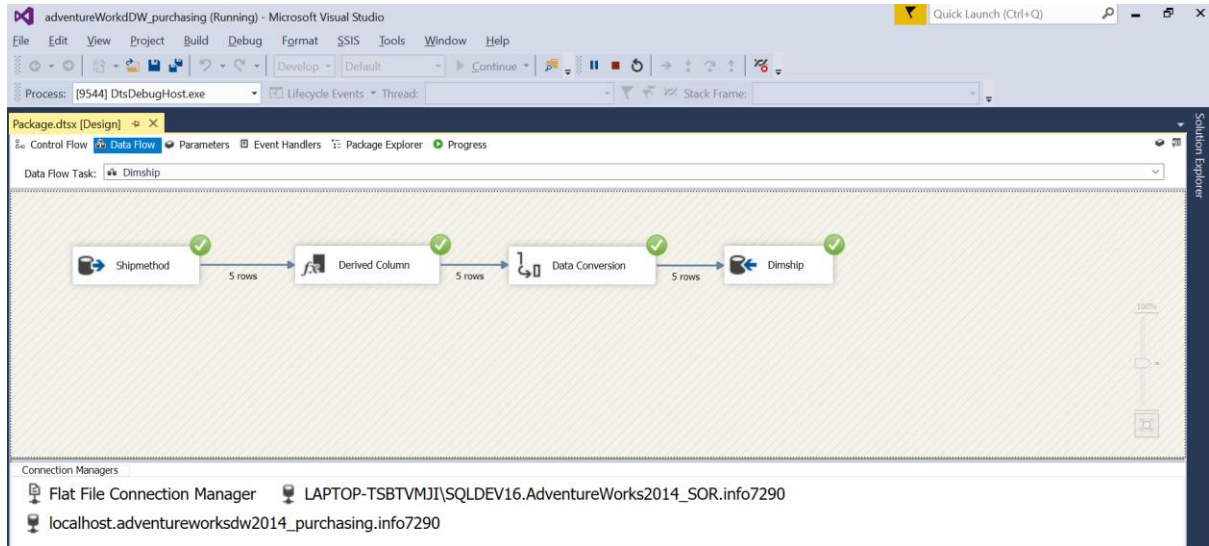
The name of the connection.

Query executed successfully LAPTOP-TS8TVMJ\SQLDEV16 (1... info7290 (63) Adventureworks2014\_purch... 00:00:00 104 rows



#### 4) Dim shipmethod

Total rows: 5



The screenshot shows the SQL Server Enterprise Manager interface. The 'Object Explorer' on the left displays the database structure of 'LAPTOP-TSBTVMJI\SQLDEV16 (SQL Server 13.0.4202.2 - in ...)'. The 'Query Editor' in the center shows a query executed against the 'AdventureWorks2014\_purchasing' database. The 'Results' pane displays the output of the query, which is a table with 8 columns and 5 rows. The 'Properties' pane on the right shows the connection details for the current connection.

Query:

```
select * from dbo.DimScrapReason;
select * from dbo.DimShipMethod;
```

Results:

	ShipMethodSK	ShipMethodID	ShipMethodName	ShipBase	ShipRate	SOR_ID	SOR_LoadDate	SOR_UpdateDate
1	1	1	XRQ - TRUCK GROUND	3.95	0.99	-1	NULL	NULL
2	2	2	ZY - EXPRESS	9.95	1.99	-1	NULL	NULL
3	3	3	OVERSEAS - DELUXE	29.95	2.99	-1	NULL	NULL
4	4	4	OVERNIGHT J-FAST	21.95	1.29	-1	NULL	NULL
5	5	5	CARGO TRANSPORT 5	8.99	1.49	-1	NULL	NULL

Properties:

- Aggregate Status: Connection f, Elapsed time: 00:00:00.100, Finish time: 27-06-2017 13, Name: LAPTOP-TSBT, Rows returned: 5, Start time: 27-06-2017 13, State: Open
- Connection: Connection r LAPTOP-TSBT
- Connection Details: Connection e 00:00:00.100, Connection e Not encrypted, Connection f 27-06-2017 13, Connection r 5, Connection s 27-06-2017 13, Connection s Open, Display name LAPTOP-TSBT, Login name info7290, Server name LAPTOP-TSBT, Server version 13.0.4202
- Name: The name of the connection.

5) Dim Products purchased  
Total rows: 265

The image consists of two screenshots. The top screenshot shows the Microsoft Visual Studio interface with a SQL Package.dtsx [Design] view. The Data Flow Task is named 'Dimprodurchased'. The design view shows a complex data flow starting from a 'Product' table, branching into 'ProductSubcategory', 'ProductSubcategoryID', and 'ProductSubcategoryName' tables. These tables are then joined into a single stream, which is then loaded into the 'DimProducts\_Purchased' table. The bottom screenshot shows the Microsoft SQL Server Management Studio interface. The 'Object Explorer' on the left shows the 'AdventureWorks2014\_purchasing' database. The 'SQLQuery1.sql - LAP...ing (info7290 (66))' window displays a query that selects data from 'dbo.DimScrapReason', 'dbo.DimShipMethod', and 'dbo.DimProducts\_Purchased'. The 'Results' pane shows the query output, which is a table with columns: ProductPurchasedSK, ProductID, ProductNumber, ProductName, ProductSubcategoryID, and ProductSubcategoryName. The 'Properties' pane on the right shows the 'Aggregate Status' and 'Connection Details' for the current connection.

Microsoft Visual Studio - Package.dtsx [Design]

Data Flow Task: Dimprodurchased

Connection Managers: Flat File Connection Manager, LAPTOP-TSBTVMJI\SQLDEV16.AdventureWorks2014\_SOR.info7290

Microsoft SQL Server Management Studio - SQLQuery1.sql - LAP...ing (info7290 (66))

Object Explorer: LAPTOP-TSBTVMJI\SQLDEV16 (SQL Server 13.0.4202.2 - in...)

SQLQuery1.sql - LAP...ing (info7290 (66))

```
select * from dbo.DimScrapReason;
select * from dbo.DimShipMethod;
select * from dbo.DimProducts_Purchased;
```

Results

ProductPurchasedSK	ProductID	ProductNumber	ProductName	ProductSubcategoryID	ProductSubcategoryName
1	1	AR-5381	Adjustable Race	NULL	NULL
2	2	465	LW-1201	Lock Washer 10	NULL
3	3	464	LW-1200	Lock Washer 5	NULL
4	4	463	LW-1000	Lock Washer 4	NULL
5	5	462	LR-8520	Lower Head Race	NULL
6	6	461	LR-2398	Lock Ring	NULL
7	7	460	LN-9161	Lock Nut 18	NULL
8	8	459	LN-9080	Lock Nut 19	NULL
9	9	458	LN-8320	Lock Nut 4	NULL
10	10	457	LN-7162	Lock Nut 15	NULL
11	11	454	LN-5818	Lock Nut 21	NULL
12	12	456	LN-7161	Lock Nut 14	NULL
13	13	466	LW-1400	Lock Washer 6	NULL
14	14	467	LW-3400	Lock Washer 13	NULL

Properties

Current connection parameters

Aggregate Status

Connection f

Elapsed time 00:00:00.216

Finish time 27-06-2017 13

Name LAPTOP-TSBT

Rows returned 265

Start time 27-06-2017 13

State Open

Connection

Connection r LAPTOP-TSBT

Connection Details

Connection e 00:00:00.216

Connection e Not encrypted

Connection f 27-06-2017 13

Connection r 265

Connection s 27-06-2017 13

Connection s Open

Display name LAPTOP-TSBT

Login name info7290

Server name LAPTOP-TSBT

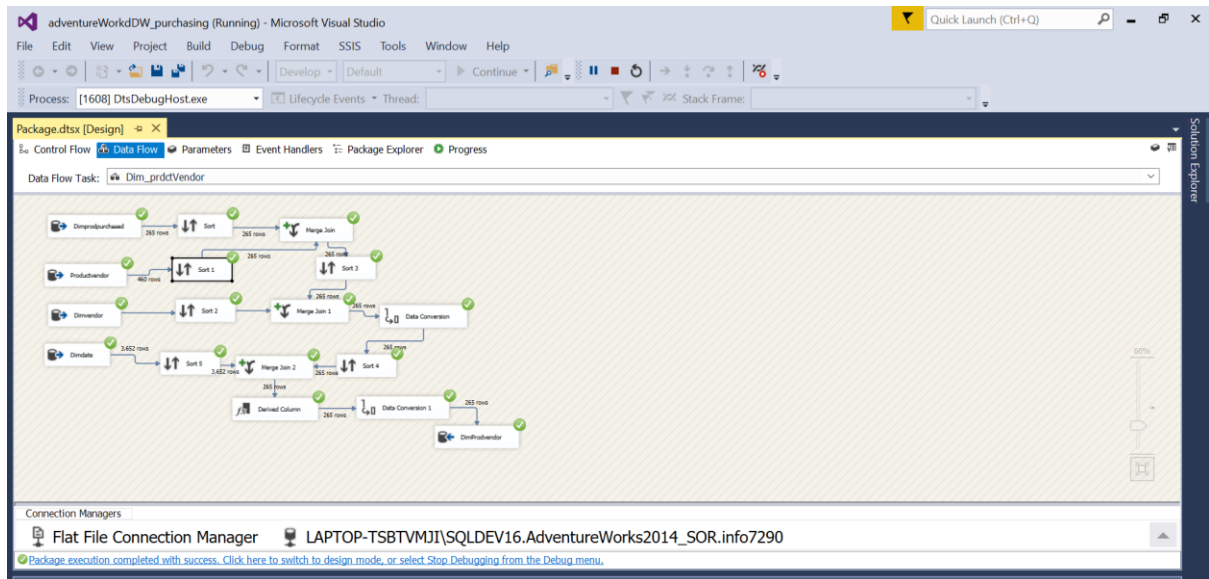
Server version 13.0.4202

Name

The name of the connection.

## 6) Dim\_ProductVendor

Total rows: 265



The screenshot shows the SQL Server Management Studio interface with a query executed against the 'DimProductVendor' table. The query results are displayed in a table with the following columns: ProductVendorSK, ProductPurchasedSK, VendorSK, ProductID, VendorID, AverageLeadTime, StandardPrice, and LastRec. The status bar at the bottom indicates 'Query executed successfully'.

ProductVendorSK	ProductPurchasedSK	VendorSK	ProductID	VendorID	AverageLeadTime	StandardPrice	LastRec
1841	1598	NULL	459	1656	16	45.33	47.59
1842	1602	NULL	456	1656	16	47.33	49.69
1843	1599	NULL	458	1656	16	41.26	43.32
1844	1620	NULL	455	1656	16	43.26	45.42
1845	1628	NULL	453	1656	16	35.41	37.18
1846	1618	NULL	452	1656	16	39.48	41.45
1847	1617	NULL	451	1656	16	35.41	37.18
1848	1736	NULL	415	1616	17	37.21	39.07
1849	1626	NULL	429	1492	17	39.26	41.22
1850	1715	NULL	373	1554	19	39.33	41.29
1851	1696	NULL	370	1554	19	41.33	43.39
1852	1720	NULL	372	1554	19	35.26	37.02
1853	1621	NULL	434	1492	17	37.26	39.12
1854	1748	NULL	419	1616	17	33.21	34.87
1855	1622	NULL	433	1492	17	41.33	43.39
1856	1752	NULL	382	1536	15	41.21	43.27
1857	1601	NULL	477	1666	16	45.49	47.76



## 7) Dim\_Vendorcontacts

Total rows: 104

