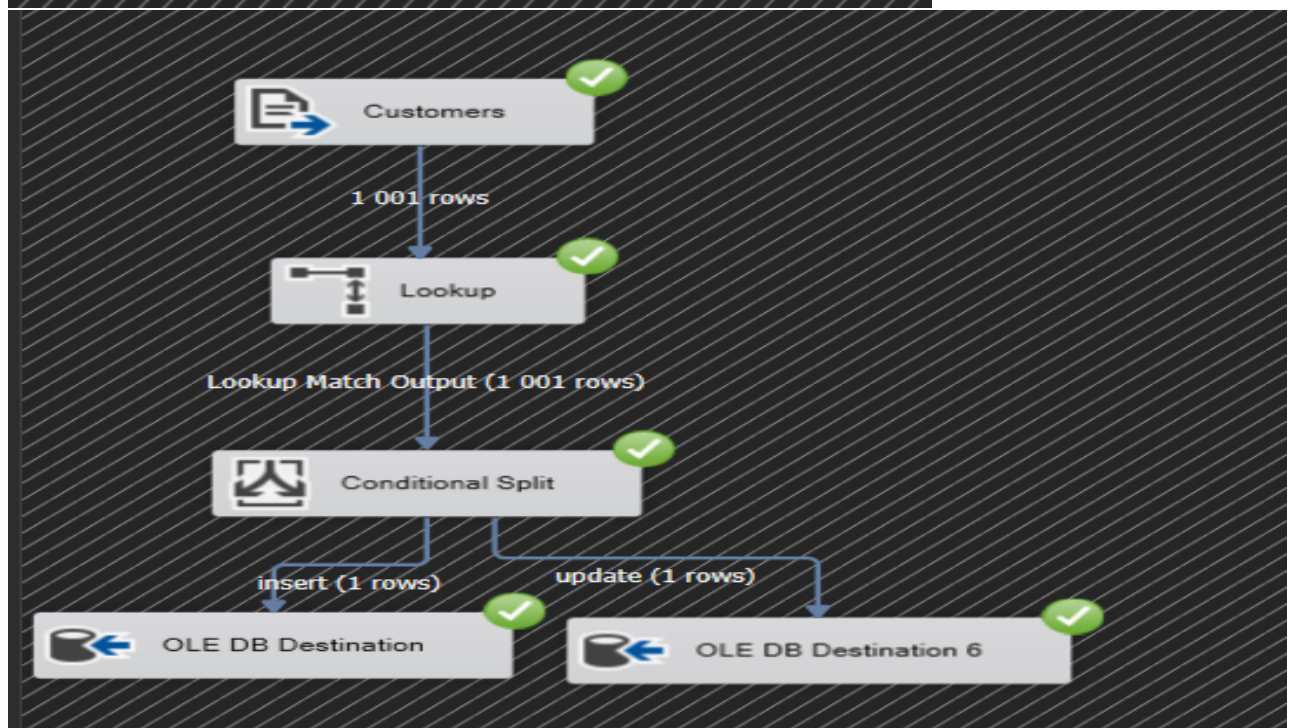
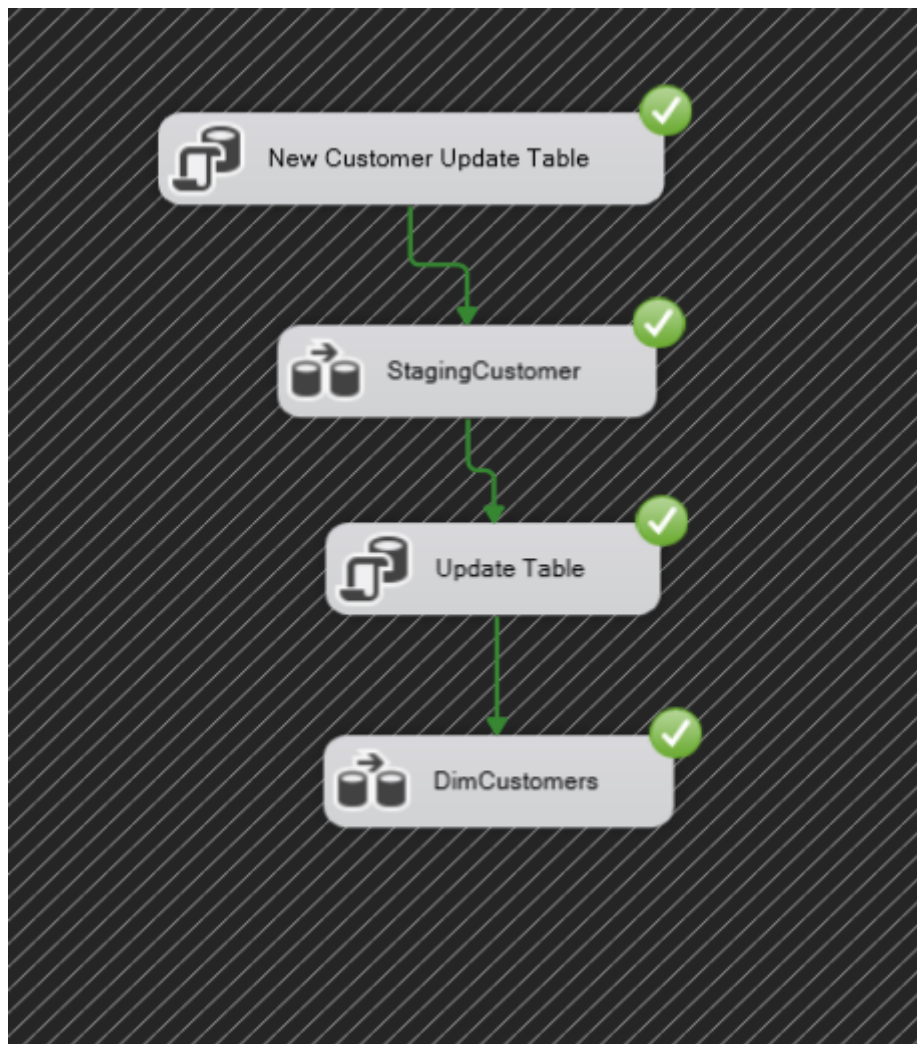


## Zadanie 1



Staging.dtsx [Design] Execute SQL Task Editor

Configure the properties required to run SQL statements and stored procedures using the se

General  
Parameter Mapping  
Result Set  
Expressions

Enter SQL Query

```
USE [cwczenia5_staging]
GO

/***** Object: Table [dbo].[customers_update] Script Date:
09.11.2022 01:25:11 *****/
IF EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[dbo].[customers_update]') AND type in (N'U'))
DROP TABLE [dbo].[customers_update]
GO

/***** Object: Table [dbo].[customers_update] Script Date:
09.11.2022 01:25:11 *****/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[customers_update](
    [id] [smallint] NULL,
    [first_name] [varchar](11) NULL,
    [last_name] [varchar](15) NULL,
    [street] [varchar](31) NULL,
    [city] [varchar](27) NULL,
    [state] [varchar](25) NULL,
    [country] [varchar](13) NULL,
    [phone] [varchar](12) NULL,
    [email] [varchar](35) NULL,
    [output_id] [smallint] NULL,
    [output_first_name] [varchar](11) NULL,
    [output_last_name] [varchar](15) NULL,
    [output_street] [varchar](31) NULL
)
```

OK Cancel

Connection Managers

Customers LocalHost.cwczenia4 LocalHost.cwczenia5\_staging

Staging.dtsx [Design] Execute SQL Task Editor

Configure the properties required to run SQL statements and stored procedures using the se

General  
Parameter Mapping  
Result Set  
Expressions

Enter SQL Query

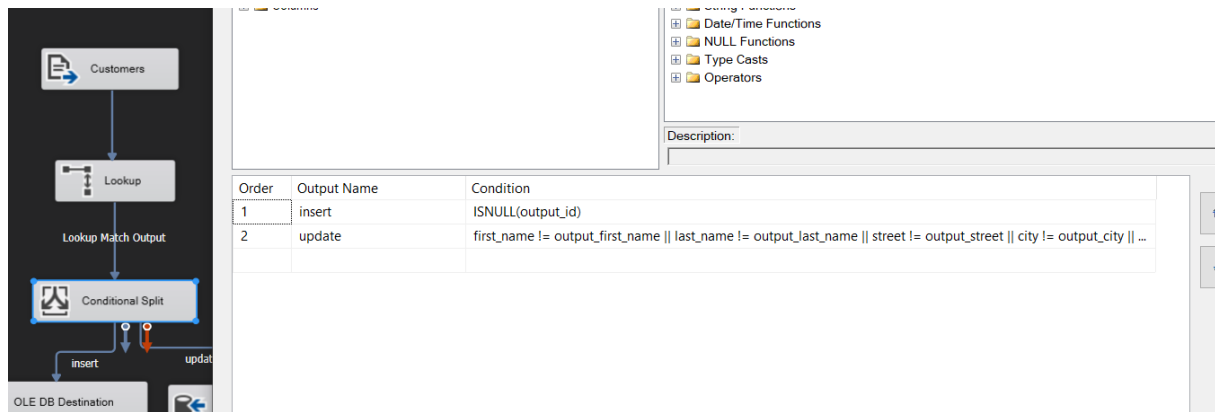
```
update c
set c.first_name = cu.first_name,
c.last_name=cu.last_name,
c.street=cu.street,
c.city=cu.city,
c.state=cu.state,
c.country=cu.country,
c.phone=cu.phone,
c.email=cu.email
from Customers c
inner join customers_update cu on c.[id]=cu.[id]
```

OK Cancel

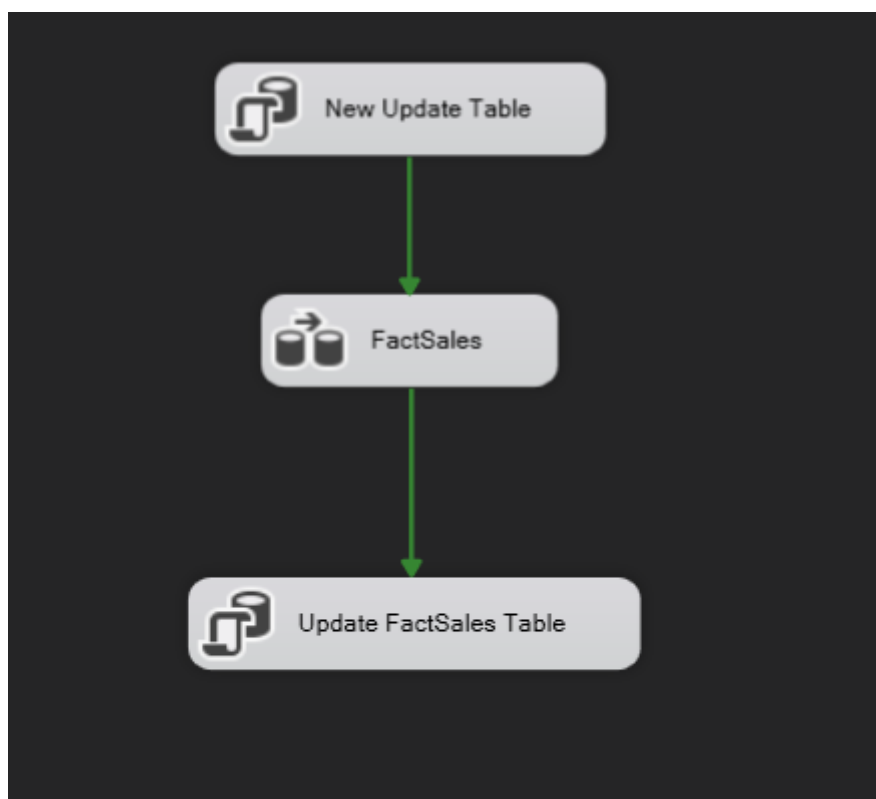
Browse... Build Query... Parse Query

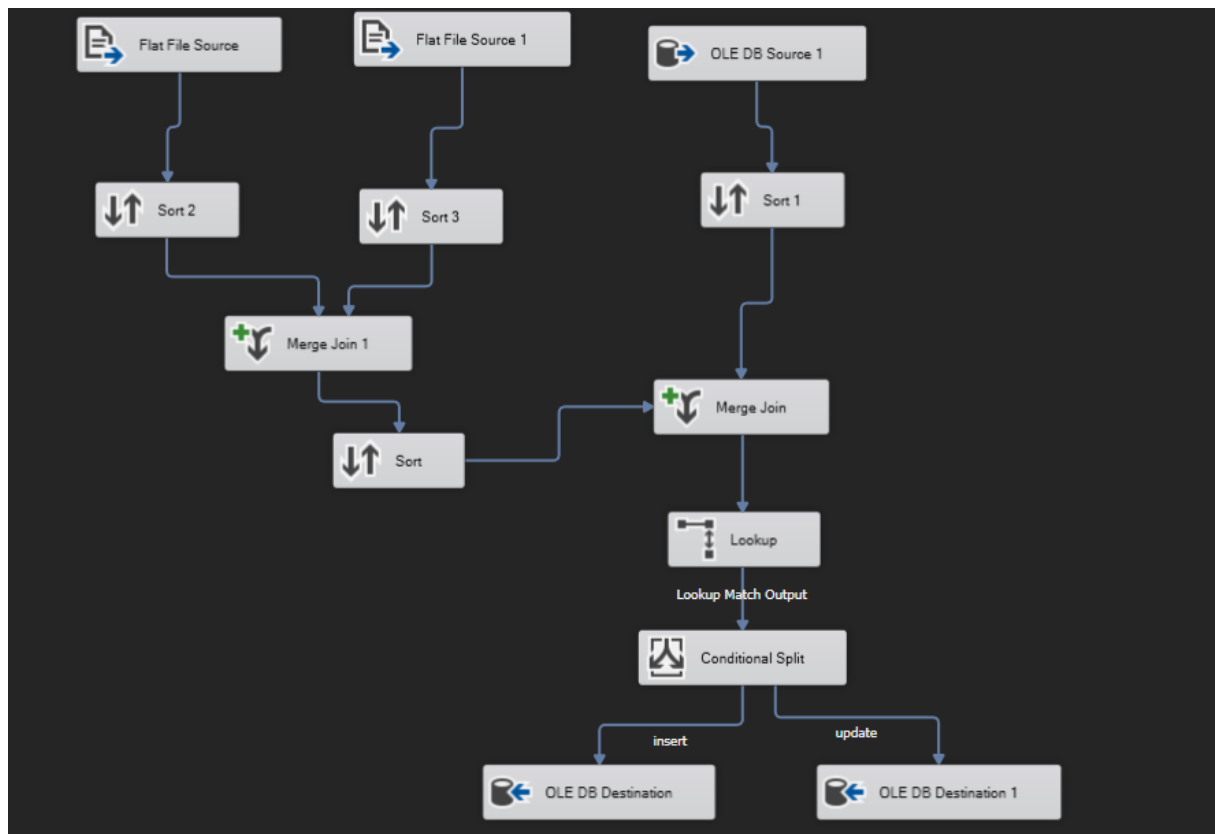
Connection Managers

Customers LocalHost.cwczenia4 LocalHost.cwczenia5\_staging



## Zadanie 2





99 %

Results Messages

	CustomerKey	order_id	date	time	carrier_id	order_details_id	pizza_id	quantity
1	1	1675	2015-01-29	1899-12-30 12:26:53.000	2	3774	spicy_ital_s	1
2	1	15360	2015-09-14	1899-12-30 12:57:49.000	4	34797	hawaiian_s	1
3	1	17801	2015-10-30	1899-12-30 21:11:15.000	2	40400	sicilian_m	1
4	1	1675	2015-01-29	1899-12-30 12:26:53.000	2	3773	sicilian_l	1
5	1	15166	2015-09-11	1899-12-30 13:15:14.000	3	34363	veggie_veg_m	1
6	1	17801	2015-10-30	1899-12-30 21:11:15.000	2	40401	southw_ckn_l	1
7	1	2884	2015-02-17	1899-12-30 22:06:26.000	1	6517	hawaiian_l	1
8	1	14973	2015-09-08	1899-12-30 11:47:21.000	1	33906	classic_dlx_m	1
9	1	19749	2015-12-02	1899-12-30 12:55:36.000	3	44932	pep_msh_pep_m	1
10	1	696	2015-01-12	1899-12-30 13:49:40.000	3	1558	spicy_ital_s	1
11	1	15166	2015-09-11	1899-12-30 13:15:14.000	3	34362	spinach_supr_s	1

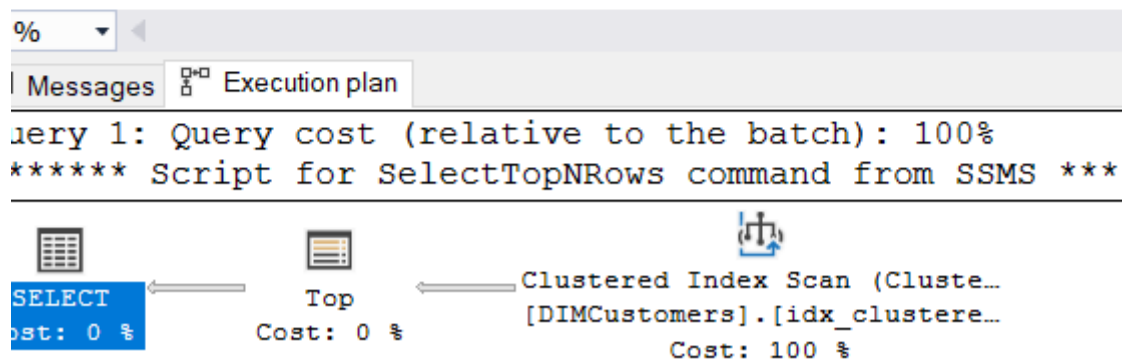
### Zadanie 3

```
CREATE CLUSTERED INDEX idx_clustered_on_state ON DIMCustomers(state);
```

```

/***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [idkey]
    ,[id]
    ,[first_name]
    ,[last_name]
    ,[street]
    ,[city]
    ,[state]
    ,[country]
    ,[phone]
    ,[email]
    ,[effStartDate]
    ,[effEndDate]
FROM [cwiczenia5].[dbo].[DIMCustomers]

```



#### Zadanie 4

```

CREATE VIEW FactsSalesCarrier WITH SCHEMABINDING AS
SELECT s.CustomerKey,s.order_id,s.date,s.time,s.carrier_id,s.order_details_id,s.pizza_id,s.quantity
,c.carrier_name,c.contact_person,c.address,c.tax_id
FROM [dbo].[FactSales] s
INNER JOIN [dbo].[Carrier] c
ON s.carrier_id=c.carrier_id;

CREATE UNIQUE CLUSTERED INDEX idx_clustered_view ON FactsSalesCarrier(
CustomerKey,order_id,date,time,carrier_id,order_details_id,pizza_id,quantity,carrier_name,contact_person,address,tax_id);

```

```

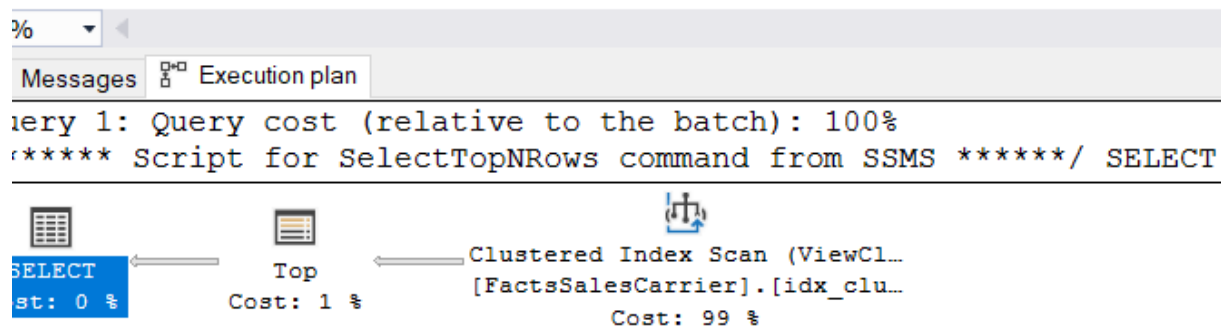
/***** Script for SelectTopNRows command from SSMS *****/

```

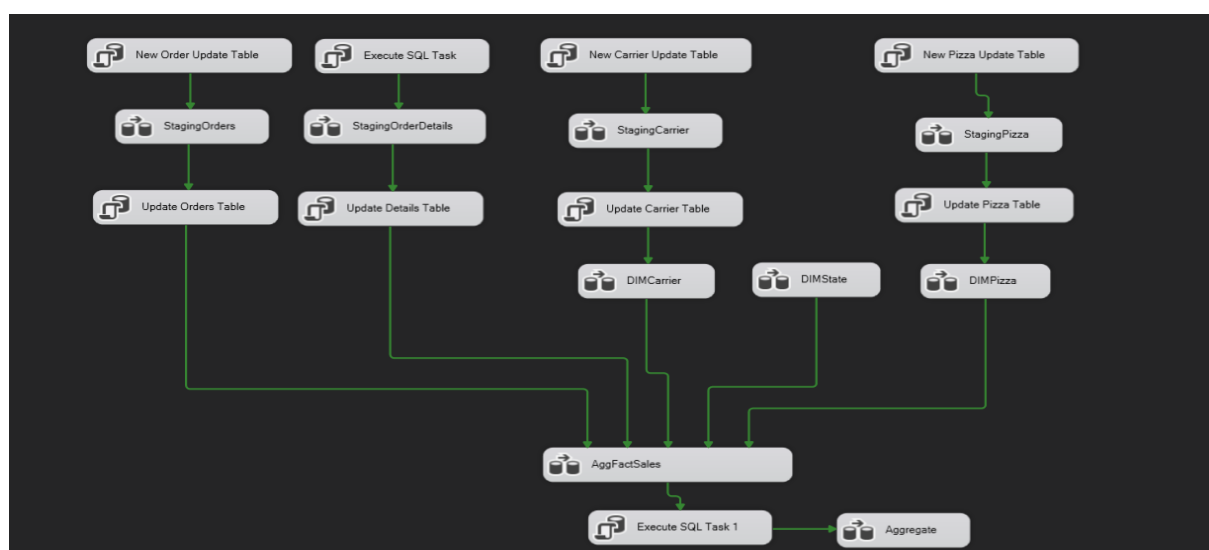
```

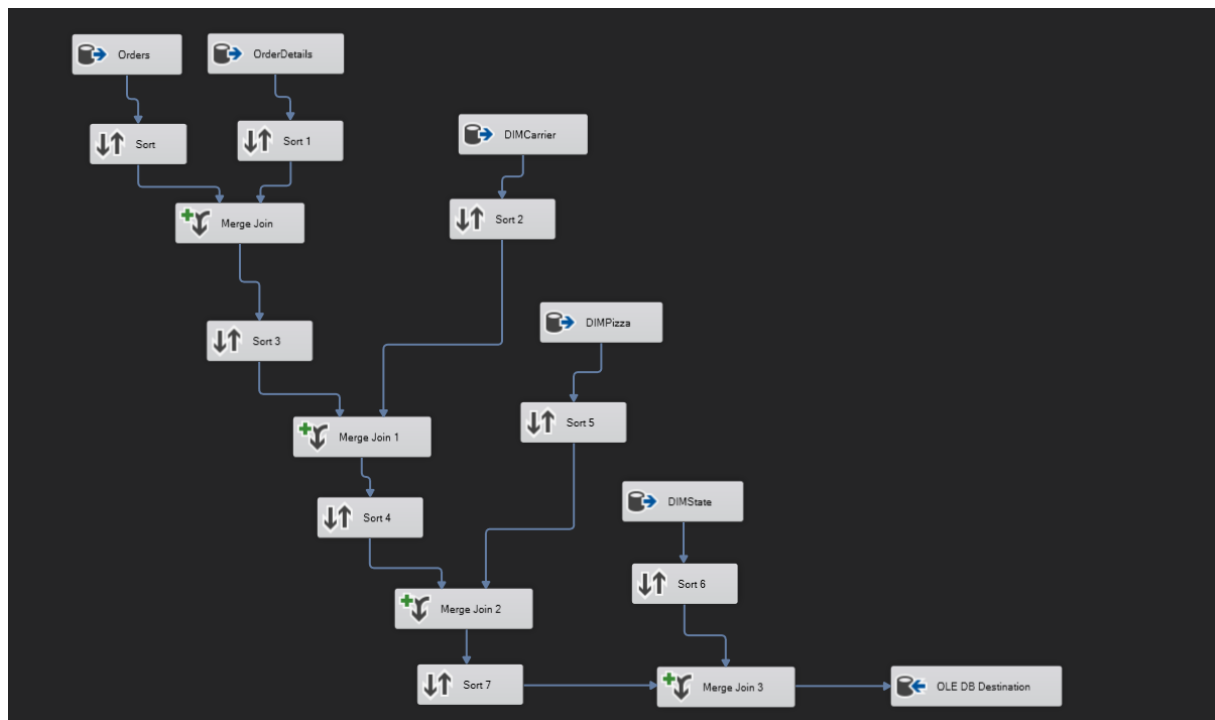
SELECT TOP (1000) [CustomerKey]
    ,[order_id]
    ,[date]
    ,[time]
    ,[carrier_id]
    ,[order_details_id]
    ,[pizza_id]
    ,[quantity]
    ,[carrier_name]
    ,[contact_person]
    ,[address]
    ,[tax_id]
FROM [cwiczenia5].[dbo].[FactsSalesCarrier]

```



## Zadanie 5





**Allowed**

**Enter SQL Query**

```
USE [cwiczenia5]
GO

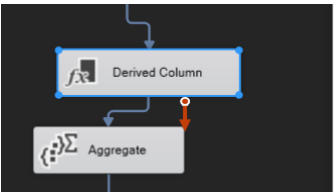
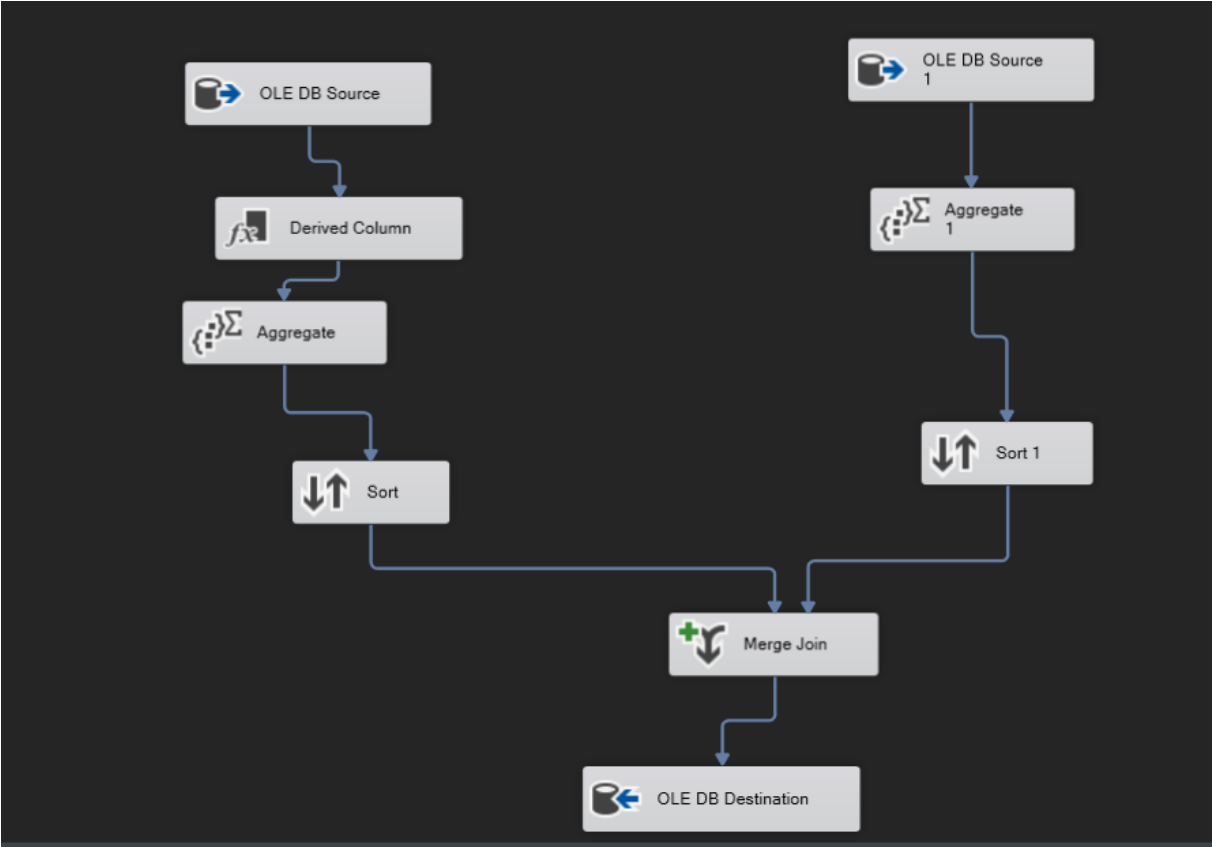
/***** Object Table [dbo].[new_table] Script Date: 09.11.2022
21:46:13 *****/
IF EXISTS (SELECT * FROM sys.objects WHERE object_id =
OBJECT_ID(N'[dbo].[new_table]') AND type in (N'U'))
DROP TABLE [dbo].[new_table]
GO

select *, CONVERT(float, price) as price_num
INTO new_table FROM FactSales ToAgg
```

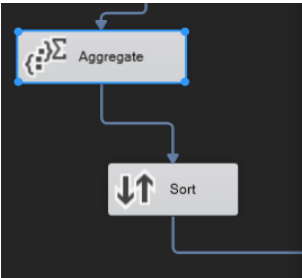
OK Cancel

This SSIS Data Flow Task diagram shows a data flow starting from an 'Update Carrier Table' task. The data is then loaded into a data warehouse table 'AggFactSales'. From there, the data is passed to an 'Execute SQL Task 1', which is highlighted with a blue border. The task is configured to execute the SQL query shown in the 'Enter SQL Query' dialog box. The background of the diagram shows a simplified version of the data flow from the first image, with 'DIMCarrier' and 'DIMState' tables feeding into the 'AggFactSales' table.

Customers LocalHost.cwiczenia4 LocalHost.cwiczenia4\_staging LocalHost.cwiczenia5 LocalHost.cwiczenia5\_staging

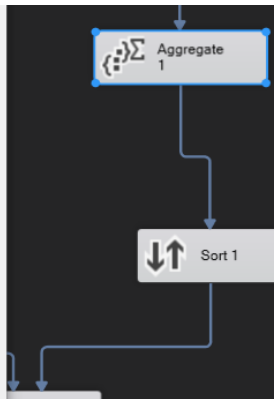


Description:				
Derived Column Name	Derived Column	Expression	Data Type	Length
amount_per_order	<add as new column>	price_num * quantity	double-precision flo...	



<div>quantity</div>			
Input Column	Output Alias	Operation	Comparison
amount_per_order	amount_of_all_orders	Sum	
date	date	Group by	

<div>date</div> <div>quantity</div>			
Input Column	Output Alias	Operation	Comparison
date	date	Group by	
carrier_key	carrier_key	Group by	
pizza_key	pizza_key	Group by	
state	state	Group by	
pizza_key	amount_sold	Count	





```

/***** Script for Selecttopnrows command from SSMS *****/
SELECT TOP (1000) [date]
, [carrier_key]
, [pizza_key]
, [state]
, [amount_sold]
, [amount_of_all_orders]
FROM [cwiczenia5].[dbo].[DailySales]

```

99 %

Results Messages

	date	carrier_key	pizza_key	state	amount_sold	amount_of_all_orders
1	2015-01-01	3	50	Montana	2	8133,04
2	2015-01-01	4	1	British Columbia	3	8133,04
3	2015-01-01	4	87	Ohio	3	8133,04
4	2015-01-01	2	6	South Dakota	3	8133,04
5	2015-01-01	3	54	Montana	2	8133,04
6	2015-01-01	4	3	British Columbia	3	8133,04
7	2015-01-01	2	12	Ohio	3	8133,04