TutorialGateway

Conditional Split Transformation in SSIS

A Conditional Split Transformation in SSIS is just like the IF condition or CASE statement. It checks the given condition and based on the condition result, the output will send to the appropriate destination path. It has ONE input and MANY outputs.

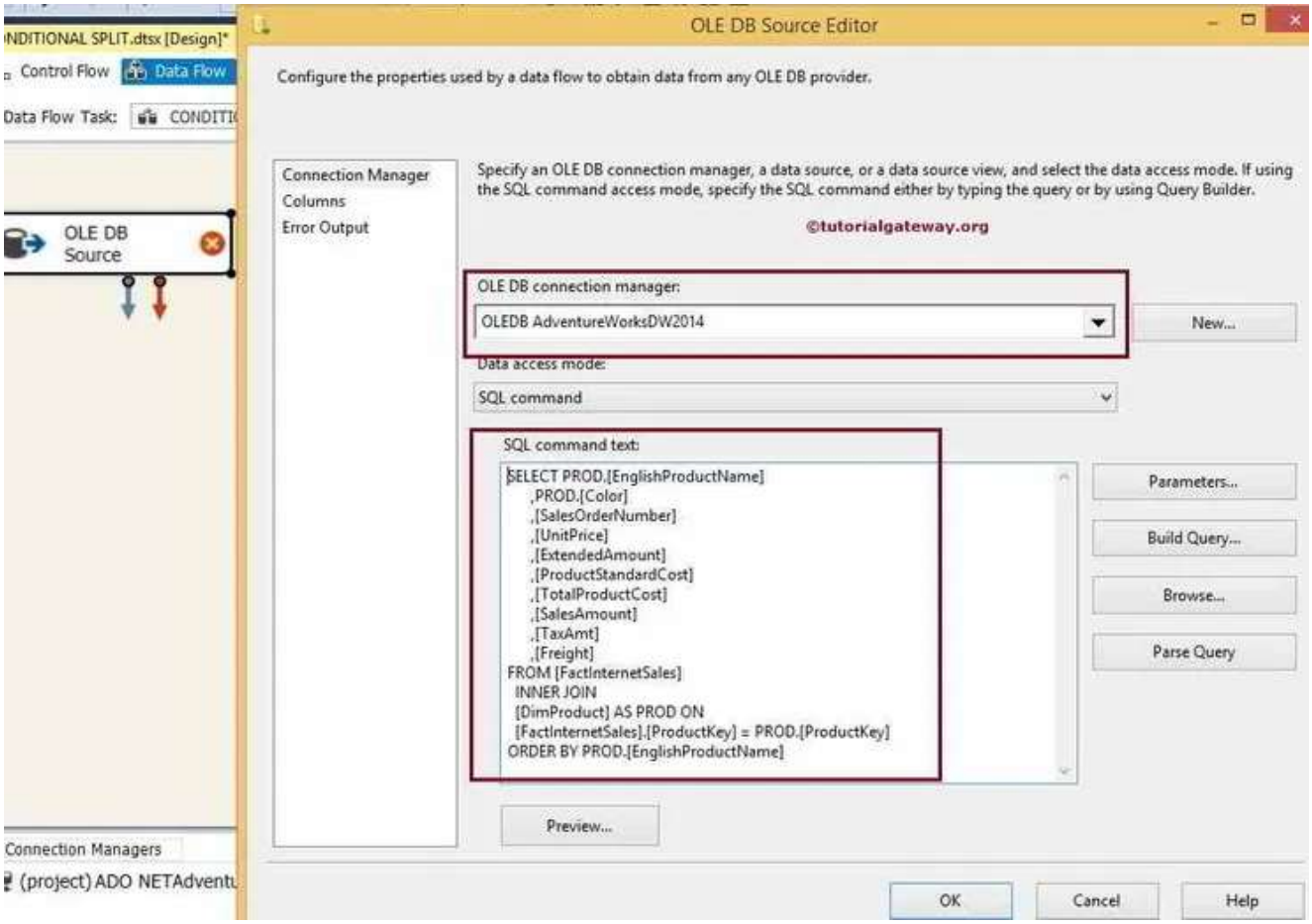
For example, if we want to store the students in a class with marks greater than 40 in one Table and those who score less than 40 in another table, then we can use this SSIS Conditional Split Transformation to split the data using the condition. Note that Conditional Split is case-sensitive.

Conditional Split Transformation in SSIS Example

STEP 1: Drag and drop the data flow task from the toolbox to control flow and name it SSIS Conditional Split Transformation.

Double click on it, and it will open the SSIS data flow tab.

STEP 2: Drag and drop OLE DB Source from the toolbox to the data flow region. Double click on the OLE DB source in the data flow region will open the connection manager settings and provides space to write our SQL statement.

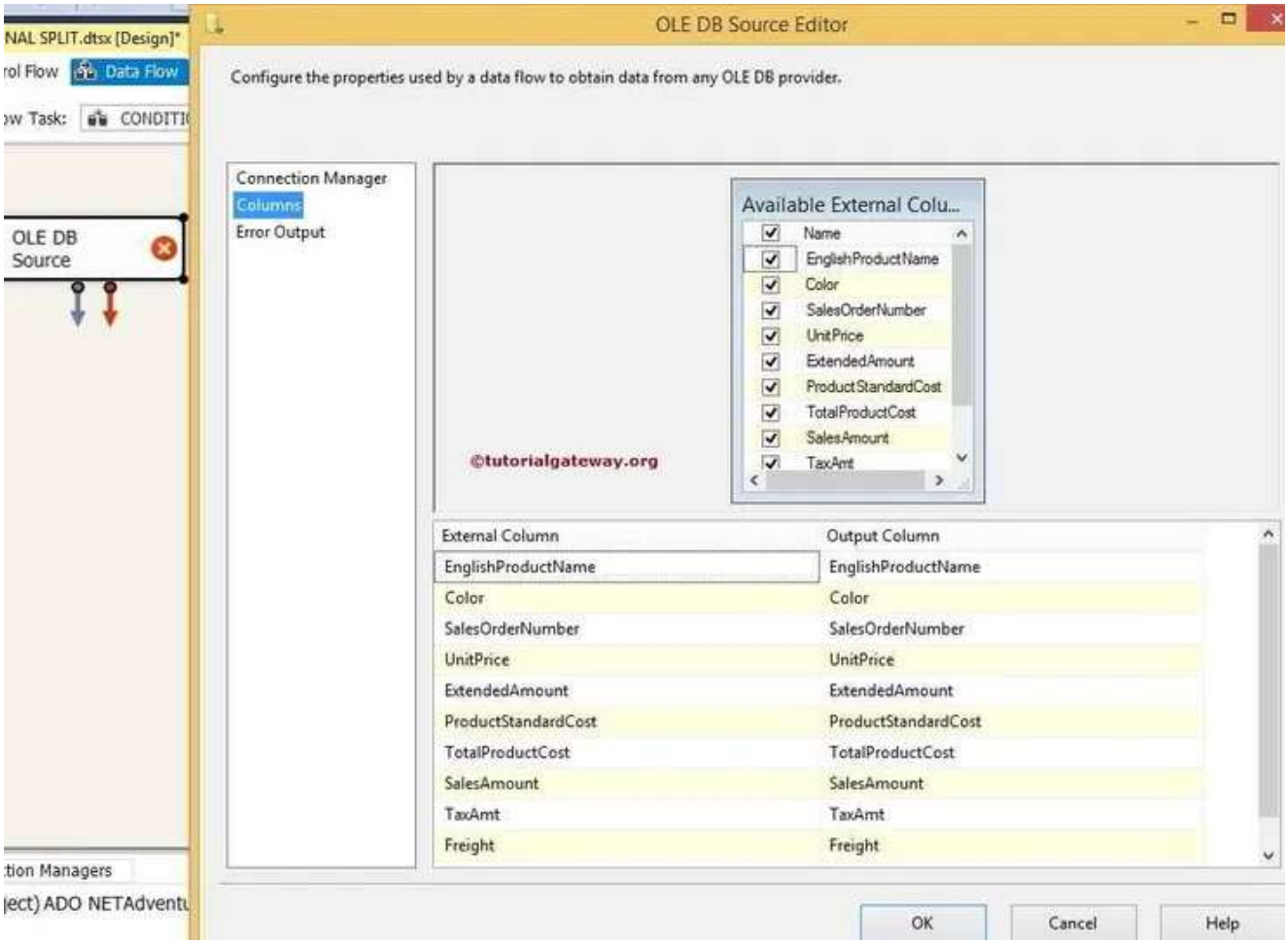


The command used for our conditional split OLE DB source is

```
USE AdventureWorksDW2014
GO

SELECT PROD.[EnglishProductName]
    ,PROD.[Color]
    ,[SalesOrderNumber]
    ,[UnitPrice]
    ,[ExtendedAmount]
    ,[ProductStandardCost]
    ,[TotalProductCost]
    ,[SalesAmount]
    ,[TaxAmt]
    ,[Freight]
FROM [FactInternetSales]
INNER JOIN
[DimProduct] AS PROD ON
  [FactInternetSales].[ProductKey] = PROD.[ProductKey]
ORDER BY PROD.[EnglishProductName]
```

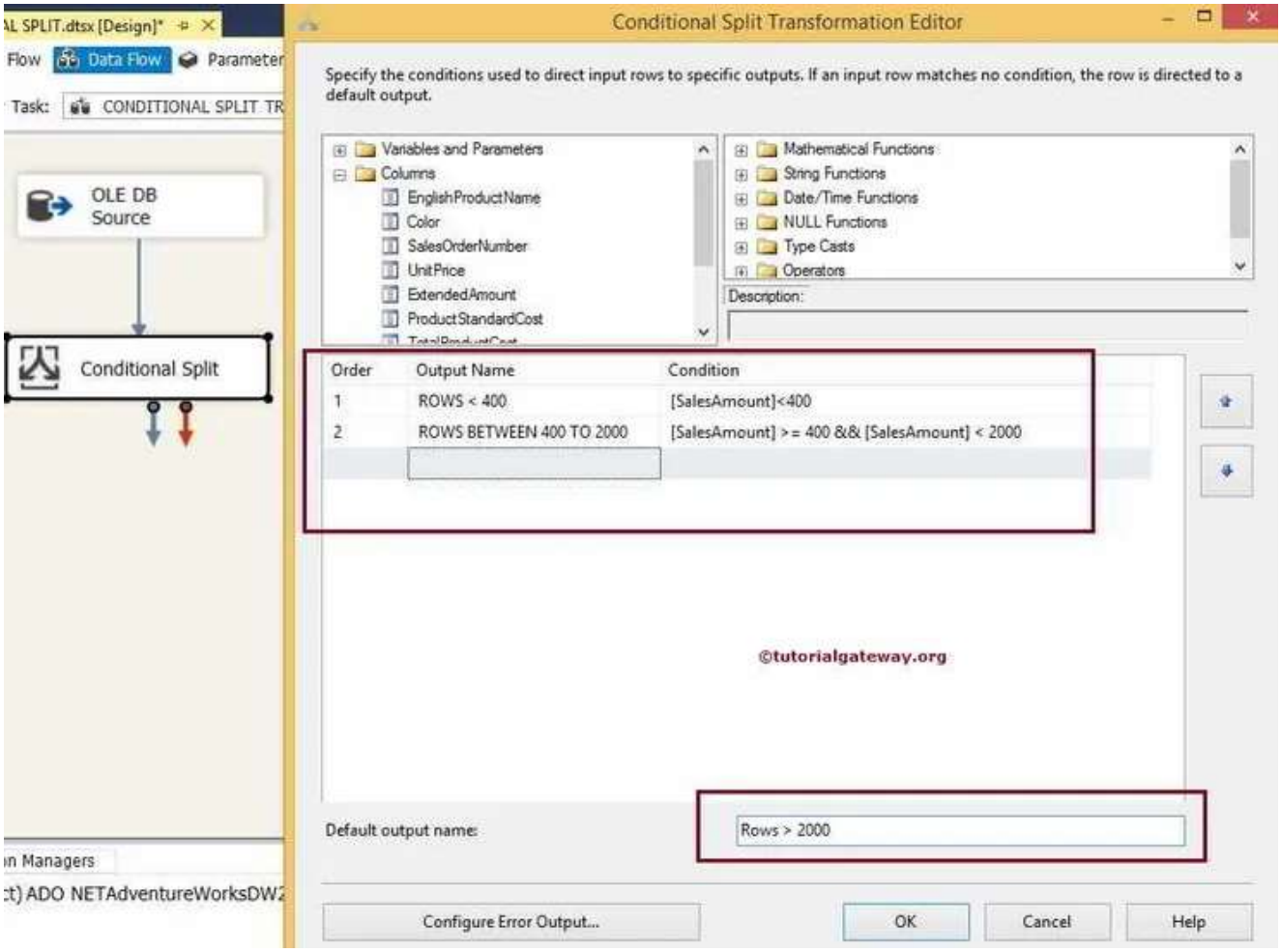
STEP 3: Click on the columns tab to verify the columns. In this tab, we can uncheck the unwanted columns also.



Click ok

Configure SSIS Conditional Split Transformation

STEP 4: Drag and drop the Conditional Split Transformation from the toolbox to the data flow region and double-click on it to provide the conditions.



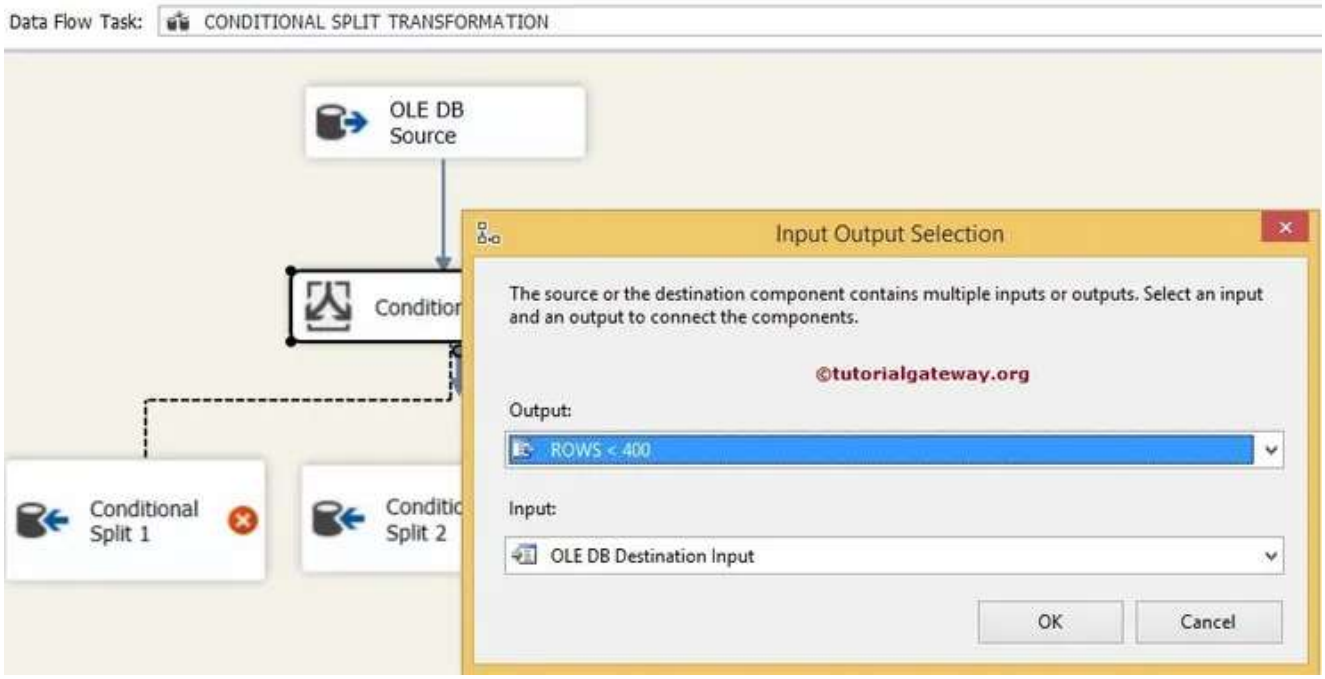
The conditions we used in this conditional split transformation are:

1. ROWS < 400: SalesAmount < 400
2. ROWS BETWEEN 400 TO 2000: SalesAmount >= 400 && SalesAmount < 2000
3. The remaining rows will act as default output, and we named it [Rows > 2000]

From the above, we used two conditions and one default output in Conditional Split Transformation in SSIS. So, We get three outputs in total.

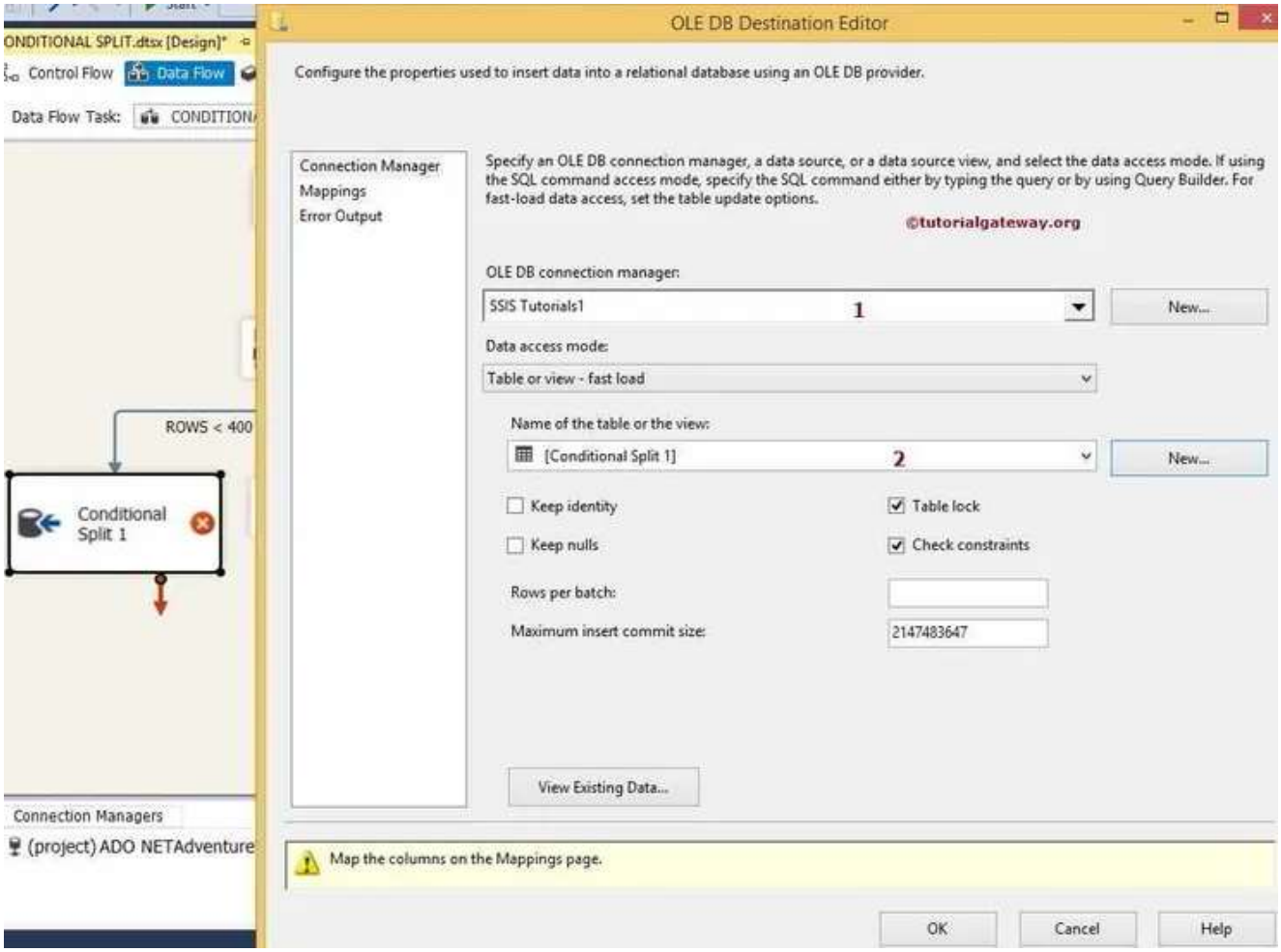
STEP 5: Drag and drop three OLE DB Destinations from the toolbox to the data flow region and rename them as Condition Split 1, Condition Split two, and Condition Split 3

STEP 6: Drag and drop the arrow from Conditional Split Transformation to OLE DB Destination (Conditional Split 1) will pop up the Input Output Selection window to select the appropriate output. Let us choose the [Rows <400] output as shown below



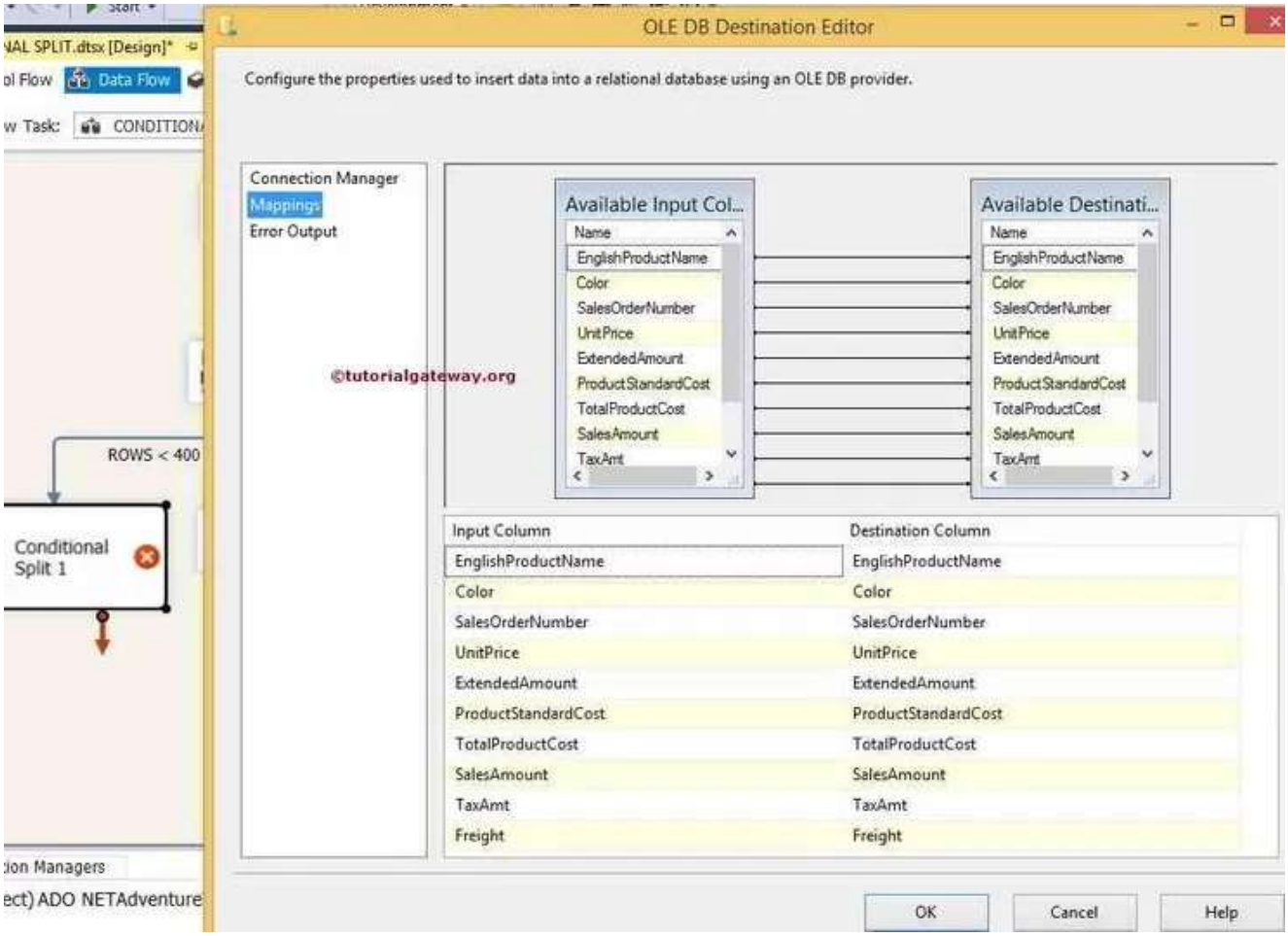
Click ok

STEP 7: Now, we have to provide OLE DB Connection Manager and table details of the Destination. So double-click on the Conditional Split one and provide the required information.



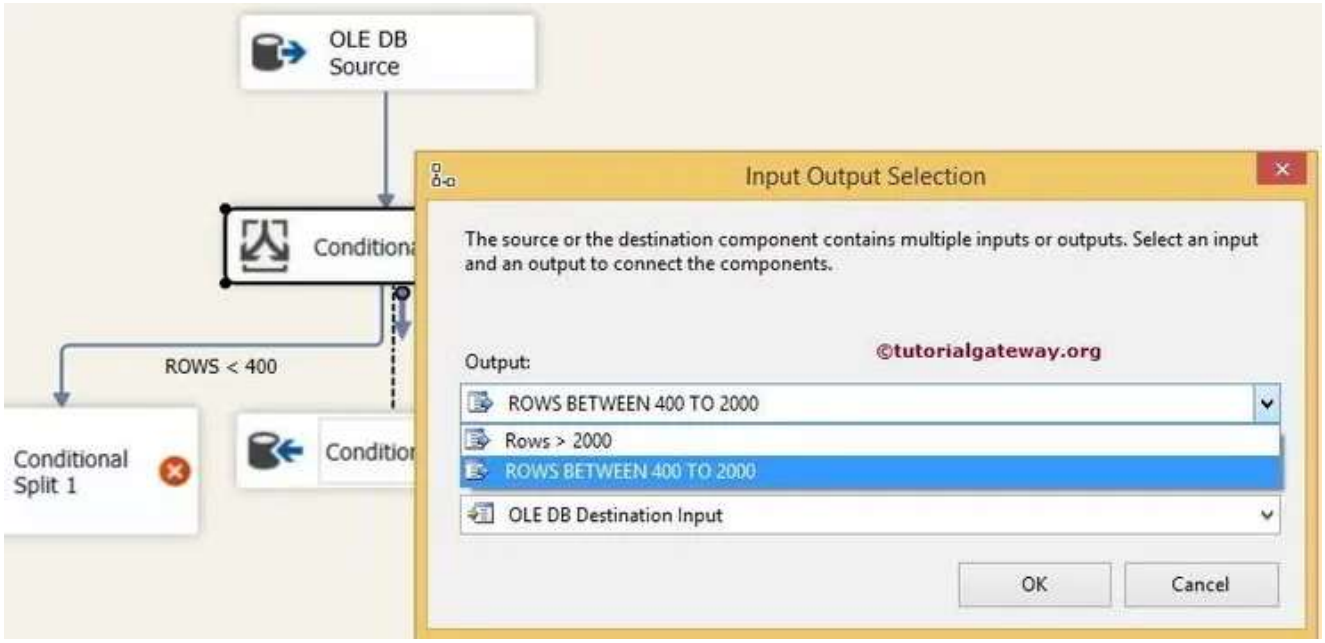
From the above screenshot, you can observe that We selected [Conditional Split 1] inside the Database

STEP 8: Click on the Mappings tab to check whether the source columns are precisely mapped to the destination columns.



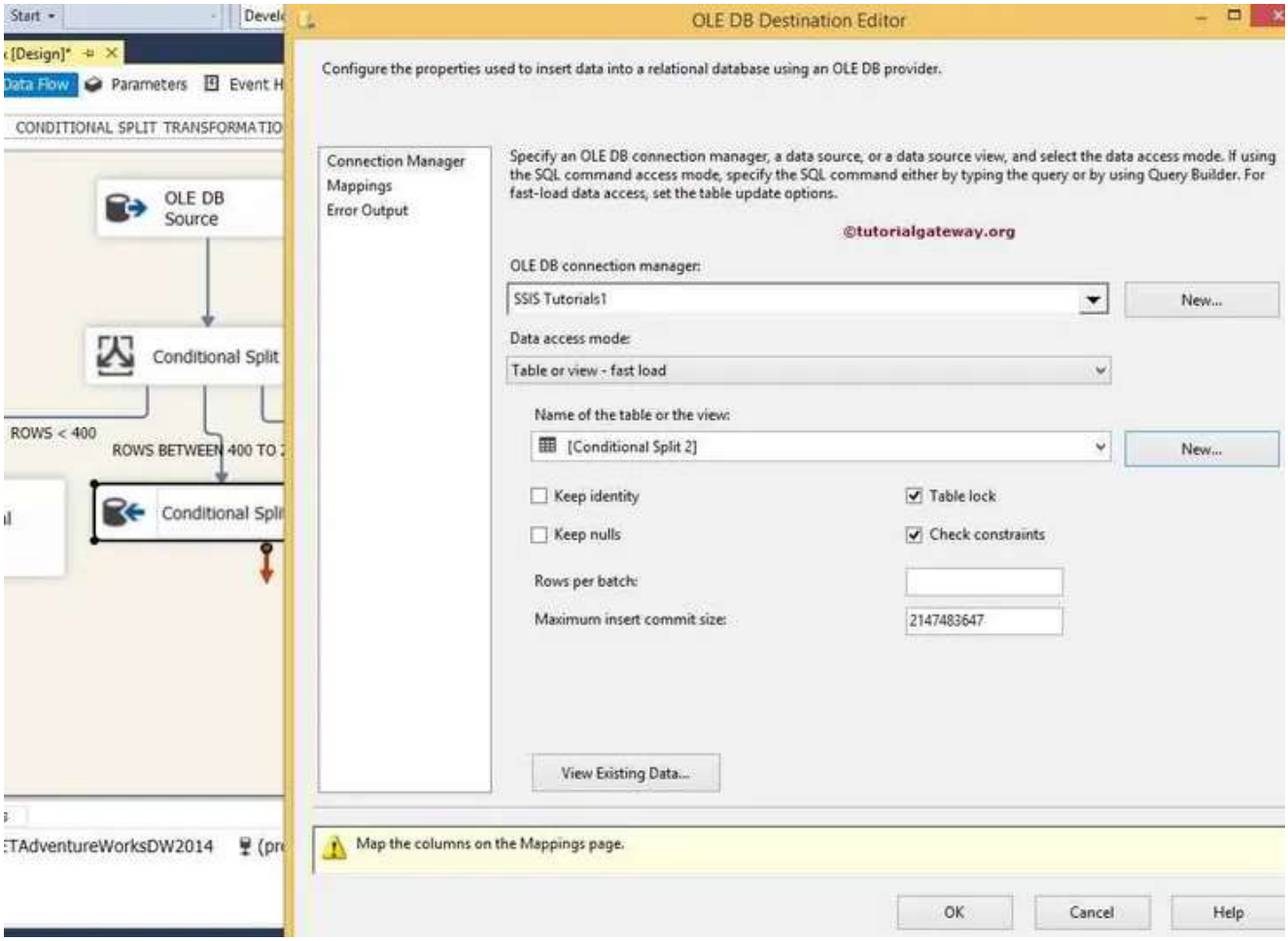
Click ok

STEP 9: Drag and drop one more arrow from SSIS Conditional Split Transformation to OLE DB Destination (Conditional Split 2). Pop up the Input Output Selection window to select the output. This time we are going to select [Rows between 400 to 2000] output as shown below



STEP 10: Let us provide OLE DB Connection Manager and table details of the destination for our second output. To do so, double-click Conditional Split 2 and

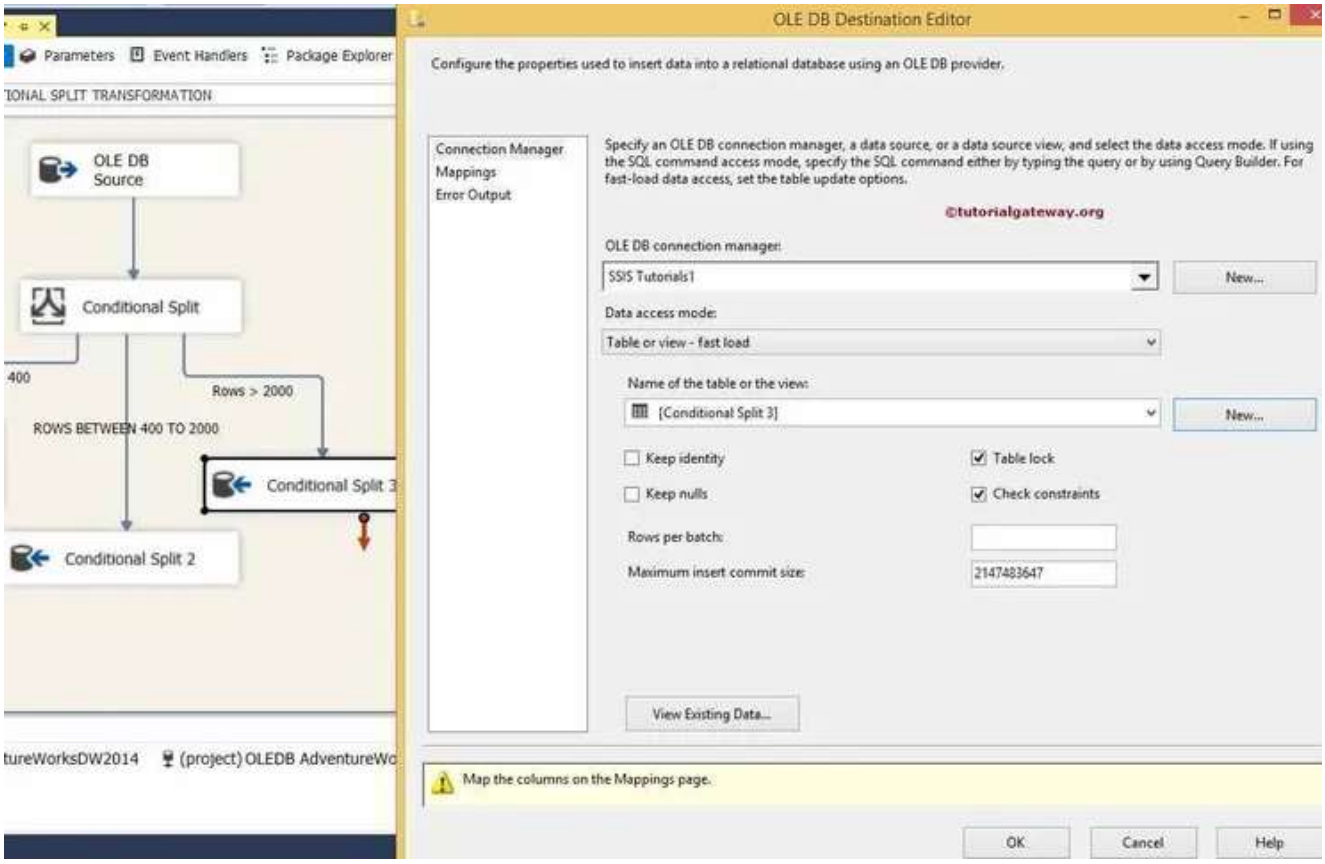
provide the required information.



From the above screenshot, you can observe that We selected the [Conditional Split 2] inside the Database

Repeat STEP 8 and Click ok

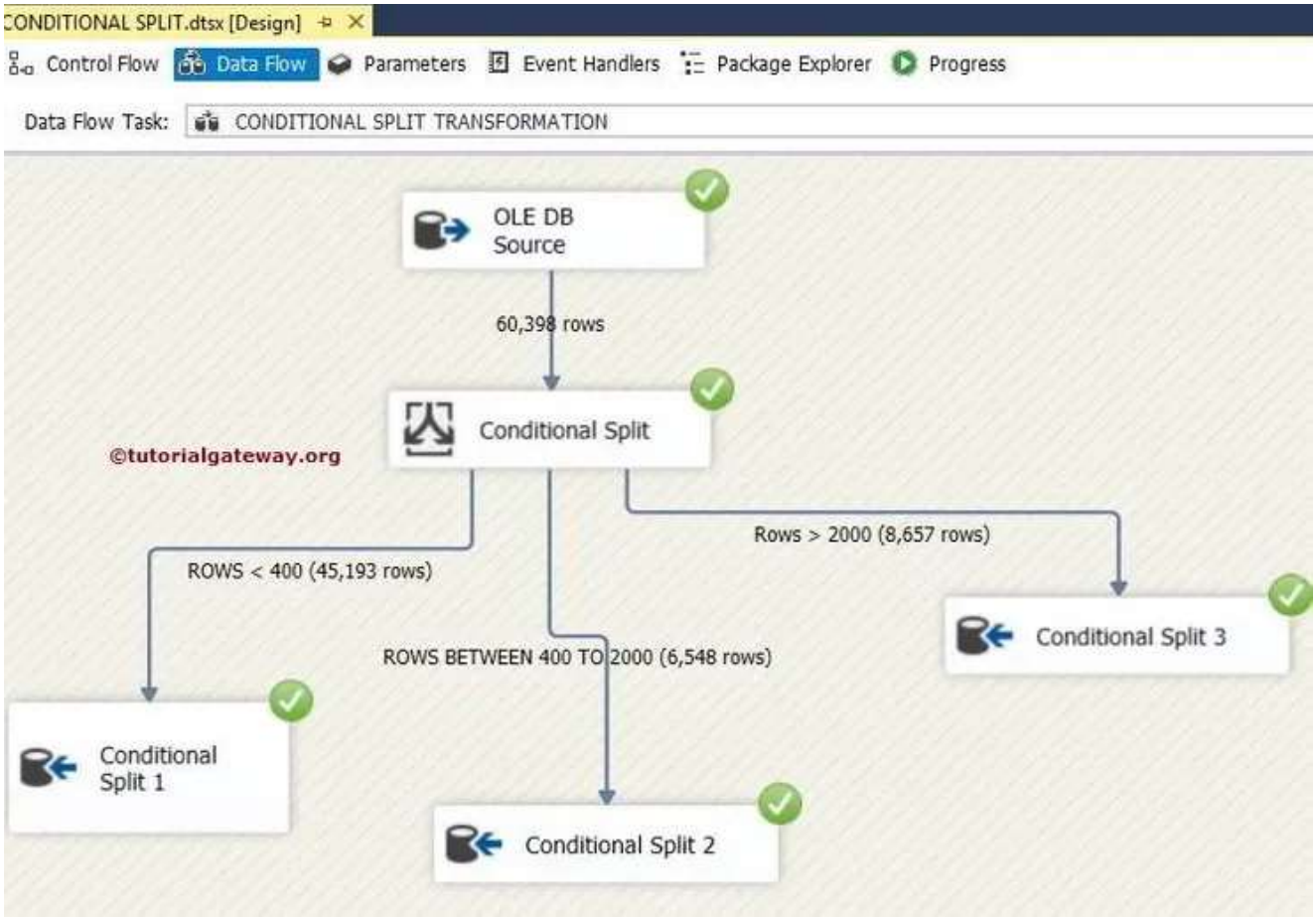
STEP 11: Drag and drop one more arrow from SSIS Conditional Split Transformation to OLE DB Dest (Conditional Split 3). Here we are configuring the default output data. So, Double click on the OLE DB Destination and provide the information



From the above screenshot, you can observe that We selected the [Conditional Split 3] inside the Database

Repeat STEP 8 and Click ok

We finished developing the SSIS conditional split transformation package. It's time to run this package



Let's see the result in [Conditional Split 1] Table. First, open the Management studio, and write the select statement to check the result.

```
-- Conditional Split Transformation in SSIS Result
SELECT [EnglishProductName] AS NAME
      ,[Color]
      ,[SalesOrderNumber] AS NUMBER
      ,[UnitPrice]
      ,[ExtendedAmount] AS ExtndAmount
      ,[ProductStandardCost] AS standardCost
      ,[TotalProductCost] AS ProductCost
      ,[SalesAmount] AS Amount
      ,[TaxAmt] AS Tax
      ,[Freight]
  FROM [Conditional Split 1]
```

```
SELECT [EnglishProductName] AS NAME
      ,[Color]
      ,[SalesOrderNumber] AS NUMBER
      ,[UnitPrice]
      ,[ExtendedAmount] AS ExtndAmount
      ,[ProductStandardCost] AS standardCost
      ,[TotalProductCost] AS ProductCost
      ,[SalesAmount] AS Amount
      ,[TaxAmt] AS Tax
      ,[Freight]
  FROM [SSIS Tutorials].[dbo].[Conditional Split 1]
```

%

Results | Messages

NAME	Color	NUMBER	UnitPrice	ExtndAmount	standardCost	ProductCost	Amount	Tax	Freight
ML Mountain...	NA	SO61447	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498
ML Mountain...	NA	SO61448	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498
ML Mountain...	NA	SO61432	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498
ML Mountain...	NA	SO61433	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498
ML Mountain...	NA	SO61483	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498
ML Mountain...	NA	SO61500	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498
ML Mountain...	NA	SO61502	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498
ML Mountain...	NA	SO61503	29.99	29.99	11.2163	11.2163	29.99	2.39...	0.7498

Let's see the result in the [Conditional Split 2] Table by writing the below select statement to check the result

```
SELECT [EnglishProductName] AS NAME
      ,[Color]
      ,[SalesOrderNumber] AS NUMBER
      ,[UnitPrice]
      ,[ExtendedAmount] AS ExtndAmount
      ,[ProductStandardCost] AS standardCost
      ,[TotalProductCost] AS ProductCost
      ,[SalesAmount] AS Amount
      ,[TaxAmt] AS Tax
      ,[Freight]
  FROM [Conditional Split 2]
```

```
SELECT [EnglishProductName] AS NAME
      ,[Color]
      ,[SalesOrderNumber] AS NUMBER
      ,[UnitPrice]
      ,[ExtendedAmount] AS ExtndAmount
      ,[ProductStandardCost] AS standardCost
      ,[TotalProductCost] AS ProductCost
      ,[SalesAmount] AS Amount
      ,[TaxAmt] AS Tax
      ,[Freight]
  FROM [SSIS Tutorials].[dbo].[Conditional Split 2]
```


esults Messages

NAME	Color	NUMBER	UnitPrice	ExtndAmount	standardCost	ProductCost	Amount	Tax	Freight
Mountain-5...	Silver	SO66865	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO67064	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO64065	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO69008	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO70060	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO67817	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO68631	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO68555	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO70132	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124
Mountain-5...	Silver	SO68715	564.99	564.99	308.2179	308.2179	564.99	45.1...	14.124

Next, see the result in [Conditional Split 3] Table. Then, open the Management Studio and write the statement below to check the result.

```
-- SSIS Conditional Split Result
SELECT [EnglishProductName] AS NAME
      ,[Color]
      ,[SalesOrderNumber] AS NUMBER
      ,[UnitPrice]
      ,[ExtendedAmount] AS ExtndAmount
      ,[ProductStandardCost] AS standardCost
      ,[TotalProductCost] AS ProductCost
      ,[SalesAmount] AS Amount
      ,[TaxAmt] AS Tax
      ,[Freight]
  FROM [Conditional Split 3]
```

```
SELECT [EnglishProductName] AS NAME
      ,[Color]
      ,[SalesOrderNumber] AS NUMBER
      ,[UnitPrice]
      ,[ExtendedAmount] AS ExtndAmount
      ,[ProductStandardCost] AS standardCost
      ,[TotalProductCost] AS ProductCost
      ,[SalesAmount] AS Amount
      ,[TaxAmt] AS Tax
      ,[Freight]
  FROM [SSIS Tutorials].[dbo].[Conditional Split 3]
```


esults Messages

NAME	Color	NUMBER	UnitPrice	ExtndAmo...	standardCost	ProductCost	Amount	Tax	Freight
Mountain-200 Black, 42	Black	SO71737	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59...	57.374
Mountain-200 Black, 42	Black	SO71739	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59...	57.374
Mountain-200 Black, 42	Black	SO71744	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59...	57.374
Mountain-200 Black, 42	Black	SO73380	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59...	57.374
Mountain-200 Black, 42	Black	SO73349	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59...	57.374
Mountain-200 Black, 42	Black	SO73425	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59...	57.374
Mountain-200 Black, 42	Black	SO71960	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59...	57.374
Mountain-200 Black, 42	Black	SO73419	2294.99	2294.99	1251.9813	1251.9813	2294.99	183.59	57.374

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