ET3 Database Task

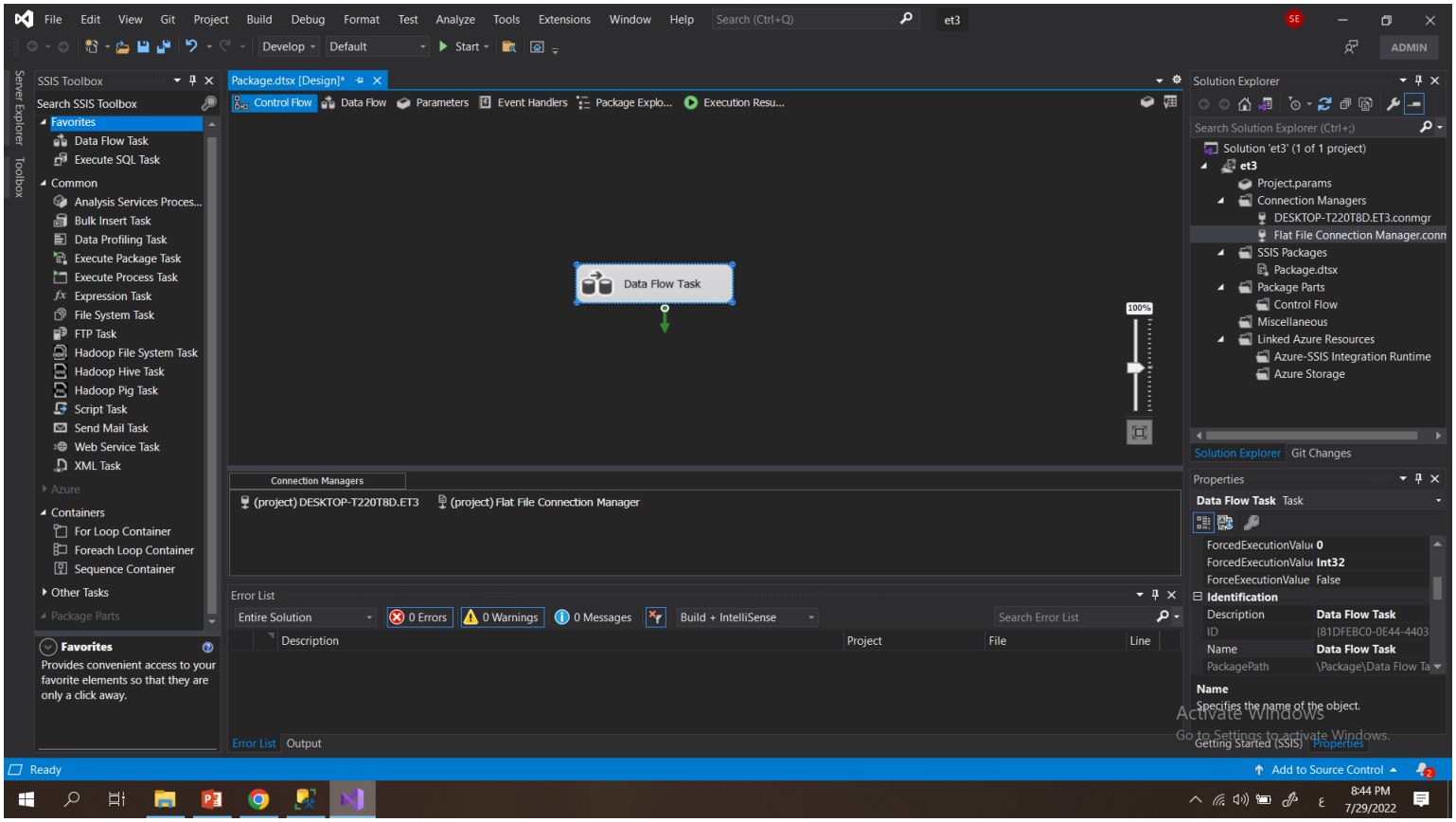
1-To import the provided excel sheet into any relational database, I build SSIS project.

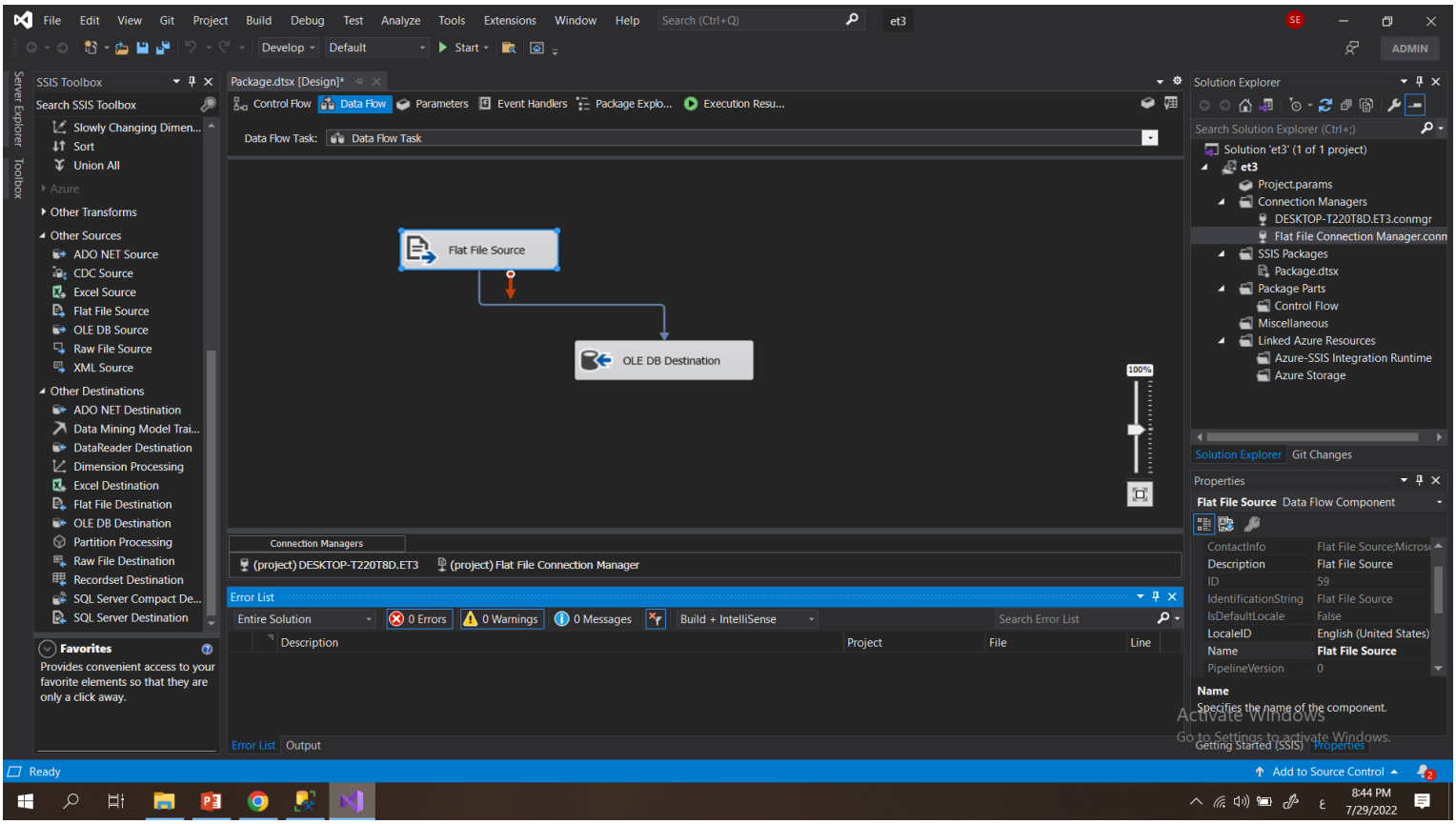
2-Make new connection managers for flat file and OLE DB.

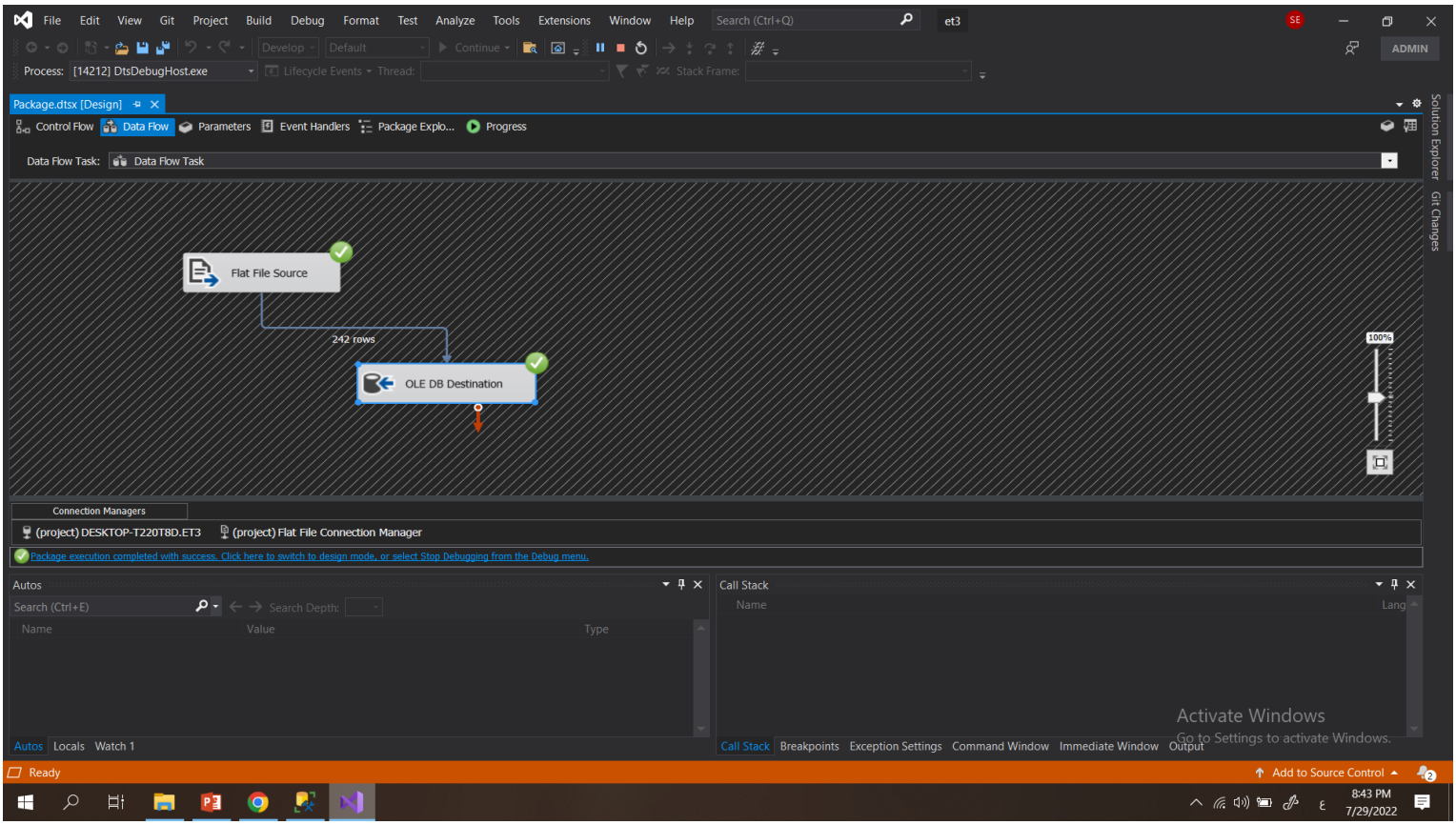
3-Flat file as a source and OLE DB as a destination.

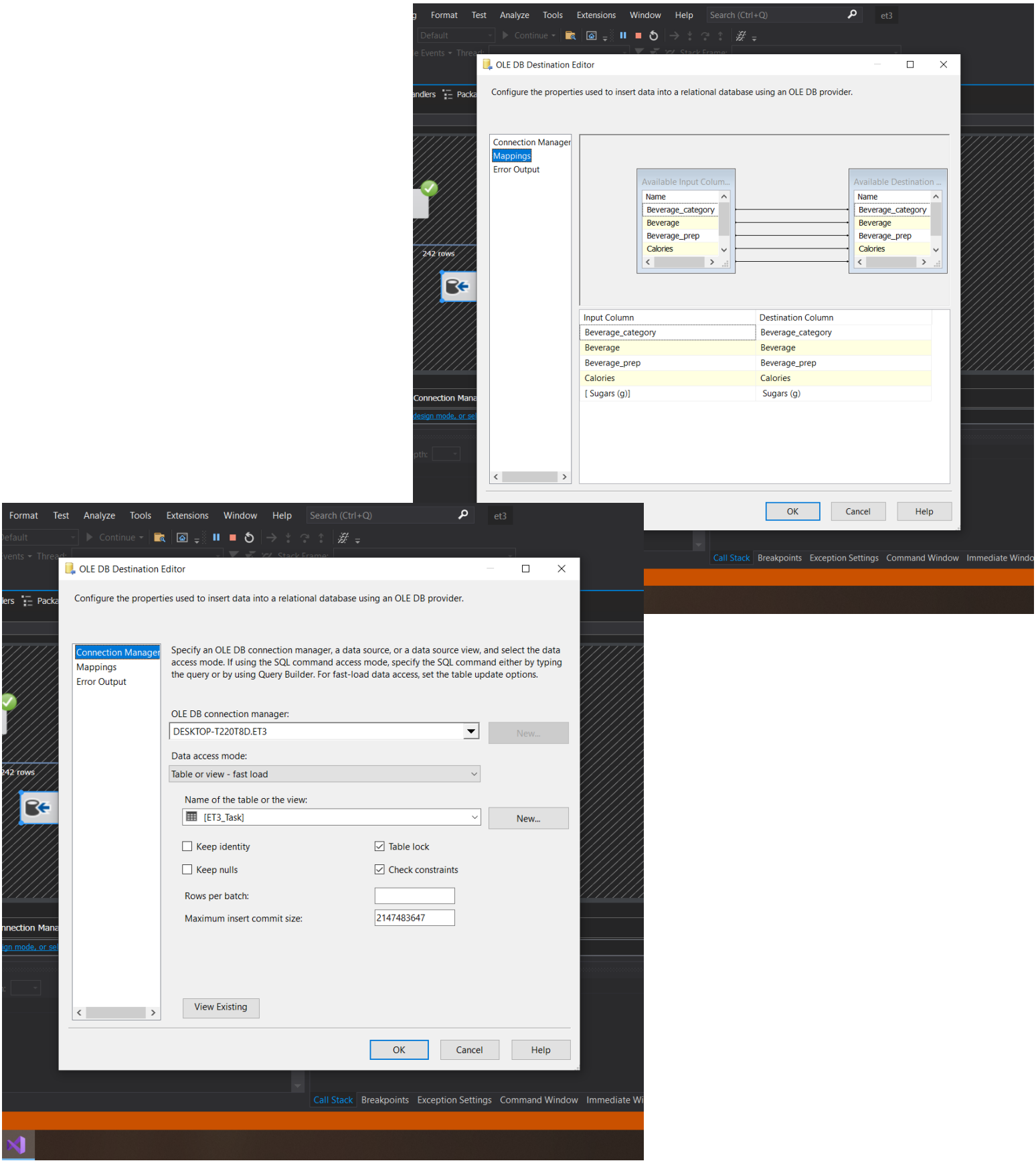
4-remove unnecessary columns from the data before sending it to the database.

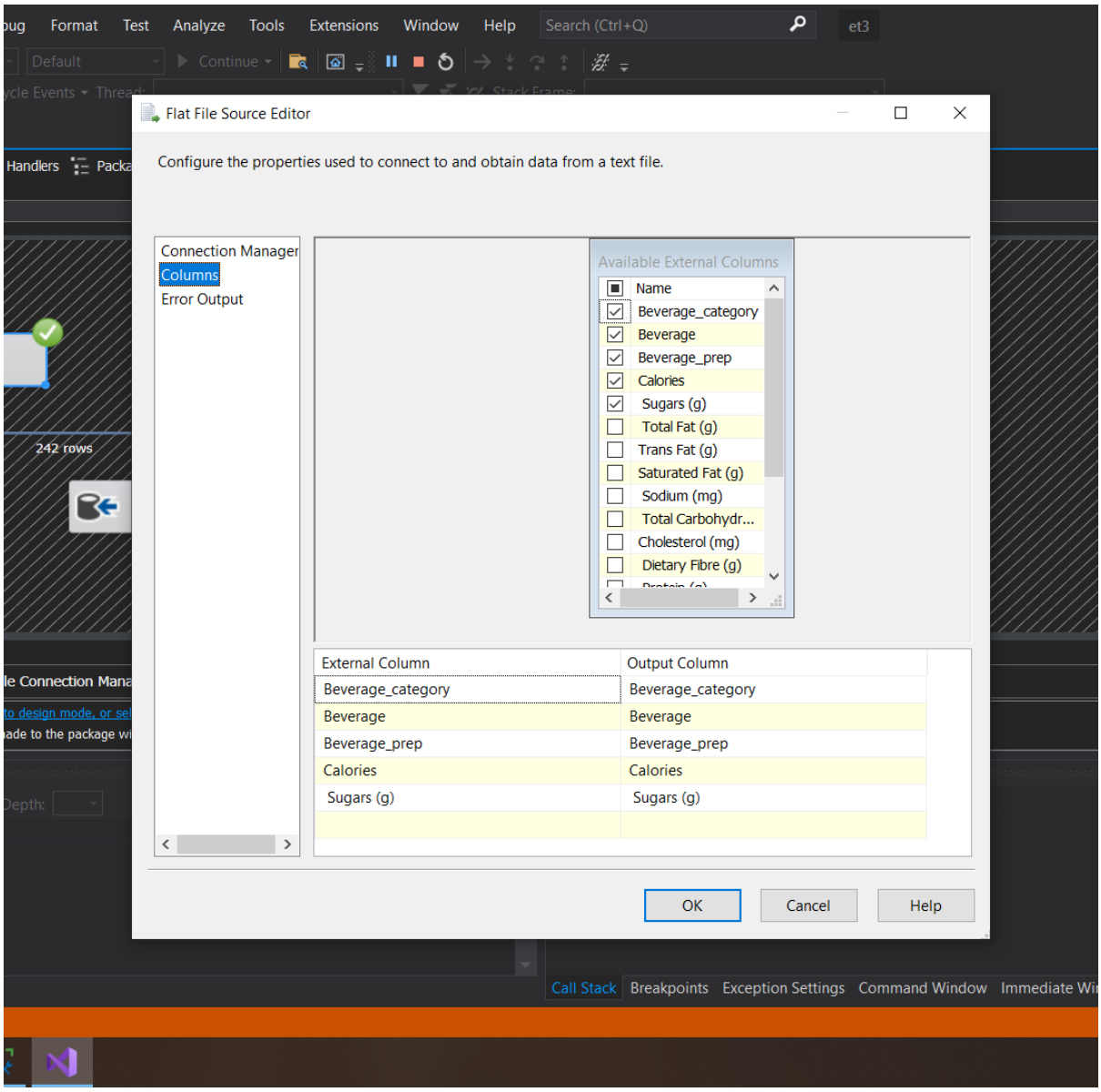
5-After the data is sent to the database, I answered the provided questions.




File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
et3
Develop
Default
Start
ADMIN
SSIS Toolbox
Search SSIS Toolbox
Slowly Changing Dimen...
Sort
Union All
Azure
Other Transforms
Other Sources
ADO NET Source
CDC Source
Excel Source
Flat File Source
OLE DB Source
Raw File Source
XML Source
Other Destinations
ADO NET Destination
Data Mining Model Trai...
DataReader Destination
Dimension Processing
Excel Destination
Flat File Destination
OLE DB Destination
Partition Processing
Raw File Destination
Recordset Destination
SQL Server Compact De...
SQL Server Destination
Favorites
Provides convenient access to your favorite elements so that they are only a click away.
Package.dtsx [Design]*
Control Flow
Data Flow
Parameters
Event Handlers
Package Explo...
Execution Resu...
Data Flow Task:
Data Flow Task
Flat File Source
OLE DB Destination
100%
Connection Managers
(project) DESKTOP-T220T8D.ET3
(project) Flat File Connection Manager
Error List
Entire Solution
0 Errors
0 Warnings
0 Messages
Build + IntelliSense
Search Error List
Description
Project
File
Line
Error List
Output
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'et3' (1 of 1 project)
et3
Project.params
Connection Managers
DESKTOP-T220T8D.ET3.conmgr
Flat File Connection Manager.conn
SSIS Packages
Package.dtsx
Package Parts
Control Flow
Miscellaneous
Linked Azure Resources
Azure-SSIS Integration Runtime
Azure Storage
Solution Explorer
Git Changes
Properties
Flat File Source Data Flow Component
ContactInfo
Description
Flat File Source
ID
59
IdentificationString
Flat File Source
IsDefaultLocale
False
LocaleID
English (United States)
Name
Flat File Source
PipelineVersion
0
Name
Specifies the name of the component.
Activate Windows
Go to Settings to activate Windows.
Getting Started (SSIS)
Properties
Ready
Add to Source Control
8:44 PM
7/29/2022


File Edit View Git Project Build Debug Format Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
et3
Develop
Default
Continue
ADMIN
Process: [14212] DtsDebugHost.exe
Lifecycle Events
Thread:
Stack Frame:
Package.dtsx [Design]
Control Flow
Data Flow
Parameters
Event Handlers
Package Explo...
Progress
Data Flow Task:
Data Flow Task
Flat File Source
242 rows
OLE DB Destination
100%
Connection Managers
(project) DESKTOP-T220T8D.ET3
(project) Flat File Connection Manager
Package execution completed with success. Click here to switch to design mode, or select Stop Debugging from the Debug menu.
Autos
Search (Ctrl+E)
Search Depth:
Name
Value
Type
Call Stack
Name
Lang
Activate Windows
Go to Settings to activate Windows.
Autos
Locals
Watch 1
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Window
Output
Solution Explorer
Git Changes
Ready
Add to Source Control
8:43 PM
7/29/2022


Format Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
et3
OLE DB Destination Editor
Configure the properties used to insert data into a relational database using an OLE DB provider.
Connection Manager
Mappings
Error Output
Available Input Colum...
Available Destination ...
Name
Beverage_category
Beverage
Beverage_prep
Calories
Input Column
Destination Column
Beverage_category
Beverage
Beverage_prep
Calories
[Sugars (g)]
Sugars (g)
OK
Cancel
Help
242 rows
Call Stack
Breakpoints
Exception Settings
Command Window
Immediate Windo
Specify an OLE DB connection manager, a data source, or a data source view, and select the data access mode. If using the SQL command access mode, specify the SQL command either by typing the query or by using Query Builder. For fast-load data access, set the table update options.
OLE DB connection manager:
DESKTOP-T220T8D.ET3
New...
Data access mode:
Table or view - fast load
Name of the table or the view:
[ET3_Task]
New...
Keep identity
Keep nulls
Table lock
Check constraints
Rows per batch:
Maximum insert commit size:
2147483647
View Existing
Immediate Wi


Format
Test
Analyze
Tools
Extensions
Window
Help
Search (Ctrl+Q)
Flat File Source Editor
Configure the properties used to connect to and obtain data from a text file.
Connection Manager
Columns
Error Output
Available External Columns
Name
Beverage_category
Beverage
Beverage_prep
Calories
Sugars (g)
Total Fat (g)
Trans Fat (g)
Saturated Fat (g)
Sodium (mg)
Total Carbohydr...
Cholesterol (mg)
Dietary Fibre (g)
External Column
Output Column
Beverage_category
Beverage_category
Beverage
Beverage
Beverage_prep
Beverage_prep
Calories
Calories
Sugars (g)
Sugars (g)
OK
Cancel
Help
242 rows
Call Stack
Breakpoints
Exception Settings
Command Window

Queries :

1. Which drink has the highest calories from the dataset?

```
SELECT  *
FROM ET3_Task (table name)
WHERE Calories = (SELECT MAX(Calories) FROM ET3_Task);
```

2. What is the average calorie amount for each drink category?

```
SELECT Beverage_category, AVG(Calories) AS Calories_avarage
FROM ET3_Task
GROUP BY Beverage_category
ORDER BY Calories_avarage;
```

3. Which drinks have below average calorie amount?

```
SELECT *
FROM ET3_Task
WHERE Calories < (SELECT AVG(Calories) FROM ET3_Task)
ORDER BY Calories;
```

DESKTOP-T220T8D.ET3 - dbo.ET3_Task | SQLQuery6.sql - D...T220T8D\sama (54))*

100 %

Results | Messages

	Beverage_category	Beverage	Beverage_prep	Calories	Sugars (g)
1	Signature Espresso Drinks	White Chocolate Mocha (Without Whipped Cream)	2% Milk	510	74

	Beverage_category	Calories_avarage
1	Coffee	4.250000
2	Shaken Iced Beverages	114.444444
3	Classic Espresso Drinks	140.172413
4	FrappuccinoÎ® Light Blended Coffee	162.500000
5	TazoÎ® Tea Drinks	177.307692
6	FrappuccinoÎ® Blended CrÎ¨me	233.076923
7	Signature Espresso Drinks	250.000000
8	FrappuccinoÎ® Blended Coffee	276.944444
9	Smoothies	282.222222

	Beverage_category	Beverage	Beverage_prep	Calories	Sugars (g)
1	TazoÎ® Tea Drinks	TazoÎ® Tea	Short	0	0
2	TazoÎ® Tea Drinks	TazoÎ® Tea	Tall	0	0
3	TazoÎ® Tea Drinks	TazoÎ® Tea	Grande	0	0
4	TazoÎ® Tea Drinks	TazoÎ® Tea	Venti	0	0
5	Coffee	Brewed Coffee	Short	3	0
6	Coffee	Brewed Coffee	Tall	4	0
7	Coffee	Brewed Coffee	Grande	5	0
8	Coffee	Brewed Coffee	Venti	5	0
9	Classic Espresso Drinks	CaffÎ¨ Americano	Short	5	0
10	Classic Espresso Drinks	Espresso	Solo	5	0
11	Classic Espresso Drinks	Espresso	Doppio	10	0
12	Classic Espresso Drinks	CaffÎ¨ Americano	Tall	10	0
13	Classic Espresso Drinks	CaffÎ¨ Americano	Grande	15	0
14	Classic Espresso Drinks	CaffÎ¨ Americano	Venti	25	0
15	Classic Espresso Drinks	Cappuccino	Short Nonfat Milk	50	7
16	Classic Espresso Drinks	Cappuccino	Soymilk	50	3
17	Classic Espresso Drinks	Cappuccino	Tall Nonfat Milk	60	8
18	Classic Espresso Drinks	Skinny Latte (Any Flavour)	Short Nonfat Milk	60	8

Query executed successfully.