



# การวิเคราะห์ข้อมูลเบื้องต้น ด้วย MS Excel

สาขาวิชาการบัญชี

คณะวิทยาการจัดการ มหาวิทยาลัยราชภัฏเทพสตรี

xx - yy พฤศจิกายน 2567

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# 1. Introduction

# 1.1 Test Data

<https://github.com/piyapongdk/excel>

# 1.1 Test Data

A	B	C	D	E	F	G
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.
12	10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports
13	10103	S10_4962	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports
14	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports
15	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports
16	10103	S18_2432	1926 Ford Fire Engine	22	58.34	Baane Mini Imports
17	10103	S18_2949	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports
18	10103	S18_2957	1934 Ford V8 Coupe	35	61.84	Baane Mini Imports
19	10103	S18_3136	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports
20	10103	S18_3320	1917 Maxwell Touring Car	46	86.31	Baane Mini Imports
21	10103	S18_4600	1940s Ford truck	36	98.07	Baane Mini Imports
22	10103	S18_4668	1939 Cadillac Limousine	41	40.75	Baane Mini Imports
23	10103	S24_2300	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports
24	10103	S24_4258	1936 Chrysler Airflow	25	88.62	Baane Mini Imports
25	10103	S32_1268	1980's GM Manhattan Express	31	92.46	Baane Mini Imports
26	10103	S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	45	63.35	Baane Mini Imports
27	10103	S700_2824	1982 Camaro Z28	42	94.07	Baane Mini Imports

# 1.1 Test Data

The screenshot shows a Microsoft Excel window titled "order - edited.xlsx". The ribbon is visible at the top with the "Home" tab selected. The table below has columns: orderNumber, productCode, productName, quantityOrdered, priceEach, and customerName. The first few rows of data are:

orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.
10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.
10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.
10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.
10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.
10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.
10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.
10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.
10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.
10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.
10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports
10103	S10_4962	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports
10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports
10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports
10103	S18_2432	1926 Ford Fire Engine	22	58.34	Baane Mini Imports
10103	S18_2949	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports
10103	S18_2957	1934 Ford V8 Coupe	35	61.84	Baane Mini Imports
10103	S18_3136	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports
10103	S18_3320	1917 Maxwell Touring Car	46	86.31	Baane Mini Imports
10103	S18_4600	1940s Ford truck	36	98.07	Baane Mini Imports
10103	S18_4668	1939 Cadillac Limousine	41	40.75	Baane Mini Imports
10103	S24_2300	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports
10103	S24_4258	1936 Chrysler Airflow	25	88.62	Baane Mini Imports
10103	S32_1268	1980's GM Manhattan Express	31	92.46	Baane Mini Imports
10103	S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	45	63.35	Baane Mini Imports
10103	S700_2824	1982 Camaro Z28	42	94.07	Baane Mini Imports

1 Menu

2 Formula

3 Worksheet

# 1.2 Basic Function

A1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	G	H	I	J	K
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName					
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.					
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.					
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.					
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.					
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.					
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.					
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.					
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.					
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.					
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.					
12											
13											
14											
15											

1. สร้าง worksheet -> test1

2. คัดลอกข้อมูล 10 และแรกไป test1

# 1.2 Basic Function

**max**: Returns the largest value in a set of values

	A	B	C	D	E	F	G	H	I	J	K
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName					
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.					
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.					
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.					
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.					
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.					
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.					
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.					
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.					
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.					
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.					
12											
13				max	=max(D2:D11)						
14											
15											

# 1.2 Basic Function

**max** : Returns the largest value in a set of values

The screenshot shows a Microsoft Excel spreadsheet with data in rows 2 through 11. The columns are labeled A through K. Row 1 contains the column headers: orderNumber, productCode, productName, quantityOrdered, priceEach, and customerName. Rows 2 through 11 contain specific data points. Row 13 is the formula row, showing the formula =MAX(D2:D11) in cell D13, which has a value of 50. A large orange callout box highlights the formula =MAX(D2:D11).

D13														
1	A	B	C	D	E	F	G	H	I	J	K			
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.								
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.								
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.								
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.								
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.								
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.								
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.								
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.								
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.								
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41										
12														
13				max	50									
14														
15														

# 1.2 Basic Function

**MAX** : Returns the largest value in a set of values

**MIN** : Returns the smallest number in a set of values

**AVERAGE** : Returns the average of the arguments

**SUM** : Returns the summation value in a set of values

**COUNT** : Returns the number of cells in a set of values

# 1.2 Basic Function

ให้คำนวณหาค่า max, min, average, sum, count ของ priceEach

# 1.2 Basic Function

ให้สร้าง worksheet ชื่อ test2

1. คัดลอกข้อมูลจาก order มา 50 แถวแรก
2. ให้คำนวนหาค่า max, min, average, sum, count ของ quantityOrdered และ priceEach

# 1.2 Basic Function

	A	B	C	D	E	F	G	H	I	J	K
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total				
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	=D2*E2				
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.					
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.					
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster								
6	10101	S18_2325	1932 Model A Ford J-Coupe								
7	10101	S18_2795	1928 Mercedes-Benz SSK								
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe								
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine								
10	10102	S18_1342	1937 Lincoln Berline								
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster								

ที่ worksheet: test2

- สร้าง column G เป็น total
- ใส่สูตร D2\*E2

# 1.2 Basic Function

# จะได้ยอดรวมของการสั่งซื้อ

# 1.2 Basic Function

The screenshot shows a Microsoft Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J	K
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total				
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080				
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.					
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.					
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.					
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.					
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.					
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.					
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.					
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.					
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.					

The formula bar at the top shows =D2\*E2. The cell G2 contains the formula =D2\*E2, which calculates the total value for the first row. The cell G2 is highlighted in green, indicating it is the active cell.

1. ทำการ copy สูตร
2. ลากยาวให้ครบทุกແລວ

# 1.2 Basic Function



A screenshot of a Microsoft Excel spreadsheet titled "G13". The table has columns labeled A through K. Row 1 contains the column headers: "orderNumber", "productCode", "productName", "quantityOrdered", "priceEach", "customerName", and "total". Rows 2 through 11 contain data for individual orders. The "total" column shows the calculated sum of quantityOrdered and priceEach for each row.

	G13										
	A	B	C	D	E	F	G	H	I	J	K
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total				
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080				
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.	2754.5				
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12				
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.	1729.21				
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.	2701.5				
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.	4343.56				
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85				
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1				
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.	3726.45				
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.	1768.33				

# 1.2 Basic Function

ให้สร้างคอลัมน์อีก 3 ดังภาพด้านล่าง (H, I, J)

- คำนวณส่วนลดในคอลัมน์ H
- คำนวณราคากำไรส่วนลดในคอลัมน์ I

A	B	C	D	E	F	G	H	I	J	K
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total	discount	Grand	%discount
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080			10
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.	2754.5			
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12			
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.	1729.21			
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.	2701.5			
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.	4343.56			
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85			
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1			
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.	3726.45			
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.	1768.33			
12	10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports	5571.8			
13	10103	S10_4962	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports	5026.14			
14	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports	3284.28			
15	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports	3307.5			

# 1.2 Basic Function

	J2	▼	:	X	✓	fx	10	A	B	C	D	E	F	G	H	I	J	K
1	orderNumber	productCode	productName		quantityOrdered	priceEach	customerName	total	discount	Grand	%discount							
2	10100	S18_1749	1917 Grand Touring Sedan		30	136	Online Diecast Creations Co.	4080										10
3	10100	S18_2248	1911 Ford Town Car		50	55.09	Online Diecast Creations Co.	2754.5										
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport		22	75.46	Online Dieca											
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster		49	35.29	Online Dieca											
6	10101	S18_2325	1932 Model A Ford J-Coupe		25	108.06	Blauer See A											
7	10101	S18_2795	1928 Mercedes-Benz SSK		26	167.06	Blauer See A											
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe		45	32.53	Blauer See A											
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine		46	44.35	Blauer See Auto, Co.	2040.1										
10	10102	S18_1342	1937 Lincoln Berline		39	95.55	Vitachrome Inc.	3726.45										
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster		41	43.13	Vitachrome Inc.	1768.33										
12	10103	S10_1949	1952 Alpine Renault 1300		26	214.3	Baane Mini Imports	5571.8										
13	10103	S10_4962	1962 LanciaA Delta 16V		42	119.67	Baane Mini Imports	5026.14										
14	10103	S12_1666	1958 Setra Bus		27	121.64	Baane Mini Imports	3284.28										
15	10103	S18_1097	1940 Ford Pickup Truck		35	94.5	Baane Mini Imports	3307.5										

=J\$2/100\*G2

# 2. Data Queries

# 2.1 Sorting Data

A	B	C	D	E	F	G
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.
12	10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports
13	10103	S10_4962	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports
14	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports
15	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports
16	10103	S18_2432	1926 Ford Fire Engine	22	58.34	Baane Mini Imports
17	10103	S18_2949	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports
18	10103	S18_2957	1934 Ford V8 Coupe	35	61.84	Baane Mini Imports
19	10103	S18_3136	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports
20	10103	S18_3320	1917 Maxwell Touring Car	46	86.31	Baane Mini Imports
21	10103	S18_4600	1940s Ford truck	36	98.07	Baane Mini Imports
22	10103	S18_4668	1939 Cadillac Limousine	41	40.75	Baane Mini Imports
23	10103	S24_2300	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports
24	10103	S24_4258	1936 Chrysler Airflow	25	88.62	Baane Mini Imports
25	10103	S32_1268	1980's GM Manhattan Express	31	92.46	Baane Mini Imports
26	10103	S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	45	63.35	Baane Mini Imports
27	10103	S700_2824	1982 Camaro Z28	42	94.07	Baane Mini Imports

# 2.1 Sorting Data

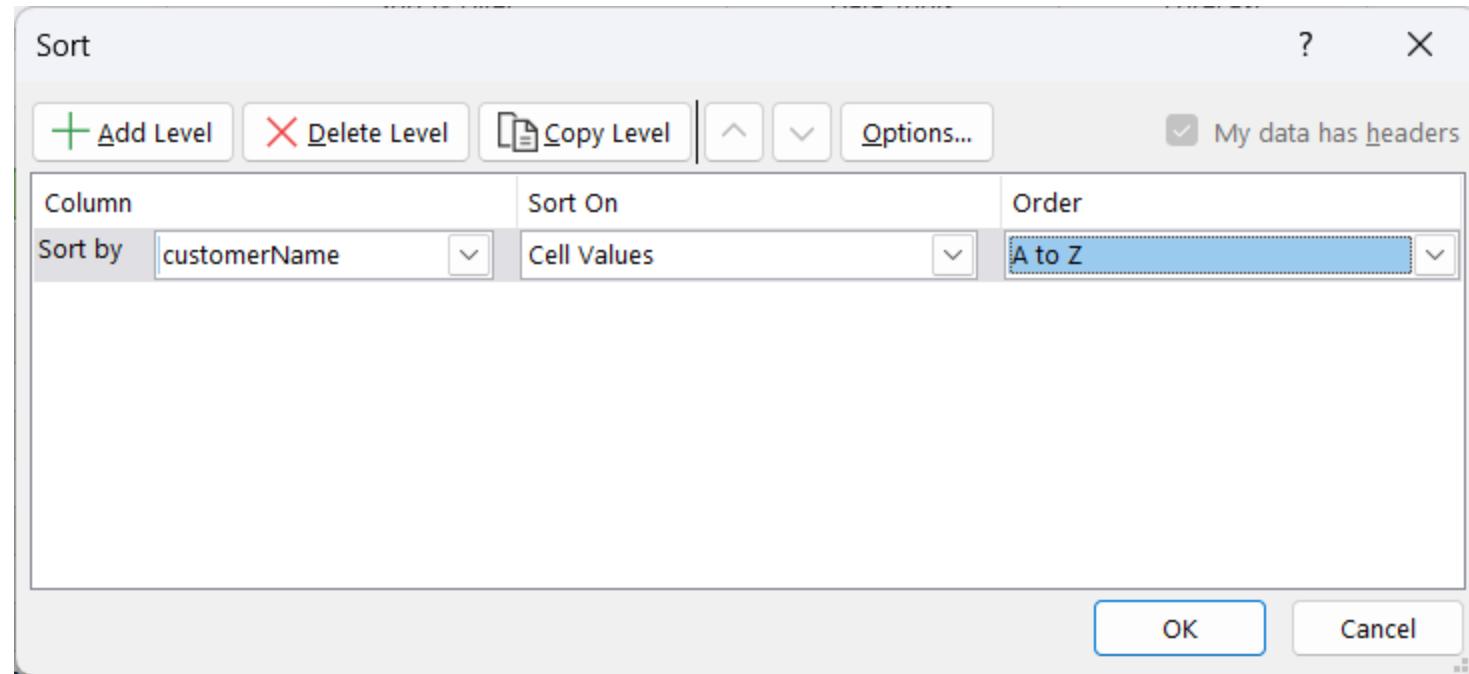
The screenshot shows a Microsoft Excel window with the following details:

- Header Bar:** Contains the title "2.1 Sorting Data" with "1 Data" on the left and "2 Sort" on the right.
- File Tab:** Standard file navigation options.
- Data Tab:** The active tab, showing various data management tools.
  - Get & Transform Data:** Includes "Get Data", "Refresh All", and "Queries & Connections".
  - Queries & Connections:** Includes "Properties" and "Workbook Links".
  - Data Types:** Includes "Stocks" and "Currencies".
  - Sort & Filter:** Includes "Sort" (with A-Z and Z-A icons), "Filter", "Reapply", and "Advanced".
  - Data Tools:** Includes "Text to Columns", "What-If Analysis", "Forecast Sheet", and "Outline".
  - Forecast:** Includes "What-If Analysis", "Forecast Sheet", and "Outline".
- Table Design:** Shows a table structure with columns A through F. Column A is bolded and labeled "orderNumber". The table has 16 rows of data.
- Table Data:** The table contains the following data:

	A	B	C	D	E	F
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.
12	10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports
13	10103	S10_4962	1962 Lancia Delta 16V	42	119.67	Baane Mini Imports
14	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports
15	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports
16	10103	S18_2420	1935 Ford Model A	22	52.24	Baane Mini Imports

- Bottom Navigation:** Shows tabs "order" (active), "test1", and "+".
- Page Bottom:** Accessibility status and zoom level.

# 2.1 Sorting Data



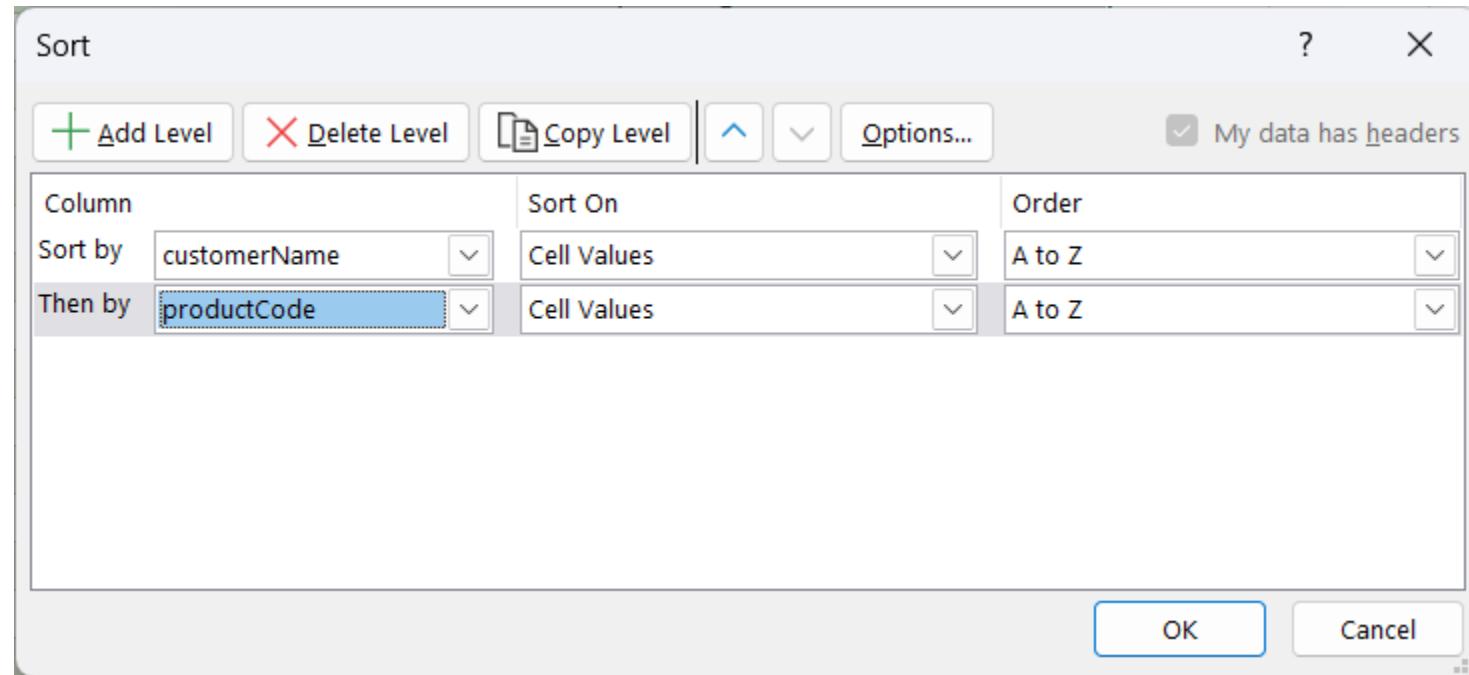
ทำการเรียงลำดับตามคอลัมน์ customerName

# 2.1 Sorting Data

The screenshot shows a Microsoft Excel spreadsheet titled "order - edited....". The ribbon is visible at the top with tabs like File, Home, Insert, Page Layout, Formulas, Data, Review, View, and Help. The "Data" tab is selected, and the "Table Design" tab is active. The "Sort & Filter" section of the ribbon is highlighted, showing icons for Sort (with A-Z and Z-A arrows), Filter, Advanced, and Clear. The main area displays a table of order data. The columns are labeled: A (orderNumber), B (productCode), C (productName), D (quantityOrdered), E (priceEach), and F (customerName). The rows show various items ordered, such as a 1993 Mazda RX-7, a 1995 Honda Civic, and a 1992 Ferrari 360 Spider red. The customer name for all entries is "Alpha Cognac". The table is sorted by the "orderNumber" column, which is currently selected. The status bar at the bottom indicates "Ready" and "Accessibility: Investigate".

	A	B	C	D	E	F	G	H	I
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName			
2	10136	S18_1129	1993 Mazda RX-7		25	117.48	Alpha Cognac		
3	10136	S18_1984	1995 Honda Civic		36	120.91	Alpha Cognac		
4	10136	S18_3232	1992 Ferrari 360 Spider red		41	169.34	Alpha Cognac		
5	10178	S10_4757	1972 Alfa Romeo GTA		24	131.92	Alpha Cognac		
6	10178	S18_1662	1980s Black Hawk Helicopter		42	127.73	Alpha Cognac		
7	10178	S18_3029	1999 Yamaha Speed Boat		41	70.54	Alpha Cognac		
8	10178	S18_3856	1941 Chevrolet Special Deluxe Cabriolet		48	104.81	Alpha Cognac		
9	10178	S24_2841	1900s Vintage Bi-Plane		34	67.82	Alpha Cognac		
10	10178	S24_3420	1937 Horch 930V Limousine		27	65.75	Alpha Cognac		
11	10178	S24_3816	1940 Ford Delivery Sedan		21	68.77	Alpha Cognac		
12	10178	S24_3949	Corsair F4U (Bird Cage)		30	64.15	Alpha Cognac		
13	10178	S700_2047	HMS Bounty		34	86.9	Alpha Cognac		
14	10178	S700_2466	America West Airlines B757-200		22	91.74	Alpha Cognac		
15	10178	S700_4002	American Airlines: MD-11S		45	68.11	Alpha Cognac		
16	10178	S700_1252	Boeing 747-400		15	117.11	Alpha Cognac		

# 2.1 Sorting Data



ทำการเรียงลำดับตามคอลัมน์ customerName  
แล้วเรียงลำดับตามคอลัมน์ productCode

# 2.1 Sorting Data

The screenshot shows a Microsoft Excel spreadsheet titled "order - edited....". The ribbon is visible at the top with tabs like File, Home, Insert, Page Layout, Formulas, Data, Review, View, and Help. The "Data" tab is selected, highlighting the "Table Design" ribbon tab. The "Sort & Filter" section of the ribbon is active, showing icons for Sort (with A-Z and Z-A arrows), Filter, Advanced, and Clear.

The main area displays a table with the following columns:

	A	B	C	D	E	F	G	H	I
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName			
2	10178	S10_4757	1972 Alfa Romeo GTA		24	131.92	Alpha Cognac		
3	10136	S18_1129	1993 Mazda RX-7		25	117.48	Alpha Cognac		
4	10178	S18_1662	1980s Black Hawk Helicopter		42	127.73	Alpha Cognac		
5	10136	S18_1984	1995 Honda Civic		36	120.91	Alpha Cognac		
6	10178	S18_3029	1999 Yamaha Speed Boat		41	70.54	Alpha Cognac		
7	10136	S18_3232	1992 Ferrari 360 Spider red		41	169.34	Alpha Cognac		
8	10178	S18_3856	1941 Chevrolet Special Deluxe Cabriolet		48	104.81	Alpha Cognac		
9	10178	S24_2841	1900s Vintage Bi-Plane		34	67.82	Alpha Cognac		
10	10178	S24_3420	1937 Horch 930V Limousine		27	65.75	Alpha Cognac		
11	10178	S24_3816	1940 Ford Delivery Sedan		21	68.77	Alpha Cognac		
12	10178	S24_3949	Corsair F4U (Bird Cage)		30	64.15	Alpha Cognac		
13	10397	S700_1938	The Mayflower		32	69.29	Alpha Cognac		
14	10178	S700_2047	HMS Bounty		34	86.9	Alpha Cognac		
15	10178	S700_2466	America West Airlines B757-200		22	91.74	Alpha Cognac		
16	10007	S700_2610	The Queen Mary		20	62.88	Alpha Cognac		

The table is sorted by the "orderNumber" column in ascending order. The first 15 rows are fully visible, while the last row (row 16) is partially visible at the bottom. The status bar at the bottom shows "Ready" and "Accessibility: Investigate".

## 2.1 Sorting Data

ให้หัวว่า Alpha Cognac มีการสั่งซื้อสินค้ารายการใดเป็นจำนวนมากที่สุด

# 2.1 Sorting Data

ให้หัวว่า Alpha Cognac มีการสั่งซื้อสินค้ารายการใดเป็นจำนวนมากที่สุด

A	B	C	D	E	F	G
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10178	S18_3856	1941 Chevrolet Special Deluxe Cabriolet	48	104.81	Alpha Cognac
3	10397	S700_3505	The Titanic	48	86.15	Alpha Cognac
4	10178	S700_4002	American Airlines: MD-11S	45	68.11	Alpha Cognac
5	10178	S72_1253	Boeing X-32A JSF	45	41.71	Alpha Cognac
6	10178	S18_1662	1980s Black Hawk Helicopter	42	127.73	Alpha Cognac
7	10136	S18_3232	1992 Ferrari 360 Spider red	41	169.34	Alpha Cognac
8	10178	S18_3029	1999 Yamaha Speed Boat	41	70.54	Alpha Cognac
9	10136	S18_1984	1995 Honda Civic	36	120.91	Alpha Cognac
10	10397	S700_3962	The Queen Mary	36	80.44	Alpha Cognac
11	10178	S24_2841	1900s Vintage Bi-Plane	34	67.82	Alpha Cognac
12	10178	S700_2047	HMS Bounty	34	86.9	Alpha Cognac
13	10397	S72_3212	Pont Yacht	34	52.96	Alpha Cognac
14	10397	S700_1938	The Mayflower	32	69.29	Alpha Cognac
15	10178	S24_3949	Corsair F4U ( Bird Cage)	30	64.15	Alpha Cognac
16	10178	S24_3420	1937 Horch 930V Limousine	27	65.75	Alpha Cognac
17	10136	S18_1129	1993 Mazda RX-7	25	117.48	Alpha Cognac
18	10178	S10_4757	1972 Alfa Romeo GTA	24	131.92	Alpha Cognac
19	10178	S700_2466	America West Airlines B757-200	22	91.74	Alpha Cognac
20	10397	S700_2610	The USS Constitution Ship	22	62.88	Alpha Cognac
21	10178	S24_3816	1940 Ford Delivery Sedan	21	68.77	Alpha Cognac

## 2.1 Sorting Data

ให้หัวว่า Mini Wheels Co. มีการสั่งซื้อสินค้ารายการใดที่มีราคาต่อชิ้นสูงที่สุด

# 2.1 Sorting Data

ให้หัวว่า Mini Wheels Co. มีการสั่งซื้อสินค้ารายการใดที่มีราคาต่อชิ้นสูงที่สุด

orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	G
1997	10271 S24_2840	1958 Chevy Corvette Limited Edition	38	28.64	Mini Gifts Distributors Ltd.	
1998	10312 S24_1937	1939 Chevrolet Deluxe Coupe	39	27.88	Mini Gifts Distributors Ltd.	
1999	10201 S10_4698	2003 Harley-Davidson Eagle Drag Bike	49	191.72	Mini Wheels Co.	
2000	10333 S10_1949	1952 Alpine Renault 1300	26	188.58	Mini Wheels Co.	
2001	10201 S12_2823	2002 Suzuki XREO	25	126.52	Mini Wheels Co.	
2002	10333 S12_1666	1958 Setra Bus	33	121.64	Mini Wheels Co.	
2003	10201 S10_2016	1996 Moto Guzzi 1100i	24	116.56	Mini Wheels Co.	
2004	10333 S18_1097	1940 Ford Pickup Truck	29	110.84	Mini Wheels Co.	
2005	10333 S24_4258	1936 Chrysler Airflow	39	95.44	Mini Wheels Co.	
2006	10333 S18_3320	1917 Maxwell Touring Car	46	95.24	Mini Wheels Co.	
2007	10333 S18_2949	1913 Ford Model T Speedster	31	95.23	Mini Wheels Co.	
2008	10111 S18_3136	18th Century Vintage Horse Carriage	43	94.25	Mini Wheels Co.	
2009	10201 S24_1578	1997 BMW R 1100 S	39	93.54	Mini Wheels Co.	
2010	10111 S18_3320	1917 Maxwell Touring Car	39	91.27	Mini Wheels Co.	
2011	10111 S18_1342	1937 Lincoln Berline	33	87.33	Mini Wheels Co.	
2012	10111 S24_4258	1936 Chrysler Airflow	26	85.7	Mini Wheels Co.	
2013	10201 S10_1678	1969 Harley Davidson Ultimate Chopper	22	82.3	Mini Wheels Co.	
2014	10201 S24_2000	1960 BSA Gold Star DBD34	25	66.27	Mini Wheels Co.	
2015	10333 S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	33	62.05	Mini Wheels Co.	
2016	10111 S18_2957	1934 Ford V8 Coupe	28	53.09	Mini Wheels Co.	
2017	10111 S18_1367	1936 Mercedes-Benz 500K Special Roadster	48	48.52	Mini Wheels Co.	
2018	10201 S18_2625	1936 Harley Davidson El Knucklehead	30	48.46	Mini Wheels Co.	
2019	10333 S18_4668	1939 Cadillac Limousine	24	42.26	Mini Wheels Co.	29

# 2.2 Filtering Data

The screenshot shows a Microsoft Excel spreadsheet titled "order - edit...". The ribbon menu is visible at the top, with the "Table Design" tab selected. The "Data" tab is also present. On the left, there are icons for "Get Data" and "Get & Transform Data". The main area displays a table of data with columns: orderNumber, productCode, productName, quantityOrdered, priceEach, and customerName. The first row contains the column headers. The data consists of 18 rows, each representing an order item. The table is currently filtered, as indicated by the filter icon in the header and the green shading of the rows. Two large brown circles with white numbers are overlaid on the screen: one containing "1 Data" and another containing "2 Filter". The status bar at the bottom shows "Ready" and "Accessibility: Investigate".

	A	B	C	D	E	F	G
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.	
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.	
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.	
7	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.	
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	
10	10102	S18_1342	1937 Lincoln Berline	39	95.55	Vitachrome Inc.	
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.	
12	10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports	
13	10103	S10_4962	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports	
14	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports	
15	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports	
16	10103	S18_2432	1926 Ford Fire Engine	22	58.34	Baane Mini Imports	
17	10103	S18_2949	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports	
18	10103	S18_2957	1934 Ford V8 Coupe	35	61.84	Baane Mini Imports	

order

Ready Accessibility: Investigate

100%

# 2.2 Filtering Data

The screenshot shows a Microsoft Excel spreadsheet titled "Anna's Decorations, Ltd". The data is organized into columns: orderNumber, productCode, productName, quantityOrdered, priceEach, and customerName. The "customerName" column is currently being filtered. A dropdown menu is open next to the "customerName" header, listing various company names. The option "Toys of Finland, Co." is checked. The "Table Design" ribbon tab is active, specifically the "Data Tools" section which includes the "Filter" button.

	A	B	C	D	E	F
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10100	S18_1749	1917 Grand Touring Sedan	30		
3	10100	S18_2248	1911 Ford Town Car	50		
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22		
5	10100	S24_3969	1936 Mercedes Benz 500K Roadster	49		
6	10101	S18_2325	1932 Model A Ford J-Coupe	25		
7	10101	S18_2795	1928 Mercedes-Benz SSK	26		
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45		
9	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46		
10	10102	S18_1342	1937 Lincoln Berline	39		
11	10102	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41		
12	10103	S10_1949	1952 Alpine Renault 1300	26		
13	10103	S10_4962	1962 LanciaA Delta 16V	42		
14	10103	S12_1666	1958 Setra Bus	27		
15	10103	S18_1097	1940 Ford Pickup Truck	35		
16	10103	S18_2432	1926 Ford Fire Engine	22		
17	10103	S18_2949	1913 Ford Model T Speedster	27		
18	10103	S18_2957	1934 Ford V8 Coupe	35		
19	10103	S18_3136	18th Century Vintage Horse Carriage	25		
20	10103	S18_3320	1917 Maxwell Touring Car	46		
21	10103	S18_4600	1940s Ford truck	36		
22	10103	S18_4668	1939 Cadillac Limousine	41		
23	10103	S24_2300	1962 Volkswagen Microbus	36		
24	10103	S24_4258	1936 Chrysler Airflow	25		
25	10103	S32_1268	1980's GM Manhattan Express	31		

เลือกคอลัมน์

customerName

เลือก Toys of  
Finland, Co.

# 2.2 Filtering Data

	A	B	C	D	E	F	G
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	
494		10155 S10_4757	1972 Alfa Romeo GTA	32	129.2	Toys of Finland, Co.	
495		10155 S18_1662	1980s Black Hawk Helicopter	38	138.77	Toys of Finland, Co.	
496		10155 S18_3029	1999 Yamaha Speed Boat	44	83.44	Toys of Finland, Co.	
497		10155 S18_3856	1941 Chevrolet Special Deluxe Cabriolet	29	105.87	Toys of Finland, Co.	
498		10155 S24_2841	1900s Vintage Bi-Plane	23	62.34	Toys of Finland, Co.	
499		10155 S24_3420	1937 Horch 930V Limousine	34	56.55	Toys of Finland, Co.	
500		10155 S24_3816	1940 Ford Delivery Sedan	37	76.31	Toys of Finland, Co.	
501		10155 S24_3949	Corsair F4U ( Bird Cage)	44	58.69	Toys of Finland, Co.	
502		10155 S700_2047	HMS Bounty	32	89.61	Toys of Finland, Co.	
503		10155 S700_2466	America West Airlines B757-200	20	87.75	Toys of Finland, Co.	
504		10155 S700_3167	F/A 18 Hornet 1/72	43	76.8	Toys of Finland, Co.	
505		10155 S700_4002	American Airlines: MD-11S	44	70.33	Toys of Finland, Co.	
506		10155 S72_1253	Boeing X-32A JSF	34	49.16	Toys of Finland, Co.	
1838		10299 S10_1678	1969 Harley Davidson Ultimate Chopper	23	76.56	Toys of Finland, Co.	
1839		10299 S10_4698	2003 Harley-Davidson Eagle Drag Bike	29	164.61	Toys of Finland, Co.	
1840		10299 S12_2823	2002 Suzuki XREO	24	123.51	Toys of Finland, Co.	
1841		10299 S18_3782	1957 Vespa GS150	39	62.17	Toys of Finland, Co.	
1842		10299 S18_4721	1957 Corvette Convertible	49	119.04	Toys of Finland, Co.	
1843		10299 S24_1578	1997 BMW R 1100 S	47	107.07	Toys of Finland, Co.	
1844		10299 S24_2360	1982 Ducati 900 Monster	33	58.87	Toys of Finland, Co.	
1845		10299 S24_4620	1961 Chevrolet Impala	32	66.29	Toys of Finland, Co.	
1846		10299 S32_2206	1982 Ducati 996 R	24	36.21	Toys of Finland, Co.	
1847		10299 S32_4485	1974 Ducati 350 Mk3 Desmo	38	84.7	Toys of Finland, Co.	
1848		10299 S50_4713	2002 Yamaha YZR M1	44	77.29	Toys of Finland, Co.	
1849		10299 S61_2000	1970 Plymouth Duster Coupe	24	65.44	Toys of Finland, Co.	

## 2.2 Filtering Data

ให้สร้าง worksheet ชื่อ Toys of Finland, Co. และคัดลอกเฉพาะข้อมูลของ customer นี้ และหาค่ารวมยอดสั่งซื้อสินค้าทั้งหมด

## 2.2 Filtering Data

ให้สร้าง worksheet ชื่อ Toys of Finland, Co. และคัดลอกเฉพาะข้อมูลของ customer นี้ และหาค่ารวมยอดสั่งซื้อสินค้าทั้งหมด

# 2.2 Filtering Data

	G1						
1	A	B	C	D	E	F	G
2	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	
2	10136	S18_3232	1992 Ferrari 360 Spider red	41	169.34	Alpha Cognac	
3	10178	S10_4757	1972 Alfa Romeo GTA	24	131.92	Alpha Cognac	
4	10178	S18_1662	1980s Black Hawk Helicopter	42	127.73	Alpha Cognac	
5	10136	S18_1984	1995 Honda Civic	36	120.91	Alpha Cognac	
6	10136	S18_1129	1993 Mazda RX-7	25	117.48	Alpha Cognac	
7	10178	S18_3856	1941 Chevrolet Special Deluxe Cabriolet	48	104.81	Alpha Cognac	
8	10178	S700_2466	America West Airlines B757-200	22	91.74	Alpha Cognac	
9	10178	S700_2047	HMS Bounty	34	86.9	Alpha Cognac	
10	10397	S700_3505	The Titanic	48	86.15	Alpha Cognac	
11	10397	S700_3962	The Queen Mary	36	80.44	Alpha Cognac	
12	10178	S18_3029	1999 Yamaha Speed Boat	41	70.54	Alpha Cognac	
13	10397	S700_1938	The Mayflower	32	69.29	Alpha Cognac	
14	10178	S24_3816	1940 Ford Delivery Sedan	21	68.77	Alpha Cognac	
15	10178	S700_4002	American Airlines: MD-11S	45	68.11	Alpha Cognac	
16	10178	S24_2841	1900s Vintage Bi-Plane	34	67.82	Alpha Cognac	
17	10178	S24_3420	1937 Horch 930V Limousine	27	65.75	Alpha Cognac	
18	10178	S24_3949	Corsair F4U (Bird Cage)	30	64.15	Alpha Cognac	
19	10397	S700_2610	The USS Constitution Ship	22	62.88	Alpha Cognac	
20	10397	S72_3212	Pont Yacht	34	52.96	Alpha Cognac	
21	10178	S72_1253	Boeing X-32A JSF	45	41.71	Alpha Cognac	
22	10280	S10_1949	1952 Alpine Renault 1300	34	205.73	Amica Models & Co.	
23	10293	S12_1108	2001 Ferrari Enzo	46	187.02	Amica Models & Co.	
24	10293	S12_3891	1969 Ford Falcon	45	171.29	Amica Models & Co.	
25	10280	S18_1749	1917 Grand Touring Sedan	26	161.5	Amica Models & Co.	
26	10280	S18_2795	1928 Mercedes-Benz SSK	22	158.63	Amica Models & Co.	
27	10293	S12_3148	1969 Corvair Monza	24	129.93	Amica Models & Co.	
28	10280	S24_3011	1941 Lincoln Continental	24	114.82	Amica Models & Co.	

## Advanced Filtering

ให้เรียงลำดับตามคอลัมน์  
customerName และ  
priceEach

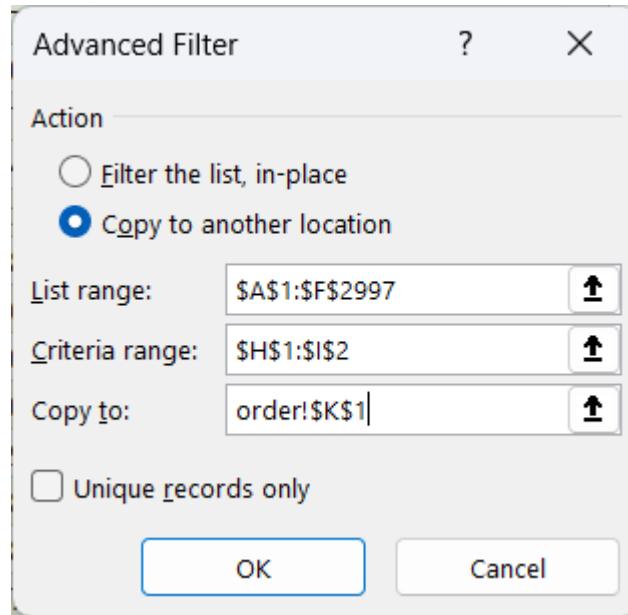
# 2.2 Filtering Data

G1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	G	customerName	priceEach						
2	10136	S18_3232	1992 Ferrari 360 Spider red	41	169.34	Alpha Cognac		Alpha Cognac	>100						
3	10178	S10_4757	1972 Alfa Romeo GTA	24	131.92	Alpha Cognac									
4	10178	S18_1662	1980s Black Hawk Helicopter	42	127.73	Alpha Cognac									
5	10136	S18_1984	1995 Honda Civic	36	120.91	Alpha Cognac									
6	10136	S18_1129	1993 Mazda RX-7	25	117.48	Alpha Cognac									
7	10178	S18_3856	1941 Chevrolet Special Deluxe Cabriolet	48	104.81	Alpha Cognac									
8	10178	S700_2466	America West Airlines B757-200	22	91.74	Alpha Cognac									
9	10178	S700_2047	HMS Bounty	34	86.9	Alpha Cognac									
10	10397	S700_3505	The Titanic	48	86.15	Alpha Cognac									
11	10397	S700_3962	The Queen Mary	36	80.44	Alpha Cognac									
12	10178	S18_3029	1999 Yamaha Speed Boat	41	70.54	Alpha Cognac									
13	10397	S700_1938	The Mayflower	32	69.29	Alpha Cognac									
14	10178	S24_3816	1940 Ford Delivery Sedan	21	68.77	Alpha Cognac									
15	10178	S700_4002	American Airlines: MD-11S	45	68.11	Alpha Cognac									
16	10178	S24_2841	1900s Vintage Bi-Plane	34	67.82	Alpha Cognac									
17	10178	S24_3420	1937 Horch 930V Limousine	27	65.75	Alpha Cognac									
18	10178	S24_3949	Corsair F4U (Bird Cage)	30	64.15	Alpha Cognac									
19	10397	S700_2610	The USS Constitution Ship	22	62.88	Alpha Cognac									
20	10397	S72_3212	Pont Yacht	34	52.96	Alpha Cognac									
21	10178	S72_1253	Boeing X-32A JSF	45	41.71	Alpha Cognac									
22	10280	S10_1949	1952 Alpine Renault 1300	34	205.73	Amica Models & Co.									
23	10293	S12_1108	2001 Ferrari Enzo	46	187.02	Amica Models & Co.									
24	10293	S12_3891	1969 Ford Falcon	45	171.29	Amica Models & Co.									
25	10280	S18_1749	1917 Grand Touring Sedan	26	161.5	Amica Models & Co.									
26	10280	S18_2795	1928 Mercedes-Benz SSK	22	158.63	Amica Models & Co.									
27	10293	S12_3148	1969 Corvair Monza	24	129.93	Amica Models & Co.									
28	10280	S24_2011	1941 Lincoln Continental	24	111.82	Amica Models & Co.									

สร้างข้อมูลเพิ่มที่ colum น์ H,I

# 2.2 Filtering Data



ทำการกรองข้อมูล โดยเลือก  
เป็นแบบ Advanced Filter

# 2.2 Filtering Data

Screenshot of a spreadsheet application showing filtering results.

The spreadsheet has two main sections:

- Left Section (Rows 1-27):** Contains data for "Alpha Cognac". Columns include quantityOrdered, priceEach, and customerName.
- Right Section (Rows 1-27):** Contains data for various customers. Columns include customerName, priceEach, orderNumber, productCode, productName, quantityOrdered, priceEach, and customerName.

Filtering is applied to the right section:

- Column G (customerName):** Filtered to show only rows where customerName is "Alpha Cognac".
- Column H (priceEach):** Filtered to show only rows where priceEach is greater than 100.

The status bar at the bottom shows the filter applied to the "order" column.

	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	quantityOrdered	priceEach	customerName		customerName	priceEach		orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	
2	41	169.34	Alpha Cognac		Alpha Cognac	>100		10136	S18_3232	1992 Ferrari 360 Spider red	41	169.34	Alpha Cognac	
3	24	131.92	Alpha Cognac					10178	S10_4757	1972 Alfa Romeo GTA	24	131.92	Alpha Cognac	
4	42	127.73	Alpha Cognac					10178	S18_1662	1980s Black Hawk Helicopter	42	127.73	Alpha Cognac	
5	36	120.91	Alpha Cognac					10136	S18_1984	1995 Honda Civic	36	120.91	Alpha Cognac	
6	25	117.48	Alpha Cognac					10136	S18_1129	1993 Mazda RX-7	25	117.48	Alpha Cognac	
7	48	104.81	Alpha Cognac					10178	S18_3856	1941 Chevrolet Special Deluxe Cabriolet	48	104.81	Alpha Cognac	
8	22	91.74	Alpha Cognac											
9	34	86.9	Alpha Cognac											
10	48	86.15	Alpha Cognac											
11	36	80.44	Alpha Cognac											
12	41	70.54	Alpha Cognac											
13	32	69.29	Alpha Cognac											
14	21	68.77	Alpha Cognac											
15	45	68.11	Alpha Cognac											
16	34	67.82	Alpha Cognac											
17	27	65.75	Alpha Cognac											
18	30	64.15	Alpha Cognac											
19	22	62.88	Alpha Cognac											
20	34	52.96	Alpha Cognac											
21	45	41.71	Alpha Cognac											
22	34	205.73	Amica Models & Co.											
23	46	187.02	Amica Models & Co.											
24	45	171.29	Amica Models & Co.											
25	26	161.5	Amica Models & Co.											
26	22	158.63	Amica Models & Co.											
27	24	129.93	Amica Models & Co.											
28	24	114.0	Amica Models & Co.											

## 2.2 Filtering Data

ให้สร้าง worksheet ชื่อ Vida Sport, Ltd และคัดลอกเฉพาะข้อมูลของ customer นี้ เฉพาะการสั่งซื้อที่มีจำนวนตั้งแต่ 40 ชิ้นขึ้นไป และหาค่ารวมยอดสั่งซื้อสินค้าทั้งหมด

## 2.2 Filtering Data

ให้สร้าง worksheet ชื่อ Vida Sport, Ltd และคัดลอกเฉพาะข้อมูลของ customer นี้ เนื่องจากสั่งซื้อที่มีจำนวนตั้งแต่ 40 ชิ้นขึ้นไป และหากค่ารวมยอดสั่งซื้อสินค้าทั้งหมด

1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total
2	10225	S18_3232	1992 Ferrari 360 Spider red	43	162.57	Vida Sport, Ltd	6990.51
3	10225	S24_3856	1956 Porsche 356A Coupe	40	130.6	Vida Sport, Ltd	5224
4	10225	S24_4620	1961 Chevrolet Impala	46	77.61	Vida Sport, Ltd	3570.06
5	10225	S18_1889	1948 Porsche 356-A Roadst	47	71.61	Vida Sport, Ltd	3365.67
6	10225	S24_2972	1982 Lamborghini Diablo	42	34.74	Vida Sport, Ltd	1459.08
7	10287	S18_3482	1976 Ford Gran Torino	40	127.88	Vida Sport, Ltd	5115.2
8	10287	S12_3380	1968 Dodge Charger	45	117.44	Vida Sport, Ltd	5284.8
9	10287	S18_2870	1999 Indy 500 Monte Carlo	44	114.84	Vida Sport, Ltd	5052.96
10	10287	S18_1129	1993 Mazda RX-7	41	113.23	Vida Sport, Ltd	4642.43
11	10287	S24_4620	1961 Chevrolet Impala	40	79.22	Vida Sport, Ltd	3168.8
12	10287	S12_3990	1970 Plymouth Hemi Cuda	41	74.21	Vida Sport, Ltd	3042.61
13	10287	S18_3278	1969 Dodge Super Bee	43	68.35	Vida Sport, Ltd	2939.05
14	10287	S18_1889	1948 Porsche 356-A Roadst	44	61.6	Vida Sport, Ltd	2710.4
15							
16						sum	52565.57
17							

## 2.3 Query with Function

A	B	C	D	E	F	G	H
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total
2	10155	S18_1662	1980s Black Hawk Helicopter	38	138.77	Toys of Finland, Co.	5273.26
3	10155	S10_4757	1972 Alfa Romeo GTA	32	129.2	Toys of Finland, Co.	4134.4
4	10155	S10_2256	1971 Fiat 126 Spider	29	105.87	Toys of Finland, Co.	3070.23
5	10155			32	89.61	Toys of Finland, Co.	2867.52
6	10155			20	87.75	Toys of Finland, Co.	1755
7	10155			44	83.44	Toys of Finland, Co.	3671.36
26	10377			39	143.94	Toys of Finland, Co.	5613.66
27	10377			36	125.18	Toys of Finland, Co.	4506.48
28	10377	S10_1129	1995 Mazda RX-7	55	124.56	Toys of Finland, Co.	4359.6
29	10377	S12_4675	1969 Dodge Charger	50	112.86	Toys of Finland, Co.	5643
30	10377	S12_3990	1970 Plymouth Hemi Cuda	24	63.5	Toys of Finland, Co.	1570.56
31	10377	S18_1889	1948 Porsche 356-A Roadster	31	61.6	Toys of Finland, Co.	1909.6
32							
33					sum	95546.5	
34							

ให้สร้าง worksheet ชื่อ Toys of Finland, Co.  
แล้วคัดลอกเฉพาะข้อมูลของ customer นี้ แล้วหา  
รวมยอดสั่งซื้อสินค้าทั้งหมด

# 2.3 Query with Function

A	B	C	D	E	F	G	
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080
3	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations	1660.12
4	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations	2754.5
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations	1729.21
6	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto Co.	4343.56
7	10101	S18_2325	1932 Model A Ford				2701.5
8	10101	S24_2022	1938 Cadillac V-16				2040.1
9	10101	S24_1937	1939 Chevrolet Del				1463.85
10	10102	S18_1342	1937 Lincoln Berline				3726.45
11	10102	S18_1367	1936 Mercedes-Benz				1768.33
12	10103	S10_1949	1952 Alpine Renault				5571.8
13	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports	3284.28
14	10103	S10_4962	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports	5026.14
15	10103	S24_2300	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports	3864.24
16	10103	S18_4600	1940s Ford truck	36	98.07	Baane Mini Imports	3530.52
17	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports	3307.5
18	10103	S700_2824	1982 Camaro Z28	42	94.07	Baane Mini Imports	3950.94
19	10103	S32_1268	1980's GM Manhattan Express	31	92.46	Baane Mini Imports	2866.26
20	10103	S18_2949	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports	2489.13
21	10103	S24_4258	1936 Chrysler Airflow	25	88.62	Baane Mini Imports	2215.5
22	10103	S18_3136	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports	2173
23	10103	S18_3320	1917 Maxwell Touring Car	46	86.31	Baane Mini Imports	3970.26
24	10103	S32_3522	1996 Peterbilt 379 Stake Bed with Outrigger	45	63.35	Baane Mini Imports	2850.75
25	10103	S18_2957	1934 Ford V8 Coupe	35	61.84	Baane Mini Imports	2164.4
26	10103	S18_2432	1926 Ford Fire Engine	22	58.34	Baane Mini Imports	1283.48
27	10103	S18_4668	1939 Cadillac Limousine	41	40.75	Baane Mini Imports	1670.75

สร้าง colum 'total' เป็นยอดรวม  
ใน order



# 2.3 Query with Function

	D	E	F	G	H	I	J
1	quantityOrdered	priceEach	customerName	total		customerName	
2		30	136 Online Diecast Creations Co.	4080		Toys of Finland, Co.	
3		22	75.46 Online Diecast Creations Co.	1660.12			
4		50	55.09 Online Diecast Creations Co.	2754.5			
5		49	35.29 Online Diecast Creations Co.	1729.21			
6		26	167.06 Blauer See Auto, Co.	4343.56			
7		25	108.06 Blauer See Auto, Co.	2701.5			
8		46	44.35 Blauer See Auto, Co.	2040.1			
9		45	32.53 Blauer See Auto, Co.	1463.85			
10		39	95.55 Vitachrome Inc.	3726.45			
11		41	43.13 Vitachrome Inc.	1767.33			
12		26	214.3 Baane Mini Imports	5567.8			
13		27	121.64 Baane Mini Imports	3284.28			
14		42	119.67 Baane Mini Imports	5026.14			
15		36	107.34 Baane Mini Imports	3864.24			
16		36	98.07 Baane Mini Imports	3530.52			
17		35	94.5 Baane Mini Imports	3307.5			
18		42	94.07 Baane Mini Imports	3950.94			
19		31	92.46 Baane Mini Imports	2866.26			
20		27	92.19 Baane Mini Imports	2489.13			
21		25	88.62 Baane Mini Imports	2215.5			
22		25	86.92 Baane Mini Imports	2173			

สร้างข้อมูลเพื่อใช้เป็นเงื่อนไข

# 2.3 Query with Function

	D	E	F	G	H	I	J	K	L
1	quantityOrdered	priceEach	customerName	total		customerName			
2	30	136	Online Diecast Creations Co.	4080		Toys of Finland, Co.			
3	22	75.46	Online Diecast Creations Co.	1660.12					
4	50	55.09	Online Diecast Creations Co.	2754.5					
5	49	35.29	Online Diecast Creations Co.	1729.21					
6	26	167.06	Blauer See Auto, Co.	4343.56					
7	25	108.06	Blauer See Auto, Co.	2701.5					
8	46	44.35	Blauer See Auto, Co.	2040.1					
9	45	32.53	Blauer See Auto, Co.	1463.85					
10	39	95.55	Vitachrome Inc.	3726.45					
11	41	43.13	Vitachrome Inc.	1768.33					
12	26	214.3	Baane Mini Imports	5571.8					
13	27	121.64	Baane Mini Imports	3241.28					
14	42	119.67	Baane Mini Imports						
15	36	107.34	Baane Mini Imports						
16	36	98.07	Baane Mini Imports						
17	35	94.5	Baane Mini Imports						
18	42	94.07	Baane Mini Imports						

สร้างฟังก์ชันหายอดรวมเงินพำนุกค้า

Toys of Finland, Co.

=SUMIF(\$F\$1:\$F\$2997,I2,\$G\$1:\$G\$2997)

SUMIF(range, criteria, [sum\_range])

# 2.3 Query with Function

	D	E	F	G	H	I	J	K	L
1	quantityOrdered	priceEach	customerName	total		customerName			
2	30	136	Online Diecast Creations Co.	4080		Toys of Finland, Co.			
3	22	75.46	Online Diecast Creations Co.	1660.12					
4	50	55.09	Online Diecast Creations Co.	2754.5					
5	49	35.29	Online Diecast Creations Co.	1729.21					
6	26	167.06	Blauer See Auto, Co.	4343.56					
7	25	108.06	Blauer See Auto, Co.	2701.5	sum		=SUMIF(\$F\$1:\$F\$2997,I2,\$G\$1:\$G\$2997)		
8	46	44.35	Blauer See Auto, Co.	2040.1			SUMIF(range, criteria, [sum_range])		
9	45	32.53	Blauer See Auto, Co.	1463.85					
10	39	95.55	Vitachrome Inc.	3726.45					
11	41	43.13	Vitachrome Inc.	1768.33					
12	26	214.3	Baane Mini Imports	5571.8					
13	27	121.64	Baane Mini Imports						
14	42	119.67	Baane Mini Imports						
15	36	107.34	Baane Mini Imports						
16	36	98.07	Baane Mini Imports	3530.52					
17	35	94.5	Baane Mini Imports	3307.5					
18	42	94.07	Baane Mini Imports	3950.94					

=SUMIF(\$F\$1:\$F\$2997,\$I\$2,\$G\$1:\$G\$2997)

# 2.3 Query with Function

	D	E	F	G	H	I	J	K
1	quantityOrdered	priceEach	customerName	total		customerName		
2		30	136 Online Diecast Creations Co.	4080		Toys of Finland, Co.		
3		22	75.46 Online Diecast Creations Co.	1660.12				
4		50	55.09 Online Diecast Creations Co.	2754.5				
5		49	35.29 Online Diecast Creations Co.	1729.21				
6		26	167.06 Blauer See Auto, Co.	4343.56				
7		25	108.06 Blauer See Auto, Co.	2701.5		sum	95546.46	
8		46	44.35 Blauer See Auto, Co.	2040.1				
9		45	32.53 Blauer See Auto, Co.	1463.85				
10		39	95.55 Vitachrome Inc.	3726.45				
11		41	43.13 Vitachrome Inc.	1768.33				
12		26	214.3 Baane Mini Imports	5571.8				
13		27	121.64 Baane Mini Imports	328				
14		42	119.67 Baane Mini Imports	502				
15		36	107.34 Baane Mini Imports	386				
16		36	98.07 Baane Mini Imports	353				
17		35	94.5 Baane Mini Imports	33				
18		42	94.07 Baane Mini Imports	395				
19		31	92.46 Baane Mini Imports	2866.26				
20		27	92.19 Baane Mini Imports	2489.13				
21		25	88.62 Baane Mini Imports	2215.5				
22		25	86.92 Baane Mini Imports	2173				
23		46	86.31 Baane Mini Imports	3970.26				

ยอดรวมเฉพาะลูกค้า

Toys of Finland, Co.

## 2.3 Query with Function

ให้คำว่ามยอดสั่งซื้อสินค้าทั้งหมดของ Vitachrome Inc.

## 2.3 Query with Function

	A	B	C	D	E	F	G	H
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total	
2		10225 S18_3232	1992 Ferrari 360 Spider red	43	162.57	Vida Sport, Ltd	6990.51	
3		10225 S24_3856	1956 Porsche 356A Coupe	40	130.6	Vida Sport, Ltd	5224	
4		10225 S24_4620	1961 Chevrolet Impala	46	77.61	Vida Sport, Ltd	3570.06	
5					71.61	Vida Sport, Ltd	3365.67	
6					34.74	Vida Sport, Ltd	1459.08	
7					127.88	Vida Sport, Ltd	5115.2	
8					117.44	Vida Sport, Ltd	5284.8	
9					114.84	Vida Sport, Ltd	5052.96	
10					113.23	Vida Sport, Ltd	4642.43	
11					92.22	Vida Sport, Ltd	3168.8	
12					74.21	Vida Sport, Ltd	3042.61	
13		10287 S18_3278	1969 Dodge Super Bee	43	68.35	Vida Sport, Ltd	2939.05	
14		10287 S18_1889	1948 Porsche 356-A Roadst	44	61.6	Vida Sport, Ltd	2710.4	
15								
16						sum	52565.57	
17								

ให้สร้าง worksheet ชื่อ Vida Sport, Ltd และคัดลอกเฉพาะข้อมูลของ customer นี้ เฉพาะการสั่งซื้อที่มีจำนวนตั้งแต่ 40 ชิ้นขึ้นไป แล้วหาค่ารวมยอดสั่งซื้อสินค้าทั้งหมด

# 2.3 Query with Function

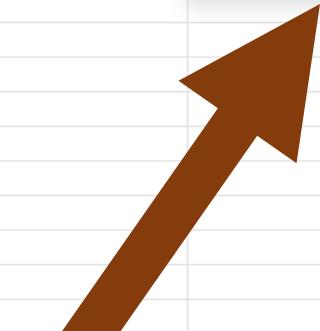
	C	D	E	F	G	H	I	J	K
1	productName	quantityOrdered	priceEach	customerName	total		customerName	quantityOrdered	
2	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080		Vida Sport, Ltd	>=40	
3	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12				
4	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.	2754.5				
5	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.	1729.21				
6	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.	4343.56				
7	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.	2701.5				
8	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1				
9	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85				
10	1937 Lincoln Berline	39	95.55	Vitachrome Inc.	3726.45				
11	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.	1768.33				
12	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports					
13	1958 Setra Bus	27	121.64	Baane Mini Imports					
14	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports					
15	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports					
16	1940s Ford truck	36	98.07	Baane Mini Imports	3530.52				
17	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports	3307.5				
18	1982 Camaro Z28	42	94.07	Baane Mini Imports	3950.94				
19	1980's GM Manhattan Express	31	92.46	Baane Mini Imports	2866.26				
20	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports	2489.13				
21	1936 Chrysler Airflow	25	88.62	Baane Mini Imports	2215.5				
22	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports	2173				
23	1917 Maxwell Touring Car	46	86.31	Baane Mini Imports	3970.26				
24	1996 Peterbilt 379 Stake Bed with Outrigger	45	63.35	Baane Mini Imports	2850.75				
25	1934 Ford V8 Coupe	35	61.84	Baane Mini Imports	2164.4				
26	1926 Ford Fire Engine	22	58.34	Baane Mini Imports	1283.48				

สร้างข้อมูลเพื่อใช้เป็นเงื่อนไข

# 2.3 Query with Function

	C	D	E	F	G	H	I	J	K	L	M	N
1	productName	quantityOrdered	priceEach	customerName	total		customerName	quantityOrdered				
2	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080		Vida Sport, Ltd	>=40				
3	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12							
4	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.	2754.5							
5	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.	1729.21							
6	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.	4343.56							
7	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.	2701.5	sum		=SUMIFS(\$G\$1:\$G\$2997,\$F\$1:\$F\$2997,I2,\$D\$1:\$D\$2997,J2)				
8	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1			SUMIFS(sum_range, criteria_range1, criteria1, [criteria_range2, criteria2], [crite				
9	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85							
10	1937 Lincoln Berline	39	95.55	Vitachrome Inc.	3726.45							
11	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.	1768.33							
12	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports	5571.8							
13	1958 Setra Bus	27	121.64	Baane Mini Imports	3284.28							
14	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports	5026.14							
15	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports	3864.24							
16	1940s Ford truck	36	98.07	Baane Mini Imports	3530.52							
17	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports	3307.5							
18	1982 Camaro Z28	42	94.07	Baane Mini Imports	3950.94							
19	1980's GM Manhattan Express											
20	1913 Ford Model T Speedster											

=SUMIFS(\$G\$1:\$G\$2997,\$F\$1:\$F\$2997,\$I\$2,\$D\$1:\$D\$2997,\$J\$2)



# 2.3 Query with Function

	C	D	E	F	G	H	I	J	K
1	productName	quantityOrdered	priceEach	customerName	total		customerName	quantityOrdered	
2	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080		Vida Sport, Ltd	>=40	
3	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12				
4	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.	2754.5				
5	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.	1729.21				
6	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.	4343.56				
7	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.	2701.5		sum	52565.57	
8	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1				
9	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85				
10	1937 Lincoln Berline	39	95.55	Vitachrome Inc.	3726.45				
11	1936 Mercedes-Benz 500K Special Roadster	41	43.13	Vitachrome Inc.	1768.33				
12	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports	5571.8				
13	1958 Setra Bus	27	121.64	Baane Mini Imports	3284.28				
14	1962 LanciaA Delta 16V	42	119.67	Baane Mini Imports	5026.14				
15	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports	3864.24				
16	1940s Ford truck	36	98.07	Baane Mini Imports					
17	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports					
18	1982 Camaro Z28	42	94.07	Baane Mini Imports					
19	1980's GM Manhattan Express	31	92.46	Baane Mini Imports					
20	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports					
21	1936 Chrysler Airflow	25	88.62	Baane Mini Imports					
22	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports					
23	1917 Maxwell Touring Car	46	86.31	Baane Mini Imports					
24	1996 Peterbilt 379 Stake Bed with Outrigger	45	63.35	Baane Mini Imports					
25	1934 Ford V8 Coupe	35	61.84	Baane Mini Imports					

ยอดรวมเฉพาะลูกค้า

Vida Sport, Ltd

ที่สั่งซื้อสินค้าตั้งแต่ 40 ชิ้น

## 2.3 Query with Function

ให้ห้าค่ารวมยอดสั่งซื้อสินค้าตั้งแต่ 30 ชิ้นของ Vitachrome Inc.

## 2.3 Query with Function

ให้หายอดสั่งซื้อสินค้าตั้งแต่ 30 ชิ้นของ Vitachrome Inc. ที่มีค่ามากที่สุด และน้อยที่สุด

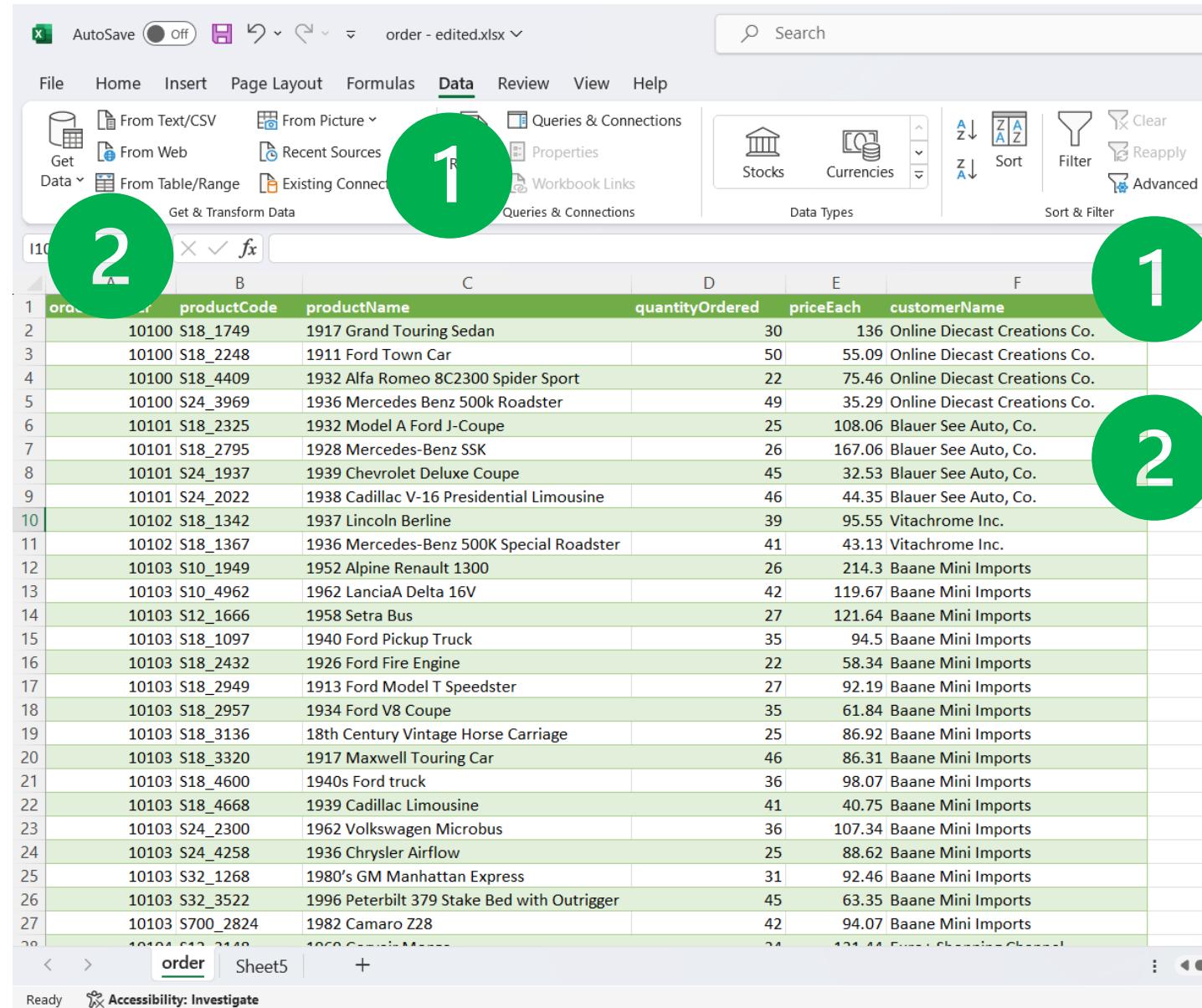
# 3. Power Queries

# 3.1 Group By

หากต้องการข้อมูลว่า customer ใดมีการสั่งสินค้าจำนวนครั้งมากที่สุด ทำอย่างไร

A	B	C	D	E	F	
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10136	S18_3232	1992 Ferrari 360 Spider red	41	169.34	Alpha Cognac
3	10178	S10_4757	1972 Alfa Romeo GTA	24	131.92	Alpha Cognac
4	10178	S18_1662	1980s Black Hawk Helicopter	42	127.73	Alpha Cognac
5	10136	S18_1984	1995 Honda Civic	36	120.91	Alpha Cognac
6	10136	S18_1129	1993 Mazda RX-7	25	117.48	Alpha Cognac
7	10178	S18_3856	1941 Chevrolet Special Deluxe Cabriolet	48	104.81	Alpha Cognac
8	10178	S700_2466	America West Airlines B757-200	22	91.74	Alpha Cognac
9	10178	S700_2047	HMS Bounty	34	86.9	Alpha Cognac
10	10397	S700_3505	The Titanic	48	86.15	Alpha Cognac
11	10397	S700_3962	The Queen Mary	36	80.44	Alpha Cognac
12	10178	S18_3029	1999 Yamaha Speed Boat	41	70.54	Alpha Cognac
13	10397	S700_1938	The Mayflower	32	69.29	Alpha Cognac
14	10178	S24_3816	1940 Ford Delivery Sedan	21	68.77	Alpha Cognac
15	10178	S700_4002	American Airlines: MD-11S	45	68.11	Alpha Cognac
16	10178	S24_2841	1900s Vintage Bi-Plane	34	67.82	Alpha Cognac
17	10178	S24_3420	1937 Horch 930V Limousine	27	65.75	Alpha Cognac
18	10178	S24_3949	Corsair F4U (Bird Cage)	30	64.15	Alpha Cognac
19	10397	S700_2610	The USS Constitution Ship	22	62.88	Alpha Cognac
20	10397	S72_3212	Pont Yacht	34	52.96	Alpha Cognac
21	10178	S72_1253	Boeing X-32A JSF	45	41.71	Alpha Cognac
22	10280	S10_1949	1952 Alpine Renault 1300	34	205.73	Amica Models & Co.
23	10293	S12_1108	2001 Ferrari Enzo	46	187.02	Amica Models & Co.
24	10293	S12_3891	1969 Ford Falcon	45	171.29	Amica Models & Co.
25	10280	S18_1749	1917 Grand Touring Sedan	26	161.5	Amica Models & Co.
26	10280	S18_2795	1928 Mercedes-Benz SSK	22	158.63	Amica Models & Co.
27	10293	S12_3148	1969 Corvair Monza	24	129.93	Amica Models & Co.
28	10280	S24_2011	1941 Lincoln Zephyr	24	111.82	Amica Models & Co.

# 3.1 Group By



# Data

# Get Data

# From Table/Range

# 3.1 Group By

orderdetails\_2 - Power Query Editor

File Home Transform Add Column View

Close & Load Refresh Preview Advanced Editor Properties Manage Columns Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Whole Number Use First Row as Headers Merge Queries Append Queries Combine Files Manage Parameters Data source settings New Source Recent Sources Enter Data Close Query

Queries [1] orderdetails\_2

= Table.TransformColumnTypes(Source,{{"orderNumber", Int64.Type}, {"productCode", type text}, {"productName", type text}, {"quantityOrdered", Int64.Type}, {"priceEach", Int64.Type}})

orderNumber	productCode	productName	quantityOrdered	priceEach
1	S18_1749	1917 Grand Touring Sedan	30	55
2	S18_2248	1911 Ford Town Car	50	75
3	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	35
4	S24_3969	1936 Mercedes Benz 500k Roadster	49	108
5	S18_2325	1932 Model A Ford J-Coupe	25	167
6	S18_2795	1928 Mercedes-Benz SSK	26	44
7	S24_1937	1939 Chevrolet Deluxe Coupe	45	95
8	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	23
9	S18_1342	1937 Lincoln Berline	39	119
10	S18_1367	1936 Mercedes-Benz 500K Special Roadster	41	121
11	S10_1949	1952 Alpine Renault 1300	26	58
12	S10_4962	1962 LanciaA Delta 16V	42	86
13	S12_1666	1958 Setra Bus	27	61
14	S18_1097	1940 Ford Pickup Truck	35	86
15	S18_2432	1926 Ford Fire Engine	22	92
16	S18_2949	1913 Ford Model T Speedster	27	108
17	S18_2957	1934 Ford V8 Coupe	35	121
18	S18_3136	18th Century Vintage Horse Carriage	25	167
19	S18_3320	1917 Maxwell Touring Car	46	23
20	S10_4600	1940s Ford truck	26	108

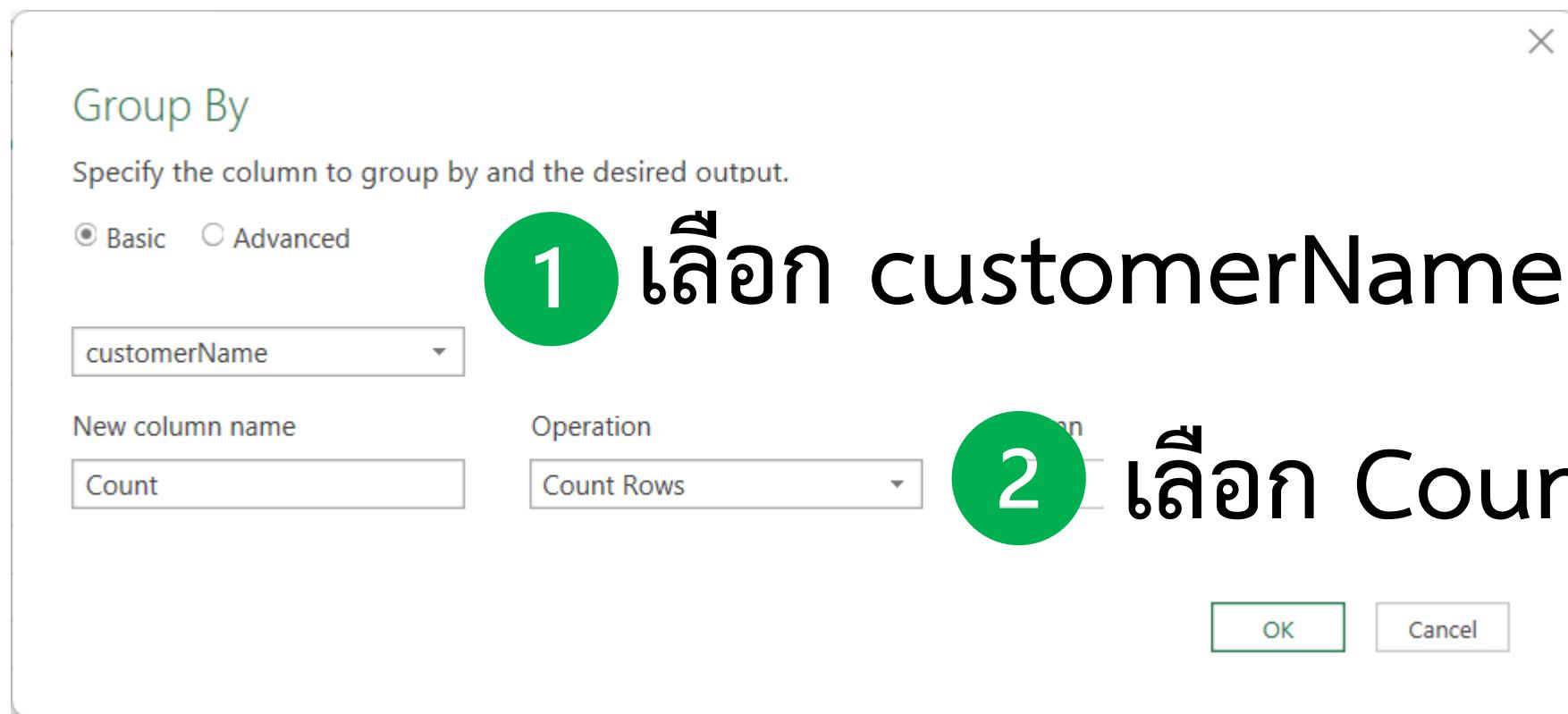
Query Settings

Properties Name: orderdetails\_2 All Properties

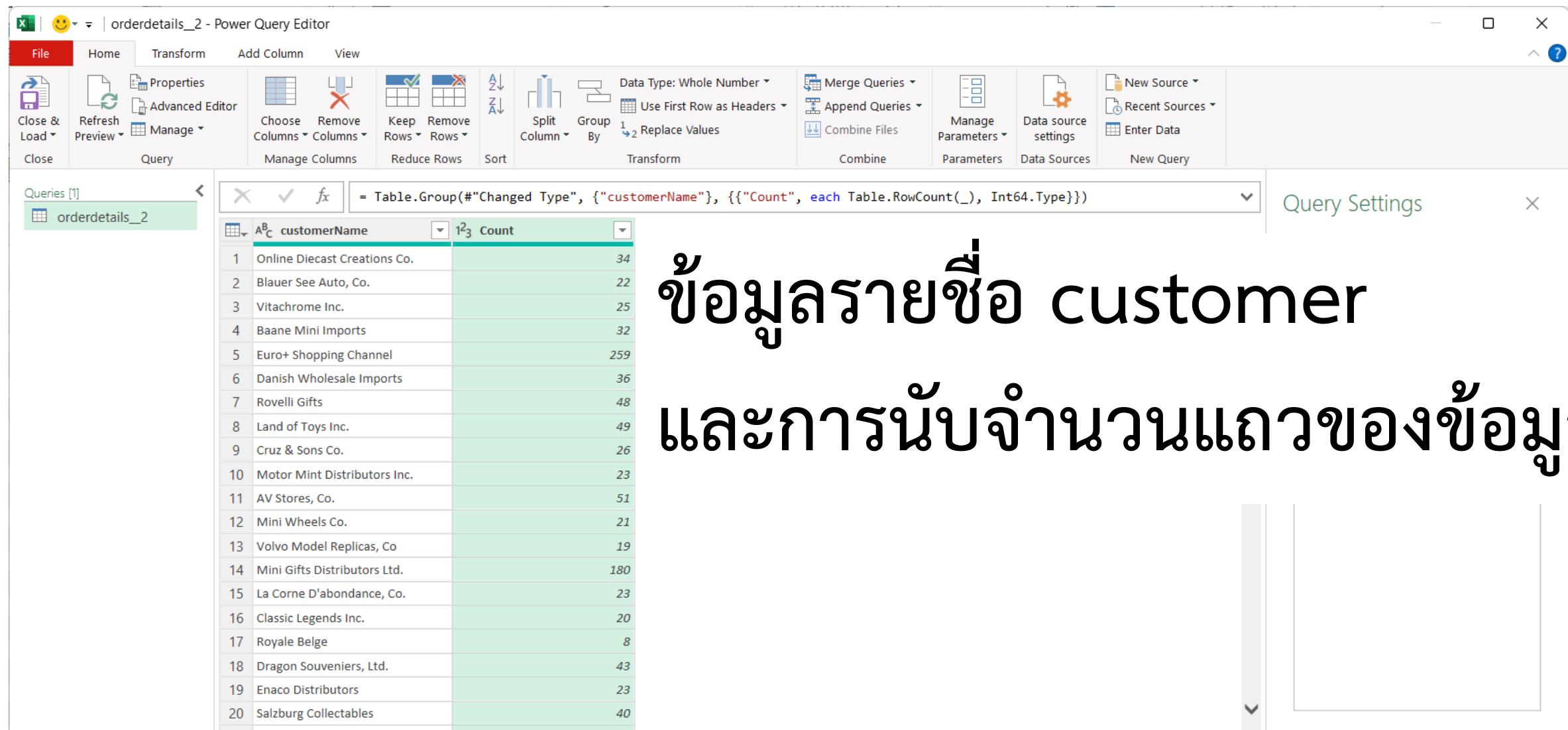
Applied Steps Source: Changed Type

# 3.1 Group By

หากต้องการข้อมูลว่า customer ใดมีการสั่งสินค้าจำนวนครั้งมากที่สุด ทำอย่างไร



# 3.1 Group By



The screenshot shows the Microsoft Power Query Editor interface. The ribbon menu is visible at the top, with the 'Home' tab selected. The main area displays a table titled 'customerName' with two columns: 'customerName' and 'Count'. The table lists 20 different customers with their respective counts. A formula bar above the table shows the query: '= Table.Group(#"Changed Type", {"customerName"}, {"Count", each Table.RowCount(\_, Int64.Type{})})'. The 'Transform' tab is active in the ribbon, indicating the operation performed.

customerName	Count
Online Diecast Creations Co.	34
Blauer See Auto, Co.	22
Vitachrome Inc.	25
Baane Mini Imports	32
Euro+ Shopping Channel	259
Danish Wholesale Imports	36
Rovelli Gifts	48
Land of Toys Inc.	49
Cruz & Sons Co.	26
Motor Mint Distributors Inc.	23
AV Stores, Co.	51
Mini Wheels Co.	21
Volvo Model Replicas, Co	19
Mini Gifts Distributors Ltd.	180
La Corne D'abondance, Co.	23
Classic Legends Inc.	20
Royale Belge	8
Dragon Souveniers, Ltd.	43
Enaco Distributors	23
Salzburg Collectables	40

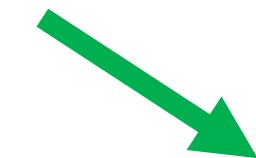
ข้อมูลรายชื่อ customer  
และการนับจำนวนเคยวางของข้อมูล

# 3.1 Group By

หากต้องการข้อมูลว่า customer ใดมีการสั่งสินค้าจำนวนชิ้นมากที่สุด ทำอย่างไร



customerName



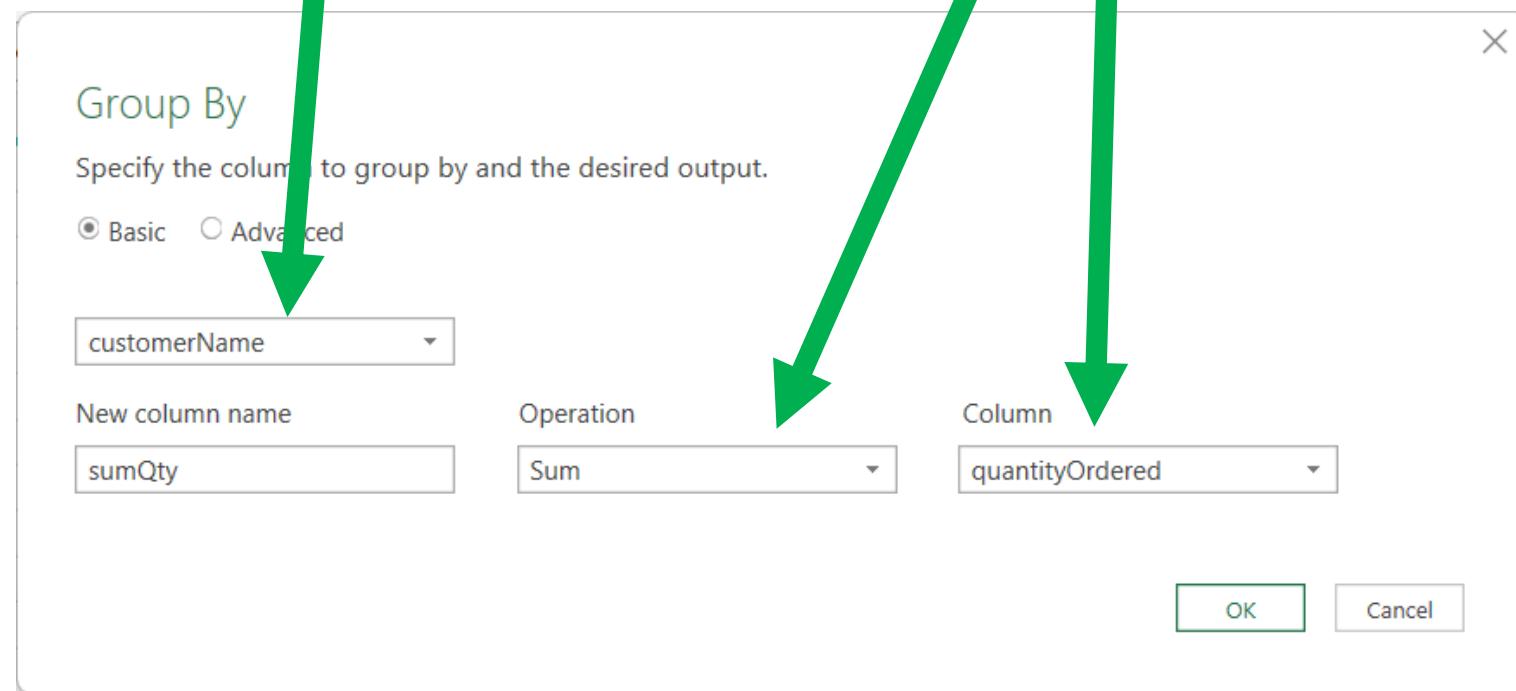
quantityOrdered

A	B	C	D	E	F	G
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.

# 3.1 Group By

หากต้องการข้อมูลว่า customer ใดมีการสั่งสินค้าจำนวนชิ้นมากที่สุด ทำอย่างไร

A	B	C	D	E	F	G
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.
4	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.



# 3.1 Group By

orderdetails\_2 - Power Query Editor

File Home Transform Add Column View

Close & Load Refresh Preview Advanced Editor Properties Manage Choose Columns Remove Columns Keep Rows Remove Rows Split Column Group By Replace Values Data Type: Decimal Number Use First Row as Headers Merge Queries Append Queries Combine Files Manage Parameters Data source settings New Source Recent Sources Enter Data Close Query

Queries [1]

orderdetails\_2

= Table.Group(Source, {"customerName"}, {"sumQty", each List.Sum([quantityOrdered]), type number})

	customerName	sumQty
1	Online Diecast Creations Co.	1248
2	Blauer See Auto, Co.	811
3	Vitachrome Inc.	787
4	Baane Mini Imports	1082
5	Euro+ Shopping Channel	9327
6	Danish Wholesale Imports	1315
7	Rovelli Gifts	1650
8	Land of Toys Inc.	1631
9	Cruz & Sons Co.	961
10	Motor Mint Distributors Inc.	730
11	AV Stores, Co.	1778
12	Mini Wheels Co.	692
13	Volvo Model Replicas, Co	647
14	Mini Gifts Distributors Ltd.	6366
15	La Corne D'abondance, Co.	836
16	Classic Legends Inc.	720
17	Royale Belge	278
18	Dragon Souveniers, Ltd.	1524
19	Enaco Distributors	882
20	Salzburg Collectables	1442

Query Settings

PROPERTIES

Name: orderdetails\_2

All Properties

APPLIED STEPS

Source: Grouped Rows

# 3.1 Group By

ให้หัวว่า order ครั้งใดมียอดการสั่งซื้อร่วมจำนวนซึ่นมากที่สุด

# 3.1 Group By

ให้หัวว่า product ได้มียอดการสั่งซื้อร่วมเป็นจำนวนชิ้นมากที่สุด

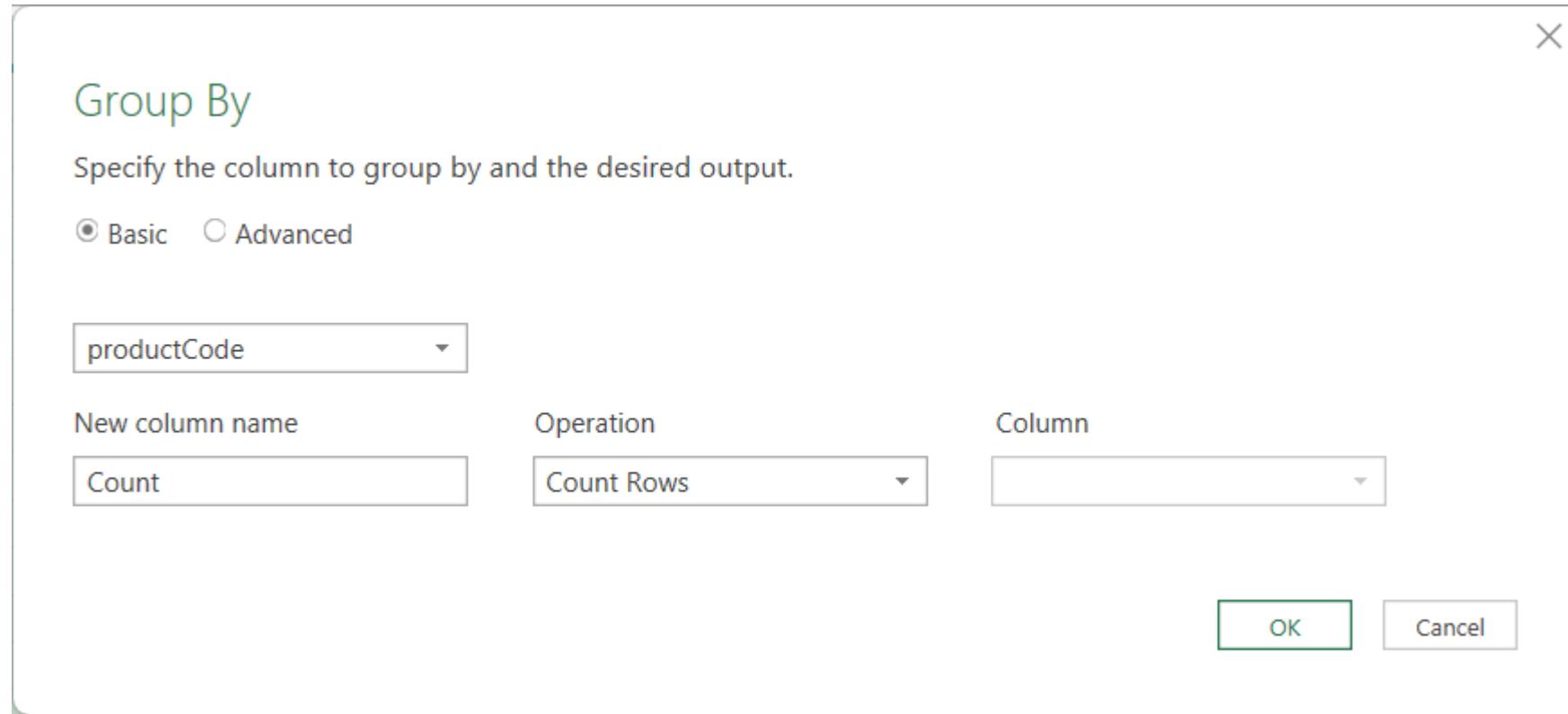
# 3.2 Merge Queries

สร้าง Queries สองอัน

1

The screenshot shows the Microsoft Power Query Editor interface. At the top, there's a ribbon with tabs like File, Home, Transform, Add Column, View, and various tools for managing data. Below the ribbon, the 'Queries [2]' pane shows two entries: 'order1' (selected) and 'order2'. The main area displays two tables of data. The first table, 'order1', has columns for ID (e.g., 10178), Name (e.g., S700\_4002), and Type (e.g., AMERICAN AIRLINES, MD-11). The second table, 'order2', has columns for ID (e.g., 10178), Name (e.g., S72\_1253), and Type (e.g., Boeing X-32A JSF). On the right side, the 'Query Settings' pane is open, showing the 'Properties' section with 'Name' set to 'order1' and the 'Applied Steps' section which includes a step labeled 'Changed Type'. The bottom status bar indicates '6 COLUMNS, 8991 ROWS - Column profiling based on top 1000 rows'.

## 3.2 Merge Queries



2 Query ແກນໃໝ່ Group productCode

# 3.2 Merge Queries

order1 - Power Query Editor

File Home Transform Add Column View

Close & Load Refresh Preview Advanced Editor

Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Whole Number Use First Row as Headers

Merge Queries Append Queries Combine Files Manage Parameters Data source settings New Source Recent Sources Enter Data

Queries [2]

order1

order2

= Table.Group(#"Changed Type", {"productCode"}, {"Count", each Table.RowCount(\_), Int64.Type})

	A <sup>B</sup> C productCode	1 <sup>2</sup> 3 Count
1	S18_3856	28
2	S700_3505	27
3	S700_4002	28
4	S72_1253	28
5	S18_1662	28
6	S18_3232	53
7	S18_3029	28
8	S18_1984	27
9	S700_3962	27
10	S700_2047	28
11	S24_2841	28
12	S72_3212	27
13	S700_1938	27
14	S24_3949	28
15	S24_3420	28
16	S18_1129	27
17	S10_4757	28
18	S700_2466	28
19	S700_2610	27
20	S24_3816	28

2 COLUMNS, 109 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 12:27 PM

Query Settings

PROPERTIES

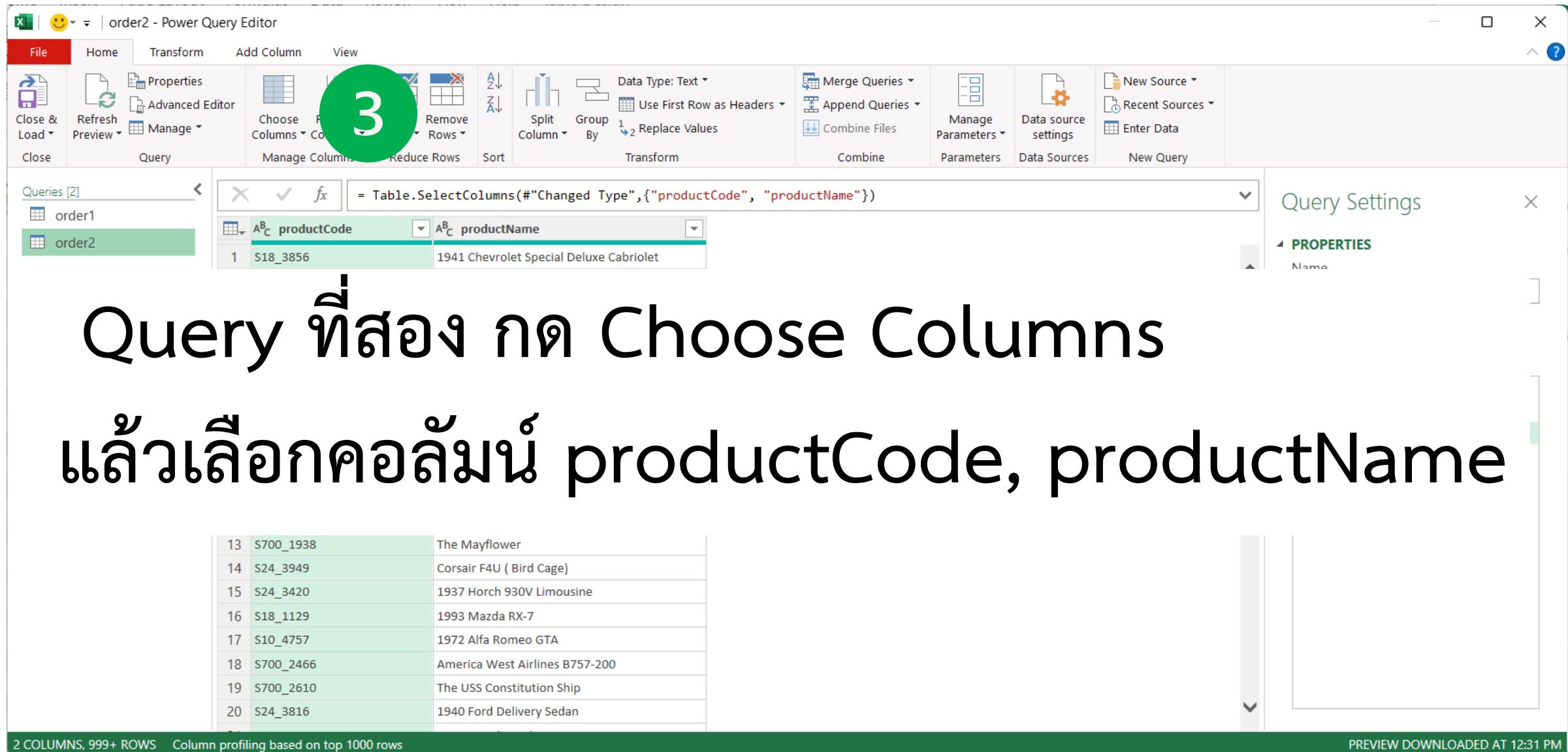
Name: order1

All Properties

APPLIED STEPS

Source  
Changed Type  
Grouped Rows

# 3.2 Merge Queries



The screenshot shows the Microsoft Power Query Editor interface. A large green circle with the number '3' is overlaid on the 'Home' tab ribbon, highlighting the 'Transform' section where the 'Choose Columns' tool is located. The 'Queries [2]' pane on the left lists 'order1' and 'order2'. The main preview area shows a table with two columns: 'productCode' and 'productName'. The formula bar displays the query: `= Table.SelectColumns(#"Changed Type", {"productCode", "productName"})`. The preview table contains one row with values 'S18\_3856' and '1941 Chevrolet Special Deluxe Cabriolet'. The 'Properties' pane on the right shows the 'Name' field for 'order2'. At the bottom, it says '2 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows' and 'PREVIEW DOWNLOADED AT 12:31 PM'.

Query ที่สอง กด Choose Columns  
แล้วเลือกคอลัมน์ productCode, productName

13	S700_1938	The Mayflower
14	S24_3949	Corsair F4U (Bird Cage)
15	S24_3420	1937 Horch 930V Limousine
16	S18_1129	1993 Mazda RX-7
17	S10_4757	1972 Alfa Romeo GTA
18	S700_2466	America West Airlines B757-200
19	S700_2610	The USS Constitution Ship
20	S24_3816	1940 Ford Delivery Sedan

2 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows PREVIEW DOWNLOADED AT 12:31 PM

# 3.2 Merge Queries

The screenshot shows two instances of the Microsoft Power Query Editor side-by-side, illustrating the process of merging queries.

**Left Window (order1 - Power Query Editor):**

- Queries [2]:** Contains two queries: `order1` and `order2`.
- Query `order1`:** A table with columns `productCode` and `Count`. The data shows various product codes with their respective counts, such as S18\_3856 (28), S700\_3505 (27), S700\_4002 (28), S72\_1253 (28), S18\_1662 (28), S18\_3232 (53), S18\_3029 (28), S18\_1984 (27), S700\_3962 (27), S700\_2047 (28), S24\_2841 (28), S72\_3212 (27), S700\_1938 (27), S24\_3949 (28), S24\_3420 (28), S18\_1129 (27), S10\_4757 (28), S700\_2466 (28), S700\_2610 (27), and S24\_3816 (28).
- Query `order2`:** A table with columns `productCode` and `productName`. The data lists various products with their names, such as 1941 Chevrolet Special Deluxe Cabriolet, The Titanic, American Airlines: MD-11S, Boeing X-32A JSF, 1980s Black Hawk Helicopter, 1992 Ferrari 360 Spider red, 1999 Yamaha Speed Boat, 1995 Honda Civic, The Queen Mary, HMS Bounty, 1900s Vintage Bi-Plane, Pont Yacht, The Mayflower, Corsair F4U (Bird Cage), 1937 Horch 930V Limousine, 1993 Mazda RX-7, 1972 Alfa Romeo GTA, America West Airlines B757-200, The USS Constitution Ship, and 1940 Ford Delivery Sedan.

**Bottom Status Bar:** 2 COLUMNS, 109 ROWS | Column profiling based on top 1000 rows

**Right Window (order2 - Power Query Editor):**

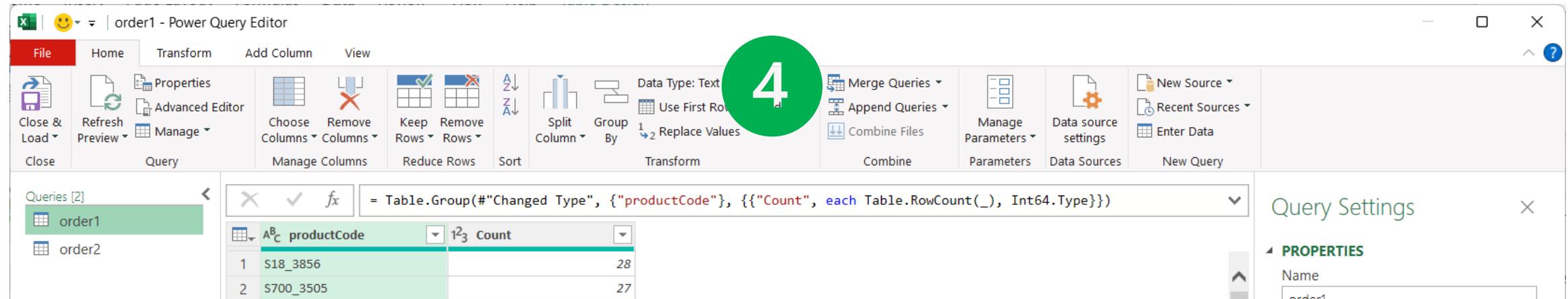
- Queries [2]:** Contains two queries: `order1` and `order2`.
- Query `order1`:** A table with columns `productCode` and `Count`, identical to the one in the left window.
- Query `order2`:** A table with columns `productCode` and `productName`, identical to the one in the left window.

**Bottom Status Bar:** 2 COLUMNS, 999+ ROWS | Column profiling based on top 1000 rows

**Power BI Context:**

- Properties Panel:** Shows the current query is `order2`.
- Applied Changes Panel:** Shows changes made to the query, including a column removal step.

## 3 . 2 Merge Queries



# เลือก Merge Queries -> Merge Queries as New

		Grouped Rows
9	S700_3962	27
10	S700_2047	28
11	S24_2841	28
12	S72_3212	27
13	S700_1938	27
14	S24_3949	28
15	S24_3420	28
16	S18_1129	27
17	S10_4757	28
18	S700_2466	28
19	S700_2610	27
20	S24_3816	28

# 3.2 Merge Queries

Merge

Select tables and matching columns to create a merged table.

order1

productCode	Count
S18_3856	28
S700_3505	27
S700_4002	28
S72_1253	28
S18_1662	28

order2

productCode	productName
S18_3856	1941 Chevrolet Special Deluxe Cabriolet
S700_3505	The Titanic
S700_4002	American Airlines: MD-11S
S72_1253	Boeing X-32A JSF
S18_1662	1980s Black Hawk Helicopter

Join Kind

Left Outer (all from first, matching from second)

Use fuzzy matching to perform the merge

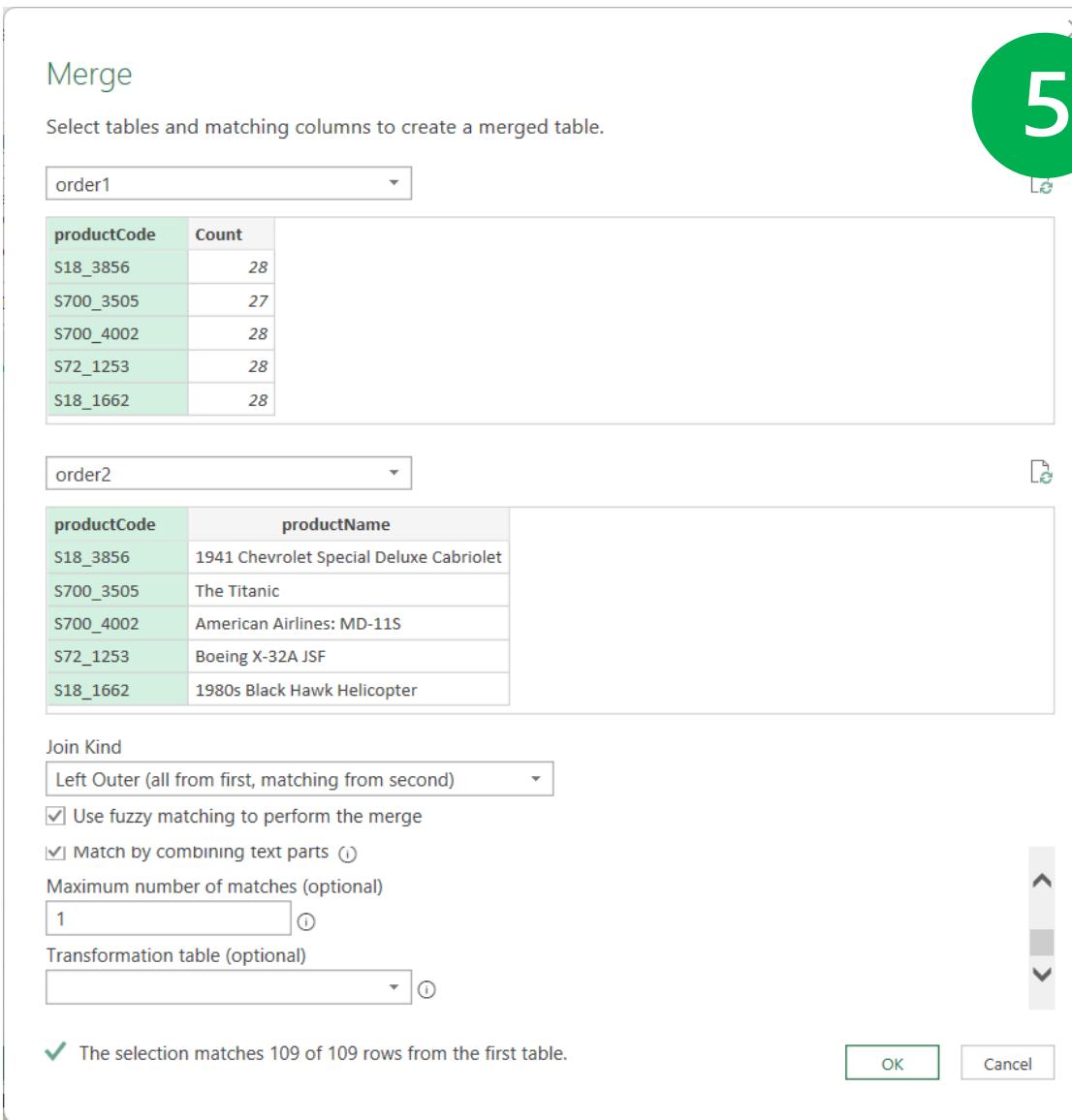
Match by combining text parts ⓘ

Maximum number of matches (optional)  
1 ⓘ

Transformation table (optional)

OK Cancel

The selection matches 109 of 109 rows from the first table.



- 5 - เลือก Merge จากทั้งสอง Queries  
- กดเลือก colum นี้ productCode  
จากทั้งสอง Queries  
- ปรับค่า Maximum เป็น 1

# 3.2 Merge Queries

Merge1 - Power Query Editor

File Home Transform Add Column View

Close & Load Refresh Preview Advanced Editor

Properties

Choose Columns Remove Columns Keep Rows Remove Rows Sort Split Column Group By Data Type: Text Use First Row as Headers

Append Queries Combine Files Manage Parameters Data source settings New Source Recent Sources Enter Data

Manage Columns Reduce Rows Transform

Queries [3]

- order1
- order2
- Merge1

= Table.FuzzyNestedJoin(order1, {"productCode"}, order2, {"productCode"}, "order2", JoinKind.LeftOuter,

	A <sup>B</sup> C productCode	1 <sup>2</sup> 3 Count	order2
1	S18_3856		28 Table
2	S700_3505		27 Table
3	S700_4002		28 Table
4	S72_1253		28 Table
5	S18_1662		28 Table
6	S18_3232		53 Table
7	S18_3029		28 Table
8	S18_1984		27 Table
9	S700_3962		27 Table
10	S700_2047		28 Table
11	S24_2841		28 Table
12	S72_3212		27 Table
13	S700_1938		27 Table
14	S24_3949		28 Table
15	S24_3420		28 Table
16	S18_1129		27 Table
17	S10_4757		28 Table
18	S700_2466		28 Table
19	S700_2610		27 Table
20	S24_3816		28 Table

Query Settings

PROPERTIES

Name: Merge1

All Properties

APPLIED STEPS

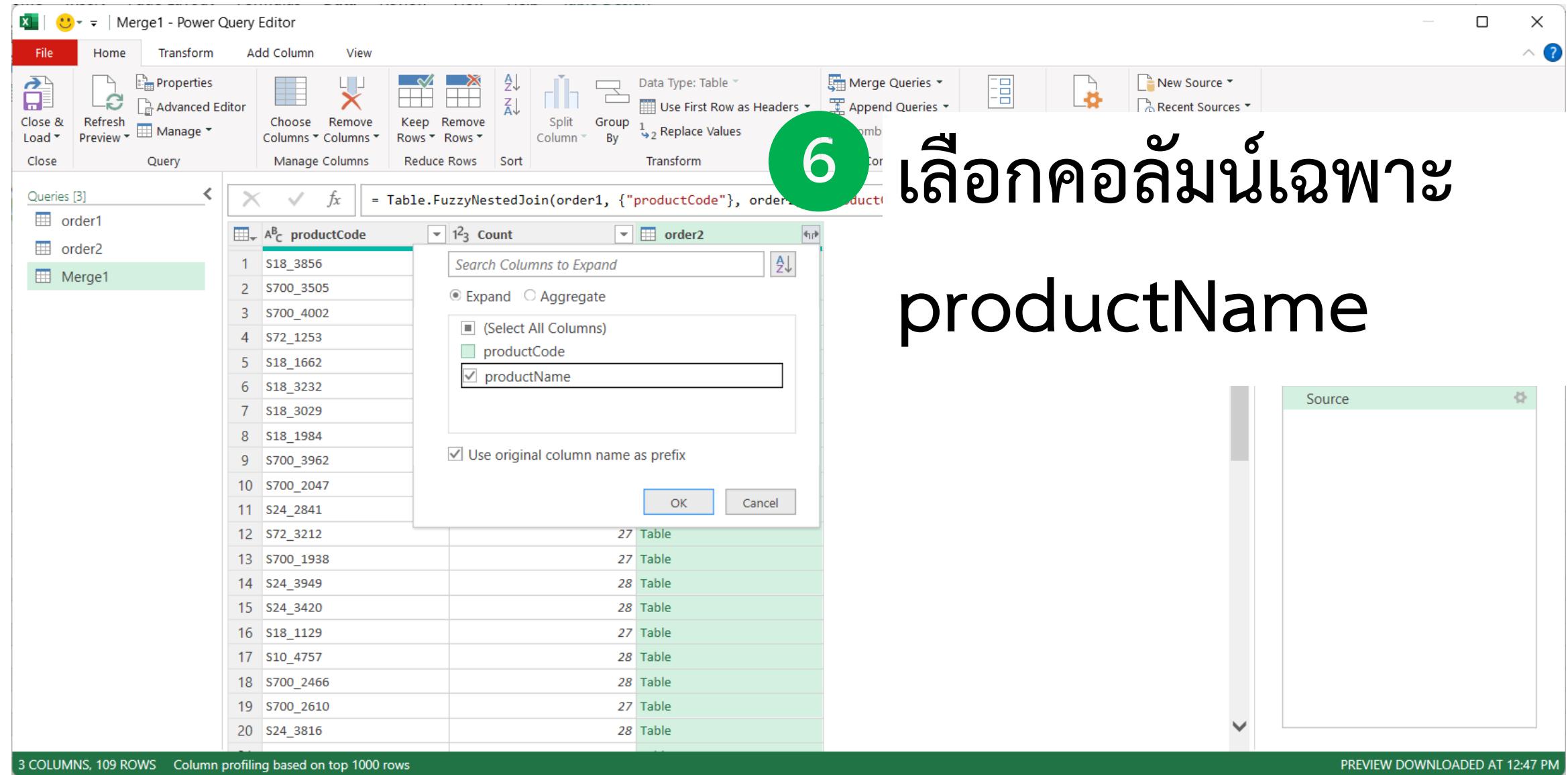
Source

3 COLUMNS, 109 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 12:47 PM

# 3.2 Merge Queries

6 เลือก colum ที่จะ  
 productName



The screenshot shows the Microsoft Power Query Editor interface. In the top-left corner, there's a green circular icon with the number '6'. The main area displays a 'Merge1 - Power Query Editor' window. On the left, the 'Queries [3]' pane lists 'order1', 'order2', and 'Merge1' (which is highlighted). The main workspace shows two tables: 'productCode' (20 rows) and 'order2' (28 rows). A 'Merge Queries' dialog box is open over the tables, with 'Count' selected and 'Expand' chosen. Under 'Select All Columns', 'productCode' is checked, and under 'Aggregate', 'productName' is checked. A checkbox for 'Use original column name as prefix' is checked. At the bottom of the dialog are 'OK' and 'Cancel' buttons. The status bar at the bottom of the editor window indicates '3 COLUMNS, 109 ROWS' and 'Column profiling based on top 1000 rows'.

# 3.2 Merge Queries

Merge1 - Power Query Editor

File Home Transform Add Column View

Close & Load Refresh Preview Advanced Editor

Properties

Choose Columns Remove Columns Keep Rows Remove Rows Sort

A Z A Z A Z Data Type: Text Use First Row as Headers

Merge Queries Append Queries Combine Files

Manage Parameters Data source settings New Source Recent Sources Enter Data

Queries [3]

- order1
- order2
- Merge1

= Table.ExpandTableColumn(Source, "order2", {"productName"}, {"order2.productName"})

	productCode	Count	productName
1	S18_3856	28	1941 Chevrolet Special Deluxe Cabriolet
2	S700_3505	27	The Titanic
3	S700_4002	28	American Airlines: MD-11S
4	S72_1253	28	Boeing X-32A JSF
5	S18_1662	28	1980s Black Hawk Helicopter
6	S18_3232	53	1992 Ferrari 360 Spider red
7	S18_3029	28	1999 Yamaha Speed Boat
8	S18_1984	27	1995 Honda Civic
9	S700_3962	27	The Queen Mary
10	S700_2047	28	HMS Bounty
11	S24_2841	28	1900s Vintage Bi-Plane
12	S72_3212	27	Pont Yacht
13	S700_1938	27	The Mayflower
14	S24_3949	28	Corsair F4U (Bird Cage)
15	S24_3420	28	1937 Horch 930V Limousine
16	S18_1129	27	1993 Mazda RX-7
17	S10_4757	28	1972 Alfa Romeo GTA
18	S700_2466	28	America West Airlines B757-200
19	S700_2610	27	The USS Constitution Ship
20	S24_3816	28	1940 Ford Delivery Sedan

Query Settings

PROPERTIES

Name: Merge1

All Properties

APPLIED STEPS

Source

Expanded order2

3 COLUMNS, 109 ROWS Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 12:49 PM

## 3.2 Merge Queries

ให้หัวว่า product ได้มีการสั่งซื้อร่วมเป็นจำนวนมากที่สุด

# 4 . Data Manipulation

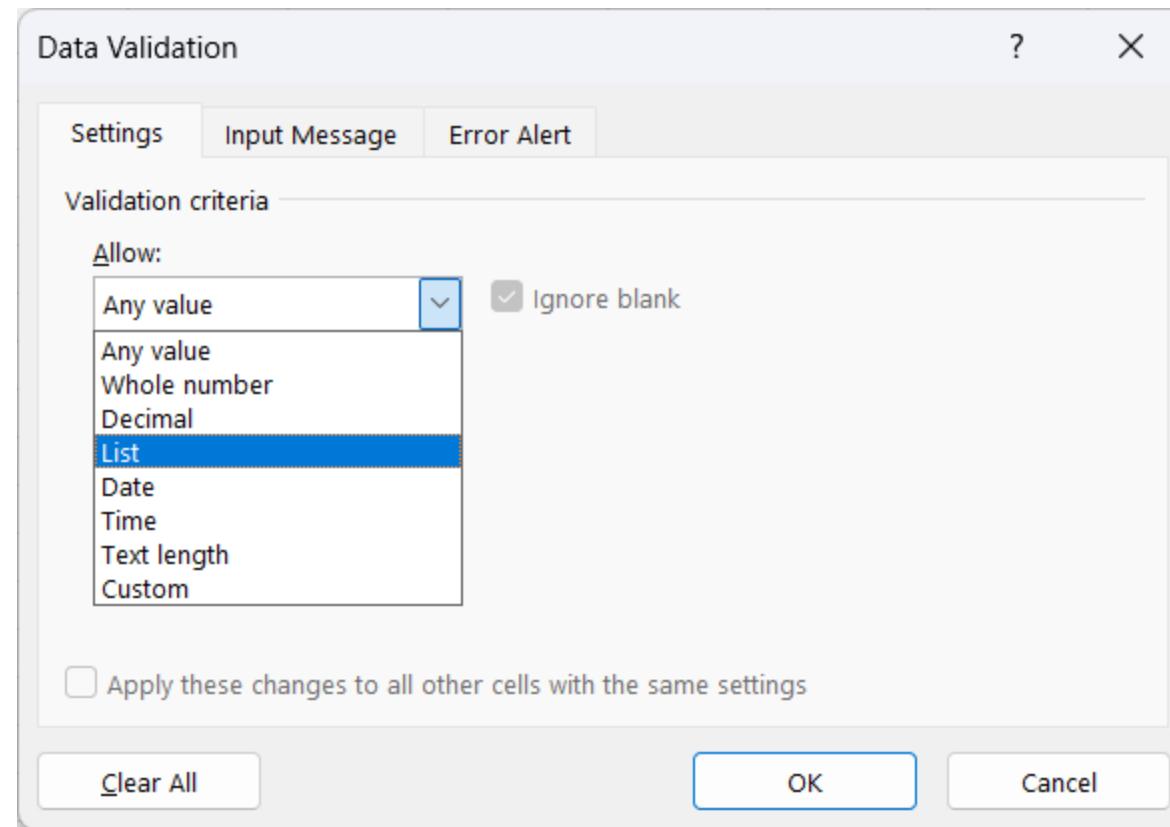
# 4.1 Drop Down List

The screenshot shows the Microsoft Excel ribbon with the 'Data' tab selected. Under the 'Data' tab, the 'Get & Transform Data' group is visible, containing options like 'From Text/CSV', 'From Picture', 'Queries & Connections', and 'Text to Columns'. The 'Sort & Filter' group contains 'Sort', 'Filter', and 'Advanced' buttons. A context menu is open over cell A2, listing 'Data Validation...', 'Circle Invalid Data', and 'Clear Validation Circles'. The Excel interface includes a formula bar with cell reference A2, and a table in the worksheet with columns labeled 'customerName', '#Order', 'Total', 'Average', 'Max', and 'Min'. Row 1 contains the column headers, and row 2 contains data.

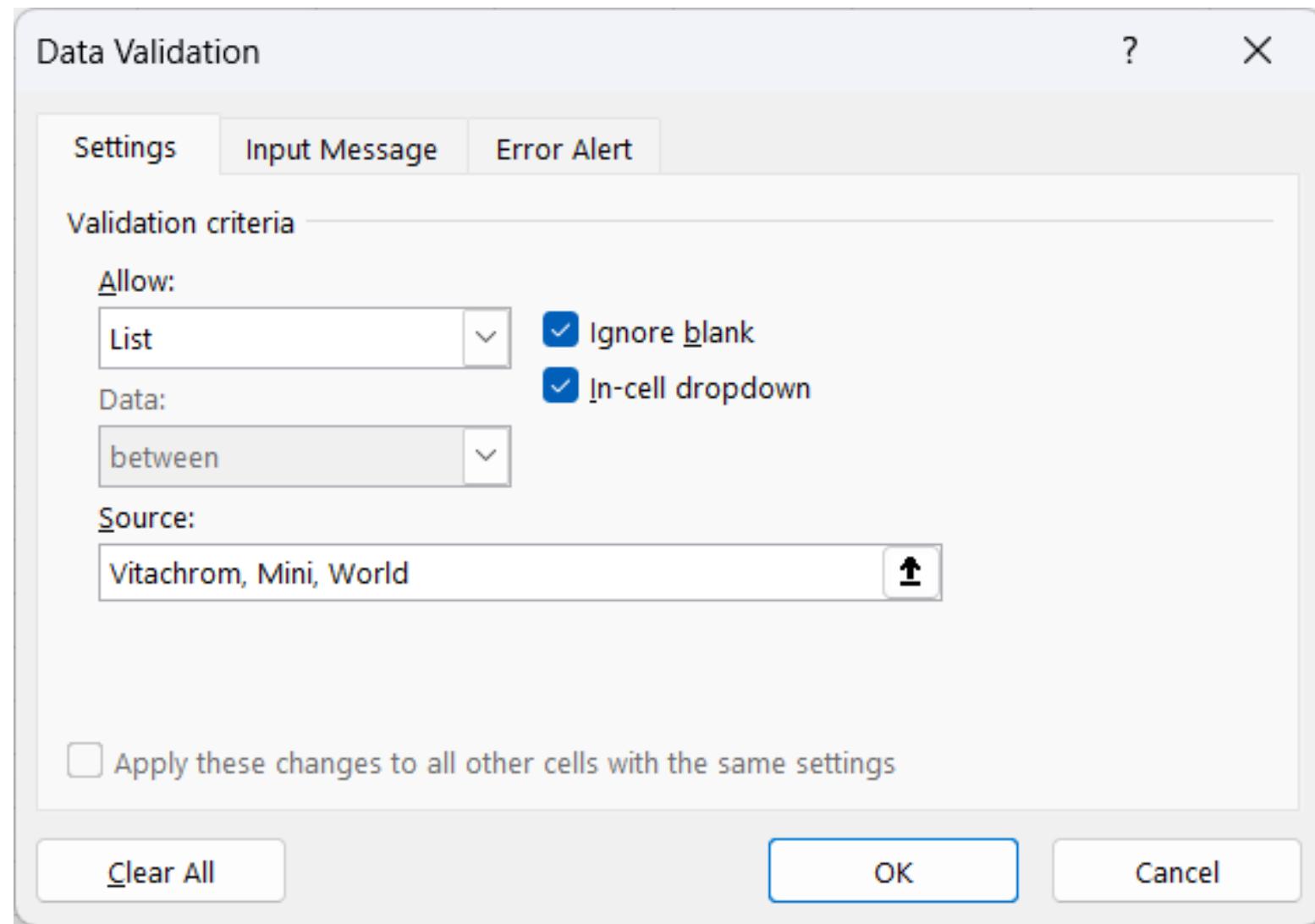
1. สร้าง worksheet ใหม่ซื้อ report
2. กรอกข้อมูลดังภาพ

3. เลือก Data -> Data Validation...

# 4.1 Drop Down List



# 4.1 Drop Down List



# 4.1 Drop Down List

The screenshot shows a Microsoft Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	customerName		#Order	Total	Average	Max	Min												
2																			
3	Vitachrom																		
4	Mini																		
5	World																		
6																			
7																			
8																			
9																			
10																			
11																			
12																			

A purple arrow points from the text "จะปรากฏ Drop Down List ให้เลือก" to the cell containing "Vitachrom". The cell "A2" is selected.

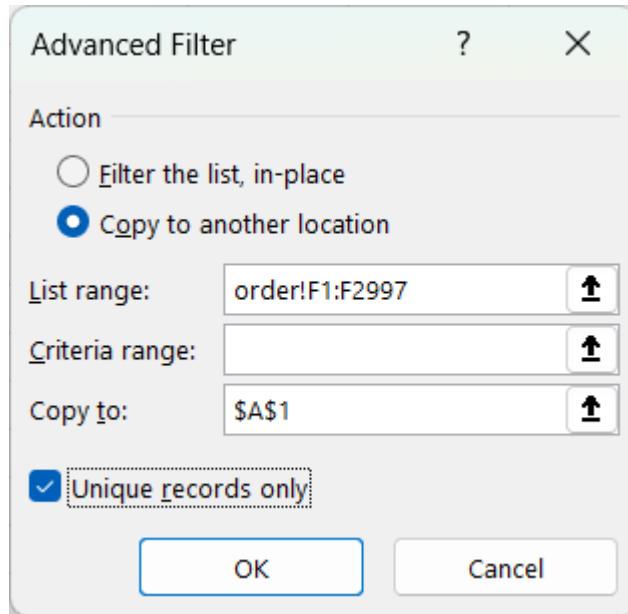
จะปรากฏ Drop Down List ให้เลือก

# 4.1 Drop Down List

	A	B	C	D	E	F	G	H	I	J	K	L
1	=UNIQUE(order!F2:F2997)											
2	Blauer See Auto, Co.											
3	Vitachrome Inc.											
4	Baane Mini Imports											
5	Euro+ Shopping Channel											
6	Danish Wholesale Imports											
7	Rovelli Gifts											
8	Land of Toys Inc.											
9	Cruz & Sons Co.											
10	Motor Mint Distributors Inc.											
11	AV Stores, Co.											
12	Mini Wheels Co.											
13	Volvo Model Replicas, Co											
14	Mini Gifts Distributors Ltd.											
15	La Corne D'abondance, Co.											
16	Classic Legends Inc.											
17	Royale Belge											
18	Dragon Souveniers, Ltd.											
19	Enaco Distributors											
20	Salzburg Collectables											
21	Australian Collectors, Co.											
22	Reims Collectables											
23	Marseille Mini Autos											
24	Atelier graphique											
25	Signal Gift Stores											
26	Corrida Auto Replicas, Ltd											
27	Muscle Machine Inc											
28	Stink Peas, Inc.											

- สร้าง worksheet ใหม่ชื่อ data
- กรอกสูตร  
 $=UNIQUE(order!F2:F2997)$
- จะได้ชื่อลูกค้าที่ไม่ซ้ำ

# 4.1 Drop Down List

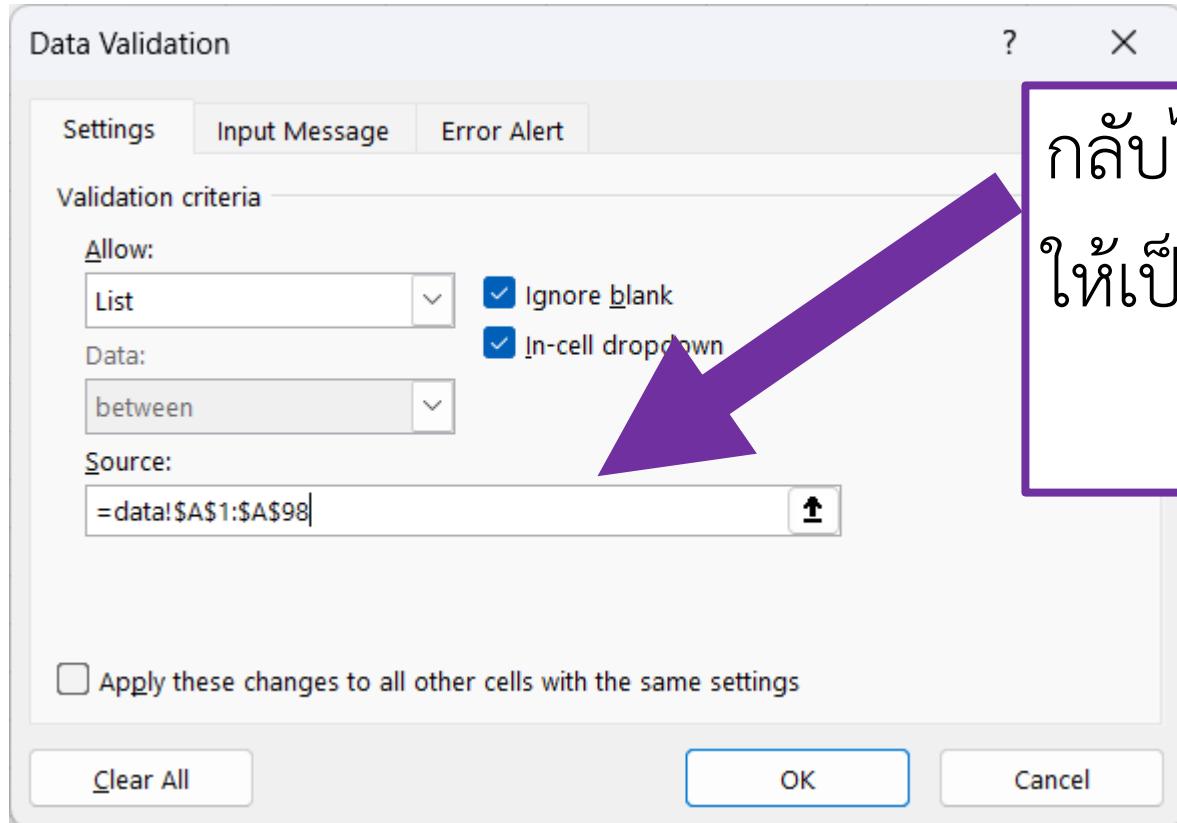


กรณีที่ไม่มี unique ให้ใช้ filter

Filter -> Advanced

แล้วเลือก Unique records only

# 4.1 Drop Down List



กลับไปเปลี่ยน source ใน Data Validation  
ให้เป็นข้อมูลชื่อลูกค้าที่ไม่ซ้ำกัน  
=data!\$A\$1:\$A\$98

# 4.1 Drop Down List

A	B	C	D	E	F	G	H	I	J	K
1	customerName		#Order	Total	Average	Max	Min			
2										
3	Online Diecast Creations Co.									
4	Blauer See Auto, Co.									
5	Vitachrome Inc.									
6	Baane Mini Imports									
7	Euro+ Shopping Channel									
8	Danish Wholesale Imports									
9	Rovelli Gifts									
10	Land of Toys Inc.									
11	Cruz & Sons Co.									
12	Motor Mint Distributors Inc.									
13	AV Stores, Co.									
14										
15										
16										
17										
18										
19										
20										

ข้อมูลชื่อลูกค้าทั้งหมดที่ไม่ซ้ำ

# 4.1 Drop Down List

ให้สร้างฟังก์ชันเพื่อแสดงผลตาม customerName

#Order      จำนวนครั้งที่สั่งซื้อ  
Total        ยอดรวมทั้งหมดที่สั่งซื้อ

	A	B	C	D	E	F	G	H
1	customerName		#Order	Total	Average	Max	Min	
2	Toys of Finland, Co.	▼	30	95546.46	3184.882	5832.96	869.04	
3								
4								
5								

# 4.1 Drop Down List

ให้ปรับปรุงสูตรใน worksheet: data เพื่อให้รายชื่อลูกค้าเรียงลำดับตามตัวอักษร

	A	B	C	D	E	F	G	H
1	customerName		#Order	Total	Average	Max	Min	
2	Toys of Finland, Co.	▼		30	95546.46	3184.882	5832.96	869.04
3	Alpha Cognac							
4	Amica Models & Co.							
5	Anna's Decorations, Ltd							
6	Atelier graphique							
7	Australian Collectables, Ltd							
8	Australian Collectors, Co.							
9	Australian Gift Network, Co							
10	Auto Associés & Cie.							
11	Auto Canal+ Petit							
12	Auto-Moto Classics Inc.							
13	AV Stores, Co.							
14	Baane Mini Imports							
15								
16								

# 4.2 VLOOKUP

A	B	C	D	E	F	G	H	I
1	customerName	#Order	Total	Average	Max	Min		
2	Toys of Finland, Co.		30	95546.46	3184.882	5832.96	869.04	
3								
4								
5	productCode	productName	priceEach					
6								
7	S10_1678							
8	S10_1949							
9	S10_2016							
10	S10_4698							
11	S10_4757							
12	S10_4962							
13	S12_1099							
14	S12_1108							
15	S12_1666							
16	S12_2823							
17	S12_3148							
18	S12_3380							
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								

- สร้าง Drop Down List แสดงรหัส productCode ที่ไม่ซ้ำและเรียงลำดับจากน้อยไปมาก
- กรอก productName และ priceEach เพื่อใช้แสดงข้อมูลตาม productCode

## 4 . 2 VLOOKUP

C6 : =VLOOKUP(A6,order!B2:G2997,2, FALSE)

=VLOOKUP(A6,order!B2:G2997,2, FALSE)

productCode      productName      priceEach

S18\_1749      1917 Grand Touring Sedan      30

A	B	C	D	E	F	G	
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total
1	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080
2	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12
3	10100	S18_2248	1911 Ford Town Car	50	55.09	Online Diecast Creations Co.	2754.5
4	10100	S24_3969	1936 Mercedes Benz 500k Roadster	49	35.29	Online Diecast Creations Co.	1729.21
5	10101	S18_2795	1928 Mercedes-Benz SSK	26	167.06	Blauer See Auto, Co.	4343.56
6	10101	S18_2325	1932 Model A Ford J-Coupe	25	108.06	Blauer See Auto, Co.	2701.5
7	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1
8	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85
9							

## 4 . 2 VLOOKUP

ให้ใส่สูตรเพื่อหาค่า priceEach ตามข้อมูล productCode

# 4 . 3 Baht to Text

	SUM									
1	A	B	C	D	E	F	G	H	I	J
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total			
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080			=BAHTTEXT(G2)
3	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12			
4	10100	S18_2248	1911 Ford Town Car							
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster							
6	10101	S18_2795	1928 Mercedes-Benz SSK							
7	10101	S18_2325	1932 Model A Ford J-Coupe							
8	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1			
9	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85			
10	10237	S24_1578	1997 BMW R 1100 S	20	109.32	Vitachrome Inc.	2186.4			
11	10237	S50_4713	2002 Yamaha YZR M1	20	78.92	Vitachrome Inc.	1578.4			
12	10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports	5571.8			
13	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports	3284.28			
14	10103	S10_4962	1962 Lancia A Delta 16V	42	119.67	Baane Mini Imports	5026.14			
15	10103	S24_2300	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports	3864.24			
16	10103	S18_4600	1940s Ford truck	36	98.07	Baane Mini Imports	3530.52			
17	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports	3307.5			
18	10103	S700_2824	1982 Camaro Z28	42	94.07	Baane Mini Imports	3950.94			
19	10103	S32_1268	1980's GM Manhattan Express	31	92.46	Baane Mini Imports	2866.26			
20	10103	S18_2949	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports	2489.13			
21	10103	S24_4258	1936 Chrysler Airflow	25	88.62	Baane Mini Imports	2215.5			
22	10103	S18_3136	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports	2173			

-BAHTTEXT(G2)

# 4.3 Baht to Text

A	B	C	D	E	F	G	H	I	J
1	orderNumber	productCode	productName	quantityOrdered	priceEach	customerName	total		
2	10100	S18_1749	1917 Grand Touring Sedan	30	136	Online Diecast Creations Co.	4080		สี่พันแปดสิบบาทถ้วน
3	10100	S18_4409	1932 Alfa Romeo 8C2300 Spider Sport	22	75.46	Online Diecast Creations Co.	1660.12		
4	10100	S18_2248	1911 Ford Town Car						
5	10100	S24_3969	1936 Mercedes Benz 500k Roadster						
6	10101	S18_2795	1928 Mercedes-Benz SSK						
7	10101	S18_2325	1932 Model A Ford J-Coupe						
8	10101	S24_2022	1938 Cadillac V-16 Presidential Limousine	46	44.35	Blauer See Auto, Co.	2040.1		
9	10101	S24_1937	1939 Chevrolet Deluxe Coupe	45	32.53	Blauer See Auto, Co.	1463.85		
10	10237	S24_1578	1997 BMW R 1100 S	20	109.32	Vitachrome Inc.	2186.4		
11	10237	S50_4713	2002 Yamaha YZR M1	20	78.92	Vitachrome Inc.	1578.4		
12	10103	S10_1949	1952 Alpine Renault 1300	26	214.3	Baane Mini Imports	5571.8		
13	10103	S12_1666	1958 Setra Bus	27	121.64	Baane Mini Imports	3284.28		
14	10103	S10_4962	1962 Lancia Delta 16V	42	119.67	Baane Mini Imports	5026.14		
15	10103	S24_2300	1962 Volkswagen Microbus	36	107.34	Baane Mini Imports	3864.24		
16	10103	S18_4600	1940s Ford truck	36	98.07	Baane Mini Imports	3530.52		
17	10103	S18_1097	1940 Ford Pickup Truck	35	94.5	Baane Mini Imports	3307.5		
18	10103	S700_2824	1982 Camaro Z28	42	94.07	Baane Mini Imports	3950.94		
19	10103	S32_1268	1980's GM Manhattan Express	31	92.46	Baane Mini Imports	2866.26		
20	10103	S18_2949	1913 Ford Model T Speedster	27	92.19	Baane Mini Imports	2489.13		
21	10103	S24_4258	1936 Chrysler Airflow	25	88.62	Baane Mini Imports	2215.5		
22	10103	S18_3136	18th Century Vintage Horse Carriage	25	86.92	Baane Mini Imports	2173		

=BAHTTEXT(G2)

# 4 . 3 Baht to Text

The screenshot shows a Microsoft Edge browser window with the title "Convert numbers into words - Microsoft Support". The URL in the address bar is [support.microsoft.com/en-us/office/convert-numbers-into-words-0c9325ff-102f-4e73-8d5b-2ec61e9238fa](https://support.microsoft.com/en-us/office/convert-numbers-into-words-0c9325ff-102f-4e73-8d5b-2ec61e9238fa). The page content is titled "Convert numbers into words" and discusses how to use the SpellNumber function in VBA to convert dollar amounts to text. A purple callout box highlights the text: "ฟังก์ชันแปลงตัวเลขเป็นค่าเงินในภาษาอื่นไม่มี ต้องปรับปรุงจากโค้ดที่ Microsoft แนะนำ".

Convert numbers into words

Excel for Microsoft 365, Excel 2021, Excel 2019, Excel 2016, [More...](#)

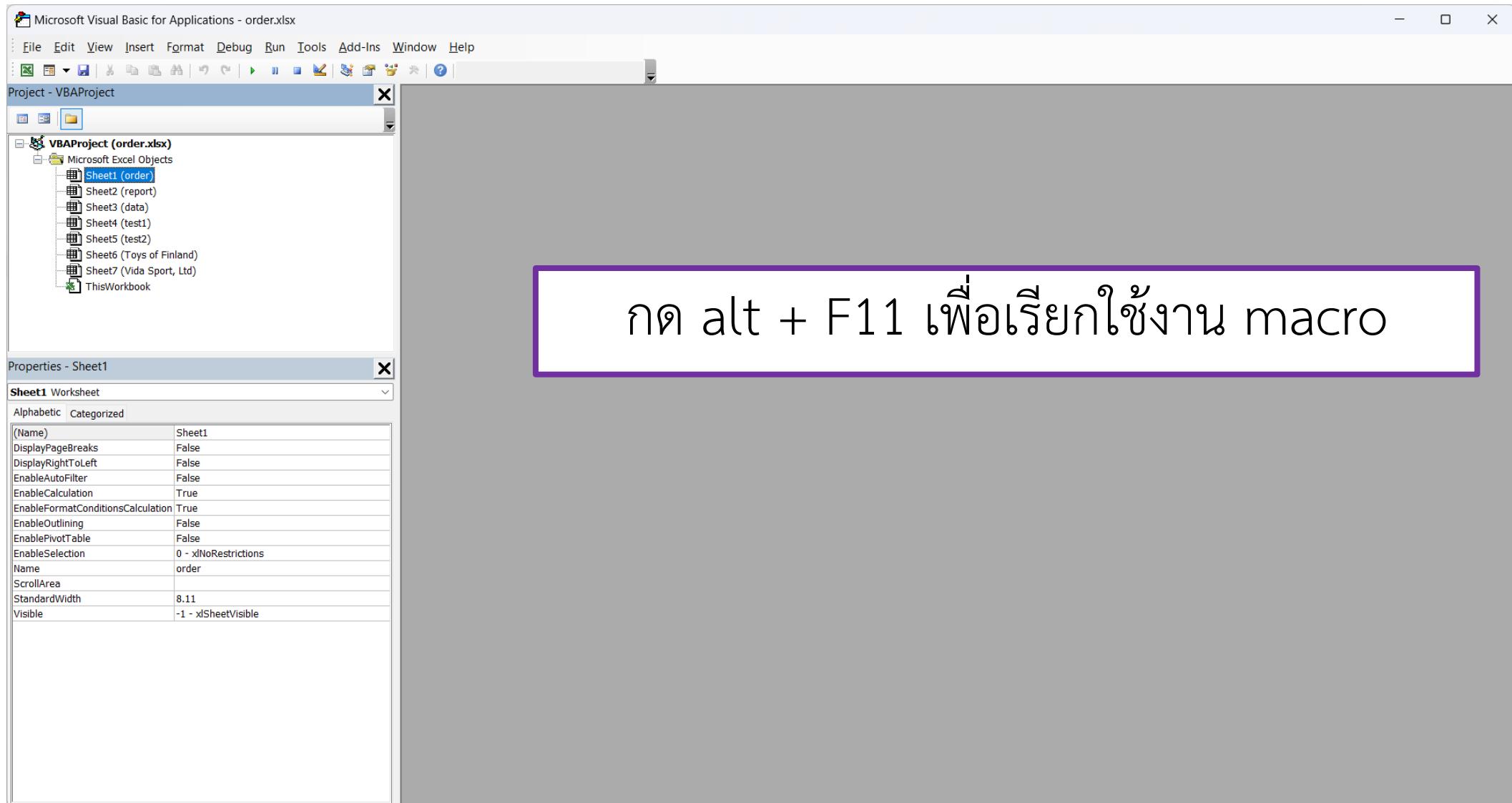
We're giving you a free trial of Microsoft 365

Unlock now >

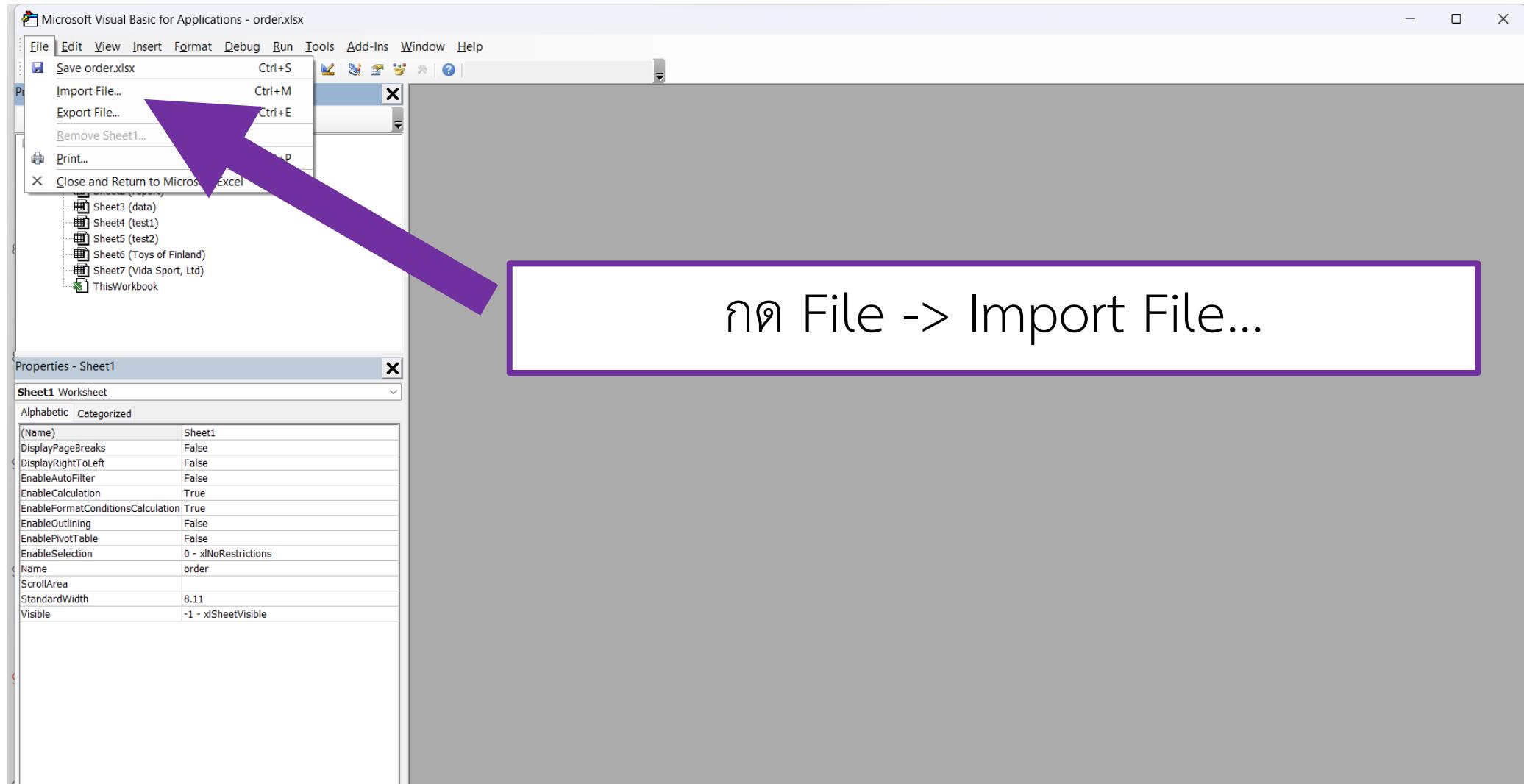
Excel doesn't have a default function that displays numbers as English words in a worksheet, but you can add this capability by pasting the following SpellNumber function code into a VBA (Visual Basic for Applications) module. This function lets you convert dollar and cent amounts to words with a formula, so 22.50 would read as Twenty-Two Dollars and Fifty Cents. This can be very useful if you're using Excel as a template to print checks.

If you want to convert numeric values to text format without displaying them as words, use the [TEXT function](#) instead.

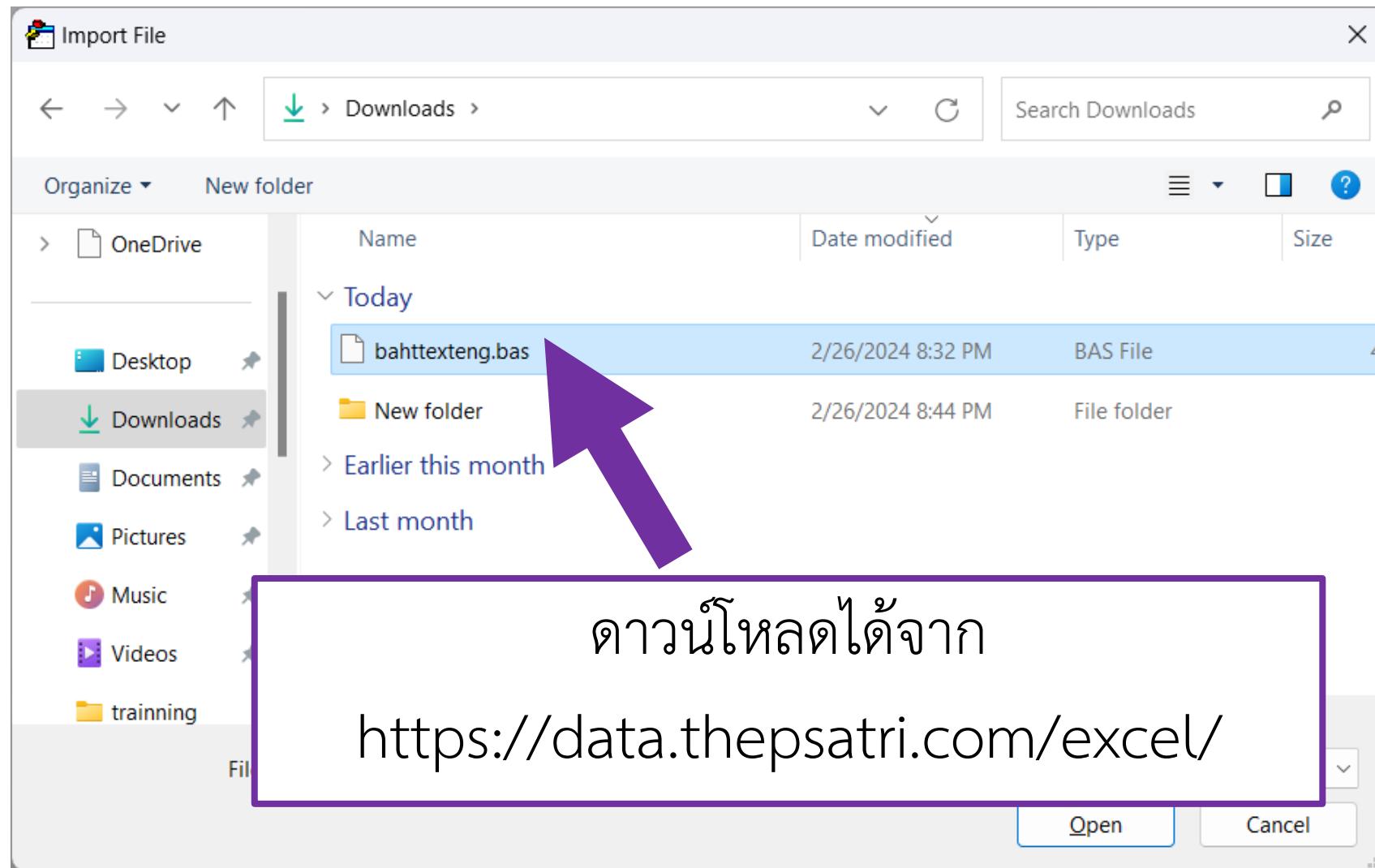
# 4 . 3 Baht to Text



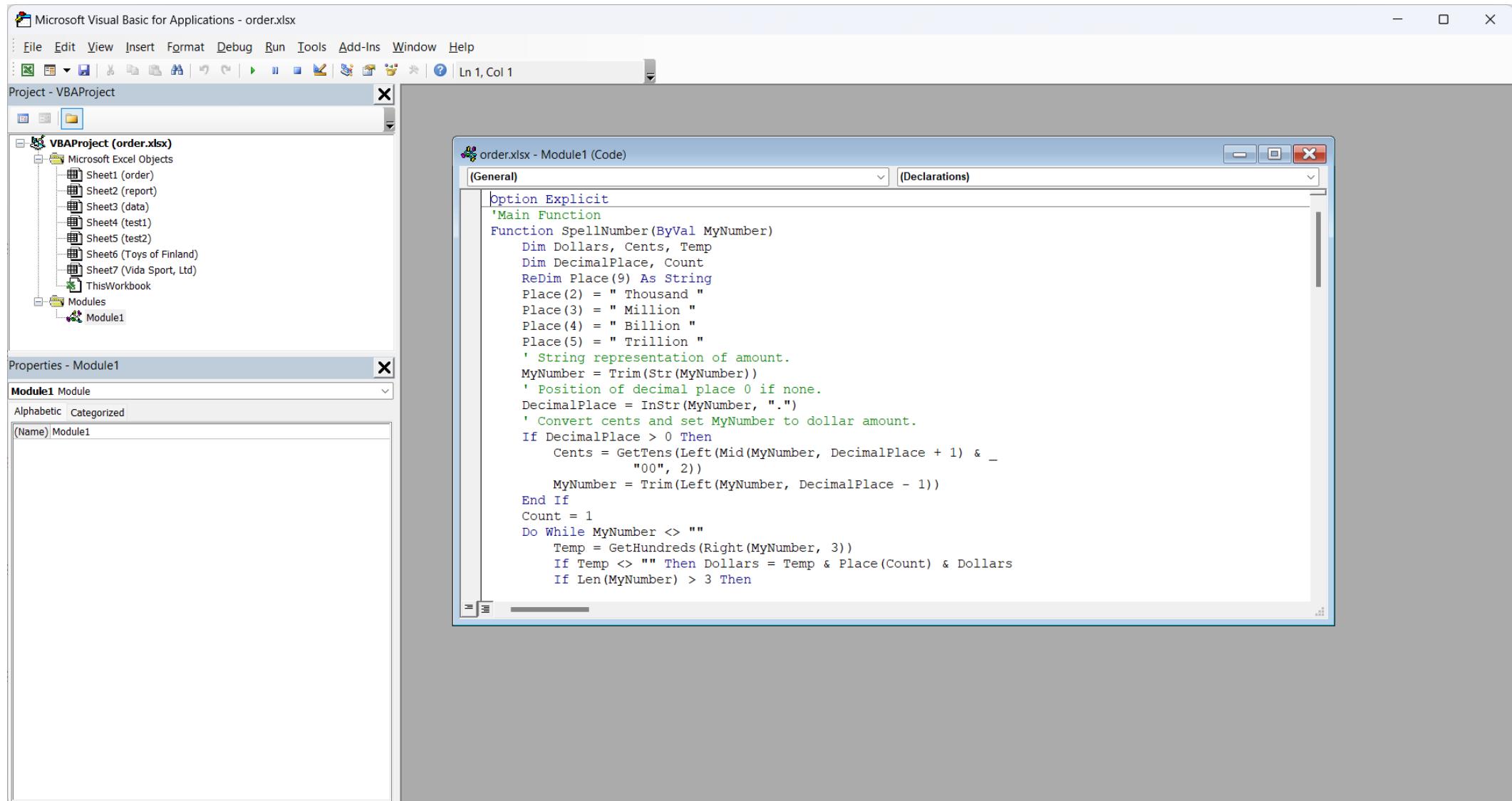
# 4 . 3 Baht to Text



# 4.3 Baht to Text



# 4 . 3 Baht to Text



# 4 . 3 Baht to Text

	F	G	H	I	J	K	L
1	customerName	total					
2	Online Diecast Creations Co.	4080		สี่พันแปดสิบบาทถ้วน	=SpellNumber(G2)		
3	Online Diecast Creations Co.	1660.12		หนึ่งพันหกร้อยหกสิบบาทสิบสองสตางค์			
4	Online Diecast Creations Co.	2754.5		สองพันเจ็ดร้อยห้าสิบสี่บาทห้าสิบสตางค์			
5	Online Diecast Creations Co.	1729.21		หนึ่งพันเจ็ดร้อยยี่สิบเก้าบาทยี่สิบเอ็ดสตางค์			
6	Blauer See Auto, Co.	4343.56		สี่พันสามร้อยสี่สิบสามบาทห้าสิบหกสตางค์			
7	Blauer See Auto, Co.	2701.5		สองพันเจ็ดร้อยสองบาทห้าสิบสตางค์			
8	Blauer See Auto, Co.	2040.1		สองพันสี่สิบบาทสิบสตางค์			
9	Blauer See Auto, Co.	1463.85		หนึ่งพันสี่ร้อยหกบาทยี่สิบห้าสตางค์			
10	Vitachrome Inc.	2186.4		สองพันหนึ่งร้อยแปดบาทสี่สตางค์			
11	Vitachrome Inc.	1578.4		หนึ่งพันห้าร้อย七八บาทสี่สตางค์			
12	Baane Mini Imports	5571.8		ห้าพันห้าร้อยเจ็ดสิบเอ็ดบาทแปดสิบสตางค์			
13	Baane Mini Imports	3284.28		สามพันสองร้อยแปดสิบสี่บาทยี่สิบแปดสตางค์			
14	Baane Mini Imports	5026.14		ห้าพันยี่สิบหกบาทสิบสี่สตางค์			
15	Baane Mini Imports	3864.24		สามพันแปดร้อยหกสิบสี่บาทยี่สิบสี่สตางค์			
16	Baane Mini Imports	3530.52		สามพันห้าร้อยสามสิบบาทห้าสิบสองสตางค์			

=SpellNumber(G2)

# 4 . 3 Baht to Text

	F	G	H	I	J	K
1	customerName	total				
2	Online Diecast Creations Co.	4080		สี่พันแปดสิบบาทถ้วน	Four Thousand Eighty Bahts and No Stang	
3	Online Diecast Creations Co.	1660.12		หนึ่งพันหกร้อยหกสิบบาทสิบสองสตางค์		
4	Online Diecast Creations Co.	2754.5		สองพันเจ็ดร้อยห้าสิบสี่บาทห้าสิบสตางค์		
5	Online Diecast Creations Co.	1729.21		หนึ่งพันเจ็ดร้อยยี่สิบเก้าบาทยี่สิบเอ็ดสตางค์		
6	Blauer See Auto, Co.	4343.56		สี่พันสามร้อยสี่สิบสามบาทห้าสิบหกสตางค์		
7	Blauer See Auto, Co.	2701.5		สองพันเจ็ดร้อยเอ็ดบาทห้าสิบสตางค์		
8	Blauer See Auto, Co.	2040.1		สองพันสี่สิบบาทสิบสตางค์		
9	Blauer See Auto, Co.	1463.85		หนึ่งพันสี่ร้อยหกบาทสิบห้าสตางค์		
10	Vitachrome Inc.	2186.4		สองพันหนึ่งร้อย восемьบาทสี่สตางค์		
11	Vitachrome Inc.	1578.4		หนึ่งพันห้าร้อย восемьบาทสี่สตางค์		
12	Baane Mini Imports	5571.8		ห้าพันห้าร้อยเจ็ดบาทสิบหกสตางค์		
13	Baane Mini Imports	3284.28		สามพันสองร้อยแปดสิบสี่บาทยี่สิบแปดสตางค์		
14	Baane Mini Imports	5026.14		ห้าพันยี่สิบหกบาทสิบสี่สตางค์		
15	Baane Mini Imports	3864.24		สามพันแปดร้อยหกสิบสี่บาทยี่สิบสี่สตางค์		

=SpellNumber(G2)

# 4 . 3 Baht to Text

	F	G	H	I	J
1	customerName	total			
2	Online Diecast Creations Co.	4080		สี่พันแปดสิบบาทถ้วน	Four Thousand Eighty Bahts and No Stang
3	Online Diecast Creations Co.	1660.12		หนึ่งพันหกร้อยหกสิบบาทสิบสองสตางค์	One Thousand Six Hundred Sixty Bahts and Twelve Stangs
4	Online Diecast Creations Co.	2754.5		สองพันเจ็ดร้อยห้าสิบล้วงสตางค์	Two Thousand Seven Hundred Fifty Four Bahts and Fifty Stangs
5	Online Diecast Creations Co.	1729.21		หนึ่งพันเจ็ดร้อยยี่สิบเก้าบาทยี่สิบเอ็ดสตางค์	One Thousand Seven Hundred Twenty Nine Bahts and Twenty One Stangs
6	Blauer See Auto, Co.	4343.56		สี่พันสามร้อยสี่สิบสามบาทห้าสิบหกสตางค์	Four Thousand Three Hundred Forty Three Bahts and Fifty Six Stangs
7	Blauer See Auto, Co.	2701.5		สองพันเจ็ดร้อยเอ็ดบาทห้าสิบสตางค์	Two Thousand Seven Hundred One Bahts and Fifty Stangs
8	Blauer See Auto, Co.	2040.1		สองพันสี่สิบบาทสิบสตางค์	Two Thousand Forty Bahts and Ten Stangs
9	Blauer See Auto, Co.	1463.85		หนึ่งพันสี่ร้อยหกสิบสามบาทแปดสิบห้าสตางค์	One Thousand Four Hundred Sixty Three Bahts and Eighty Five Stangs
10	Vitachrome Inc.	2186.4		สองพันหนึ่งร้อยแปดสิบหกบาทสี่สิบสตางค์	Two Thousand One Hundred Eighty Six Bahts and Forty Stangs
11	Vitachrome Inc.	1578.4		หนึ่งพันห้าร้อยเจ็ดสิบแปดบาทสี่สิบสตางค์	One Thousand Five Hundred Seventy Eight Bahts and Forty Stangs
12	Baane Mini Imports	5571.8		ห้าพันห้าร้อยเจ็ดสิบเอ็ดบาทแปดสิบหกสตางค์	Five Thousand Five Hundred Seventy One Bahts and Eighty Stangs
13	Baane Mini Imports	3284.28		สามพันสองร้อยแปดสิบล้วงสตางค์	Three Thousand Two Hundred Eighty Four Bahts and Twenty Eight Stangs
14	Baane Mini Imports	5026.14		ห้าพันยี่สิบหกบาทสิบสี่สตางค์	Five Thousand Twenty Six Bahts and Fourteen Stangs
15	Baane Mini Imports	3864.24		สามพันแปดร้อยหกสิบล้วงบาทยี่สิบสี่สตางค์	Three Thousand Eight Hundred Sixty Four Bahts and Twenty Four Stangs

