



**UNIVERSIDAD PRIVADA DE TACNA  
FACULTAD DE INGENIERIA  
ESCUELA PROFESIONAL DE INGENIERIA DE  
SISTEMAS**

**TITULO:**

PRACTICA DE LABORATORIO 03: CREANDO UN REPORTE  
INTERACTIVO EN POWER BI

**Curso:**

Inteligencia De Negocios

**Docente:**

Ing. Patrick Cuadros Quiroga

**Alumno:**

Herrera Amezquita, Derian Francisco

(2017059489)

Tacna - Perú

2021

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# **1. Objetivos**

A

## **2. Requerimientos**

### Conocimientos

Para el desarrollo de esta práctica se requerirá de los siguientes conocimientos básicos:

- Conocimientos básicos de administración de base de datos Microsoft SQL Server.
- Conocimientos básicos de SQL.

### Software

Asimismo se necesita los siguientes aplicativos:

- Microsoft SQL Server 2016 o superior
- Base de datos AdventureWorksLT2016 o superior
- Tener los archivos de recursos del laboratorio.
- Power BI Desktop.
- Tener una cuenta Microsoft registrada en el Portal de Power Bi

## **3. Consideraciones Iniciales**

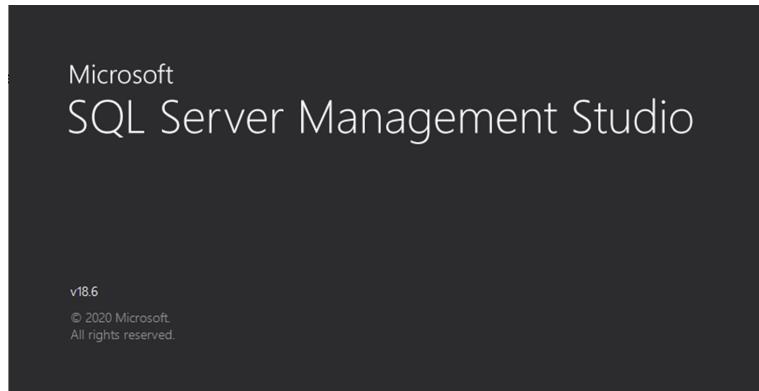
Generar una carpeta o directorio Power BI en un lugar accesible para guardar los resultados de la práctica.

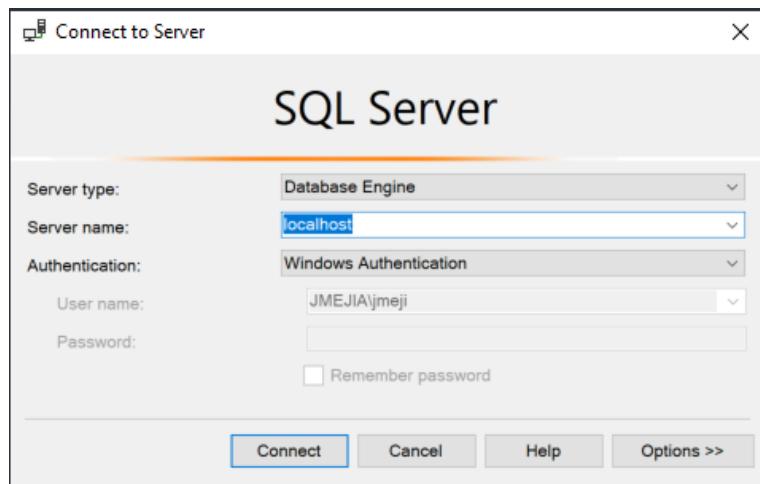
## **4. Desarrollo**

### **4.1. Ejercicio 1: Conectando a Power BI a Datos**

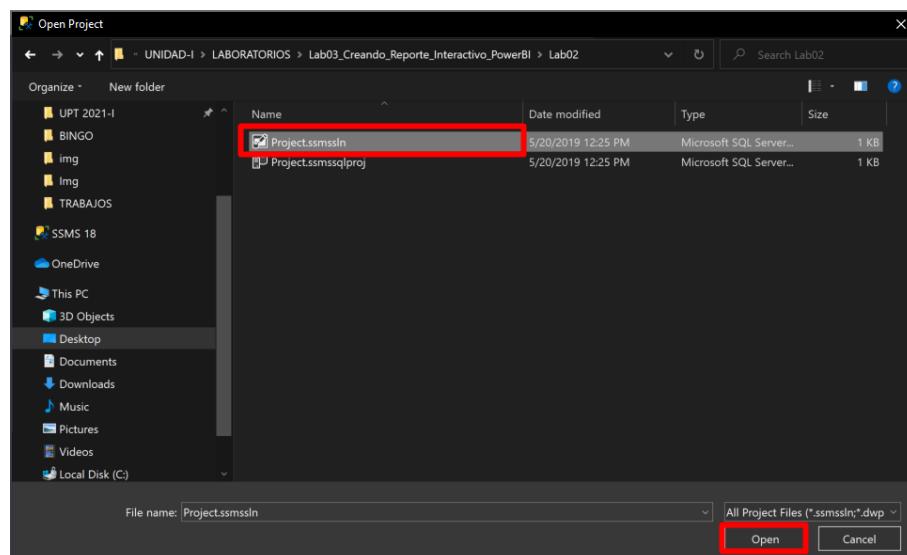
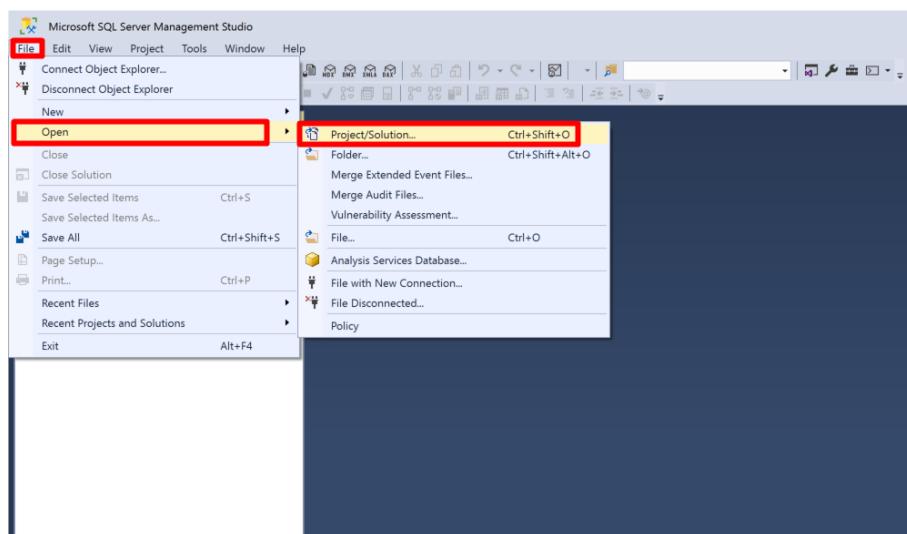
#### **Tarea 1: Conectar a Datos Existentes**

1. Abrir SQL Server Management Studio, y conectar a la instancia de base de datos (local) utilizando autenticación de Windows.

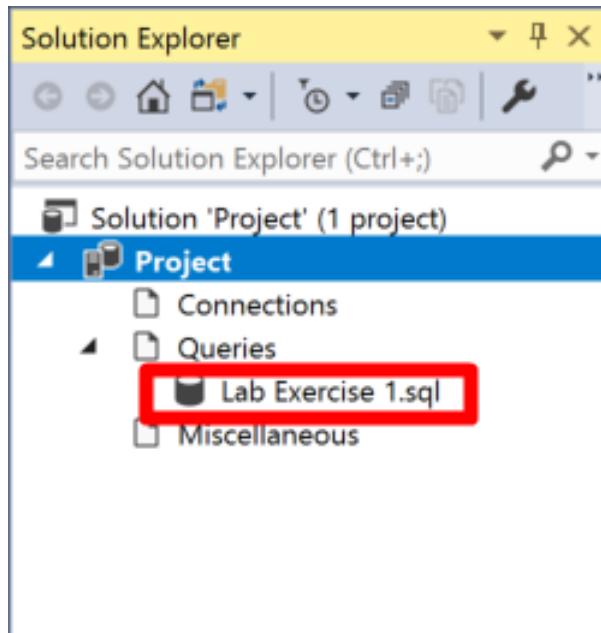




2. En el menú Archivo (File), en el submenu Abrir (Open), hacer click en Project/Solution, y buscar el archivo Project.ssmssln.



3. En el Explorador de Soluciones, expandir Consultas (Queries), y luego hacer doble click en el archivo Lab Exercise 1.sql.



Lab Exercise 1.sql ... (JMEJIA)meji (66) □ X

```

-- LAB 06
--
-- Exercise 1

-----
-- Task 1
-- Connect to AdventureworksLT Azure SQL Database from Power BI.
-- Copy and paste the following query into the Query textbox.

SELECT a.CustomerID, a.CompanyName, a.NameStyle, a.Title, a.FirstName, a.LastName, a.SalesPerson,
       c.AddressLine1, c.AddressLine2, c.City, c.StateProvince, c.CountryRegion, c.PostalCode
  FROM SalesLT.Customer AS a
 INNER JOIN SalesLT.CustomerAddress AS b ON a.CustomerID = b.CustomerID
 INNER JOIN SalesLT.Address AS c ON b.AddressID = c.AddressID
 WHERE b.AddressType = 'Mail Office'

-----
-- Task 2
-- Connect to AdventureworksLT Azure SQL Database from Power BI.
-- Copy and paste the following query into the Query textbox.

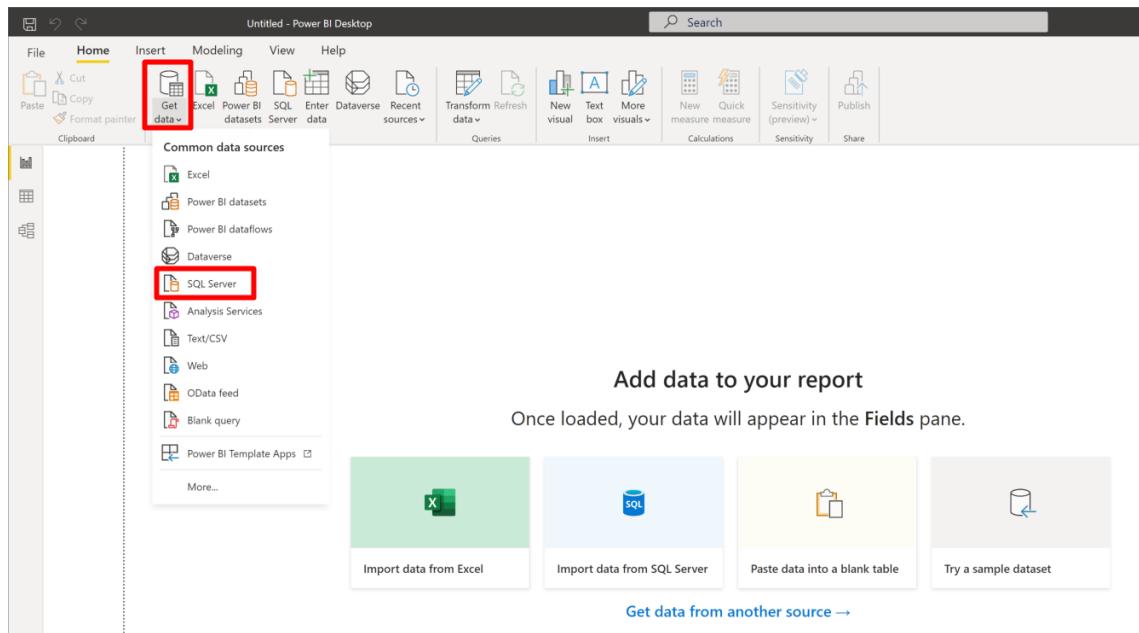
SELECT b.CustomerID, a.SalesOrderID, a.SalesOrderDetailID, b.RevisionNumber, b.SalesOrderNumber,
       a.Name AS MainCategory, d.Name AS SubCategory, c.ProductID, c.Name AS Product,
       a.OrderQty, c.ListPrice
      ,b.OrderQty, b.DueDate, b.ShipDate, b.SubTotal
  FROM SalesLT.SalesOrderDetail AS a
 INNER JOIN SalesLT.SalesOrderHeader AS b ON a.SalesOrderID = b.SalesOrderID
 INNER JOIN SalesLT.Product AS c ON a.ProductID = c.ProductID
 INNER JOIN SalesLT.ProductCategory AS d ON c.ProductCategoryID = d.ProductCategoryID
 INNER JOIN SalesLT.ProductCategory AS e ON d.ParentProductCategoryID = e.ProductCategoryID

```

4. Abrir Power BI Desktop.



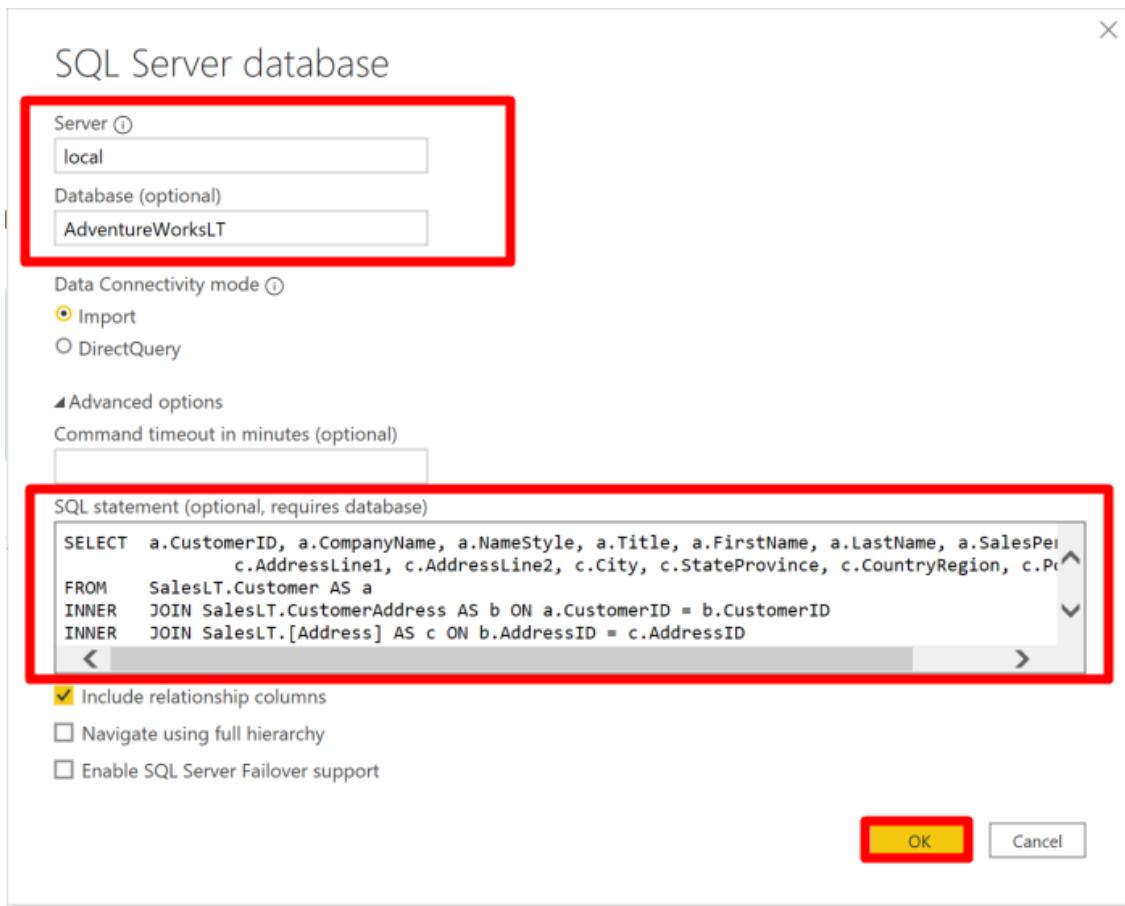
5. En la ventana Power BI Desktop, hacer click en Obtener Data (Get Data).



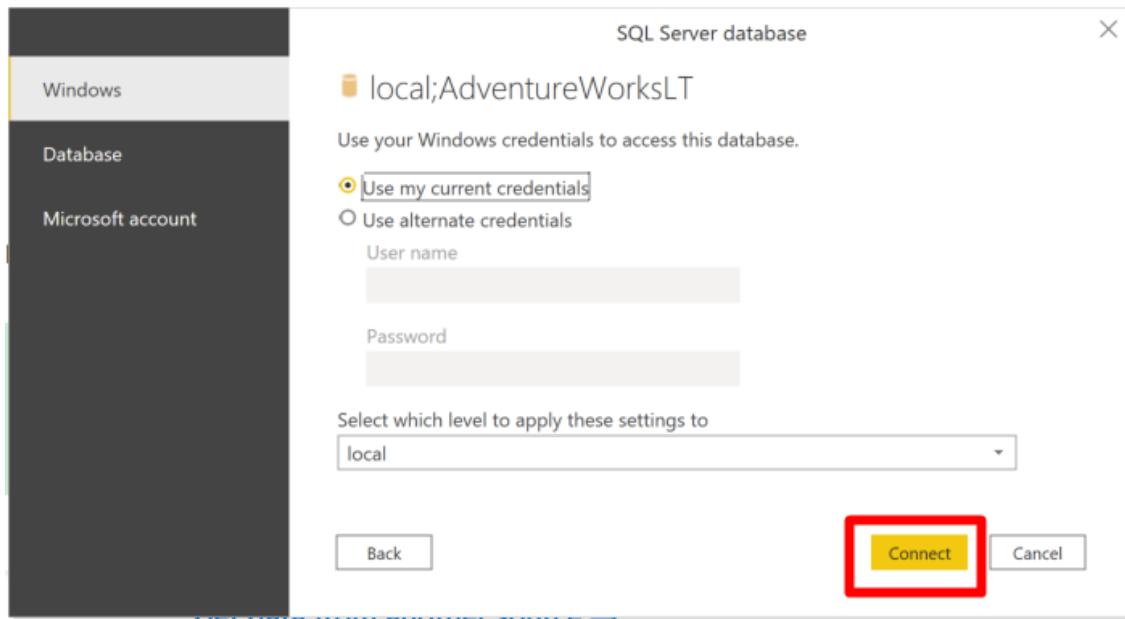
6. En el cuadro Obtener Datos, click base de datos Microsoft SQL, y entonces click en Conectar
7. En la ventana base de datos Server database, En Servidor, escribir (local).
8. En Base de Datos (opcional), tipear AdventureWorksLT.
9. Expandir el cuadro Opciones Avanzadas. Copiar el script Task 1 del archivo Lab Exercise 1.sql, y pegar la consulta en Power BI, en el cuadro sentencia SQL. Luego presionar OK.

The screenshot shows a terminal window titled 'Lab Exercise 1.sql ...r (JMEJA\jmeji (66))'. The script is organized into sections: 'LAB 06', 'Exercise 1', 'Task 1', and 'Connect to AdventureWorksLT Azure SQL Database from Power BI.' The 'Task 1' section contains a query to be pasted into the Power BI Query editor. This query is highlighted with a red box. It selects customer information from the SalesLT.Customer table and joins it with the SalesLT.CustomerAddress and SalesLT.Address tables to filter for 'Main Office' addresses.

```
SELECT a.CustomerID, a.CompanyName, a.NameStyle, a.Title, a.FirstName, a.LastName, a.SalesPerson,
       c.AddressLine1, c.AddressLine2, c.City, c.StateProvince, c.CountryRegion, c.PostalCode
  FROM SalesLT.Customer AS a
 INNER JOIN SalesLT.CustomerAddress AS b ON a.CustomerID = b.CustomerID
 INNER JOIN SalesLT.Address AS c ON b.AddressID = c.AddressID
 WHERE b.AddressType = 'Main Office'
```



10. En la ventana de vista preliminar click en Cargar.



localhost: AdventureWorksLT2016

CustomerID	CompanyName	NameStyle	Title	FirstName	LastName	SalesPerson	AddressLine1
29485	Professional Sales and Service	FALSE	Ms.	Catherine	Abel	adventure-works\linda3	57251 Serene Blvd
29486	Riders Company	FALSE	Ms.	Kim	Abercrombie	adventure-works\jillian0	Tanger Factory
29489	Area Bike Accessories	FALSE	Ms.	Frances	Adams	adventure-works\shu0	6900 Sisk Road
29490	Bicycle Accessories and Kits	FALSE	Ms.	Margaret	Smith	adventure-works\david8	Lewiston Mall
29492	Valley Bicycle Specialists	FALSE	Mr.	Jay	Adams	adventure-works\jillian0	Blue Ridge Mall
29494	Vinyl and Plastic Goods Corporation	FALSE	Mr.	Samuel	Agcaoili	adventure-works\jose1	No. 25800-130 King Street
29496	Fun Toys and Bikes	FALSE	Mr.	Robert	Ahlering	adventure-works\shu0	6500 East Grant Road
29497	Great Bikes	FALSE	Mr.	François	Frerier	adventure-works\david8	Eastridge Mall
29499	Valley Toy Store	FALSE	Ms.	Amy	Alberts	adventure-works\jose1	252851 Rowan Place
29502	Major Sport Suppliers	FALSE	Mr.	Paul	Alcorn	adventure-works\david8	White Mountain Mall
29503	Family's Favorite Bike Shop	FALSE	Mr.	Gregory	Alderson	adventure-works\garrett1	25981 College Street
29505	Imported and Domestic Cycles	FALSE	Ms.	Michelle	Alexander	adventure-works\linda3	22589 West Craig Road
29506	Systematic Sales	FALSE	Mr.	Sean	Jacobson	adventure-works\shu0	2551 East Warner Road
29508	Mountain Toy Store	FALSE	Mr.	Marvin	Allen	adventure-works\jillian0	First Colony Mall
29510	Designated Distributors	FALSE	Mr.	Cecil	Allison	adventure-works\jose1	254 Colonnade Road
29511	Bold Bike Accessories	FALSE	Mr.	Oscar	Alpuerto	adventure-works\linda3	Rocky Mountain Pines Out
29515	Serious Cycles	FALSE	Mr.	Maxwell	Amland	adventure-works\garrett1	Suite 99320 255 - 510th A
29517	Novelty Bikes	FALSE	Ms.	Ramona	Antrim	adventure-works\michael9	998 Forest Road
29521	Brightwork Company	FALSE	Mr.	Tom	Johnston	adventure-works\shu0	Belz Factory Outlet
29522	Resale Services	FALSE	Mr.	Thomas	Armstrong	adventure-works\linda3	Fox Hills

The data in the preview has been truncated due to size limits.

Load Transform Data Cancel

11. En Power BI Desktop, click Obtener Datos y luego click en Mas.

Untitled - Power BI Desktop

File Home Insert Modeling View Help

Get data

Common data sources

- Excel
- Power BI datasets
- Power BI dataflows
- Dataverse
- SQL Server
- Analysis Services
- Text/CSV
- Web
- OData feed
- Blank query
- Power BI Template Apps

More...

Build visuals with your data

Select or drag fields from the Fields pane onto the report canvas.

Fields pane icon

12. Repetir los pasos del 6 al 10, utilizando el script Task 2.



```
Lab Exercise 1.sql ... (UMEIAjmeji (66)) # × |
```

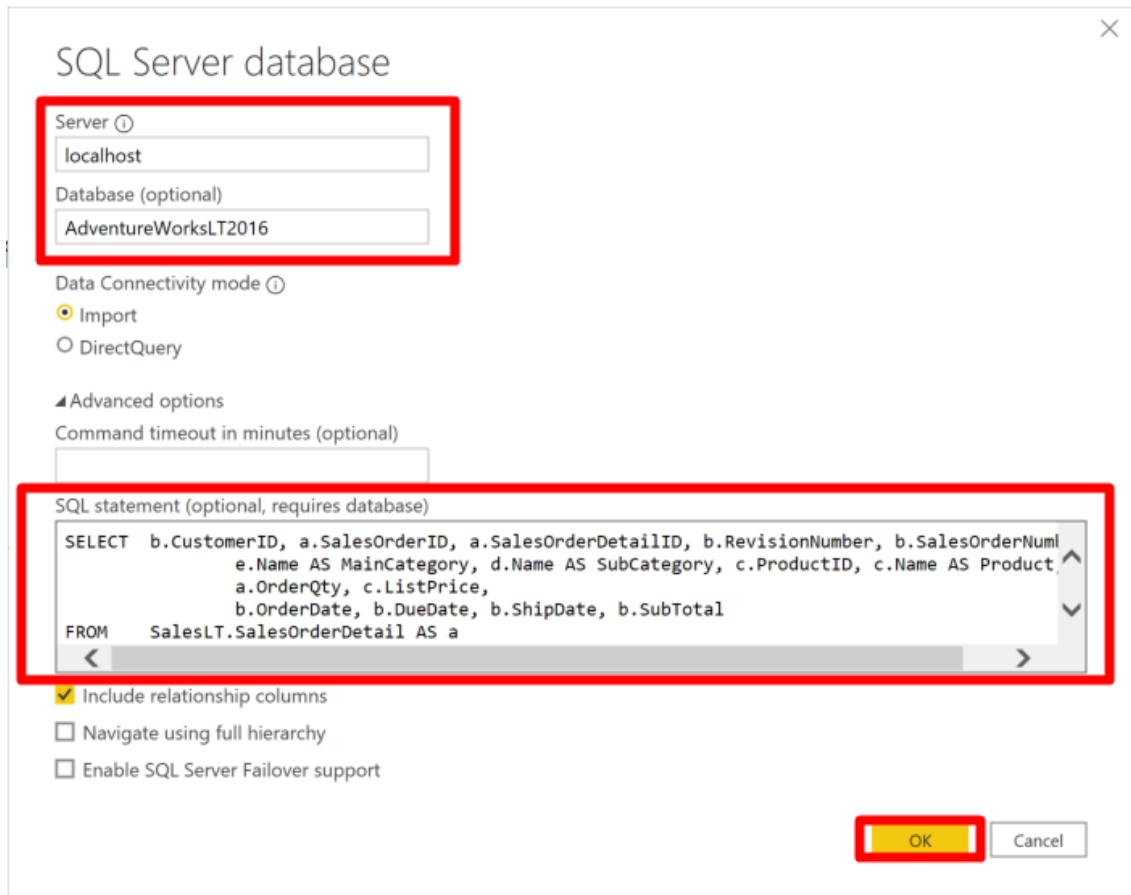
```
-- LAB 06
-- Exercise 1

-- Task 1
-- Connect to AdventureworksLT Azure SQL Database from Power BI.
-- Copy and paste the following query into the Query textbox.

SELECT a.CustomerID, a.CompanyName, a.NameStyle, a.Title, a.FirstName, a.LastName, a.SalesPerson,
FROM SalesLT.Customer AS a
INNER JOIN SalesLT.CustomerAddress AS b ON a.CustomerID = b.CustomerID
INNER JOIN SalesLT.[Address] AS c ON b.AddressID = c.AddressID
WHERE b.AddressType = 'Main Office'

-- Task 2
-- Connect to AdventureworksLT Azure SQL Database from Power BI.
-- Copy and paste the following query into the Query textbox.

SELECT b.CustomerID, a.SalesOrderID, a.SalesOrderDetailID, b.RevisionNumber, b.SalesOrderNumber,
e.Name AS MainCategory, d.Name AS SubCategory, c.ProductID, c.Name AS Product,
a.OrderQty, c.ListPrice,
b.OrderDate, b.DueDate, b.ShipDate, b.SubTotal
FROM SalesLT.SalesOrderDetail AS a
INNER JOIN SalesLT.SalesOrder AS b ON a.SalesOrderID = b.SalesOrderID
INNER JOIN SalesLT.Product AS c ON a.ProductID = c.ProductID
INNER JOIN SalesLT.ProductCategory AS d ON c.ProductCategoryID = d.ProductCategoryID
INNER JOIN SalesLT.ProductCategory AS e ON d.ParentProductCategoryID = e.ProductCategoryID
```



localhost: AdventureWorksLT2016

CustomerID	SalesOrderID	SalesOrderDetailID	RevisionNumber	SalesOrderNumber	MainCategory	SubCategory	ProductID	
29847	71774	110562	2	S071774	Components	Road Frames	836	ML R
29847	71774	110563	2	S071774	Components	Road Frames	822	ML R
30072	71776	110567	2	S071776	Components	Brakes	907	Rear
30113	71780	110616	2	S071780	Components	Mountain Frames	905	ML N
30113	71780	110617	2	S071780	Bikes	Mountain Bikes	983	Mou
30113	71780	110618	2	S071780	Bikes	Mountain Bikes	988	Mou
30113	71780	110619	2	S071780	Components	Mountain Frames	748	HL M
30113	71780	110620	2	S071780	Bikes	Mountain Bikes	990	Mou
30113	71780	110621	2	S071780	Components	Mountain Frames	926	LL M
30113	71780	110622	2	S071780	Components	Mountain Frames	743	HL M
30113	71780	110623	2	S071780	Bikes	Mountain Bikes	782	Mou
30113	71780	110624	2	S071780	Components	Mountain Frames	918	LL M
30113	71780	110625	2	S071780	Bikes	Mountain Bikes	780	Mou
30113	71780	110626	2	S071780	Components	Pedals	937	HL M
30113	71780	110627	2	S071780	Clothing	Shorts	867	Wom
30113	71780	110628	2	S071780	Bikes	Mountain Bikes	985	Mou
30113	71780	110629	2	S071780	Bikes	Mountain Bikes	989	Mou
30113	71780	110630	2	S071780	Bikes	Mountain Bikes	991	Mou
30113	71780	110631	2	S071780	Bikes	Mountain Bikes	992	Mou
30113	71780	110632	2	S071780	Bikes	Mountain Bikes	993	Mou

! The data in the preview has been truncated due to size limits.

< >

Load Transform Data Cancel

13. De regreso en el reporte. Guardar el archivo como AdventureWorksLT Sales.pbix.

## Tarea 2: Graficar Datos

1. En el panel Campos (Fields), click derecho sobre Query1, Renombrar, tipar Customers y presionar Enter.

Untitled - Power BI Desktop

File Home Insert Modeling View Help

Clipboard

Data

Queries

Insert

Calculations

Sensitivity

Share

Fields

Search

AddressLine1

AddressLine2

City

CompanyN...

CountryReg...

CustomerID

FirstName

LastName

NameStyle

PostalCode

SalesPerson

StateProvince

Title

CustomerID

DueDate

ListPrice

MainCategory

OrderDate

OrderQty

Product

ProductID

RevisionNum...

SalesOrder...

SalesOrderID

SalesOrderR...

ShipDate

SubCategory

SubTotal

Page 1

The screenshot shows the Power BI Fields pane. On the left, under 'Visualizations', there is a 'Filters' section with options like 'Cross-report' (set to 'Off'), 'Keep all filters' (set to 'On'), and 'Drill through' settings. On the right, the 'Fields' pane lists the 'Customers' table with various columns: AddressLine1, AddressLine2, City, CompanyName, CountryRegionCode, CustomerID, FirstName, LastName, NameStyle, PostalCode, SalesPerson, StateProvince, and Title. A red box highlights the 'Rename' option in the context menu for the 'CustomerID' field.

Figura 1

- Para el Query2, hacer lo mismo del paso 1 y colocar el nombre Sales.

The screenshot shows the Power BI Fields pane. The 'Customers' and 'Sales' tables are listed under the 'Fields' pane, each with a red box around it. The 'Customers' table contains the same 12 columns as in Figure 1. The 'Sales' table is also present.

3. Expandir ambas tablas para ver todas las filas.

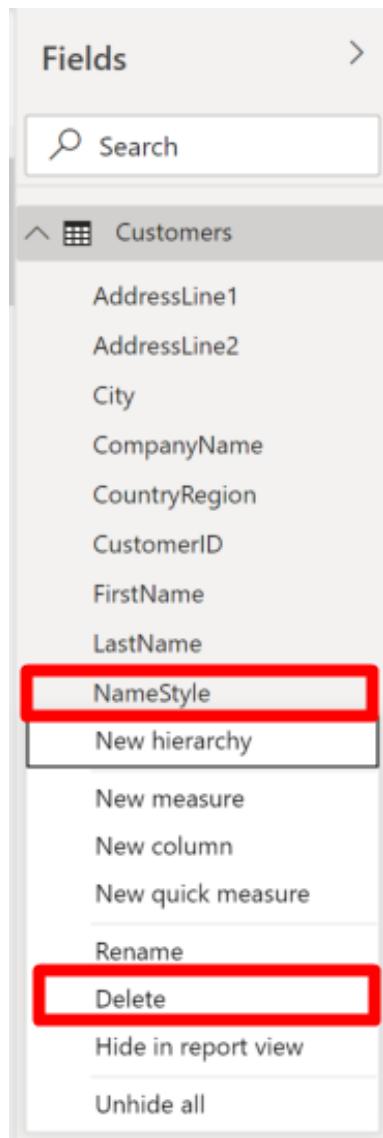
The screenshot shows the Power BI Fields pane with two main sections: 'Customers' and 'Sales'. The 'Customers' section contains fields such as AddressLine1, AddressLine2, City, CompanyName, CountryRegion, CustomerID, FirstName, LastName, NameStyle, PostalCode, SalesPerson, StateProvince, and Title. The 'Sales' section contains fields like CustomerID, DueDate, ListPrice, MainCategory, OrderDate, OrderQty, Product, ProductID, RevisionNumber, SalesOrder, SalesOrderID, SalesOrderNumber, ShipDate, SubCategory, and SubTotal. Both sections have expandable arrows to show more details.

4. En la barra de navegación, click Datos (Data).

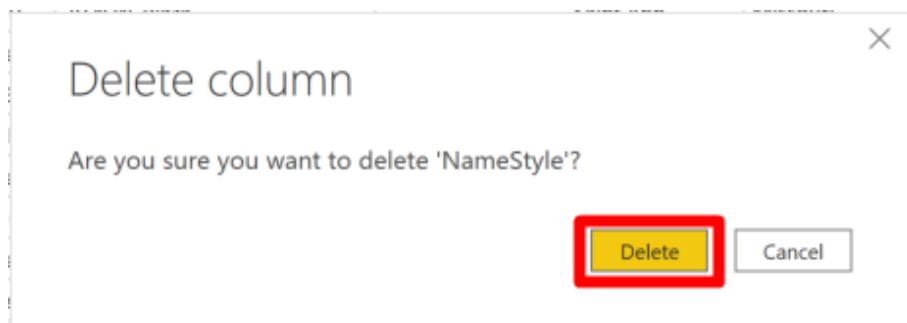
5. In the Fields pane, click the Customers table, if it is not already selected.

The screenshot shows the Power BI desktop interface with the 'Customers' table selected in the Fields pane. The main area displays the data from the 'Customers' table, which includes columns such as CustomerID, CompanyName, NameStyle, Title, FirstName, LastName, SalesPerson, AddressLine1, AddressLine2, City, StateProvince, CountryRegion, PostalCode, and Phone. The 'Customers' table has 407 rows. The Fields pane on the right shows the 'Customers' table selected.

6. Right-click the NameStyle column, and click Delete.



7. In the Delete Column dialog box, click Delete.



8. Repetir el paso 6 y 7 para la columna SalesPerson.

CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode
29492	Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106
29496	Fun Toys and Bikes	Mr.	Robert	Ahlering	6500 East Grant Road		Tucson	Arizona	United States	85701
29497	Great Bikes	Mr.	François	Ferrier	Eastridge Mall		Casper	Wyoming	United States	82601
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White Mountain Mall		Rock Springs	Wyoming	United States	82901
29506	Systematic Sales	Mr.	Sean	Jacobson	2551 East Warner Road		Gilbert	Arizona	United States	85233
29508	Mountain Toy Store	Mr.	Marvin	Allen	First Colony Mall		Sugar Land	Texas	United States	77478
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky Mountain Pines Outlet		Loveland	Colorado	United States	80537
29521	Brightwork Company	Mr.	Tom	Johnston	Belz Factory Outlet		Las Vegas	Nevada	United States	89106
29522	Resale Services	Mr.	Thomas	Armstrong	Fox Hills		Culver City	California	United States	90232
29523	The Gear Store	Mr.	John	Arthur	2345 North Freeway		Houston	Texas	United States	77003
29524	Immens Manufacturing Company	Mr.	Chris	Ashton	70 N.W. Plaza		Saint Ann	Missouri	United States	63074
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 Eureka Rd.		Southgate	Michigan	United States	48195
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern Beltway Center		Las Vegas	Nevada	United States	89106
29532	Road-Way Mart	Mr.	James	Bailey	Southgate Mall		Missoula	Montana	United States	59801
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Horizon Outlet Center		Holland	Michigan	United States	49423
29535	Grand Bicycle Stores	Mr.	Wayne	Banack	48255 1-10 E. @ Eastpoint Blvd.		Baytown	Texas	United States	77520
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Westland	Michigan	United States	48185
29545	Center Cycle Shop	Mr.	John	Beaver	99300 223rd Southeast		Bothell	Washington	United States	98011
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McLoughlin Blvd		Milwaukie	Oregon	United States	97222
29554	Field Trip Inc	Mr.	Payton	Benson	997000 Telegraph Rd.		Southfield	Michigan	United States	48034
29559	Safe Cycles Shop	Mr.	Robert	Bernacchi	25915 140th Ave Ne		Bellevue	Washington	United States	98004
29560	Number 1 Supply	Mr.	Matthias	Berndt	Escondido		Escondido	California	United States	92025
29562	Golf and Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941
29565	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003
29574	Third Bike Store	Mr.	Randall	Boseman	2500 North Stemmons Freeway		Dallas	Texas	United States	75201
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104
29582	Raw Materials Inc	Mr.	Ted	Bremer	Bldg. 9n/99298		Redmond	Washington	United States	98052
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401
29590	Metro Bike Works	Mr.	Jo	Brown	250000 Eight Mile Road		Detroit	Michigan	United States	48226
29591	Best o' Bikes	Mr.	Robert	Brown	250880 Baur Blvd		Saint Louis	Missouri	United States	63103
29598	Mechanical Products Ltd.	Mr.	Michael	Brundage	22555 Paseo De Las Americas		San Diego	California	United States	92102
29622	Metro Cycle Shop	Mr.	Henry	Campen	2507 Pacific Ave S		Tacoma	Washington	United States	98403

9. Right-click the CustomerID column, and then click Hide in Report View.



Customers (407 rows) Columns: CustomerID (407 distinct values)

CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode
29492	Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106
29496	Fun Toys and Bikes	Mr.	Robert	Ahlering	6500 East Grant Road		Tucson	Arizona	United States	85701
29497	Great Bikes	Mr.	François	Ferrier	Eastridge Mall		Casper	Wyoming	United States	82601
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White Mountain Mall		Rock Springs	Wyoming	United States	82536
29506	Systematic Sales	Mr.	Sean	Jacobson	2551 East Warner Road		Gilbert	Arizona	United States	85233
29508	Mountain Toy Store	Mr.	Marvin	Allen	First Colony Mall		Sugar Land	Texas	United States	77478
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky Mountain Pines Outlet		Loveland	Colorado	United States	80537
29521	Brightwork Company	Mr.	Tom	Johnston	Bell Factory Outlet		Las Vegas	Nevada	United States	89106
29522	Resale Services	Mr.	Thomas	Armstrong	Fox Hills		Culver City	California	United States	90232
29523	The Gear Store	Mr.	John	Arthur	2345 North Freeway		Houston	Texas	United States	77003
29524	Immense Manufacturing Company	Mr.	Chris	Ashton	70 N.W. Plaza		Saint Ann	Missouri	United States	63074
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 Ureka Rd.		Southgate	Michigan	United States	48195
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern Beltway Center		Las Vegas	Nevada	United States	89106
29532	Road-Way Mart	Mr.	James	Bailey	Southgate Mall		Missoula	Montana	United States	59801
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Holiday Outlets Center		Holland	Michigan	United States	49423
29535	Grand Bicycle Stores	Mr.	Wayne	Banack	482551-101 E. @ Eastpoint Blvd.		Baytown	Texas	United States	77520
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Westland	Michigan	United States	48185
29545	Center Cycle Shop	Mr.	John	Beaver	99300 223rd Southeast		Bothell	Washington	United States	98011
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McLaughlin Blvd		Milwaukee	Oregon	United States	97222
29551	Field Trip Inc.	Mr.	Payton	Benson	997000 Telegraph Rd.		Southfield	Michigan	United States	48034
29559	Safe Cycles Shop	Mr.	Robert	Bernacchi	25915 140th Ave Ne		Bellevue	Washington	United States	98004
29560	Number 1 Supply	Mr.	Matthias	Berndt	Escondida		Escorial	California	United States	92025
29562	Golf and Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941
29565	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003
29574	Third Bike Store	Mr.	Randall	Boseman	2500 North Stemmons Freeway		Dallas	Texas	United States	75201
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104
29582	Raw Materials Inc	Mr.	Ted	Bremer	Bldg. 9n/99298		Redmond	Washington	United States	98052
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401
29590	Metro Bike Works	Mr.	Jo	Brown	250000 Eight Mile Road		Detroit	Michigan	United States	48226
29592	Best o' Bikes	Mr.	Robert	Brown	250880 Baur Blvd		Saint Louis	Missouri	United States	63103
29598	Mechanical Products Ltd.	Mr.	Michael	Brundage	22555 Paseo De Las Americas		San Diego	California	United States	92102
29622	Metro Cycle Shop	Mr.	Henry	Campen	2507 Pacific Ave S		Tacoma	Washington	United States	98403

10. Click the AddressLine1 column header.

11. On the Modeling ribbon, in the Properties group, click Data Category: Uncategorized, and then click Address.

AdventureWorksLT Sales - Power BI Desktop

CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode
29492	Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106
29496	Fun Toys and Bikes	Mr.	Robert	Ahlering	6500 E		Tucson	Arizona	United States	85701
29497	Great Bikes	Mr.	François	Ferrier	Eastridge Mall		Casper	Wyoming	United States	82601
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White I		Rock Springs	Wyoming	United States	82901
29506	Systematic Sales	Mr.	Sean	Jacobson	2551 E		Gilbert	Arizona	United States	85233
29508	Mountain Toy Store	Mr.	Marvin	Allen	First C		Sugar Land	Texas	United States	77478
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky M		Loveland	Colorado	United States	80537
29521	Brightwork Company	Mr.	Tom	Johnston	Bell Fa		Las Vegas	Nevada	United States	89106
29522	Resale Services	Mr.	Thomas	Armstrong	Fox Hill		Culver City	California	United States	90232
29523	The Gear Store	Mr.	John	Arthur	2345 N		Houston	Texas	United States	77003
29524	Immense Manufacturing Company	Mr.	Chris	Ashton	70 N.W.		Saint Ann	Missouri	United States	63074
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 E		Southgate	Michigan	United States	48195
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern B		Las Vegas	Nevada	United States	89106
29532	Road-Way Mart	Mr.	James	Bailey	Southg		Missoula	Montana	United States	59801
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Horizo		Holland	Michigan	United States	49423
29535	Grand Bicycle Stores	Mr.	Wayne	Banack	48255		Baytown	Texas	United States	77520
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Westland	Michigan	United States	48185
29545	Center Cycle Shop	Mr.	John	Beaver	99300 223rd Southeast		Bothell	Washington	United States	98011
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McLaughlin Blvd		Milwaukee	Oregon	United States	97222
29554	Field Trip Inc.	Mr.	Payton	Benson	997000 Telegraph Rd.		Southfield	Michigan	United States	48034
29559	Safe Cycles Shop	Mr.	Robert	Bernacchi	25915 140th Ave Ne		Bellevue	Washington	United States	98004
29560	Number 1 Supply	Mr.	Matthias	Berndt	Escondida		Escondido	California	United States	92025
29562	Golf and Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941
29565	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003
29574	Third Bike Store	Mr.	Randall	Boseman	2500 North Stemmons Freeway		Dallas	Texas	United States	75201
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104
29582	Raw Materials Inc	Mr.	Ted	Bremer	Bldg. 9n/99298		Redmond	Washington	United States	98052
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401
29590	Metro Bike Works	Mr.	Jo	Brown	250000 Eight Mile Road		Detroit	Michigan	United States	48226
29591	Best o' Bikes	Mr.	Robert	Brown	250880 Baur Blvd		Saint Louis	Missouri	United States	63103
29598	Mechanical Products Ltd.	Mr.	Michael	Brundage	22555 Paseo De Las Americas		San Diego	California	United States	92102
29622	Metro Cycle Shop	Mr.	Henry	Campen	2507 Pacific Ave S		Tacoma	Washington	United States	98403

12. Click the City column header.

13. On the Modeling ribbon, in the Properties group, click Data Category: Uncategorized, and then click City.

AdventureWorksLT Sales - Power BI Desktop

File Home Help Table tools Column tools

Name: City  
Data type: Text

Σ Summarization: Don't summarize  
Data category: City

CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode	FullAddress
29492	Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106	Blue Ridge Mall, Kansas City, Missouri, United States, 64106
29496	Fun Toys and Bikes	Mr.	Robert	Ahlering	6500 East Grant Road		Tucson	Arizona	United States	85701	6500 East Grant Road, Tucson, Arizona, United States, 85701
29497	Great Bikes	Mr.	François	Terrier	Eastridge Mall		Casper	Wyoming	United States	82601	Eastridge Mall, Casper, Wyoming, United States, 82601
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White Mountain Mall		Rock Springs	Wyoming	United States	82901	White Mountain Mall, Rock Springs, Wyoming, United States, 82901
29506	Systematic Sales	Mr.	Sean	Jacobson	2551 East Warner Road		Gilbert	Arizona	United States	85233	2551 East Warner Road, Gilbert, Arizona, United States, 85233
29508	Mountain Toy Store	Mr.	Marvin	Allen	First Colony Mall		Sugar Land	Texas	United States	77478	First Colony Mall, Sugar Land, Texas, United States, 77478
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky Mountain Pines Outlet		Loveland	Colorado	United States	80537	Rocky Mountain Pines Outlet, Loveland, Colorado, United States, 80537
29521	Brightwork Company	Mr.	Tom	Johnston	Beltz Factory Outlet		Las Vegas	Nevada	United States	89106	Beltz Factory Outlet, Las Vegas, Nevada, United States, 89106
29522	Resale Services	Mr.	Thomas	Armstrong	Fox Hills		Culver City	California	United States	90232	Fox Hills, Culver City, California, United States, 90232
29523	The Gear Store	Mr.	John	Arthur	2345 North Freeway		Houston	Texas	United States	77003	2345 North Freeway, Houston, Texas, United States, 77003
29524	Immense Manufacturing Company	Mr.	Chris	Ashton	70 N.W. Plaza		Saint Ann	Missouri	United States	63074	70 N.W. Plaza, Saint Ann, Missouri, United States, 63074
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 Eureka Rd.		Southgate	Michigan	United States	48195	2533 Eureka Rd., Southgate, Michigan, United States, 48195
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern Beltway Center		Las Vegas	Nevada	United States	89106	Eastern Beltway Center, Las Vegas, Nevada, United States, 89106
29532	Road-Way Mart	Mr.	James	Bailey	Southgate Mall		Missoula	Montana	United States	59801	Southgate Mall, Missoula, Montana, United States, 59801
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Horizon Outlet Center		Holland	Michigan	United States	49423	Horizon Outlet Center, Holland, Michigan, United States, 49423
29535	Grand Bicycle Stores	Mr.	Wayne	Banack	48255 I-10 E. @ Eastpoint Blvd.		Baytown	Texas	United States	77520	48255 I-10 E. @ Eastpoint Blvd., Baytown, Texas, United States, 77520
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Westland	Michigan	United States	48185	6789 Warren Road, Westland, Michigan, United States, 48185
29545	Center Cycle Shop	Mr.	John	Bever	99300 223rd Southeast		Bothell	Washington	United States	98011	99300 223rd Southeast, Bothell, Washington, United States, 98011
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McLaughlin Blvd		Milwaukee	Oregon	United States	97222	567 Sw McLaughlin Blvd, Milwaukee, Oregon, United States, 97222
29554	Field Trip Inc	Mr.	Peyton	Benson	997000 Telegraph Rd.		Southfield	Michigan	United States	48034	997000 Telegraph Rd., Southfield, Michigan, United States, 48034
29559	Safe Cycles Shop	Mr.	Robert	Bernacchi	25915 140th Ave Ne		Bellevue	Washington	United States	98004	25915 140th Ave Ne, Bellevue, Washington, United States, 98004
29560	Number 1 Supply	Mr.	Matthias	Berndt	Escondido		Escondido	California	United States	92025	Escondido, Escondido, California, United States, 92025
29562	Golf and Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941	5500 Grossmont Center Drive, La Mesa, California, United States, 91941
29565	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679	3065 Santa Margarita Parkway, Trabuco Canyon, California, United States, 92679
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245	Corporate Office, El Segundo, California, United States, 90245
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003	9903 Highway 6 South, Houston, Texas, United States, 77003
29574	Third Bike Store	Mr.	Randall	Boseman	2500 North Stennmons Freeway		Dallas	Texas	United States	75201	2500 North Stennmons Freeway, Dallas, Texas, United States, 75201
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030	789 West Alameda, Westminster, Colorado, United States, 80030
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104	4251 First Avenue, Seattle, Washington, United States, 98104
29582	Raw Materials Inc	Mr.	Ted	Bremer	Bldg. 9n/99298		Redmond	Washington	United States	98052	Bldg. 9n/99298, Redmond, Washington, United States, 98052
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188	4255 East Lies Road, Carol Stream, Illinois, United States, 60188
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232	25136 Jefferson Blvd., Culver City, California, United States, 90232
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205	Washington Square, Portland, Oregon, United States, 97205
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401	Holiday Village Mall, Great Falls, Montana, United States, 59401

Table: Customers (407 rows) Column: City (256 distinct values)

14. Click the StateProvince column header.

15. On the Modeling ribbon, in the Properties group, click Data Category: Uncategorized, and then click State or Province.

AdventureWorksLT Sales - Power BI Desktop

File Home Help Table tools Column tools

Name: StateProvince  
Data type: Text

Σ Summarization: Don't summarize  
Data category: State or Province

CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode	FullAddress
29492	Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106	Blue Ridge Mall, Kansas City, Missouri, United States, 64106
29496	Fun Toys and Bikes	Mr.	Robert	Ahlering	6500 East Grant Road		Tucson	Arizona	United States	85701	6500 East Grant Road, Tucson, Arizona, United States, 85701
29497	Great Bikes	Mr.	François	Terrier	Eastridge Mall		Casper	Wyoming	United States	82601	Eastridge Mall, Casper, Wyoming, United States, 82601
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White Mountain Mall		Rock Springs	Wyoming	United States	82901	White Mountain Mall, Rock Springs, Wyoming, United States, 82901
29506	Systematic Sales	Mr.	Sean	Jacobson	2551 East Warner Road		Gilbert	Arizona	United States	85233	2551 East Warner Road, Gilbert, Arizona, United States, 85233
29508	Mountain Toy Store	Mr.	Marvin	Allen	First Colony Mall		Sugar Land	Texas	United States	77478	First Colony Mall, Sugar Land, Texas, United States, 77478
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky Mountain Pines Outlet		Loveland	Colorado	United States	80537	Rocky Mountain Pines Outlet, Loveland, Colorado, United States, 80537
29521	Brightwork Company	Mr.	Tom	Johnston	Beltz Factory Outlet		Las Vegas	Nevada	United States	89106	Beltz Factory Outlet, Las Vegas, Nevada, United States, 89106
29522	Resale Services	Mr.	Thomas	Armstrong	Fox Hills		Culver City	California	United States	90232	Fox Hills, Culver City, California, United States, 90232
29523	The Gear Store	Mr.	John	Arthur	2345 North Freeway		Houston	Texas	United States	77003	2345 North Freeway, Houston, Texas, United States, 77003
29524	Immense Manufacturing Company	Mr.	Chris	Ashton	70 N.W. Plaza		Saint Ann	Missouri	United States	63074	70 N.W. Plaza, Saint Ann, Missouri, United States, 63074
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 Eureka Rd.		Southgate	Michigan	United States	48195	2533 Eureka Rd., Southgate, Michigan, United States, 48195
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern Beltway Center		Las Vegas	Nevada	United States	89106	Eastern Beltway Center, Las Vegas, Nevada, United States, 89106
29532	Road-Way Mart	Mr.	James	Bailey	Southgate Mall		Missoula	Montana	United States	59801	Southgate Mall, Missoula, Montana, United States, 59801
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Horizon Outlet Center		Holland	Michigan	United States	49423	Horizon Outlet Center, Holland, Michigan, United States, 49423
29535	Grand Bicycle Stores	Mr.	Wayne	Banack	48255 I-10 E. @ Eastpoint Blvd.		Baytown	Texas	United States	77520	48255 I-10 E. @ Eastpoint Blvd., Baytown, Texas, United States, 77520
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Westland	Michigan	United States	48185	6789 Warren Road, Westland, Michigan, United States, 48185
29545	Center Cycle Shop	Mr.	John	Bever	99300 223rd Southeast		Bothell	Washington	United States	98011	99300 223rd Southeast, Bothell, Washington, United States, 98011
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McLaughlin Blvd		Milwaukee	Oregon	United States	97222	567 Sw McLaughlin Blvd, Milwaukee, Oregon, United States, 97222
29554	Field Trip Inc	Mr.	Peyton	Benson	997000 Telegraph Rd.		Southfield	Michigan	United States	48034	997000 Telegraph Rd., Southfield, Michigan, United States, 48034
29559	Safe Cycles Shop	Mr.	Robert	Bernacchi	25915 140th Ave Ne		Bellevue	Washington	United States	98004	25915 140th Ave Ne, Bellevue, Washington, United States, 98004
29560	Number 1 Supply	Mr.	Matthias	Berndt	Escondido		Escondido	California	United States	92025	Escondido, Escondido, California, United States, 92025
29562	Golf and Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941	5500 Grossmont Center Drive, La Mesa, California, United States, 91941
29565	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679	3065 Santa Margarita Parkway, Trabuco Canyon, California, United States, 92679
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245	Corporate Office, El Segundo, California, United States, 90245
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003	9903 Highway 6 South, Houston, Texas, United States, 77003
29574	Third Bike Store	Mr.	Randall	Boseman	2500 North Stennmons Freeway		Dallas	Texas	United States	75201	2500 North Stennmons Freeway, Dallas, Texas, United States, 75201
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030	789 West Alameda, Westminster, Colorado, United States, 80030
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104	4251 First Avenue, Seattle, Washington, United States, 98104
29582	Raw Materials Inc	Mr.	Ted	Bremer	Bldg. 9n/99298		Redmond	Washington	United States	98052	Bldg. 9n/99298, Redmond, Washington, United States, 98052
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188	4255 East Lies Road, Carol Stream, Illinois, United States, 60188
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232	25136 Jefferson Blvd., Culver City, California, United States, 90232
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205	Washington Square, Portland, Oregon, United States, 97205
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401	Holiday Village Mall, Great Falls, Montana, United States, 59401

Table: Customers (407 rows) Column: StateProvince (25 distinct values)

16. Click en el encabezado de columna CountryRegion.

17. On the Modeling ribbon, in the Properties group, click Data Category: Uncategorized, and then click Country/Region.

AdventureWorksLT Sales - Power BI Desktop

File Home Help Table tools Column tools

Name: CountryRegion Data type: Text

Format: Text \$ % Auto

Summarization: Don't summarize Data category: Country

Sort by column Sort Data groups Groups Manage relationships New column Calculations

CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode	FullAddress
29492	Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106	Blue Ridge Mall, Kansas City, Missouri, United States, 64106
29496	Fun Toys and Bikes	Mr.	Robert	Ahlering	6500 East Grant Road		Tucson	Arizona	United States	85701	6500 East Grant Road, Tucson, Arizona, United States, 85701
29497	Great Bikes	Mr.	Francois	Ferrier	Eastridge Mall		Casper	Wyoming	United States	82601	Eastridge Mall, Casper, Wyoming, United States, 82601
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White Mountain Mall		Rock Springs	Wyoming	United States	82901	White Mountain Mall, Rock Springs, Wyoming, United States, 82901
29506	Systematic Sales	Mr.	Sean	Jacobsen	2551 East Warner Road		Gilbert	Arizona	United States	85233	2551 East Warner Road, Gilbert, Arizona, United States, 85233
29508	Mountain Toy Store	Mr.	Marvin	Allen	First Colony Mall		Sugar Land	Texas	United States	77478	First Colony Mall, Sugar Land, Texas, United States, 77478
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky Mountain Pines Outlet		Loveland	Colorado	United States	80537	Rocky Mountain Pines Outlet, Loveland, Colorado, United States, 80537
29521	Brightwork Company	Mr.	Tom	Johnston	Belt Factory Outlet		Las Vegas	Nevada	United States	89106	Belt Factory Outlet, Las Vegas, Nevada, United States, 89106
29522	Resale Services	Mr.	Thomas	Armstrong	Fox Hills		Culver City	California	United States	90232	Fox Hills, Culver City, California, United States, 90232
29523	The Gear Store	Mr.	John	Arthur	2345 North Freeway		Houston	Texas	United States	77003	2345 North Freeway, Houston, Texas, United States, 77003
29524	Immense Manufacturing Company	Mr.	Chris	Ashton	70 N.W. Plaza		Saint Ann	Missouri	United States	63074	70 N.W. Plaza, Saint Ann, Missouri, United States, 63074
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 Eureka Rd.		Southgate	Michigan	United States	48195	2533 Eureka Rd., Southgate, Michigan, United States, 48195
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern Beltway Center		Las Vegas	Nevada	United States	89106	Eastern Beltway Center, Las Vegas, Nevada, United States, 89106
29532	Read-Way Mart	Mr.	James	Bailey	Southgate Mall		Missoula	Montana	United States	59801	Southgate Mall, Missoula, Montana, United States, 59801
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Horizon Outlet Center		Holland	Michigan	United States	49423	Horizon Outlet Center, Holland, Michigan, United States, 49423
29535	Grand Bicycle Stores	Mr.	Wayne	Banack	48255 1-10 E. @ Eastpoint Blvd.		Baytown	Texas	United States	77520	48255 1-10 E. @ Eastpoint Blvd., Baytown, Texas, United States, 77520
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Westland	Michigan	United States	48185	6789 Warren Road, Westland, Michigan, United States, 48185
29545	Center Cycle Shop	Mr.	John	Beaver	99300 22nd Southeast		Bothell	Washington	United States	98011	99300 22nd Southeast, Bothell, Washington, United States, 98011
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McLoughlin Blvd		Milwaukee	Oregon	United States	97222	567 Sw McLoughlin Blvd, Milwaukee, Oregon, United States, 97222
29554	Field Trip Inc	Mr.	Peyton	Benson	997000 Telegraph Rd.		Southfield	Michigan	United States	48034	997000 Telegraph Rd., Southfield, Michigan, United States, 48034
29559	Safe Cycles Shop	Mr.	Robert	Bernachni	25915 140th Ave Ne		Bellevue	Washington	United States	98004	25915 140th Ave Ne, Bellevue, Washington, United States, 98004
29560	Number 1 Supply	Mr.	Matthias	Berndt	Escondido		Escondido	California	United States	92025	Escondido, Escondido, California, United States, 92025
29562	Golf and Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941	5500 Grossmont Center Drive, La Mesa, California, United States, 91941
29563	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679	3065 Santa Margarita Parkway, Trabuco Canyon, California
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245	Corporate Office, El Segundo, California, United States, 90245
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003	9903 Highway 6 South, Houston, Texas, United States, 77003
29574	Third Bike Store	Mr.	Randall	Boseman	2500 North Stemmons Freeway		Dallas	Texas	United States	75201	2500 North Stemmons Freeway, Dallas, Texas, United States, 75201
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030	789 West Alameda, Westminster, Colorado, United States, 80030
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104	4251 First Avenue, Seattle, Washington, United States, 98104
29582	Raw Materials Inc.	Mr.	Ted	Bremer	Bldg. 9n/99298		Redmond	Washington	United States	98052	Bldg. 9n/99298, Redmond, Washington, United States, 98052
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188	4255 East Lies Road, Carol Stream, Illinois, United States, 60188
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232	25136 Jefferson Blvd., Culver City, California, United States, 90232
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205	Washington Square, Portland, Oregon, United States, 97205
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401	Holiday Village Mall, Great Falls, Montana, United States, 59401

Table: Customers (407 rows) Column: CountryRegion (3 distinct values)

18. Click en el encabezado de columna PostalCode.

19. On the Modeling ribbon, in the Properties group, click Data Category: Uncategorized, and then click Postal Code.

AdventureWorksLT Sales - Power BI Desktop

File Home Help Table tools Column tools

Name: PostalCode Data type: Text

Format: Text \$ % Auto

Summarization: Don't summarize Data category: Postal code

Sort by column Sort Data groups Groups Manage relationships New column Calculations

CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode	FullAddress
29492	Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106	Blue Ridge Mall, Kansas City, Missouri, United States, 64106
29496	Fun Toys and Bikes	Mr.	Robert	Ahlering	6500 East Grant Road		Tucson	Arizona	United States	85701	6500 East Grant Road, Tucson, Arizona, United States, 85701
29497	Great Bikes	Mr.	Francois	Ferrier	Eastridge Mall		Casper	Wyoming	United States	82601	Eastridge Mall, Casper, Wyoming, United States, 82601
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White Mountain Mall		Rock Springs	Wyoming	United States	82901	White Mountain Mall, Rock Springs, Wyoming, United States, 82901
29506	Systematic Sales	Mr.	Sean	Jacobsen	2551 East Warner Road		Gilbert	Arizona	United States	85233	2551 East Warner Road, Gilbert, Arizona, United States, 85233
29508	Mountain Toy Store	Mr.	Marvin	Allen	First Colony Mall		Sugar Land	Texas	United States	77478	First Colony Mall, Sugar Land, Texas, United States, 77478
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky Mountain Pines Outlet		Loveland	Colorado	United States	80537	Rocky Mountain Pines Outlet, Loveland, Colorado, United States, 80537
29521	Brightwork Company	Mr.	Tom	Johnston	Belt Factory Outlet		Las Vegas	Nevada	United States	89106	Belt Factory Outlet, Las Vegas, Nevada, United States, 89106
29522	Resale Services	Mr.	Thomas	Armstrong	Fox Hills		Culver City	California	United States	90232	Fox Hills, Culver City, California, United States, 90232
29523	The Gear Store	Mr.	John	Arthur	2345 North Freeway		Houston	Texas	United States	77003	2345 North Freeway, Houston, Texas, United States, 77003
29524	Immense Manufacturing Company	Mr.	Chris	Ashton	70 N.W. Plaza		Saint Ann	Missouri	United States	63074	70 N.W. Plaza, Saint Ann, Missouri, United States, 63074
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 Eureka Rd.		Southgate	Michigan	United States	48195	2533 Eureka Rd., Southgate, Michigan, United States, 48195
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern Beltway Center		Las Vegas	Nevada	United States	89106	Eastern Beltway Center, Las Vegas, Nevada, United States, 89106
29532	Read-Way Mart	Mr.	James	Bailey	Southgate Mall		Missoula	Montana	United States	59801	Southgate Mall, Missoula, Montana, United States, 59801
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Horizon Outlet Center		Holland	Michigan	United States	49423	Horizon Outlet Center, Holland, Michigan, United States, 49423
29535	Grand Bicycle Stores	Mr.	Wayne	Banack	48255 1-10 E. @ Eastpoint Blvd.		Baytown	Texas	United States	77520	48255 1-10 E. @ Eastpoint Blvd., Baytown, Texas, United States, 77520
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Westland	Michigan	United States	48185	6789 Warren Road, Westland, Michigan, United States, 48185
29545	Center Cycle Shop	Mr.	John	Beaver	99300 22nd Southeast		Bothell	Washington	United States	98011	99300 22nd Southeast, Bothell, Washington, United States, 98011
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McLoughlin Blvd		Milwaukee	Oregon	United States	97222	567 Sw McLoughlin Blvd, Milwaukee, Oregon, United States, 97222
29554	Field Trip Inc	Mr.	Peyton	Benson	997000 Telegraph Rd.		Southfield	Michigan	United States	48034	997000 Telegraph Rd., Southfield, Michigan, United States, 48034
29559	Safe Cycles Shop	Mr.	Robert	Bernachni	25915 140th Ave Ne		Bellevue	Washington	United States	98004	25915 140th Ave Ne, Bellevue, Washington, United States, 98004
29560	Number 1 Supply	Mr.	Matthias	Berndt	Escondido		Escondido	California	United States	92025	Escondido, Escondido, California, United States, 92025
29562	Golf and Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941	5500 Grossmont Center Drive, La Mesa, California, United States, 91941
29563	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679	3065 Santa Margarita Parkway, Trabuco Canyon, California
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245	Corporate Office, El Segundo, California, United States, 90245
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003	9903 Highway 6 South, Houston, Texas, United States, 77003
29574	Third Bike Store	Mr.	Randall	Boseman	2500 North Stemmons Freeway		Dallas	Texas	United States	75201	2500 North Stemmons Freeway, Dallas, Texas, United States, 75201
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030	789 West Alameda, Westminster, Colorado, United States, 80030
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104	4251 First Avenue, Seattle, Washington, United States, 98104
29582	Raw Materials Inc.	Mr.	Ted	Bremer	Bldg. 9n/99298		Redmond	Washington	United States	98052	Bldg. 9n/99298, Redmond, Washington, United States, 98052
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188	4255 East Lies Road, Carol Stream, Illinois, United States, 60188
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232	25136 Jefferson Blvd., Culver City, California, United States, 90232
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205	Washington Square, Portland, Oregon, United States, 97205
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401	Holiday Village Mall, Great Falls, Montana, United States, 59401

Table: Customers (407 rows) Column: PostalCode (287 distinct values)

20. On the Modeling ribbon, in the Calculations group, click New Column, and then in the formula bar, type the following expression and press Enter:

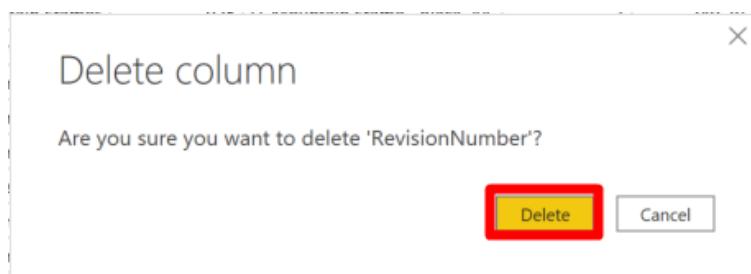
```
FullAddress = Customers[AddressLine1] & ", " & Customers[City] & ", " &
Customers[StateProvince] & ", " & Customers[CountryRegion] & ", " &
Customers[PostalCode]
```

The screenshot shows the Power BI Desktop interface with the 'New column' dialog box open. The formula bar contains the expression: `1 FullAddress = Customers[AddressLine1] & ", " & Customers[City] & ", " & Customers[StateProvince] & ", " & Customers[CountryRegion] & ", " & Customers[PostalCode]`. The 'New column' button is highlighted with a red box.

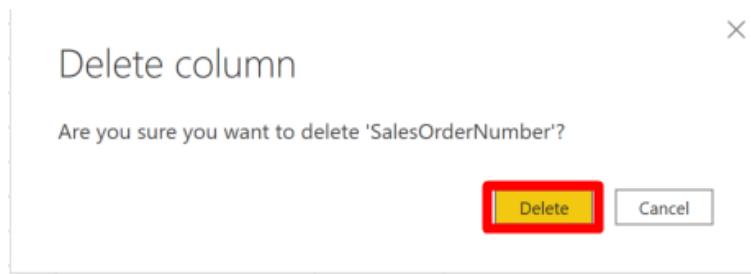
CustomerID	CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode	FullAddress				
29492	Valley Bicycle Specialties	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106	Blue Ridge Mall, Kansas City, Missouri, United States, 64106				
29496	Fun Toys and Bikes	Mr.	Robert	Ahrling	6500 East Grant Road		Tucson	Arizona	United States	85701	Eastridge Mall, Casper, Wyoming, United States, 82601				
29497	Great Bike	Mr.	François	Ferrier	Eastridge Mall		Casper	Wyoming	United States	82601	White Mountain Mall, Rock Springs, Wyoming, United States, 82533				
29502	Major Sport Suppliers	Mr.	Paul	Alcorn	White Mountain Mall		Rock Springs	Wyoming	United States	82501	2551 East Warner Road, Gilbert, Arizona, United States, 85233				
29506	Systematic Sales	Mr.	Sean	Jacobson	2551 East Warner Road		Gilbert	Arizona	United States	85037	First Colony Mall, Sugar Land, Texas, United States, 77478				
29508	Mountain Toy Store	Mr.	Marvin	Allen	First Colony Mall		Sugar Land	Texas	United States	77478	Rocky Mountain Pines Outlet, Loveland, Colorado, United States, 80537				
29511	Bold Bike Accessories	Mr.	Oscar	Alpuerto	Rocky Mountain Pines Outlet		Loveland	Colorado	United States	80537	Bell Factory Outlet, Las Vegas, Nevada, United States, 89106				
29521	Brightworks Company	Mr.	Tom	Johnston	Bell Factory Outlet		Las Vegas	Nevada	United States	89106	Fox Hills, Culver City, California, United States, 90232				
29522	Rebelie Services	Mr.	Thomas	Armstrong	Fox Hills		Culver City	California	United States	90232	Houston	Texas	United States	77003	2345 North Freeway, Houston, Texas, United States, 77003
29523	The Gear Store	Mr.	John	Arthur	2345 North Freeway		Saint Ann	Missouri	United States	63074	70 N.W. Plaza, Saint Ann, Missouri, United States, 63074				
29524	Immenise Manufacturing Company	Mr.	Chris	Ashton	70 N.W. Plaza		Southgate	Michigan	United States	48195	2533 Eureka Rd., Southgate, Michigan, United States, 48195				
29528	Work and Play Association	Mr.	Stephen	Ayers	2533 Eureka Rd.		Las Vegas	Nevada	United States	89106	Eastern Beltway Center, Las Vegas, Nevada, United States, 89106				
29531	Remarkable Bike Store	Mr.	Cory	Booth	Eastern Beltway Center		Missoula	Montana	United States	59801	Southgate Mall, Missoula, Montana, United States, 59801				
29532	Road-Way Mart	Mr.	James	Bailey	Southgate Mall		Holland	Michigan	United States	49423	Horizon Outlet Center, Holland, Michigan, United States, 49423				
29533	Small Cycle Store	Mr.	Douglas	Baldwin	Horizon Outlet Center		Baytown	Texas	United States	77520	48255 100 E. @ Eastpoint Blvd., Baytown, Texas, United States, 77520				
29535	Grand Bicycle Stores	Mr.	Wayne	Barack	48255 100 E. @ Eastpoint Blvd.		Westland	Michigan	United States	48185	48255 100 E. @ Eastpoint Blvd., Westland, Michigan, United States, 48185				
29536	Kickstand Sellers	Mr.	Robert	Barker	6789 Warren Road		Bothell	Washington	United States	98011	99300 223rd Southeast				
29545	Center Cycle Shop	Mr.	John	Beaver	99300 223rd Southeast		Milwaukee	Oregon	United States	97222	70 N.W. Plaza, Saint Ann, Missouri, United States, 63074				
29550	Another Bicycle Company	Mr.	Stanley	Alan	567 Sw McGoughlin Blvd		Southfield	Michigan	United States	48034	567 Sw McGoughlin Blvd, Milwaukee, Oregon, United States, 97222				
29554	Field Trip Inc	Mr.	Peyton	Benson	99700 Telegraph Rd.		Bellevue	Washington	United States	98004	99700 Telegraph Rd., Southfield, Michigan, United States, 48034				
29559	Safe Cycles Shop	Mr.	Robert	Bernachich	99700 Telegraph Rd.		Redmond	Washington	United States	98052	25915 140th Ave Ne, Bellevue, Washington, United States, 98004				
29560	Number 1 Supply	Mr.	Matthias	Bennett	25915 140th Ave Ne		Escondido	California	United States	92025	Escondido, Escondido, California, United States, 92025				
29562	Golf and Cycle Store	Mr.	Steve	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91941	5500 Grossmont Center Drive, La Mesa, California, United States, 91941				
29563	World Bike Discount Store	Mr.	Jimmy	Bischoff	3065 Santa Margarita Parkway		Trabuco Canyon	California	United States	92679	3065 Santa Margarita Parkway, Trabuco Canyon, California				
29568	Coalition Bike Company	Mr.	Donald	Blanton	Corporate Office		El Segundo	California	United States	90245	Corporate Office, El Segundo, California, United States, 90245				
29570	Grease and Oil Products Company	Mr.	Michael	Blythe	9903 Highway 6 South		Houston	Texas	United States	77003	9903 Highway 6 South, Houston, Texas, United States, 77003				
29574	Third Bike Store	Mr.	Randall	Bosman	2500 North Stemmons Freeway		Dallas	Texas	United States	75201	2500 North Stemmons Freeway, Dallas, Texas, United States, 75201				
29579	Initial Bike Company	Mr.	Cornelius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030	789 West Alameda, Westminster, Colorado, United States, 80030				
29580	Latest Sports Equipment	Mr.	Richard	Bready	4251 First Avenue		Seattle	Washington	United States	98104	4251 First Avenue, Seattle, Washington, United States, 98104				
29582	Raw Materials Inc	Mr.	Ted	Bremer	Bldg. #9/9298		Redmond	Washington	United States	98052	Bldg. #9/9298, Redmond, Washington, United States, 98052				
29583	Lots of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Lies Road		Carol Stream	Illinois	United States	60188	4255 East Lies Rd, Carol Stream, Illinois, United States, 60188				
29584	Futuristic Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd.		Culver City	California	United States	90232	25136 Jefferson Blvd., Culver City, California, United States, 90232				
29585	Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205	Washington Square, Portland, Oregon, United States, 97205				
29588	Nonskid Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59041	Washington Square, Portland, Oregon, United States, 97205				
29590	Metro Bike Works	Mr.	Jo	Brown	250000 Eight Mile Road		Detroit	Michigan	United States	48226	250000 Eight Mile Road, Detroit, Michigan, United States, 48226				
29591	Best o' Bikes	Mr.	Robert	Brown	250880 Bauer Blvd		Saint Louis	Missouri	United States	63103	250880 Bauer Blvd, Saint Louis, Missouri, United States, 63103				

21. In the Fields pane, click Sales.

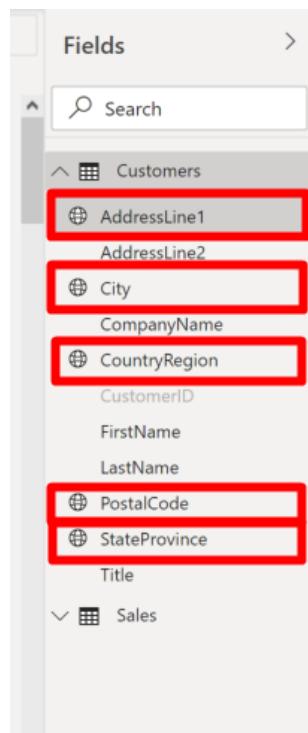
22. Right-click the RevisionNumber column, and click Delete.



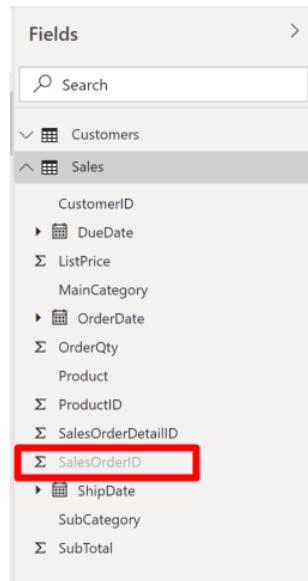
23. In the Delete Column dialog box, click Delete.



24. Realizar el paso 23 y 34 para la columna SalesOrderNumber.
25. Right-click the CustomerID column, and then click Hide in Report View.



26. Realizar el paso 26 para las columnas SalesOrderID y SalesOrderDetailID.



27. On the Modeling ribbon, in the Calculations group, click New Column, and then in the formula bar, type the following expression and press Enter:

**LineTotal = Sales[OrderQty] \* Sales[ListPrice]**

CustomerID	SalesOrderID	SalesOrderDetailID	MainCategory	SubCategory	ProductID	OrderQty	ListPrice	OrderDate	DueDate	ShipDate	SubTotal	LineTotal	
28847	71774	110562	Components	Road Frames	836	ML Road Frame-W - Yellow, 48	1	594.83	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	880.3484	\$594.83
28847	71774	110563	Components	Road Frames	822	ML Road Frame-W - Yellow, 38	1	594.83	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	880.3484	\$594.83
30072	71776	110567	Components	Brakes	907	Rear Brake	1	106.5	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	78.82	\$106.5
30113	71780	110620	Bikes	Mountain Bikes	990	Mountain-500 Black, 42	1	539.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$539.99
30113	71780	110621	Components	Mountain Frames	926	LL Mountain Frame - Black, 42	1	249.79	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$249.79
30113	71780	110622	Components	Mountain Frames	743	HL Mountain Frame - Black, 42	1	1349.6	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$1349.6
30113	71780	110626	Components	Pedals	937	HL Mountain Pedal	1	80.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$80.99
30113	71780	110628	Bikes	Mountain Bikes	985	Mountain-500 Silver, 42	1	564.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$564.99
30113	71780	110631	Bikes	Mountain Bikes	992	Mountain-500 Black, 48	1	539.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$539.99
30113	71780	110640	Components	Handlebars	810	HL Mountain Handlebars	1	120.27	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$120.27
30113	71780	110642	Components	Mountain Frames	925	LL Mountain Frame - Black, 44	1	249.79	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$249.79
30113	71780	110644	Accessories	Hydration Packs	880	Hydration Pack - 70 oz.	1	54.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$54.99
29485	71782	110669	Bikes	Touring Bikes	954	Touring-1000 Yellow, 46	1	2384.07	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$2384.07
29485	71782	110678	Bikes	Touring Bikes	978	Touring-3000 Blue, 44	1	742.35	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$742.35
29485	71782	110679	Bikes	Touring Bikes	955	Touring-1000 Yellow, 50	1	2384.07	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$2384.07
29485	71782	110680	Components	Brakes	948	Front Brake	1	106.5	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$106.5
29485	71782	110681	Components	Bottom Brackets	994	LL Bottom Bracket	1	53.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$53.99
29485	71782	110682	Bikes	Touring Bikes	970	Touring-2000 Blue, 46	1	1214.85	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1214.85
29485	71782	110688	Bikes	Touring Bikes	957	Touring-1000 Yellow, 60	1	2384.07	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$2384.07
29485	71782	110695	Bikes	Touring Bikes	953	Touring-2000 Blue, 60	1	1214.85	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1214.85
29485	71782	110698	Components	Saddles	916	HL Touring Seat/Saddle	1	52.64	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$52.64
29485	71782	110702	Components	Touring Frames	893	HL Touring Frame - Blue, 60	1	1003.91	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1003.91
29485	71782	110705	Clothing	Gloves	859	Half-Finger Gloves, M	1	24.49	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$24.49
29957	71783	110719	Components	Handlebars	813	HL Road Handlebars	1	120.27	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$120.27
29957	71783	110723	Components	Road Frames	822	ML Road Frame-W - Yellow, 38	1	594.83	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$594.83
29957	71783	110724	Components	Road Frames	822	ML Road Frame-W - Yellow, 38	1	594.83	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$594.83
29957	71783	110735	Bikes	Road Bikes	799	Road-550-W Yellow, 42	1	1120.49	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1120.49
29957	71783	110736	Bikes	Road Bikes	798	Road-550-W Yellow, 40	1	1120.49	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1120.49
29957	71783	110746	Clothing	Socks	875	Racing Socks, L	1	8.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$8.99
29736	71784	110759	Bikes	Touring Bikes	959	Touring-3000 Blue, 58	1	742.35	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$742.35
29736	71784	110764	Components	Touring Frames	900	LL Touring Frame - Yellow, 50	1	333.42	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$333.42
29660	71796	111021	Components	Saddles	916	HL Touring Seat/Saddle	1	52.64	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$52.64
29660	71796	111018	Components	Touring Frames	892	HL Touring Frame - Blue, 50	1	1214.85	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1214.85

28. Click the LineTotal column header.

CustomerID	SalesOrderID	SalesOrderDetailID	MainCategory	SubCategory	ProductID	OrderQty	ListPrice	OrderDate	DueDate	ShipDate	SubTotal	LineTotal	
29847	71774	110562	Components	Road Frames	836	ML Road Frame-W - Yellow, 48	1	594.83	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	880.3484	\$594.83
29847	71774	110563	Components	Road Frames	822	ML Road Frame-W - Yellow, 38	1	594.83	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	880.3484	\$594.83
30072	71776	110567	Components	Brakes	907	Rear Brake	1	106.5	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	78.82	\$106.5
30113	71780	110620	Bikes	Mountain Bikes	990	Mountain-500 Black, 42	1	539.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$539.99
30113	71780	110621	Components	Mountain Frames	926	LL Mountain Frame - Black, 42	1	249.79	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$249.79
30113	71780	110622	Components	Mountain Frames	743	HL Mountain Frame - Black, 42	1	1349.6	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$1349.6
30113	71780	110626	Components	Pedals	937	HL Mountain Pedal	1	80.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$80.99
30113	71780	110631	Bikes	Mountain Bikes	985	Mountain-500 Silver, 42	1	564.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$564.99
30113	71780	110631	Bikes	Mountain Bikes	992	Mountain-500 Black, 48	1	539.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$539.99
30113	71780	110640	Components	Handlebars	810	HL Mountain Handlebars	1	120.27	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$120.27
30113	71780	110642	Components	Mountain Frames	925	LL Mountain Frame - Black, 44	1	249.79	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$249.79
30113	71780	110644	Accessories	Hydration Packs	880	Hydration Pack - 70 oz.	1	54.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	38418.6895	\$54.99
29485	71782	110669	Bikes	Touring Bikes	954	Touring-1000 Yellow, 46	1	2384.07	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$2384.07
29485	71782	110678	Bikes	Touring Bikes	978	Touring-3000 Blue, 44	1	742.35	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$742.35
29485	71782	110679	Bikes	Touring Bikes	955	Touring-1000 Yellow, 50	1	2384.07	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$2384.07
29485	71782	110680	Components	Brakes	948	Front Brakes	1	106.5	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$106.5
29485	71782	110681	Components	Bottom Brackets	994	LL Bottom Bracket	1	53.99	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$53.99
29485	71782	110682	Bikes	Touring Bikes	970	Touring-2000 Blue, 46	1	1214.85	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1214.85
29485	71782	110688	Bikes	Touring Bikes	957	Touring-1000 Yellow, 60	1	2384.07	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$2384.07
29485	71782	110695	Bikes	Touring Bikes	963	Touring-3000 Yellow, 54	1	742.35	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$742.35
29485	71782	110695	Bikes	Touring Bikes	953	Touring-2000 Blue, 60	1	1214.85	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1214.85
29485	71782	110699	Components	Saddles	916	HL Touring Seat/Saddle	1	52.64	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$52.64
29485	71782	110700	Components	Touring Frames	886	LL Touring Frame - Yellow, 62	1	333.42	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$333.42
29485	71782	110701	Components	Touring Frames	892	HL Touring Frame - Blue, 54	1	1003.91	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1003.91
29485	71782	110702	Components	Touring Frames	893	HL Touring Frame - Blue, 60	1	1003.91	6/1/2008 12:00:00 AM	6/13/2008 12:00:00 AM	6/8/2008 12:00:00 AM	39785.3304	\$1003.91
29485	71782	110705	Clothing	Gloves	859	Half-Finger Gloves, M	1	24.49	6/1/2008 12:00:00 AM	6/13			

29. On the Modeling ribbon, in the Formatting group, click Format: General, point to Currency, and then click \$ English (United States).

The screenshot shows the Power BI Desktop interface with the 'Modeling' ribbon selected. In the 'Format' dropdown, the 'General' option is currently chosen, while the 'Currency' option is highlighted with a red box. The main area displays a table of sales data with columns like CustomerID, SalesOrderID, SalesOrderDetailID, MainCategory, SubCategory, ProductID, Product, OrderQty, ListPrice, OrderDate, DueDate, ShipDate, SubTotal, and LineTotal.

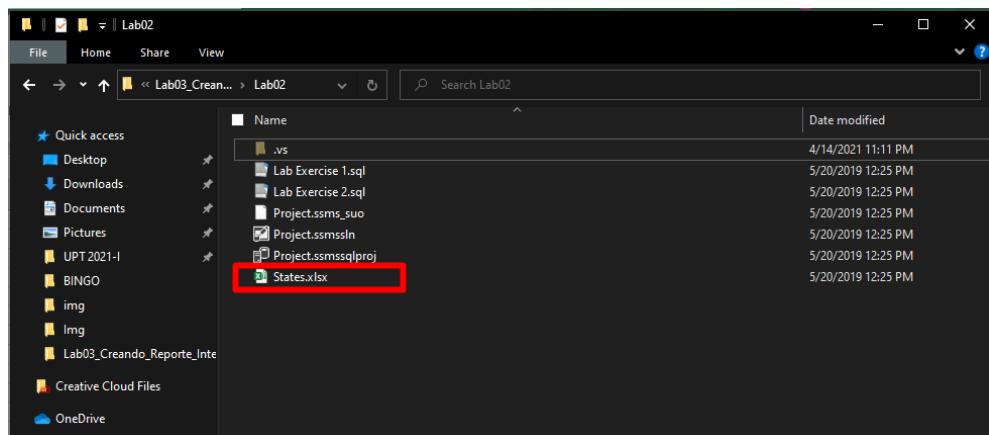
30. On the Modeling ribbon, in the Calculations group, click New Measure, and then in the formula bar, type the following expression and press Enter.

The screenshot shows the Power BI Desktop interface with the 'Modeling' ribbon selected. In the 'Measure tools' tab, a new measure named 'TargetSales' is being defined in the formula bar. The formula is set to `1 TargetSales = SUM('Sales'[LineTotal]) * 1.2`. The 'New measure' button is highlighted with a red box. The main area displays a table of sales data with various columns and rows of data.

31. Click Save, and then leave Power BI Desktop open for the next task.

## Tarea 2: Graficar Datos

1. In File Explorer, and then open the States.xlsx file.

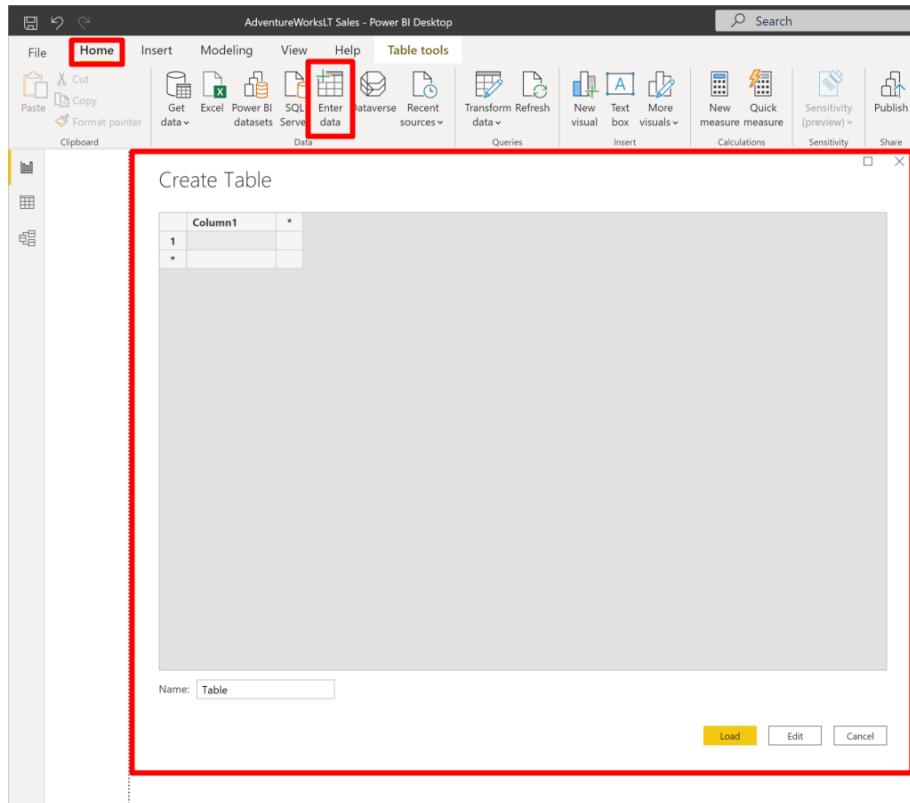


2. In the States worksheet, select all of the values in the two columns, and then press Ctrl+C.

A screenshot of Microsoft Excel showing the 'States' worksheet. The top ribbon menu is visible with options like 'Archivo', 'Inicio', 'Insertar', etc. The main area shows a table with two columns: 'States' and 'SalesYTD'. The first two rows ('States' and 'SalesYTD') have a blue header color. The entire range from A1 to B40 is selected and highlighted with a red border. The rest of the table has white rows.

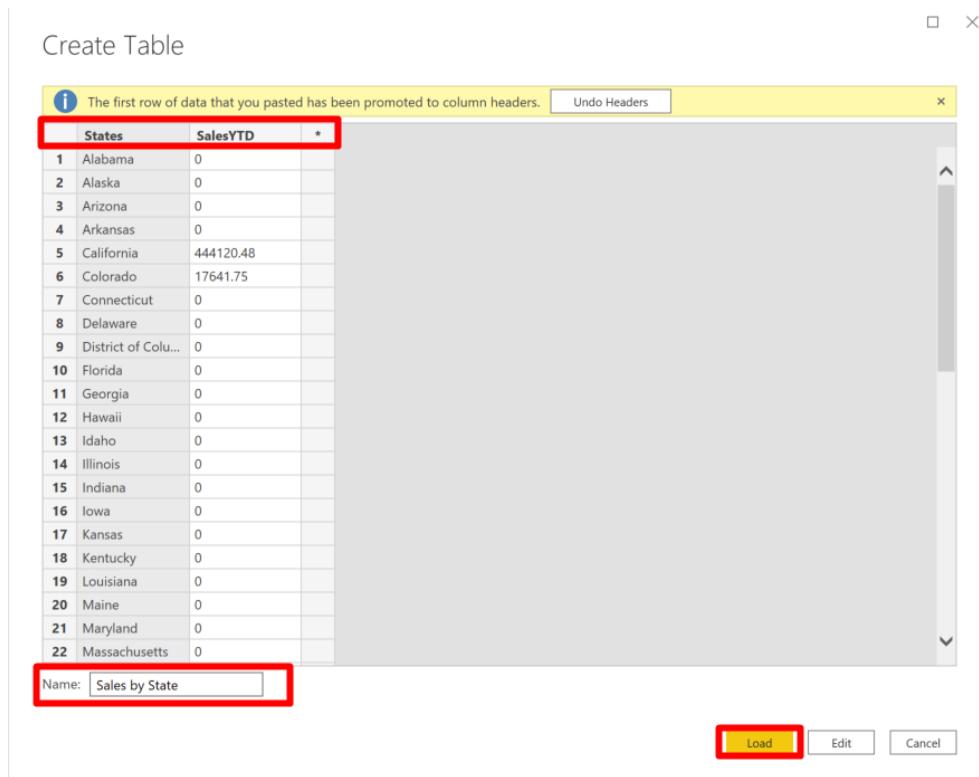
States	SalesYTD
Alabama	0
Alaska	0
Arizona	0
Arkansas	0
California	444120.48
Colorado	17641.75
Connecticut	0
Delaware	0
District of Columbia	0
Florida	0
Georgia	0
Hawaii	0
Idaho	0
Illinois	0
Indiana	0
Iowa	0
Kansas	0
Kentucky	0
Louisiana	0
Maine	0
Maryland	0
Massachusetts	0
Michigan	0
Minnesota	0
Mississippi	0
Missouri	0
Montana	0
Nebraska	0
Nevada	9229.27
New Hampshire	0
New Jersey	0
New Mexico	19214.74
New York	0
North Carolina	0
North Dakota	0
Ohio	0
Oklahoma	0
Oregon	0
Pennsylvania	0

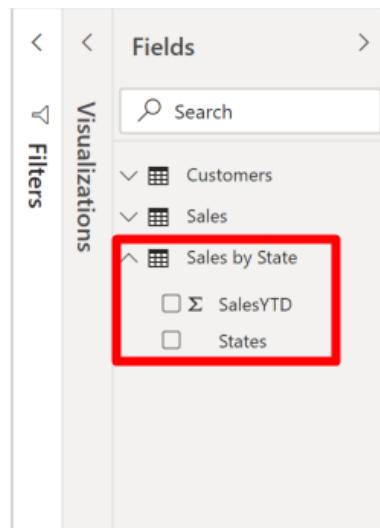
3. In Power BI Desktop, on the Home ribbon, click Enter Data.



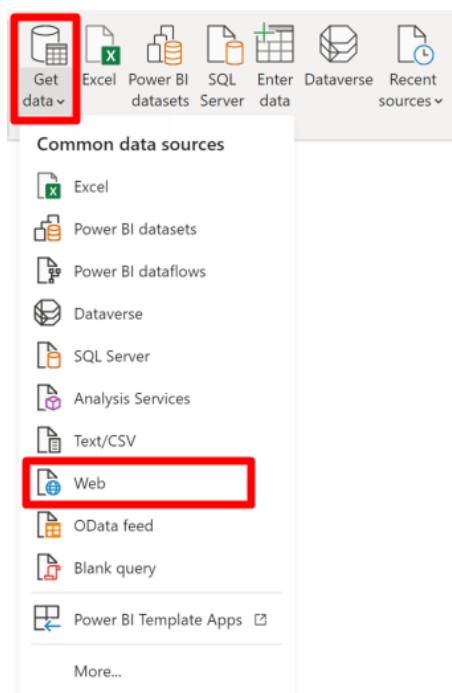
4. In the Create Table dialog box, click in the table, and then press Ctrl+V. Power BI detects that the first row is a column header.

5. In the Name box, type Sales by State, and then click Load.

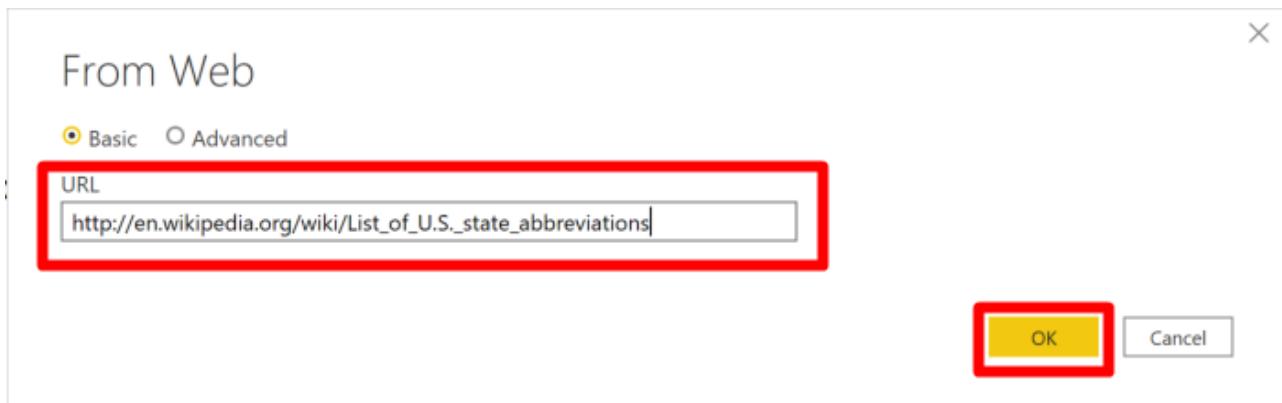




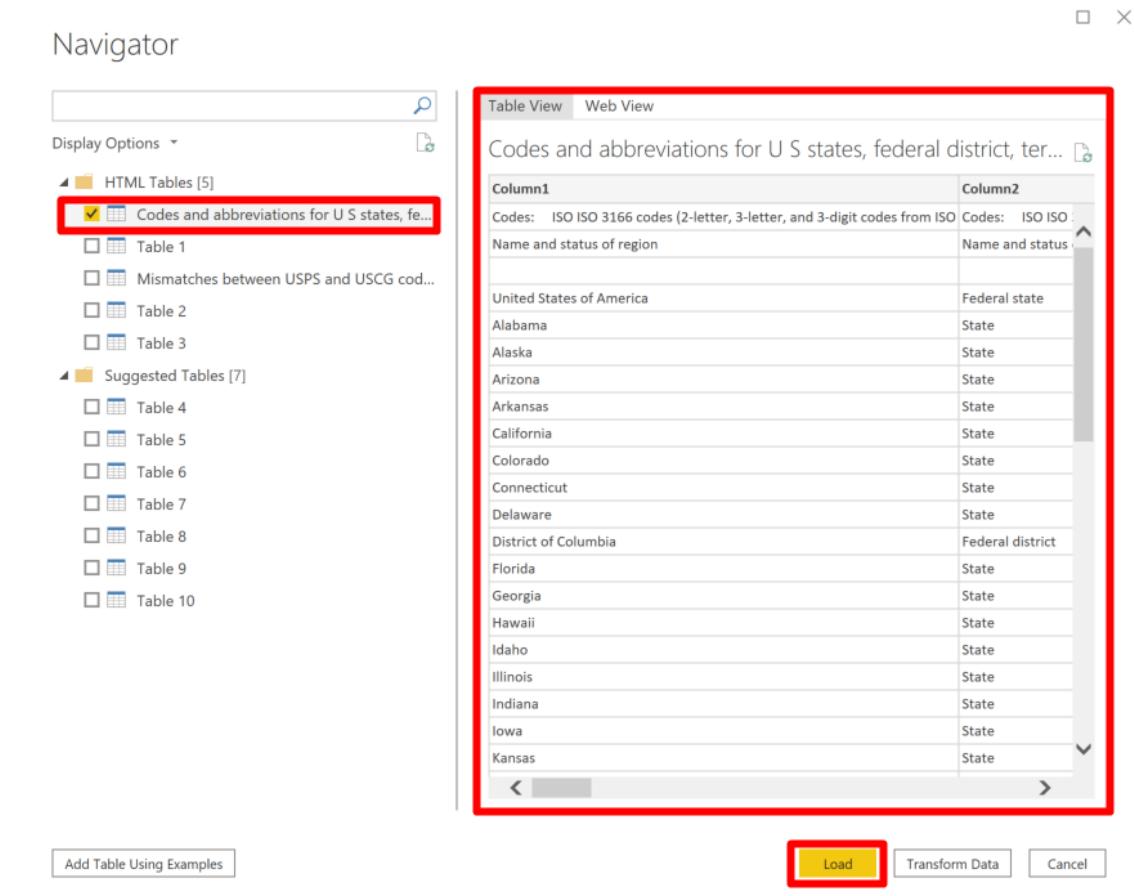
6. On the Home ribbon, click Get Data, and then click Web.



7. In the From Web dialog box, in the URL box type , and then click OK.



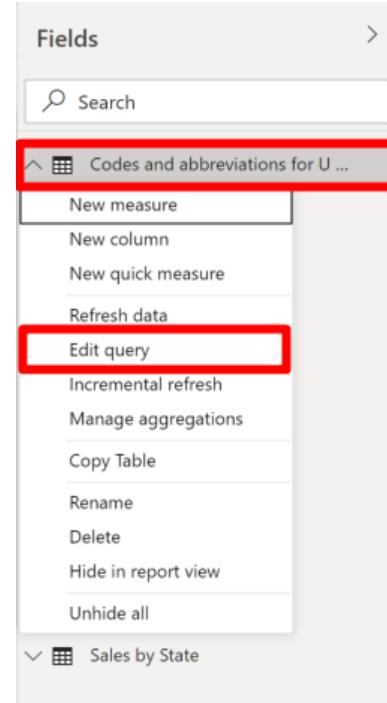
8. In the Navigator dialog box, select Codes and abbreviations for U.S. states, territories and other regions, and then click Load.



9. In the Fields pane, click Codes and abbreviations for U.S. states, territories and other regions to display the data. The table has 26 rows at the bottom that are not needed.

Column1	Column2	Column3	Column4	Column5	Column6
United States of America	Federal state	USUSA840	US	00	AL
Alabama	State	US-AL	AL	01	AZ
Alaska	State	US-AK	AK	02	AR
Arizona	State	US-AZ	AZ	04	CA
Arkansas	State	US-AR	AR	05	CO
California	State	US-CA	CA	06	CT
Colorado	State	US-CO	CO	08	DE
Connecticut	State	US-CT	CT	09	DC
Delaware	State	US-DE	DE	10	FL
District of Columbia	Federal district	US-DC	DC	11	GA
Florida	State	US-FL	FL	12	HI
Georgia	State	US-GA	GA	13	ID
Hawaii	State	US-HI	HI	15	IL
Idaho	State	US-ID	ID	16	IN
Illinois	State	US-IL	IL	17	IA
Indiana	State	US-IN	IN	18	KS
Iowa	State	US-IA	IA	19	KY
Kansas	State	US-KS	KS	20	LA
Kentucky	State	US-KY	KY	21	ME
Louisiana	State	US-LA	LA	22	MD
Maine	State	US-ME	ME	23	MA
Maryland	State	US-MD	MD	24	MI
Massachusetts	State	US-MA	MA	25	MN
Michigan	State	US-MI	MI	26	MS
Minnesota	State	US-MN	MN	27	MO
Mississippi	State	US-MS	MS	28	MT
Missouri	State	US-MO	MO	29	NE
Montana	State	US-MT	MT	30	NV
Nebraska	State	US-NE	NE	31	NH
Nevada	State	US-NV	NV	32	NI
New Hampshire	State	US-NH	NH	33	NM
New Jersey	State	US-NJ	NJ	34	NY
New Mexico	State	US-NM	NM	35	
New York	State	US-NY	NY	36	

10. On the Home ribbon, in the External Data group, click Edit Queries, then click Edit Query.



11. In Query Editor, in the Queries pane, click Codes and abbreviations for U.S. states, territories and other regions.

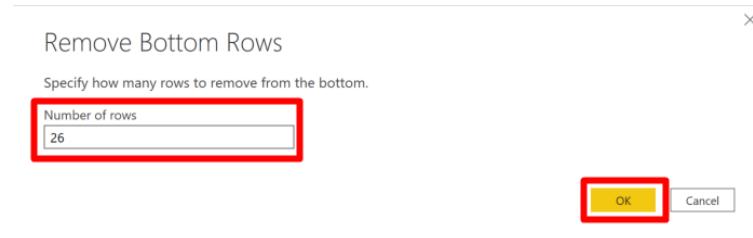
The screenshot shows the Power BI Query Editor interface. The 'Queries [4]' pane on the left has a red box around the 'Codes and abbreviations' entry. The main area displays a table with columns for ISO codes and names of US states and territories. The 'APPLIED STEPS' pane on the right shows a step named 'Changed Type'.

	Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9
1	Codes:	Code							
2	ISO								
3	ISO 3166 codes (2-letter, 3-letter)								
4	United States of America	Federal state	USUSAB40	US	00				U.S.
5	Alabama	State	US-AL	AL	01	AL	AL	AL	Ala.
6	Alaska	State	US-AK	AK	02	AK	AK	AK	Alask.
7	Arizona	State	US-AZ	AZ	04	AZ	AZ	AZ	Ariz.
8	Arkansas	State	US-AR	AR	05	AR	AR	AR	Ark.
9	California	State	US-CA	CA	06	CA	CA	CA	Calif.
10	Colorado	State	US-CO	CO	08	CO	CO	CO	Colo.
11	Connecticut	State	US-CT	CT	09	CT	CT	CT	Conn.
12	Delaware	State	US-DE	DE	10	DE	DE	DE	Del.
13	District of Columbia	Federal district	US-DC	DC	11	DC	DC	DC	D.C.
14	Florida	State	US-FL	FL	12	FL	FL	FL	Fla.
15	Georgia	State	US-GA	GA	13	GA	GA	GA	Ga.
16	Hawaii	State	US-HI	HI	15	HI	HI	HI	Hawai
17	Idaho	State	US-ID	ID	16	ID	ID	ID	Idaho
18	Illinois	State	US-IL	IL	17	IL	IL	IL	Ill.
19	Indiana	State	US-IN	IN	18	IN	IN	IN	Ind.
20	Iowa	State	US-IA	IA	19	IA	IA	IA	Iowa
21	Kansas	State	US-KS	KS	20	KS	KS	KS	Kans.
22	Kentucky	State	US-KY	KY	21	KY	KY	KY	Ky.
23	Louisiana	State	US-LA	LA	22	LA	LA	LA	La.
24	Maine	State	US-ME	ME	23	ME	ME	ME	Maine
25	Maryland	State	US-MD	MD	24	MD	MD	MD	Md.
26	Massachusetts	State	US-MA	MA	25	MA	MA	MA	Mass.
27	Michigan	State	US-MI	MI	26	MI	MI	MI	Mich.
28	Minnesota	State	US-MN	MN	27	MN	MN	MN	Minn.
29	Mississippi	State	US-MS	MS	28	MS	MS	MS	Miss.
30	Missouri	State	US-MO	MO	29	MO	MO	MO	Mo.
31	Montana	State	US-MT	MT	30	MT	MT	MT	Mont.

12. On the Home ribbon, click Reduce Rows, click Remove Rows, and then click Remove Bottom Rows.

The screenshot shows the Power Query Editor interface. The Home ribbon is selected, and the 'Reduce Rows' button is highlighted with a red box. A dropdown menu is open, showing options like 'Remove Top Rows', 'Remove Bottom Rows', 'Remove Alternate Rows', 'Remove Duplicates', 'Remove Blank Rows', and 'Remove Errors'. The 'Remove Bottom Rows' option is also highlighted with a red box.

13. In the Remove Bottom Rows dialog box, in the Number of rows box, type 26, and then click OK.



The screenshot shows the Power Query Editor with the 'Applied Steps' pane open on the right side. The pane lists steps taken during the query process, with a red box highlighting the 'Removed Bottom Rows' step. The main area shows a table of state abbreviations and names, and the 'Query Settings' pane on the far right shows the query name 'Codes and abbreviations...'.

14. Click the ANSI2 column header, and then hold down the Ctrl key while selecting all of the columns to the right. This selects multiple rows.

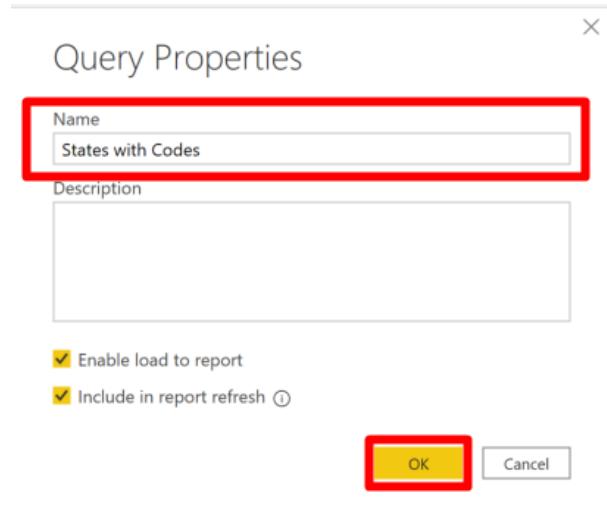
15. Still holding down Ctrl, click the Name and status of region2 and Header columns to include this in the selection.

16. On the Home ribbon, click Manage Columns, click Remove Columns, and then click Remove Columns.

The screenshot shows the Power Query Editor interface. The Home ribbon is active, and the 'Manage Columns' button is highlighted with a red box. A context menu is open over the 'Codes and abbreviations' query, with the 'Remove Columns' option also highlighted with a red box. The main pane displays a table of state abbreviations and their ISO codes. The Query Settings pane on the right shows properties like 'Name' and 'Applied Steps'.

17. In the Query Settings pane, under Properties, in the Name box, type States with Codes, and then press Enter.

The screenshot shows the Power Query Editor interface. The context menu for the 'Codes and abbreviations' query is open, and the 'Properties...' option is highlighted with a red box. The main pane shows the 'Codes and abbreviations' query with its current settings. The Query Settings pane on the right is visible.



18. On the Home ribbon, in the Transform group, click Use First Row as Headers.
19. Right-click the United States of America column header, click Rename, type State Name, and then press Enter.

The screenshot shows the Power Query Editor interface with the following details:

- File**: Close & Apply, Close, New Query
- Home**: Recent Sources, Enter Data, Data source settings, Manage Parameters, Refresh, Preview, Properties, Advanced Editor, Manage, Choose Columns, Remove Columns, Keep Rows, Remove Rows, Reduce Rows
- Transform**: (selected)
- Add Column**
- View**
- Tools**
- Help**

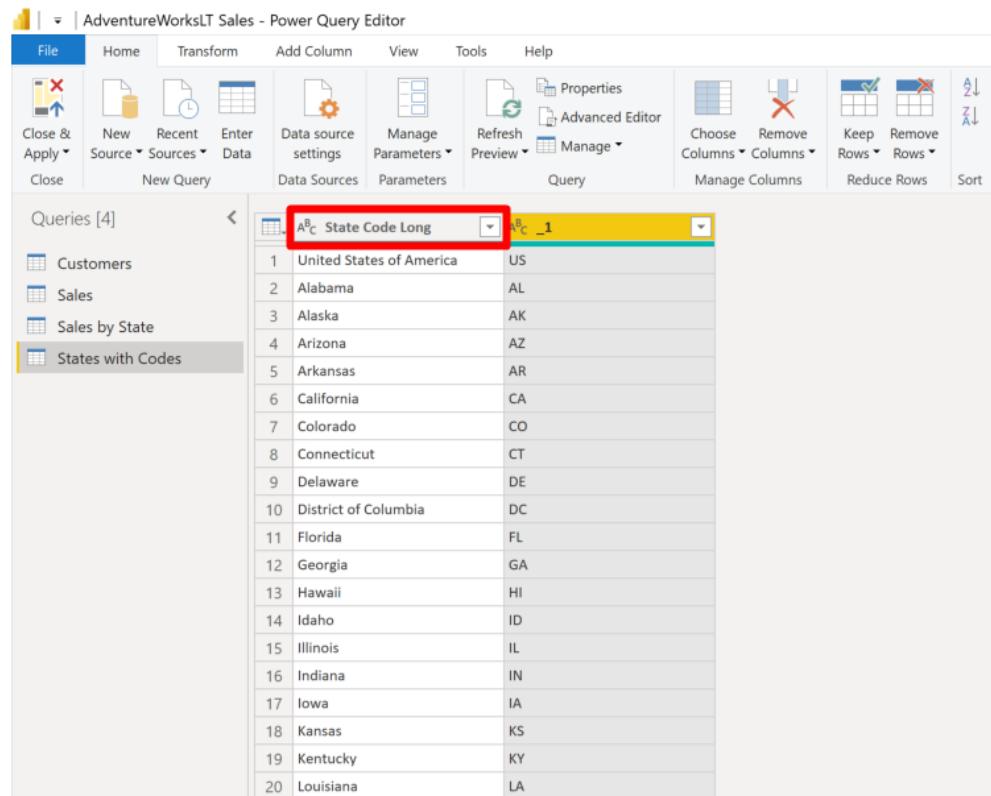
**Queries [4]** list:

- Customers
- Sales
- Sales by State
- States with Codes (selected)

**Contextual Menu (Open over first column):**

- Copy
- Remove
- Remove Other Columns
- Duplicate Column
- Add Column From Examples...
- Remove Duplicates
- Remove Errors
- Change Type
- Transform
- Replace Values...
- Replace Errors...
- Split Column
- Group By...
- Fill
- Unpivot Columns
- Unpivot Other Columns
- Unpivot Only Selected Columns
- Rename... (highlighted with a red box)
- Move
- Drill Down
- Add as New Query

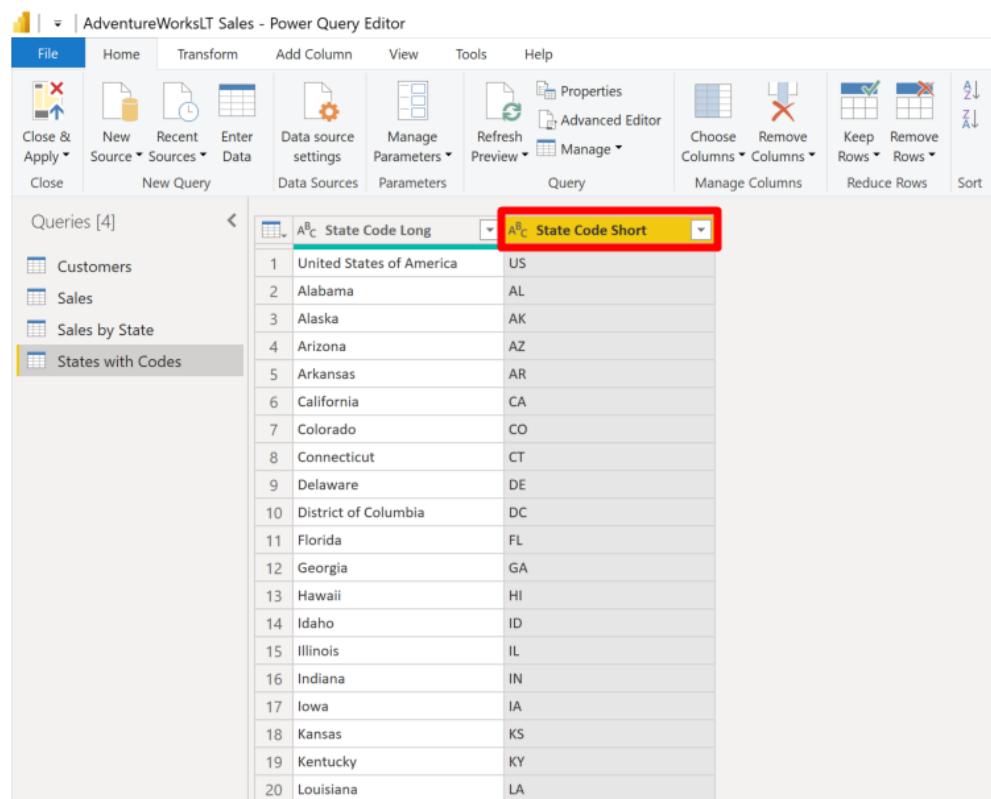
20. Right-click the US USA 840 column header, click Rename, type State Code Long, and then press Enter.



The screenshot shows the Power Query Editor interface with the title bar "AdventureWorksLT Sales - Power Query Editor". The ribbon menu includes File, Home, Transform, Add Column, View, Tools, and Help. The "Home" tab is selected. The "Manage Columns" section of the ribbon has "Choose Columns" and "Remove Columns" buttons. The main area displays a table titled "Queries [4]" with one item: "States with Codes". The table contains 20 rows of state information. The first column is labeled "A<sup>b</sup> State Code Long" and the second column is labeled "A<sup>b</sup> \_1". The "US" column header is highlighted with a red box. The data table is as follows:

	A <sup>b</sup> State Code Long	A <sup>b</sup> _1
1	United States of America	US
2	Alabama	AL
3	Alaska	AK
4	Arizona	AZ
5	Arkansas	AR
6	California	CA
7	Colorado	CO
8	Connecticut	CT
9	Delaware	DE
10	District of Columbia	DC
11	Florida	FL
12	Georgia	GA
13	Hawaii	HI
14	Idaho	ID
15	Illinois	IL
16	Indiana	IN
17	Iowa	IA
18	Kansas	KS
19	Kentucky	KY
20	Louisiana	LA

21. Right-click the US column header, click Rename, type State Code Short, and then press Enter.



The screenshot shows the Power Query Editor interface with the title bar "AdventureWorksLT Sales - Power Query Editor". The ribbon menu includes File, Home, Transform, Add Column, View, Tools, and Help. The "Home" tab is selected. The "Manage Columns" section of the ribbon has "Choose Columns" and "Remove Columns" buttons. The main area displays a table titled "Queries [4]" with one item: "States with Codes". The table contains 20 rows of state information. The first column is labeled "A<sup>b</sup> State Code Long" and the second column is labeled "A<sup>b</sup> State Code Short". The "US" column header is highlighted with a red box. The data table is as follows:

	A <sup>b</sup> State Code Long	A <sup>b</sup> State Code Short
1	United States of America	US
2	Alabama	AL
3	Alaska	AK
4	Arizona	AZ
5	Arkansas	AR
6	California	CA
7	Colorado	CO
8	Connecticut	CT
9	Delaware	DE
10	District of Columbia	DC
11	Florida	FL
12	Georgia	GA
13	Hawaii	HI
14	Idaho	ID
15	Illinois	IL
16	Indiana	IN
17	Iowa	IA
18	Kansas	KS
19	Kentucky	KY
20	Louisiana	LA

22. In the Queries pane, click Sales by State.

The screenshot shows the Power Query Editor interface. The ribbon at the top has tabs for File, Home, Transform, Add Column, View, Tools, and Help. The Home tab is selected. The ribbon icons include Close & Apply, New Source, Recent Sources, Enter Data, Data source settings, Manage Parameters, Refresh Preview, Properties, Advanced Editor, Choose Columns, Remove Columns, Keep Rows, Remove Rows, Reduce Rows, and Sort. The main area is divided into two panes. The left pane, titled 'Queries [4]', lists four queries: Customers, Sales, Sales by State (which is highlighted with a red box), and States with Codes. The right pane displays a table with 20 rows, each representing a state and its total sales YTD. The columns are labeled 'States' and '1.2 SalesYTD'. The data shows that most states have 0 sales, except for California which has 444120.48 and Colorado which has 17641.75.

States	1.2 SalesYTD
Alabama	0
Alaska	0
Arizona	0
Arkansas	0
California	444120.48
Colorado	17641.75
Connecticut	0
Delaware	0
District of Columbia	0
Florida	0
Georgia	0
Hawaii	0
Idaho	0
Illinois	0
Indiana	0
Iowa	0
Kansas	0
Kentucky	0
Louisiana	0
Maine	0

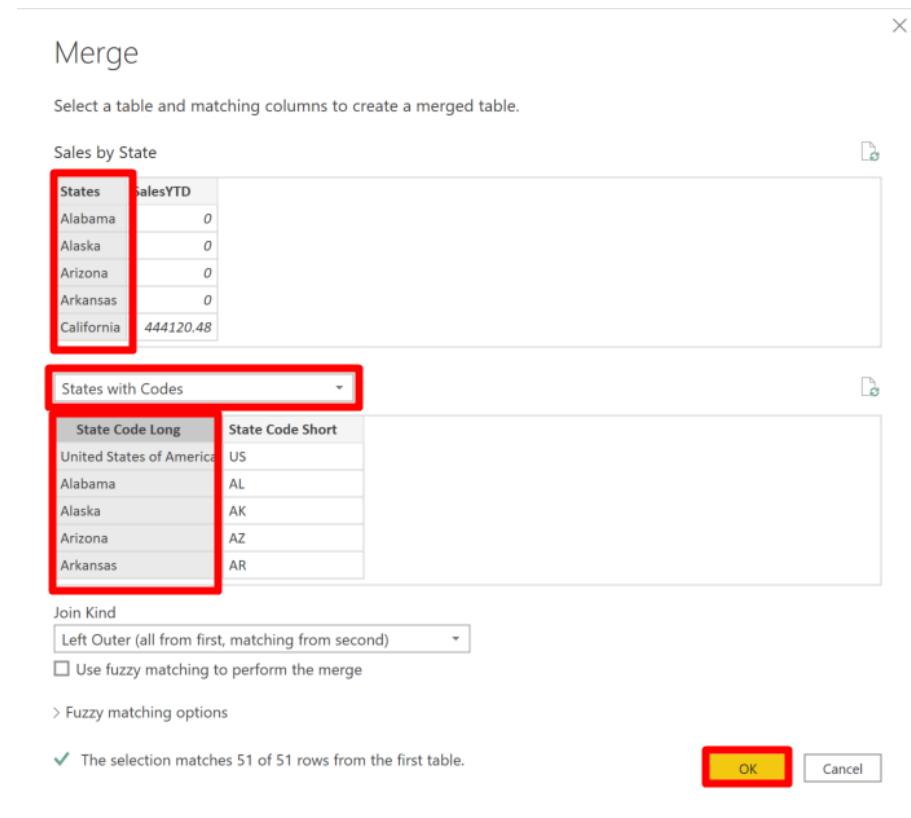
23. On the Home ribbon, click Combine, and then click Merge Queries.

This screenshot shows the Power Query Editor with the same interface as the previous one. The ribbon is identical, with the Home tab selected. The 'Merge Queries' button is highlighted with a red box in the ribbon's Transform section. The 'Queries [4]' pane on the left shows the 'Sales by State' query selected. The main pane displays the same table of state sales data as the previous screenshot.

States	1.2 SalesYTD
Alabama	0
Alaska	0
Arizona	0
Arkansas	0
California	444120.48
Colorado	17641.75
Connecticut	0
Delaware	0
District of Columbia	0
Florida	0
Georgia	0
Hawaii	0
Idaho	0
Illinois	0
Indiana	0
Iowa	0
Kansas	0
Kentucky	0
Louisiana	0

24. In the Merge dialog box, in the Sales by State table, click the States column.

25. In the list, click States with Codes, click the State Name column, and then click OK. The new column is added to the table and contains the merged States with Codes table.



26. In the column header, click the Expand icon, clear (Select All Columns), select State Code Short, and then click OK. The column now shows just the state codes.

The screenshot shows the Power Query Editor interface with the 'States' query selected in the Queries list. A context menu is open over the 'State' column header, displaying options like 'Expand', 'Aggregate', 'Select All Columns', 'State Code Long', and 'State Code Short'. The 'State Code Short' option is checked and highlighted with a red box. The 'OK' button at the bottom right of the dialog is also highlighted with a red box.

The screenshot shows the Power Query Editor interface with the 'States' query selected in the Queries list. The 'State' column has been expanded, showing the state codes (e.g., AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD) instead of the full state names. A red box highlights the expanded column.

27. Right-click the column, click Rename, type State Code, and then press Enter.

The screenshot shows the Power Query Editor interface with the title bar "AdventureWorksLT Sales - Power Query Editor". The ribbon menu is visible with tabs like File, Home, Transform, etc. On the left, there's a list of queries: Customers, Sales, Sales by State (which is selected and highlighted with a yellow background), and States with Codes. The main area displays the "Sales by State" query results in a table format. The columns are labeled "A-C States" (containing state names), "1.2 SalesYTD" (containing sales values), and "A-B-C State Code" (containing state abbreviations). The "State Code" column is currently selected, indicated by a red border around its header cell.

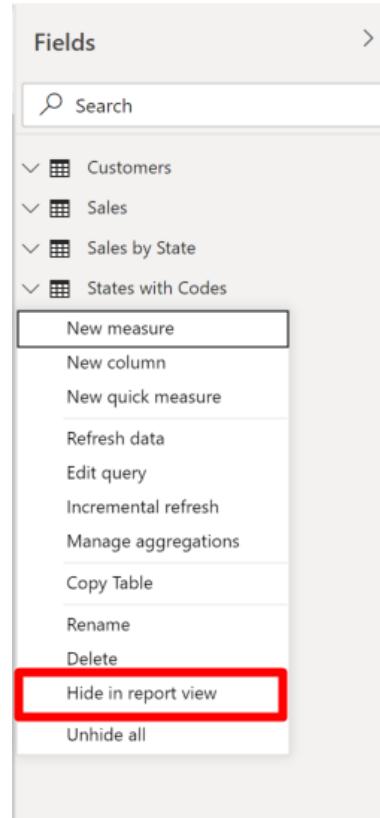
A-C States	1.2 SalesYTD	A-B-C State Code
1 Alabama	0	AL
2 Alaska	0	AK
3 Arizona	0	AZ
4 Arkansas	0	AR
5 California	444120.48	CA
6 Colorado	17641.75	CO
7 Connecticut	0	CT
8 Delaware	0	DE
9 District of Columbia	0	DC
10 Florida	0	FL
11 Georgia	0	GA
12 Hawaii	0	HI
13 Idaho	0	ID
14 Illinois	0	IL
15 Indiana	0	IN
16 Iowa	0	IA
17 Kansas	0	KS
18 Kentucky	0	KY

28. On the File menu, click Close & Apply.

The screenshot shows the Power Query Editor interface with the title bar "AdventureWorksLT Sales - Power Query Editor". The ribbon menu is visible with the "File" tab selected and highlighted with a blue background. The "File" menu contains several options: Close & Apply (which is highlighted with a red border), Apply, Close, Save, Save As, Options and settings, and Help. To the right of the menu, the "Sales by State" query results are displayed in a table format, identical to the one in the previous screenshot. The "State Code" column is selected and highlighted with a red border.

A-C States	1.2 SalesYTD	A-B-C State Code
1 Alabama	0	AL
2 Alaska	0	AK
3 Arizona	0	AZ
4 Arkansas	0	AR
5 California	444120.48	CA
6 Colorado	17641.75	CO
7 Connecticut	0	CT
8 Delaware	0	DE
9 District of Columbia	0	DC
10 Florida	0	FL
11 Georgia	0	GA
12 Hawaii	0	HI
13 Idaho	0	ID
14 Illinois	0	IL
15 Indiana	0	IN
16 Iowa	0	IA
17 Kansas	0	KS
18 Kentucky	0	KY

29. In the Fields pane, right-click States with Codes, and then click Hide in Report View.



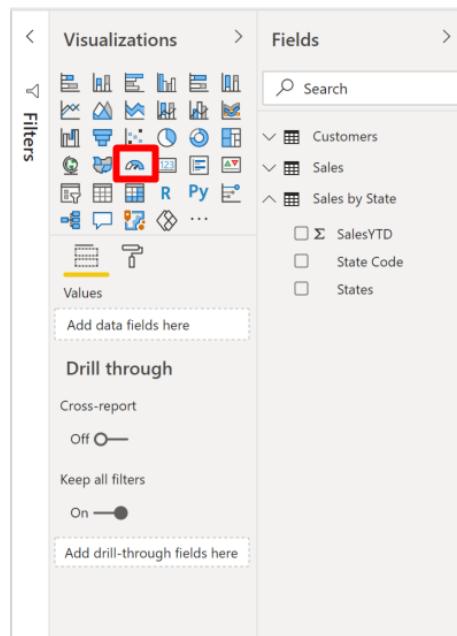
## 4.2. Ejercicio 2: Construyendo Reportes en Power BI

### Tarea 1: Crear un Gráfico

1. En Power BI Desktop, en la barra derecha de navegación, hacer click en Reporte (Report).

The screenshot shows the Power BI Desktop application window. The ribbon at the top has 'Home' selected. The main canvas area displays the message 'Build visuals with your data' and 'Select or drag fields from the Fields pane onto the report canvas.' On the left, there's a ribbon bar with icons for Cut, Copy, Paste, Get data, Data, Queries, Insert, Modeling, View, Help, and Share. On the right, the 'Fields' pane is open, showing the 'Visualizations' section with items like 'Customers', 'Sales', 'Sales by State', 'SalesYTD', 'State Code', and 'States'. The 'Sales by State' item is currently expanded.

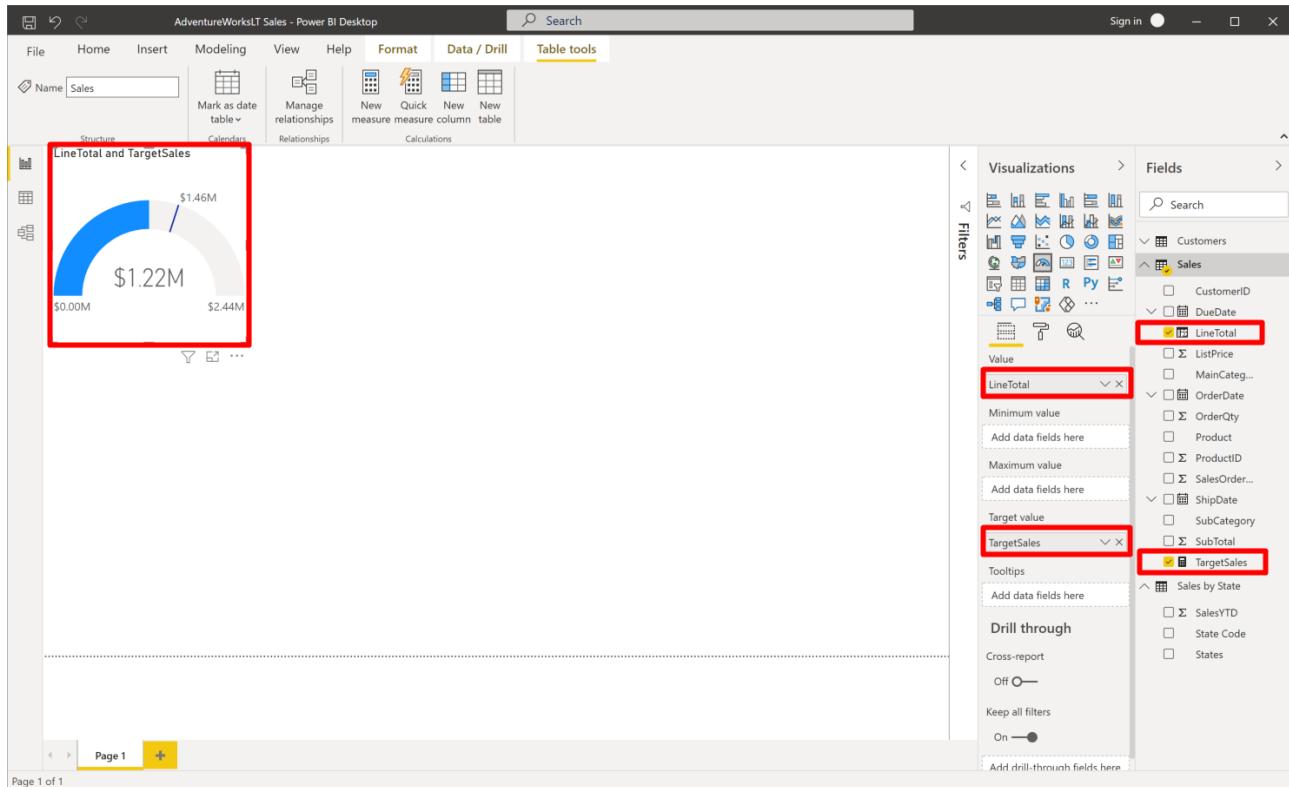
2. En el panel de Visualizaciones (Visualizations), hacer click en Gauge.



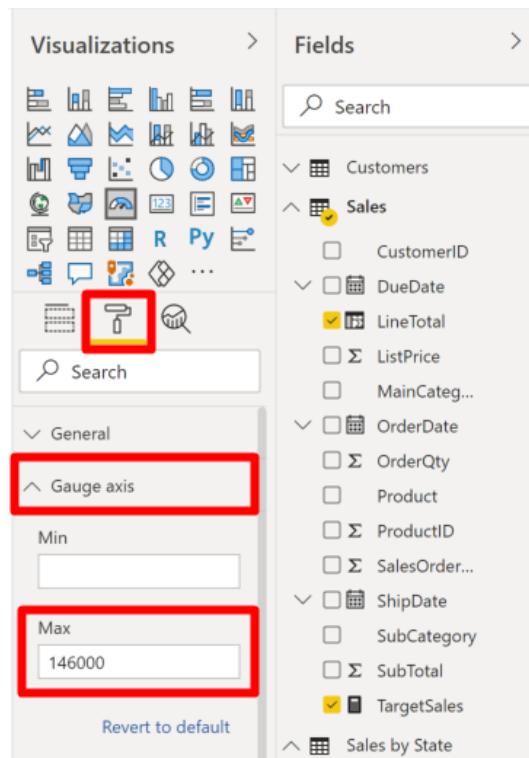
3. Arrastar el campo LineTotal de la table Sales a la propiedad Valor (Value) del objeto gauge.

A screenshot of the Power BI Desktop application window. The title bar says 'AdventureWorksLT Sales - Power BI Desktop'. The ribbon menu is visible with tabs like File, Home, Insert, Modeling, View, Help, Format, Data / Drill, and Table tools. The 'Table tools' tab is currently selected. In the main workspace, there's a gauge visual. A red box highlights the entire gauge visual and its selection border. A tooltip message 'Select or drag fields to populate this visual' is displayed above the gauge. On the left side, there's a vertical ribbon bar with icons for Structure, Calendar, Relationships, and Calculations.

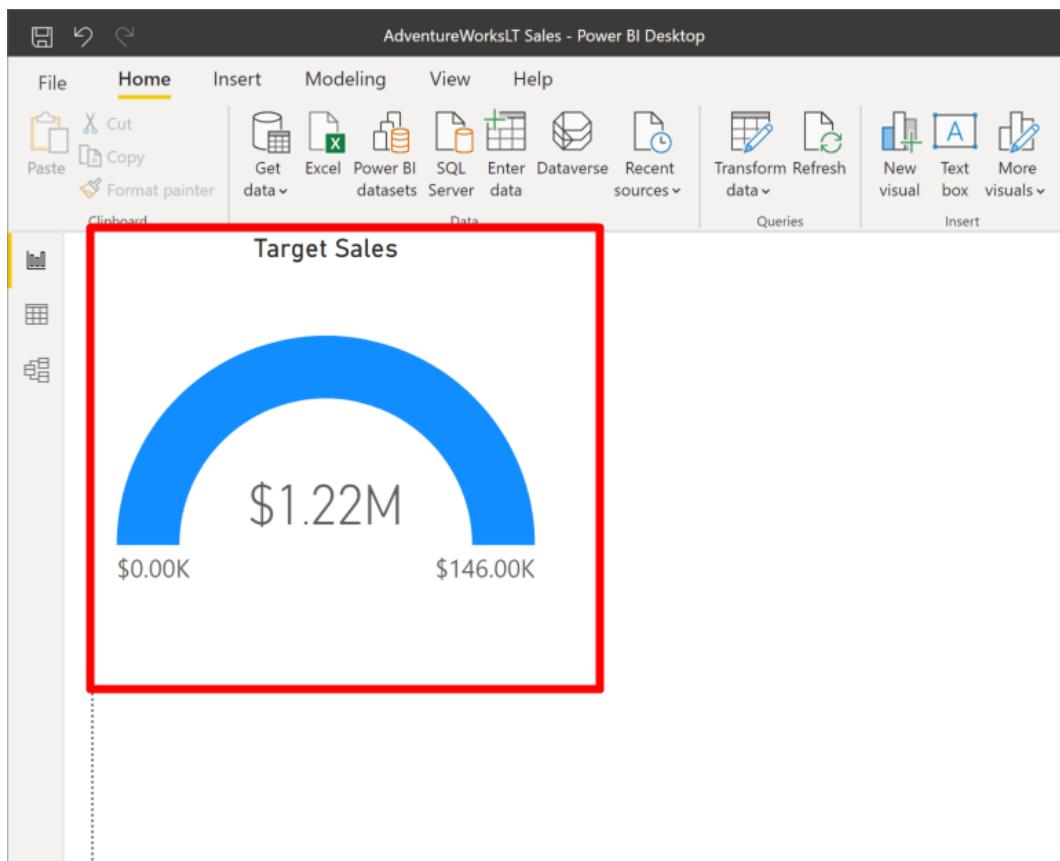
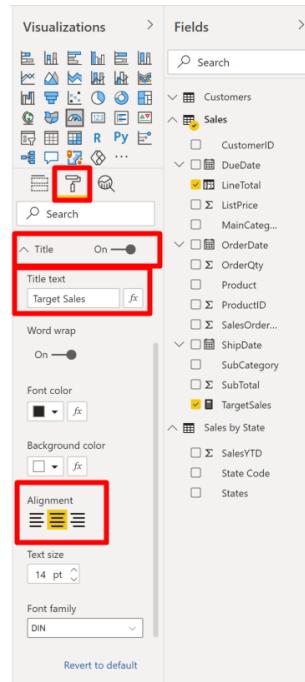
4. Arrastrar la medida TargetSales de la table Sales a la propiedad Valor destino (Target value) del objeto gauge.



5. Hacer click Format, expandir Gauge axis, and then in the Max box, type 146000.



6. Expandir Titulo (Title), en el cuadro Texto de Titulo (Title Text), tipar Meta de Ventas (Target Sales), y luego hacer click en Center.



7. Click the report canvas, and then drag the CompanyName field from the Customers table onto the report. Power BI automatically creates a table.

The screenshot shows the Power BI Desktop interface with the 'AdventureWorksLT Sales' dataset loaded. On the left, there's a 'Target Sales' gauge visualization with a value of '\$1.22M'. A red box highlights a dropdown menu that has opened over the gauge. This menu lists various company names from the 'Customers' table, such as 'A Bike Store', 'A Great Bicycle Company', and 'Action Bicycle Specialists'. On the right side of the screen, the 'Fields' pane is open, showing the structure of the 'Customers' table. The 'CompanyName' field is selected and highlighted with a red box. Other fields listed include AddressLine1, AddressLine2, City, CountryRegionCode, FirstName, FullName, LastName, PostalCode, StateProvince, and Title.

8. Arrastar el LineTotal campo de la tabla Sales sobre el informe.

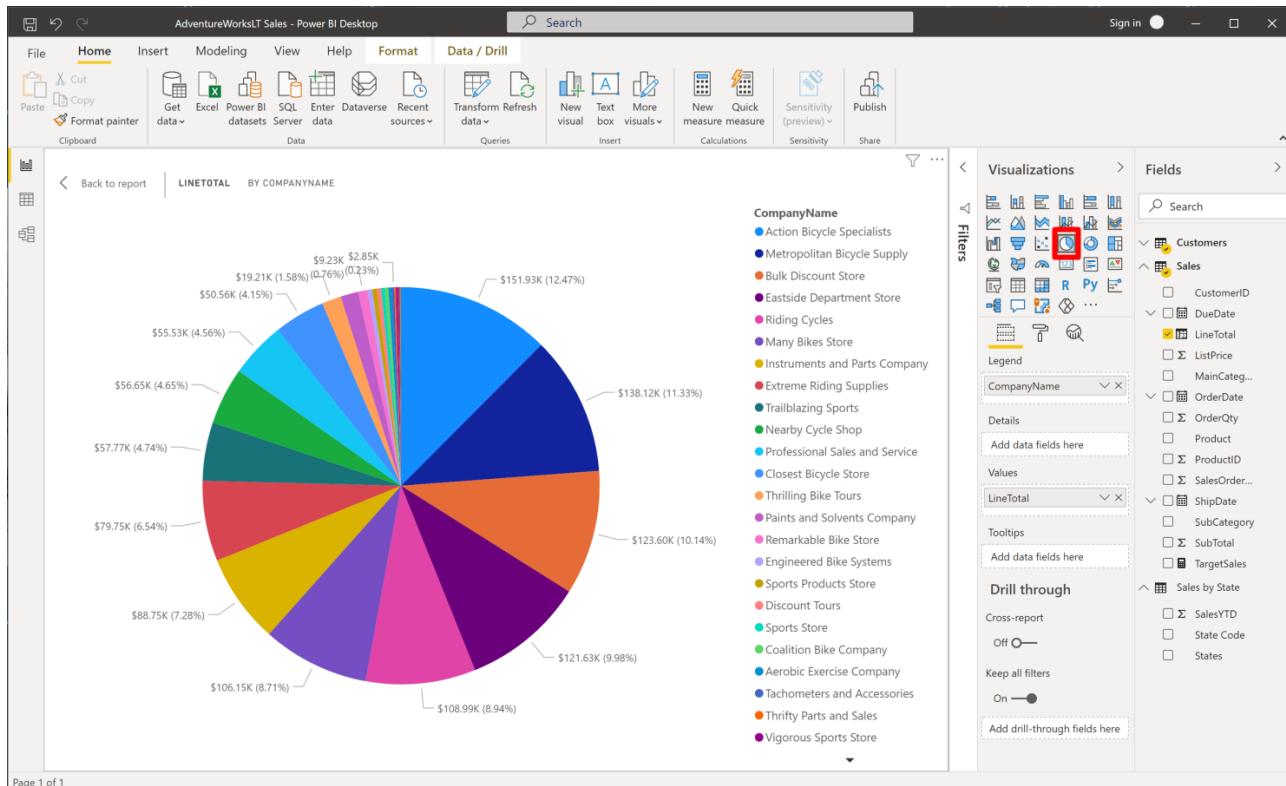
The screenshot shows the Power BI Desktop interface with the 'AdventureWorksLT Sales' dataset loaded. On the left, there's a 'Target Sales' gauge visualization with a value of '\$1.22M'. A red box highlights a table view that has been placed on the report canvas. This table contains two columns: 'CompanyName' and 'LineTotal'. The data in the table includes various company names and their corresponding LineTotal values, such as Action Bicycle Specialists (\$151,932.58), Aerobic Exercise Company (\$2,888.15), Bulk Discount Store (\$123,600.38), Central Bicycle Specialists (\$52.64), Channel Outlet (\$874.44), Closest Bicycle Store (\$50,559.01), Coalition Bike Company (\$3,545.67), Discount Tours (\$4,211.88), Eastside Department Store (\$121,625.43), Engineered Bike Systems (\$4,745.68), Essential Bike Works (\$6,293), Extreme Riding Supplies (\$79,746.71), Futuristic Bikes (\$368.76), and Good Toys (\$1,189.66). A red box also highlights the 'Sales' folder in the 'Fields' pane on the right, which contains the 'LineTotal' field. Other fields in the 'Sales' folder include CustomerID, DueDate, and OrderID.

9. Make sure that the table has focus, and then in the Visualizations pane, click Pie chart.

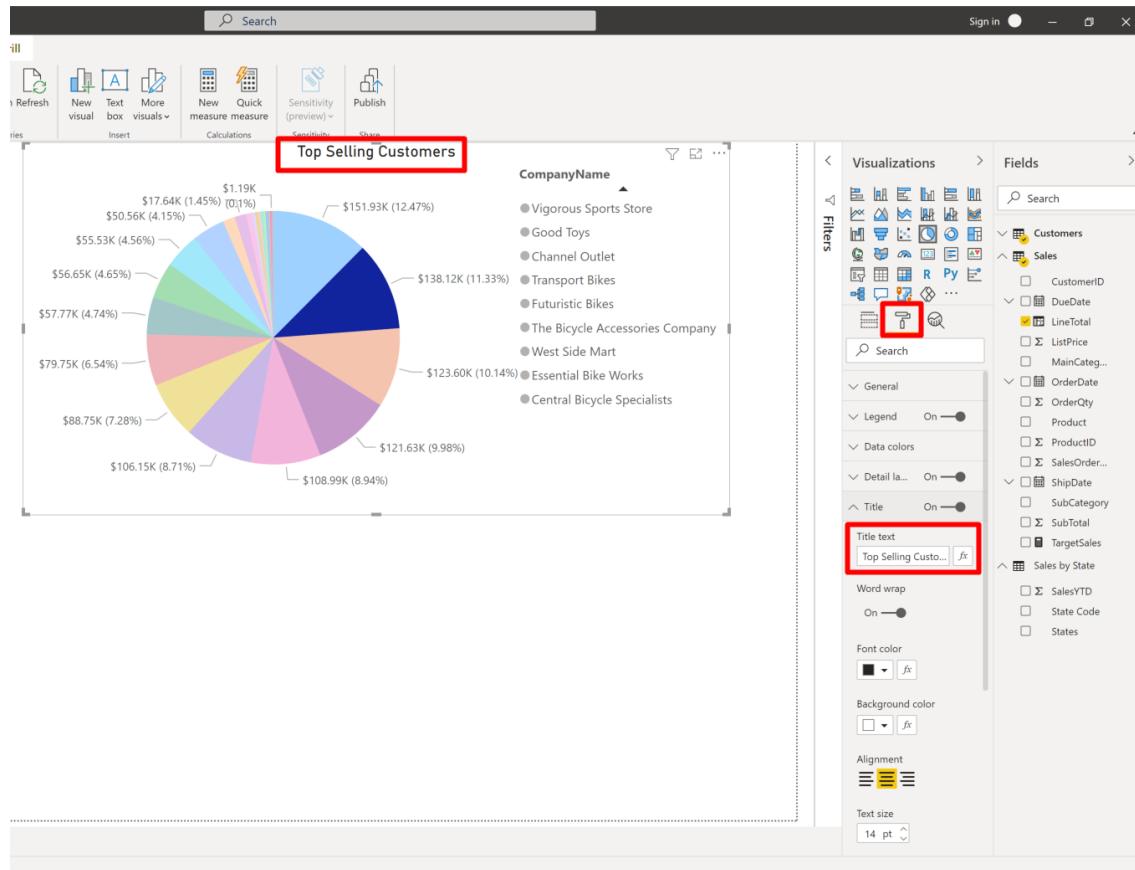
CompanyName	LineTotal
Action Bicycle Specialists	\$151,932.58
Aerobic Exercise Company	\$2,888.15
Bulk Discount Store	\$123,600.38
Central Bicycle Specialists	\$52.64
Channel Outlet	\$874.44
Closest Bicycle Store	\$50,559.01
Coalition Bike Company	\$3,545.67
Discount Tours	\$4,211.88
Eastside Department Store	\$121,625.43
Engineered Bike Systems	\$4,745.68
Essential Bike Works	\$62.93
Extreme Riding Supplies	\$79,746.71
Futuristic Bikes	\$368.76
Good Toys	\$1,189.66
<b>Total</b>	<b>\$1,218,618.27</b>



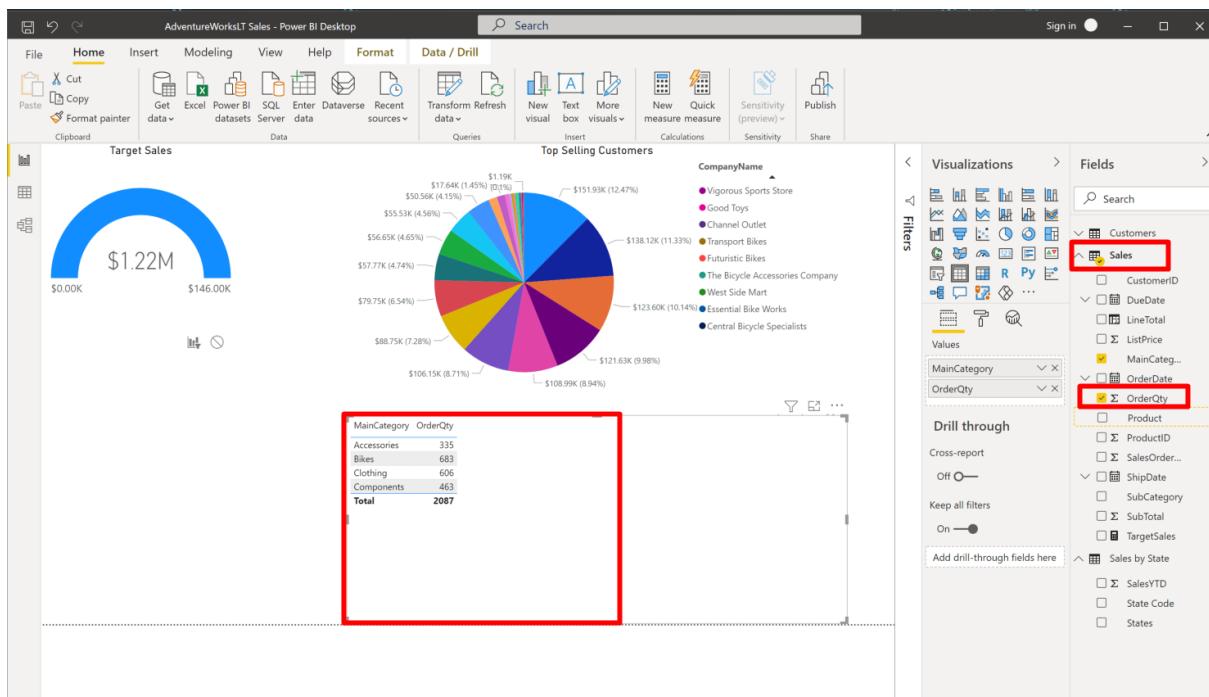
10. Expand the chart to make all of the company names visible by using the resizer handles on the edge of the chart.



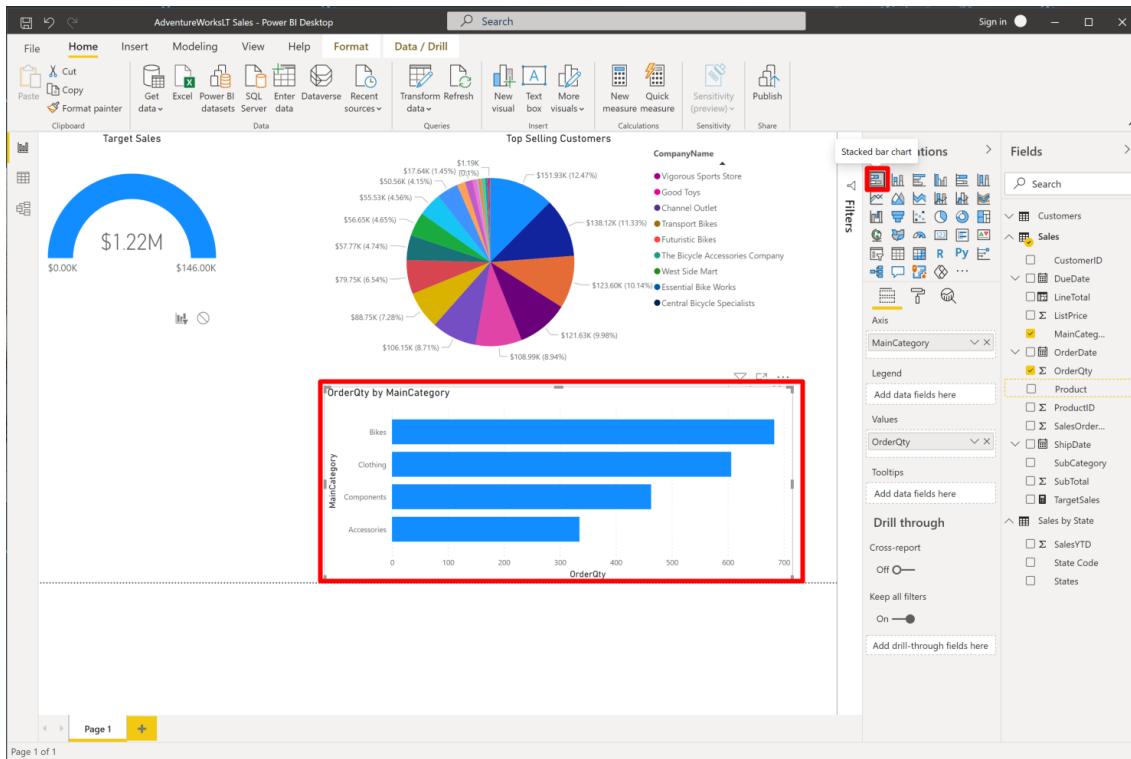
11. With the focus still on the pie chart, click Format, and then expand Title.  
 12. In the Title Text box, type Top Selling Customers, and then click Center.



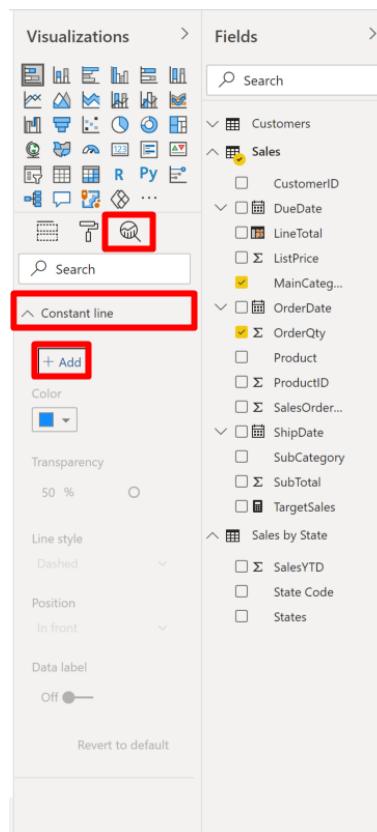
13. Arrastar el campo MainCategory de la tabla Sales table onto the report canvas. Power BI creates a table.



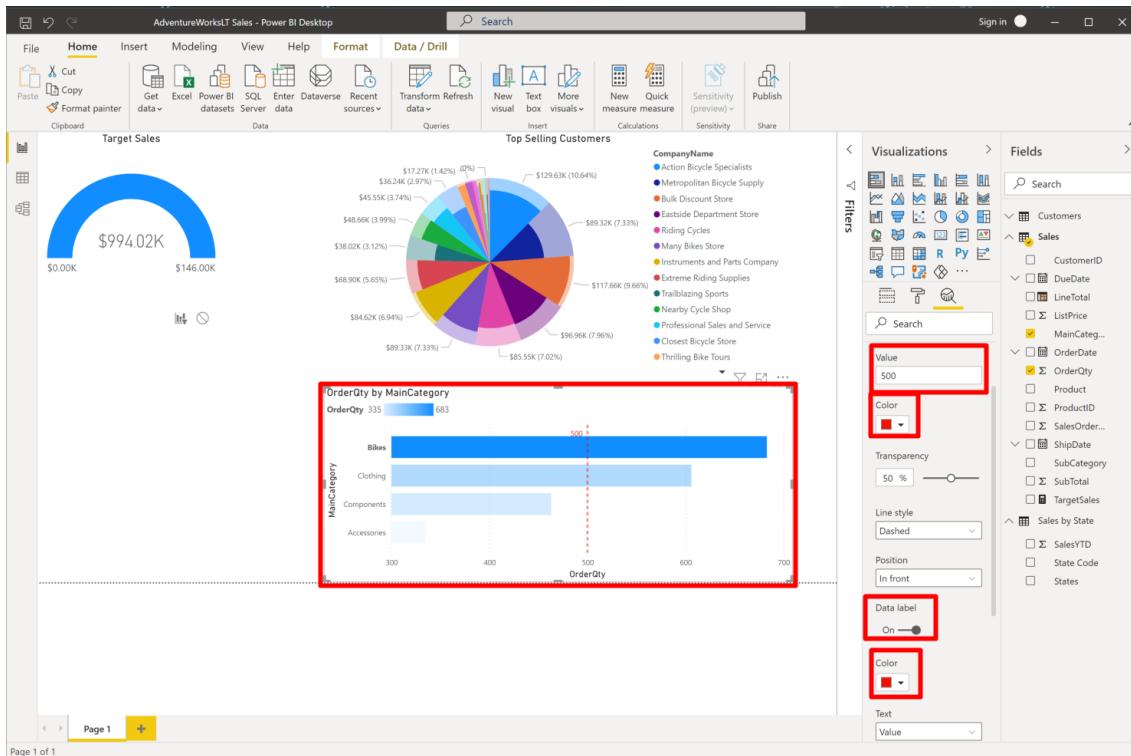
14. Arrastar el campo OrderQty dentro de la tabla.  
 15. In the Visualizations pane, click Stacked bar chart.



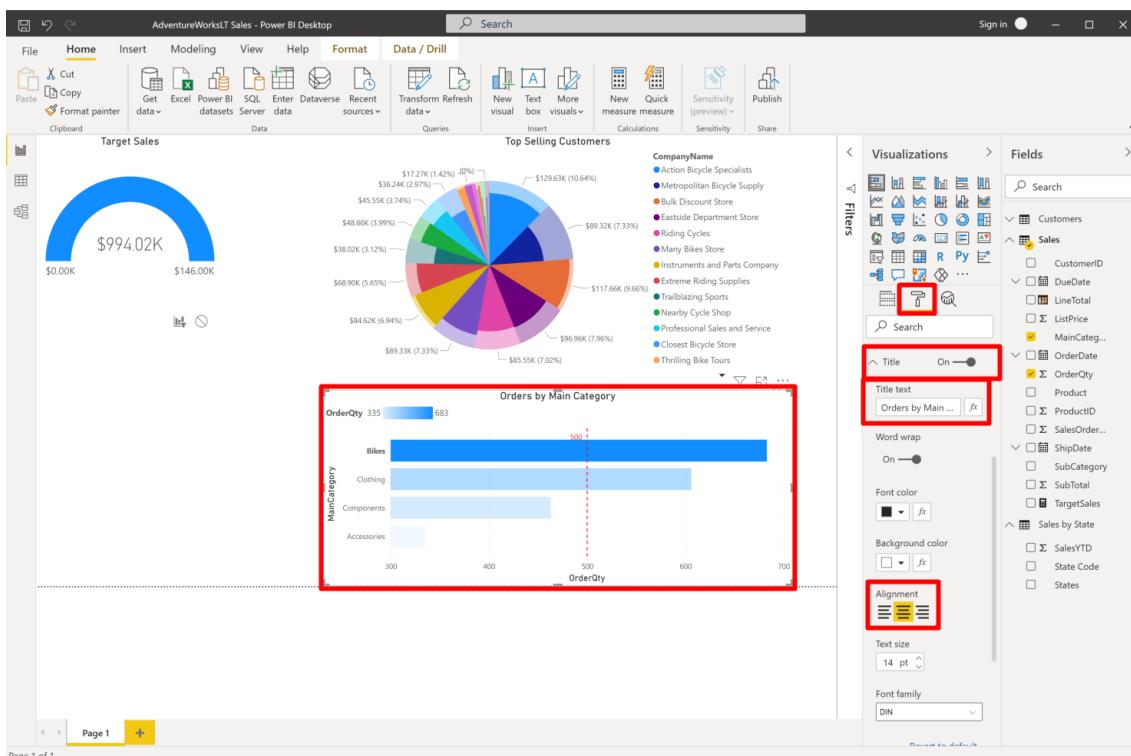
16. In the Visualizations pane, click Fields.  
 17. Drag the OrderQty field onto the Color saturation property. Notice that the colors change.



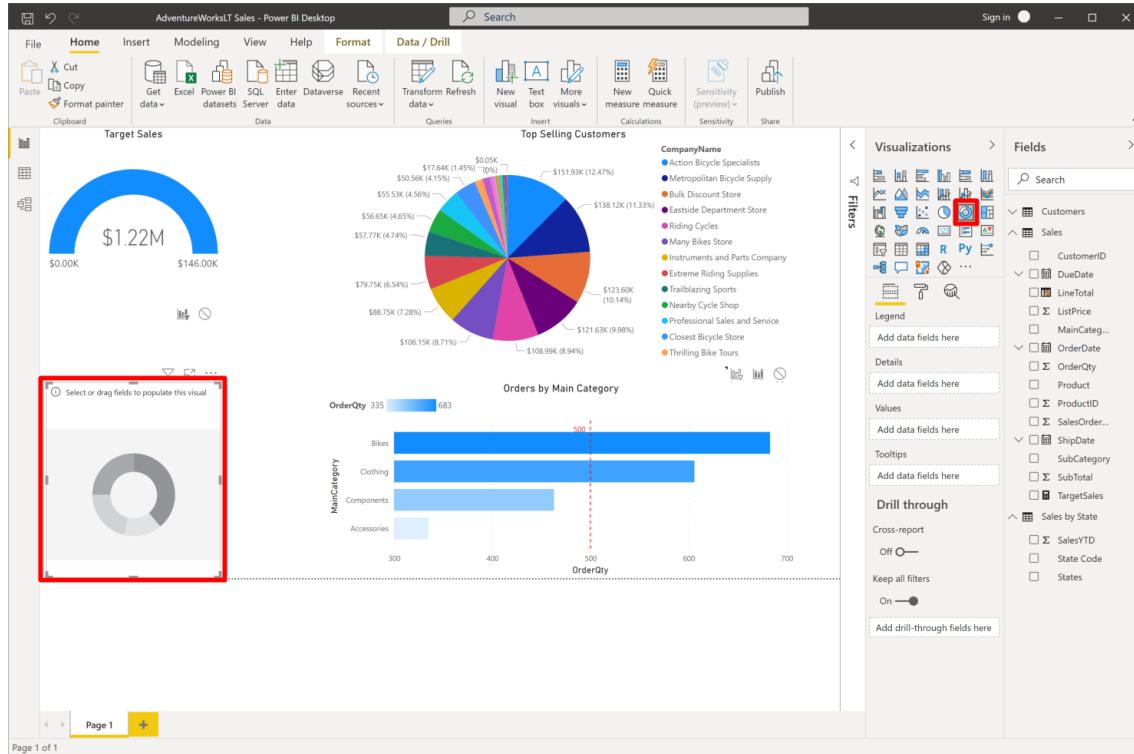
18. In the Visualizations pane, click Analytics, expand Constant Line, and then click Add.
19. In the Value box, type 500.
20. Change Color to red, toggle Data label to On, and then change the color to red.



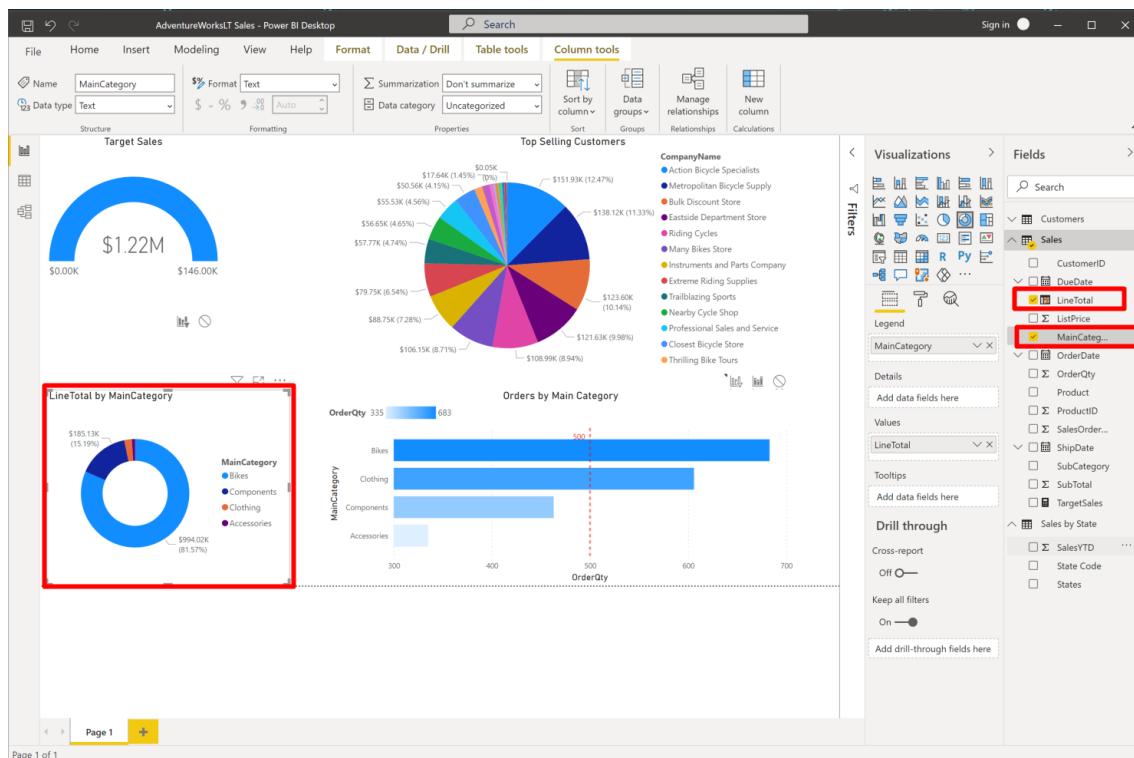
21. In the Visualizations pane, click Format, and expand Title.
22. In the Title Text box, type Orders by Main Category, and then click Center.



23. Click the report canvas to give it focus, and then in the Visualizations pane, click Donut chart.



24. In the Sales table, select MainCategory and LineTotal.



25. In the Visualizations pane, click Format, and then expand Title.  
 26. In the Title Text box, type Sales by Main Category, and then click Center.

The screenshot shows the Power BI Desktop interface with the 'Visualizations' pane open. A red box highlights the 'Title' section in the 'Format' pane, which contains a 'Title text' field with the value 'Sales by Main Cat...'. Another red box highlights the 'Alignment' section, showing the 'Center' icon selected. The report canvas displays several visualizations: a gauge chart for 'Target Sales' (\$1.22M), a donut chart for 'Sales by Main Category' (Bikes: \$185.13K, Components: \$994.02K), a pie chart for 'Top Selling Customers' (various companies like Action Bicycle Specialists, Metropolitan Bicycle Supply, Bulk Discount Store, etc.), and a bar chart for 'Orders by Main Category' (Bikes: 683, Clothing: 600, Components: 450, Accessories: 300).

27. Drag the Product field from the Sales table onto the report canvas. Power BI creates a table.

The screenshot shows the Power BI Desktop interface with the 'Fields' pane open. A red box highlights the 'Product' field under the 'Sales' table. The report canvas displays the same visualizations as the previous screenshot, but now includes a new table visualization on the right side of the report area, representing the 'Product' field data.

28. Drag the LineTotal field from the Sales table onto the products table chart.

The screenshot shows a Power BI desktop interface with a dashboard containing three visualizations:

- Gauge Chart:** "Target Sale" showing \$1.22M.
- Pie Chart:** "Top Selling Customers" showing sales distribution by company.
- Bar Chart:** "Orders by Main Category" showing the number of orders for different categories.

The **Fields pane** on the right side of the interface is open, and a red box highlights the **Sales** table. Within the Sales table, the **LineTotal** field is also highlighted with a red box.

Product	LineTotal	MainCategory
Women's Mountain Shorts, S	\$3,359.52	Clothing
Women's Mountain Shorts, M	\$349.95	Clothing
Women's Mountain Shorts, L	\$1,889.73	Clothing
Water Bottle - 30 oz	\$269.46	Accessories
Touring-1000 Yellow, 60	\$14,847.00	Bikes
Touring-3000 Yellow, 62	\$2,227.05	Bikes
Touring-3000 Yellow, 54	\$4,454.10	Bikes
Touring-3000 Yellow, 50	\$6,681.15	Bikes
Touring-3000 Yellow, 44	\$13,362.30	Bikes
Touring-3000 Blue, 62	\$2,227.05	Bikes
Touring-3000 Blue, 58	\$4,454.10	Bikes
Touring-3000 Blue, 54	\$11,135.25	Bikes
Touring-3000 Blue, 50	\$17,074.05	Bikes
Touring-3000 Blue, 44	\$3,711.75	Bikes
Touring-2000 Blue, 60	\$12,148.50	Bikes
Touring-2000 Blue, 54	\$21,867.30	Bikes
<b>Total</b>	<b>\$1,218,618.27</b>	

29. In the Sales table, select the MainCategory field.

30. In the Visualizations pane, click Fields.

31. In the Filters pane, expand LineTotal(All).

32. In the Show items when the value list, select is greater than, and then in the box below, type 32000.

33. Hacer click en Aplicar filtro (Apply filter).

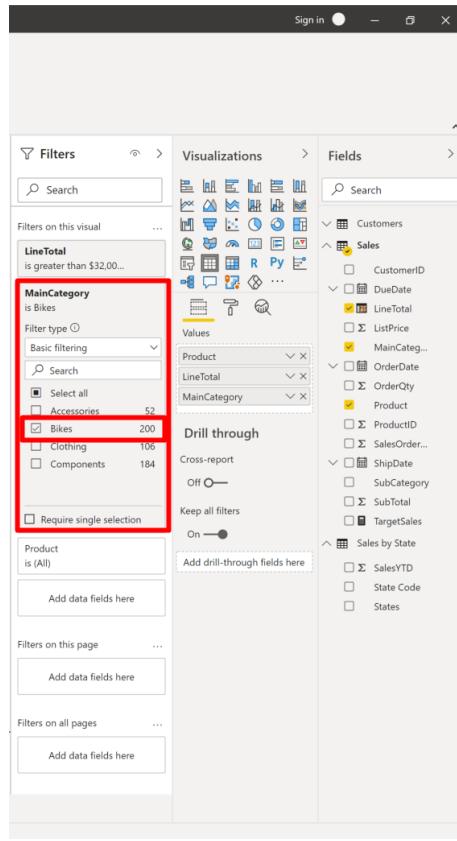
The screenshot shows the same Power BI desktop interface with the same dashboard. A red box highlights the **Filters** pane on the right side.

In the **Filters** pane, there is a section for the **LineTotal** field with the following configuration:

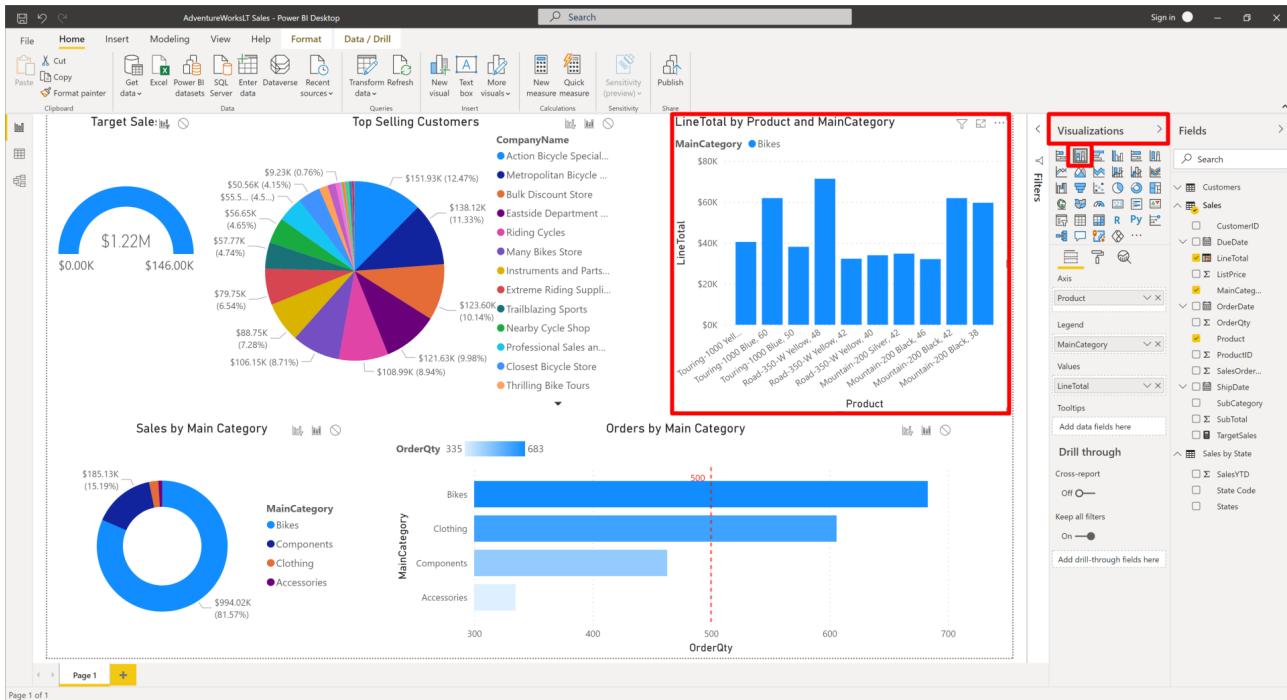
- Condition:** is greater than \$32,000.
- Show items when the value:** is greater than 32000.
- Operator:** And (radio button selected).

The **Values** section shows the current value as 32000. There is also an **Apply filter** button.

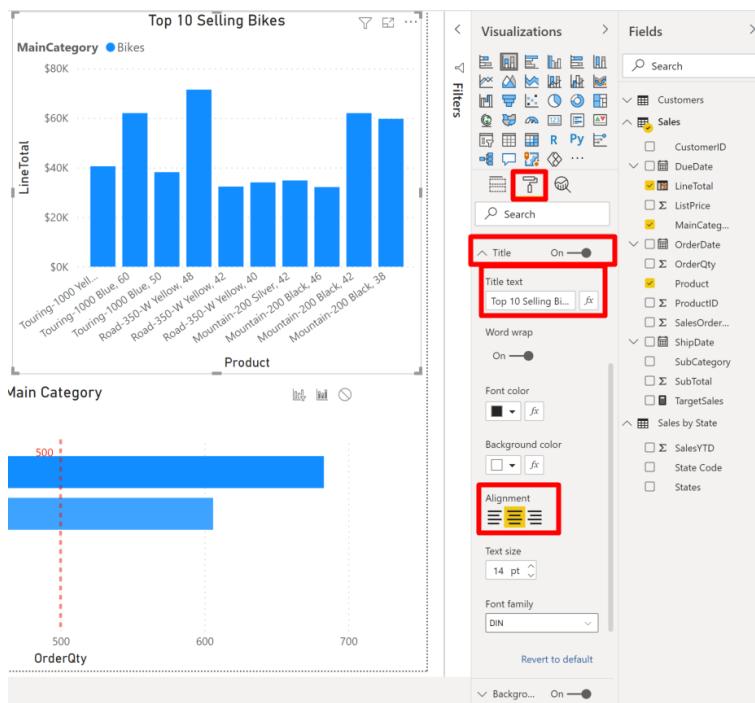
34. Expand MainCategory(All), and then select Bikes.



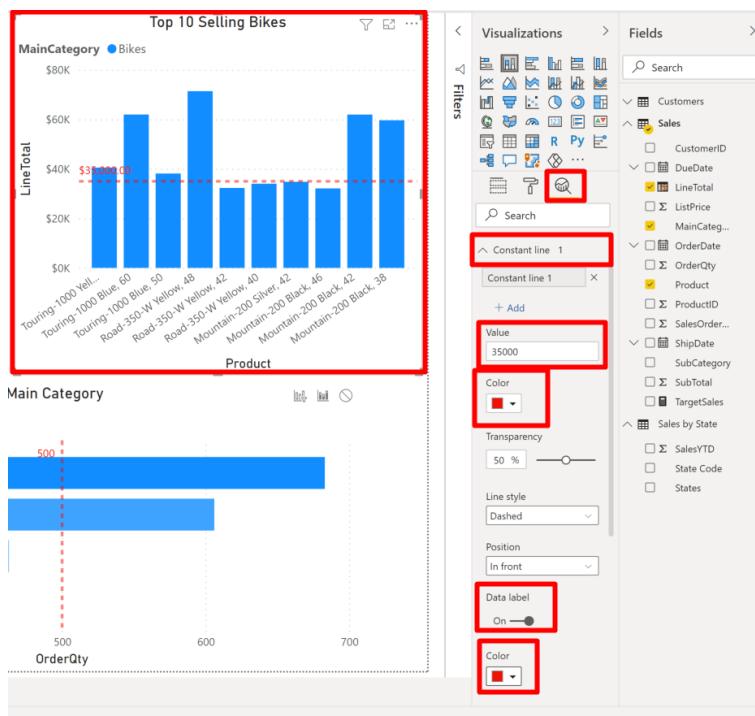
35. In the Visualizations pane, click Stacked column chart.



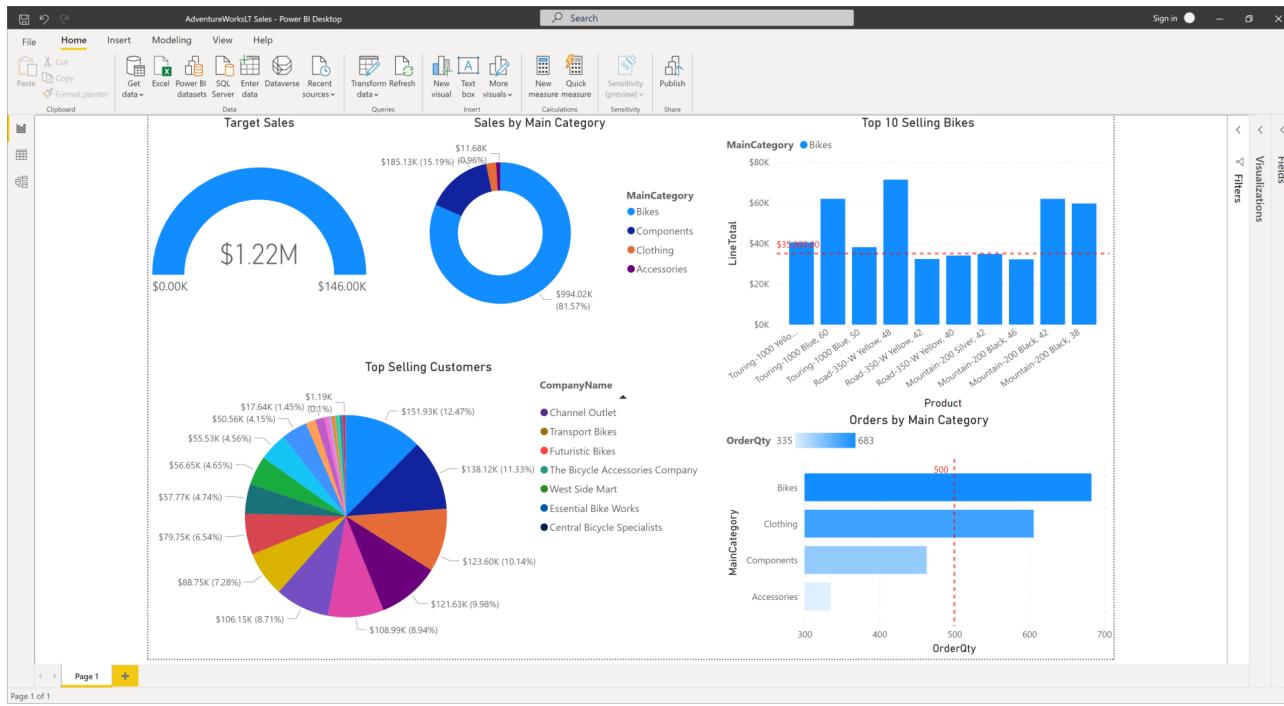
36. In the Visualizations pane, click Format, and then expand Title.  
 37. In the Title Text box, type Top 10 Selling Bikes, and then click Center.



38. In the Visualizations pane, click Analytics, expand Constant Line, and then click Add.  
 39. In the Value box, type 35000, and then set Color to red.  
 40. Toggle Data label to On, and then set Color to red.



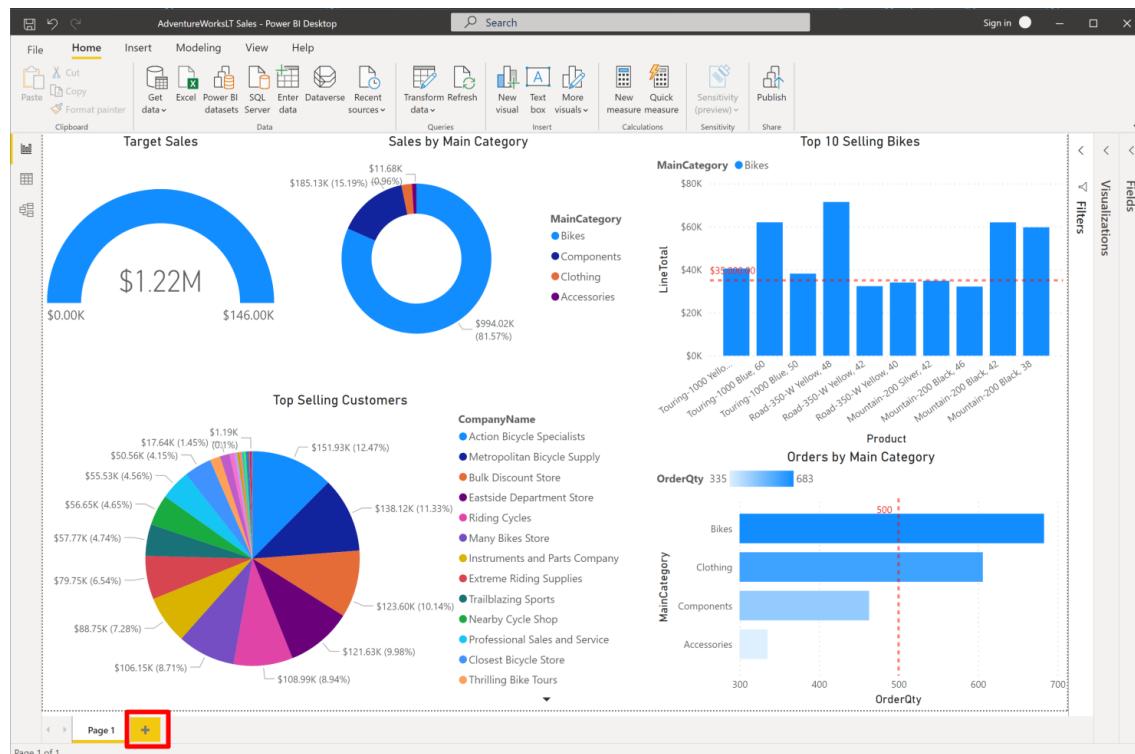
41. Expand the chart to fill the remaining space on the report canvas. If necessary, move your visuals around to make them fit.



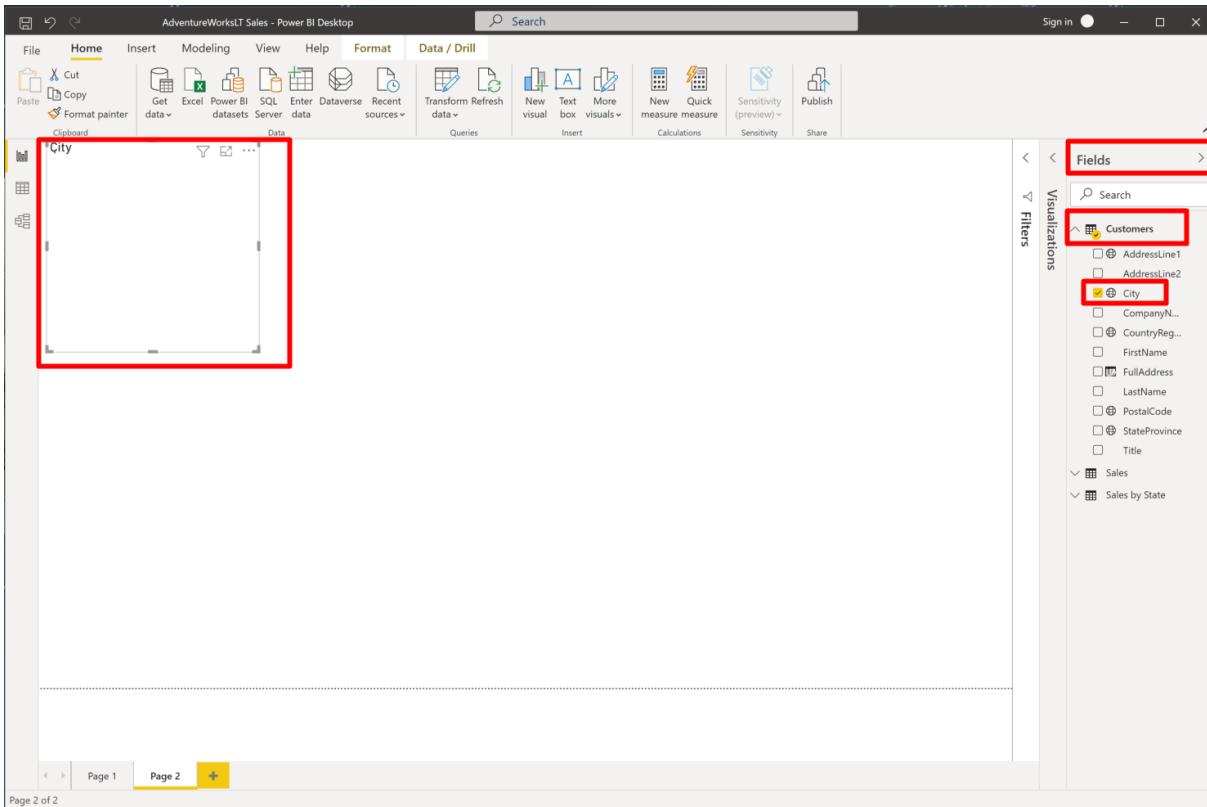
42. Click Save

## Tarea 2: Crear una Visualización de Mapa

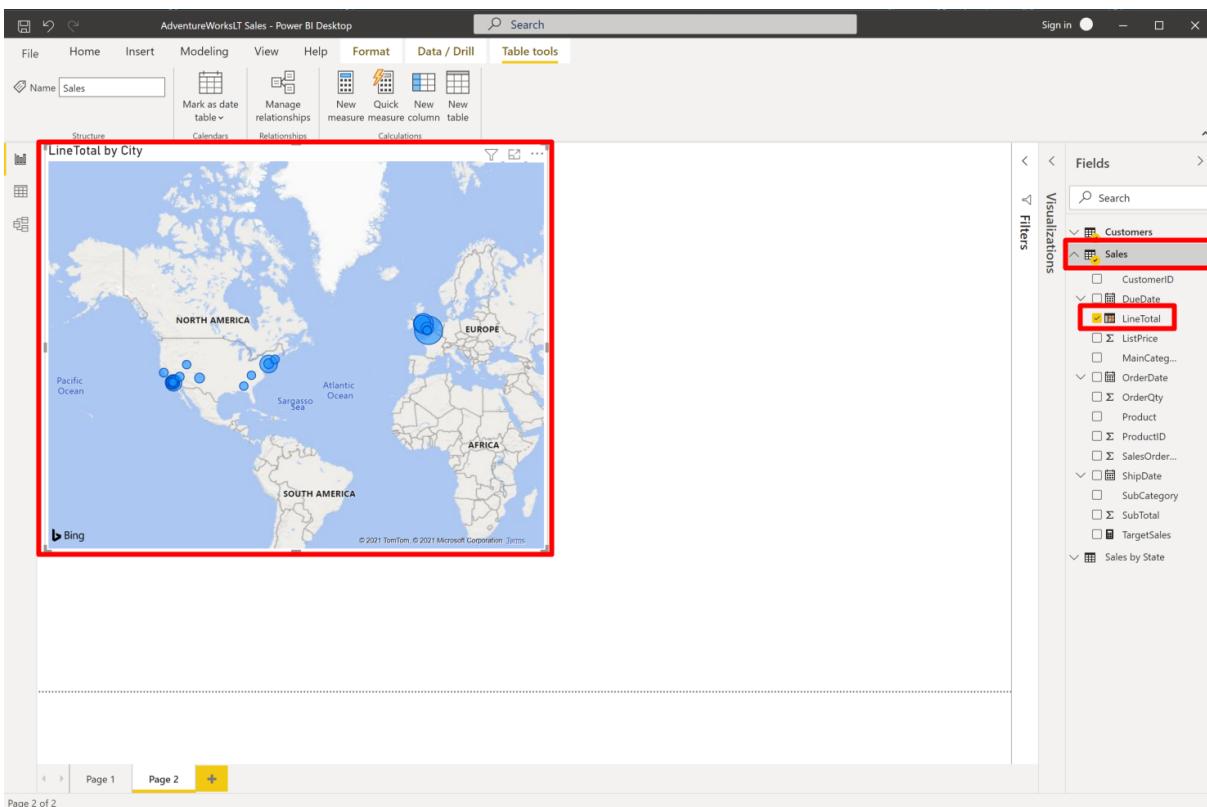
- At the bottom of the report, click the + icon to add a new page.



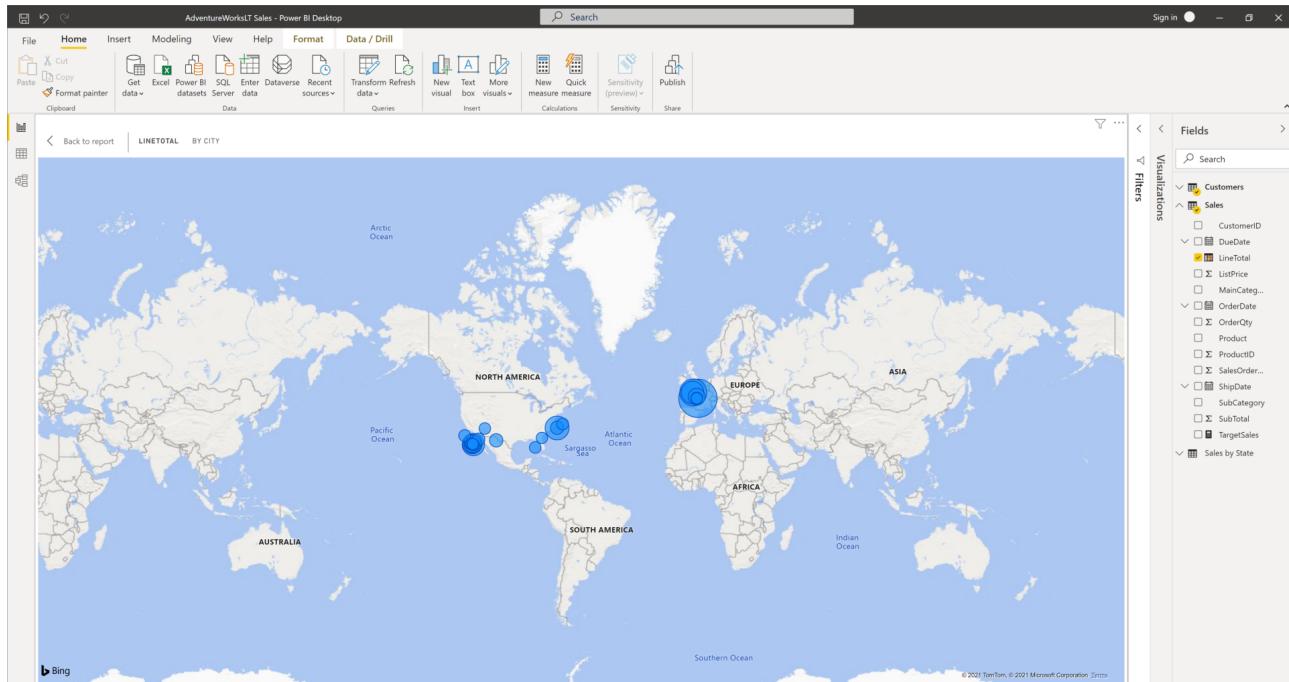
2. In the Fields pane, in the Customers table, select the City field. Power BI adds a map to the report.



3. In the Fields pane, in the Sales table, select the LineTotal field.



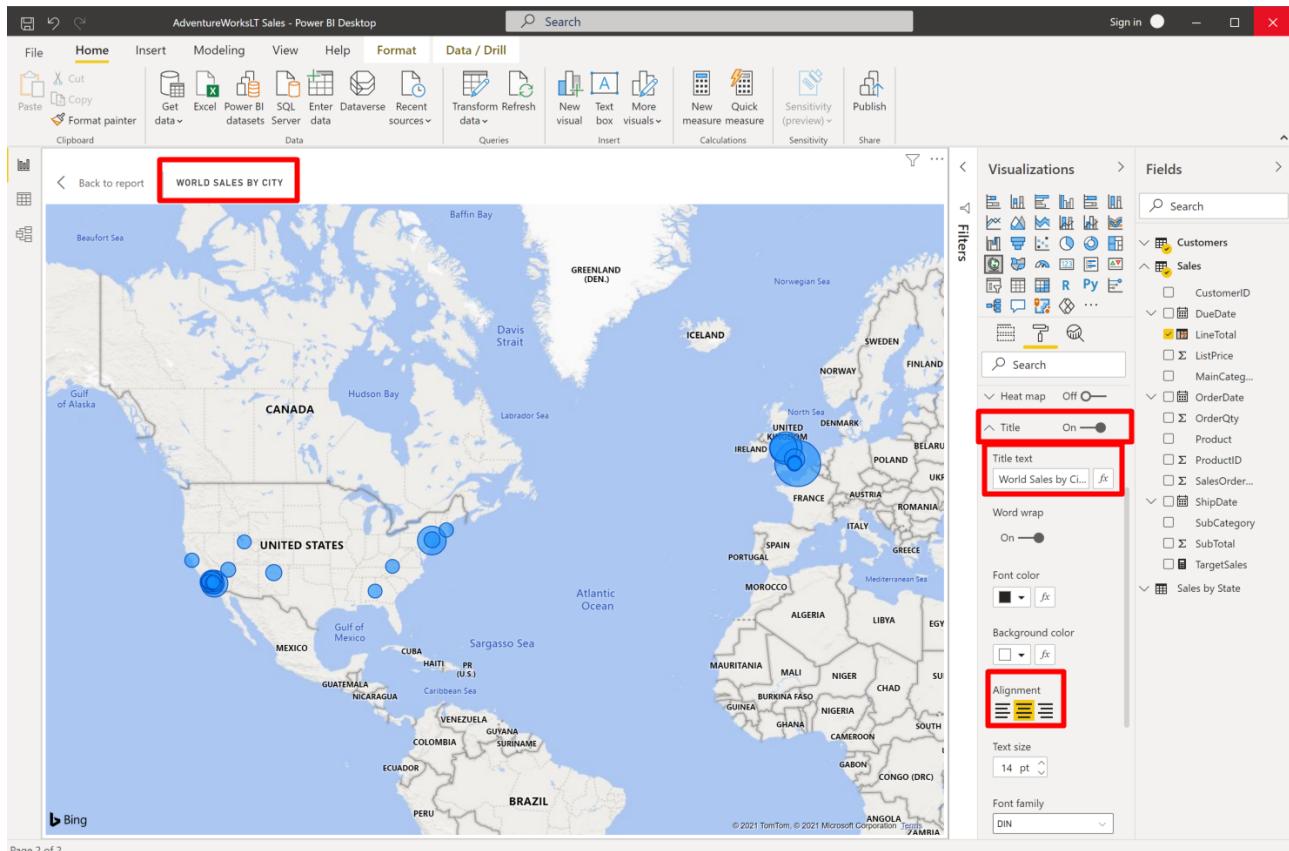
4. Using the grabber tool on the right side of the chart, resize the map to show all of the bubbles.



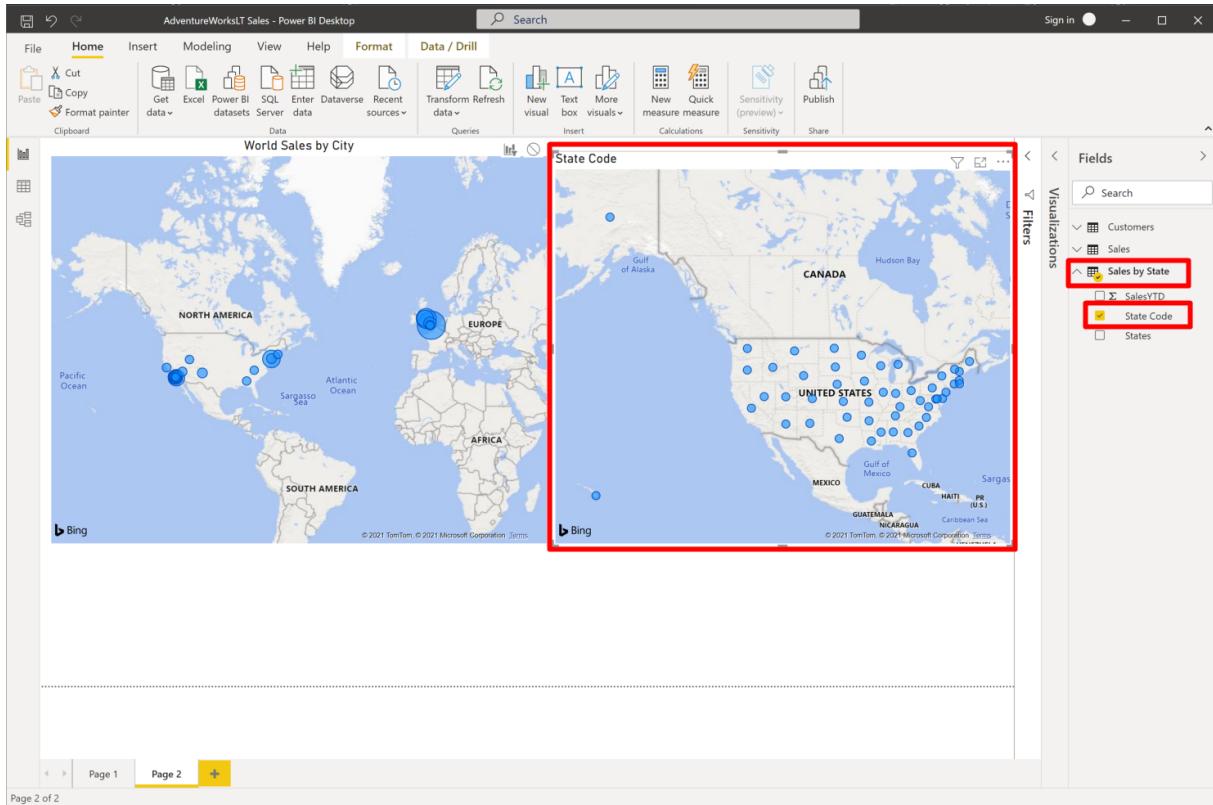
5. Notice that the bubbles are proportionally sized to represent the data.

6. In the Visualizations pane, click Format, and then expand Title.

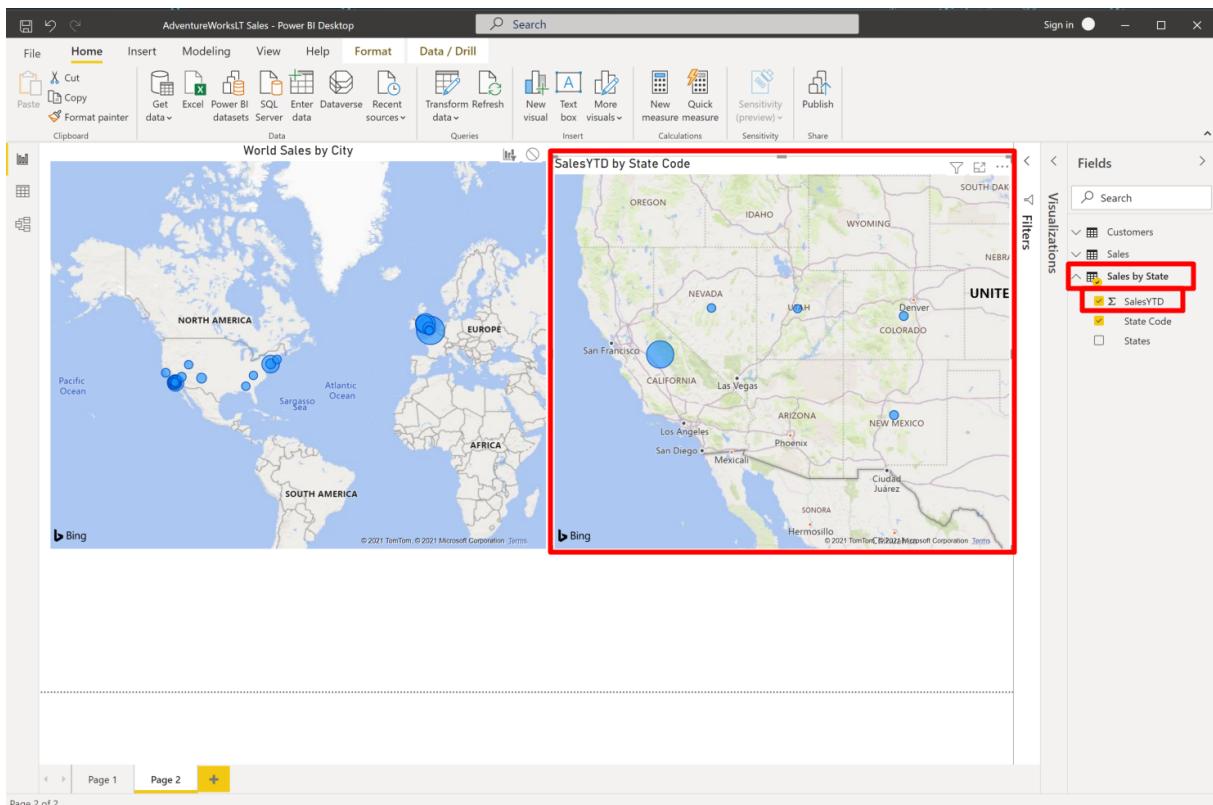
7. In the Title Text box, type World Sales by City, and then click Center.



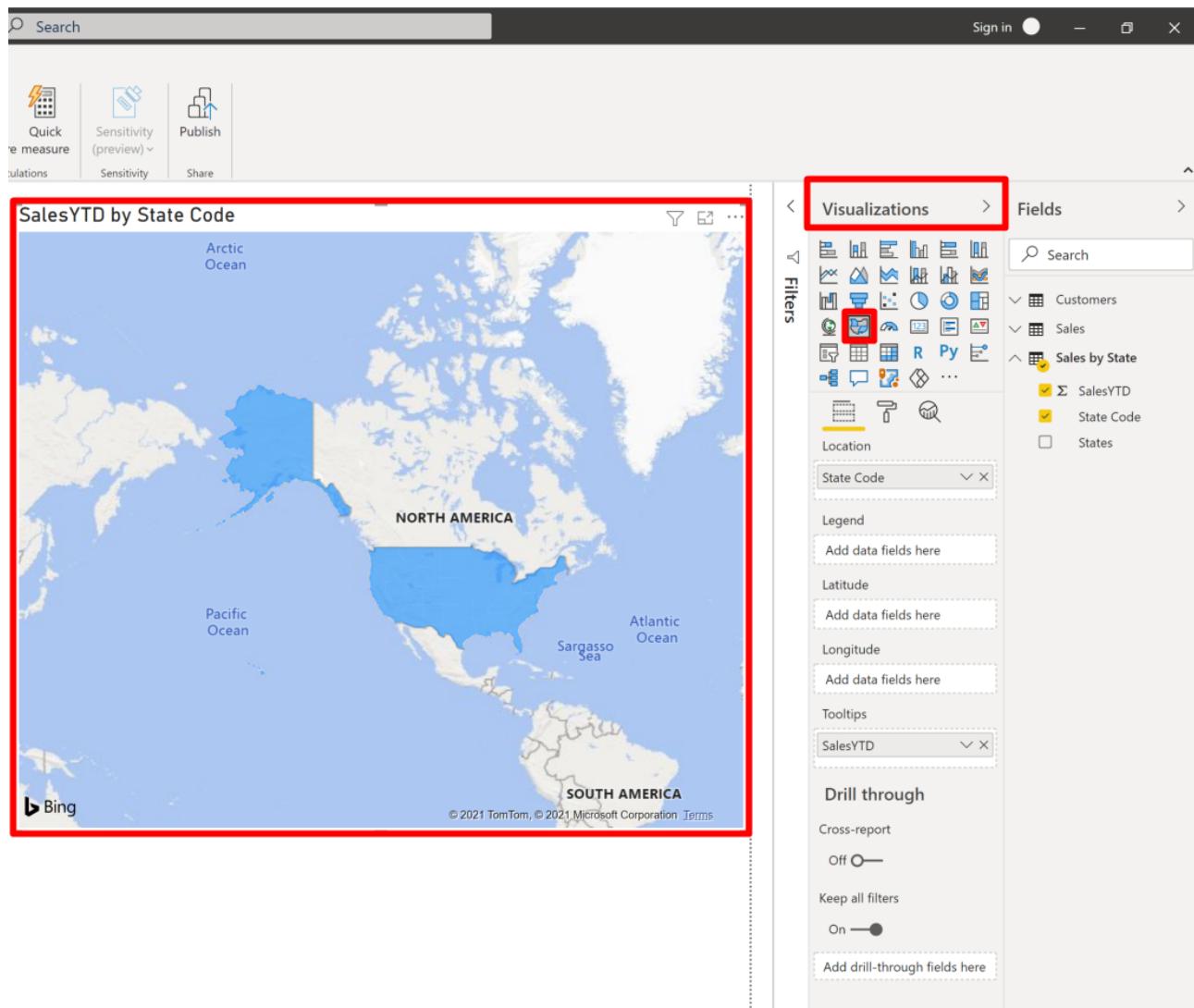
8. Click the report canvas, and then in the Sales by State table, select the State Code column. Power BI automatically adds a map.



9. In the Sales by State table, select the SalesYTD column.

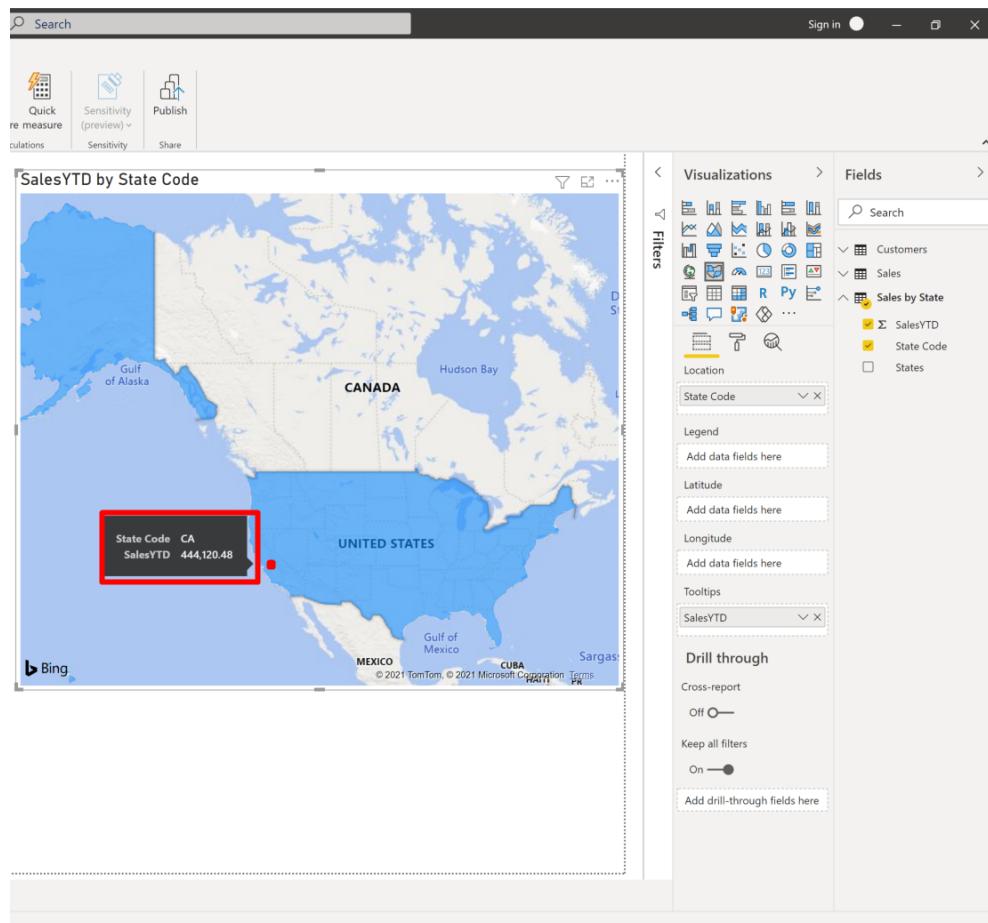


10. In the Visualizations pane, click Filled Map. Using the grabber tool on the right side and at the bottom of the chart, resize the map to show all the states.



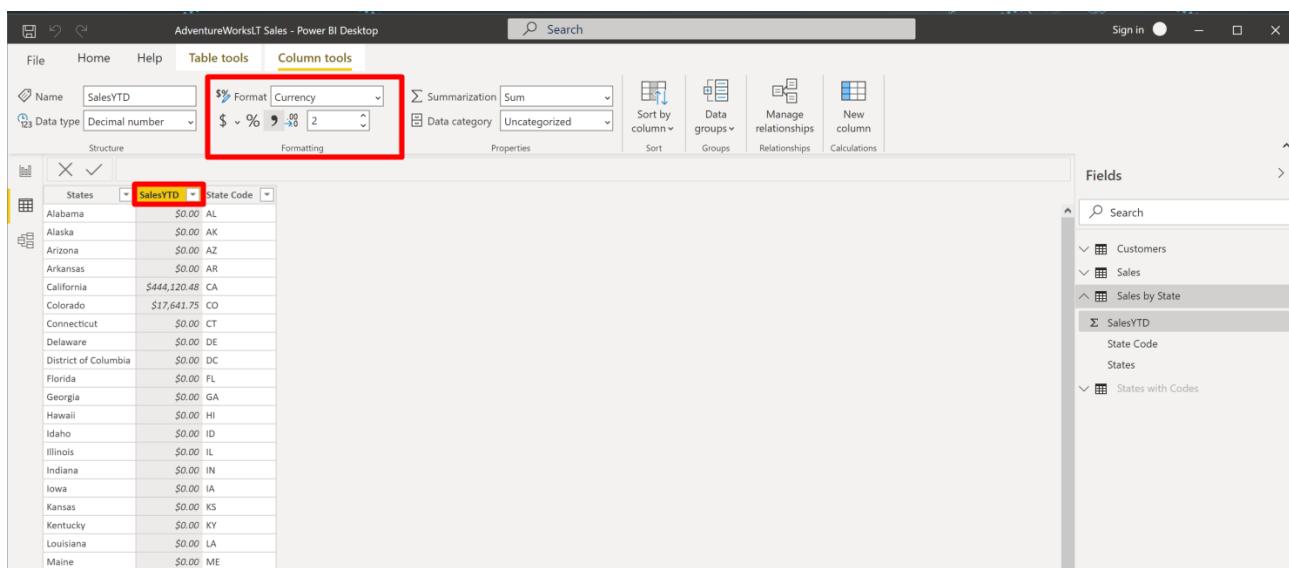
11. Notice that the sales cluster in one area.

12. Position the cursor on California(CA) to see the sales figure. The value has not been formatted as currency.

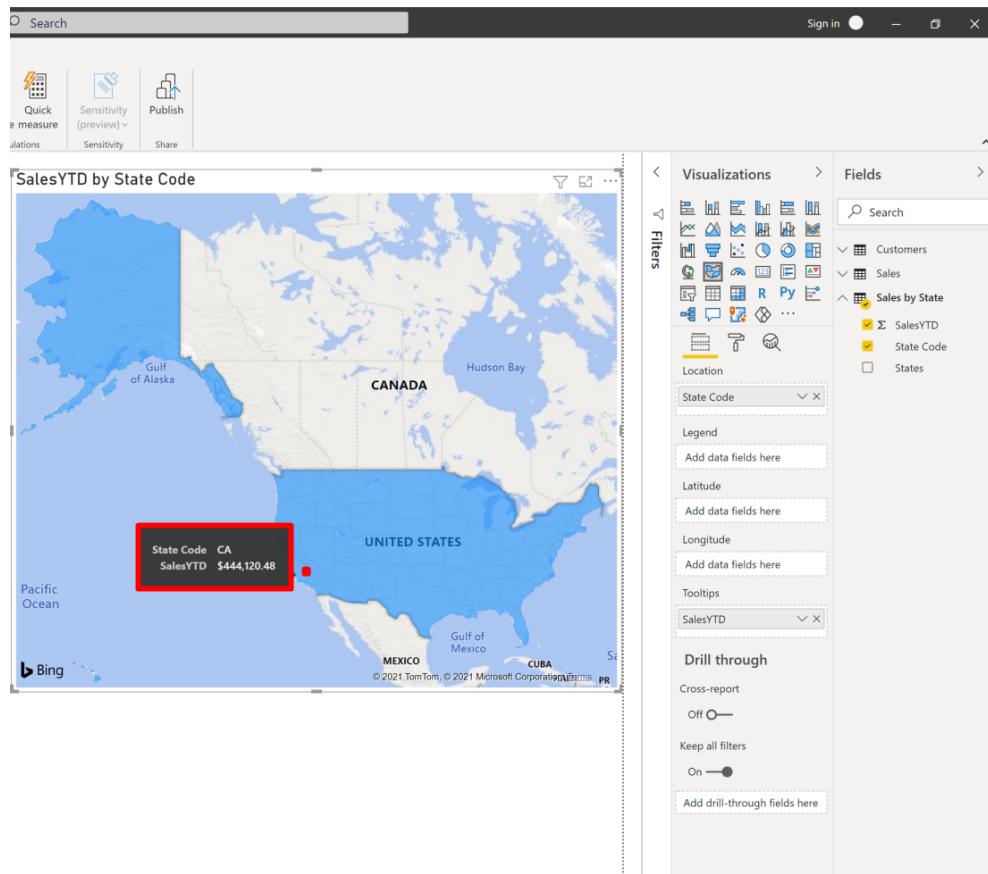


14. In the Sales by State table, click the SalesYTD column.

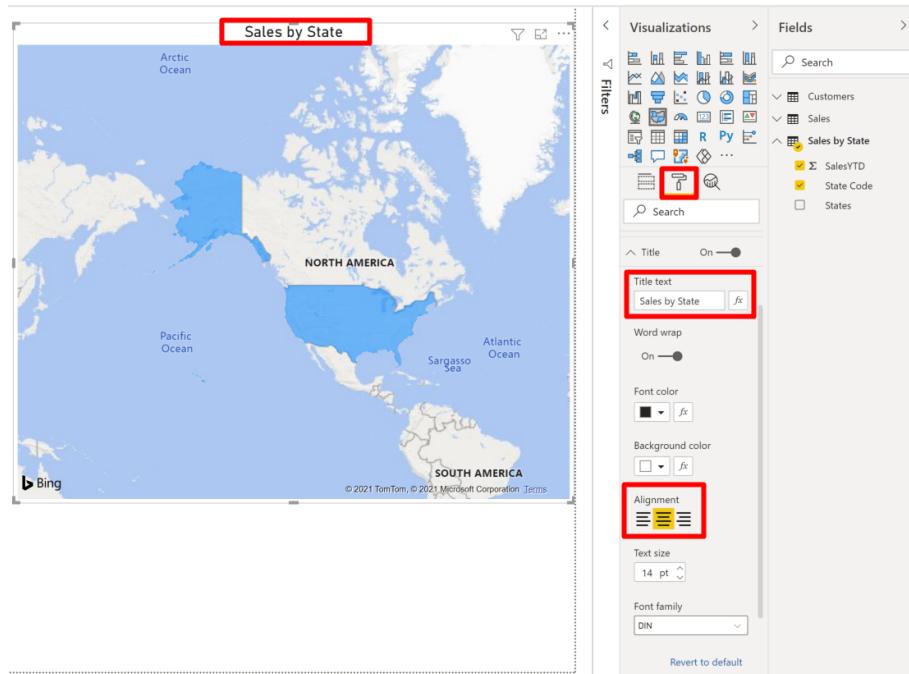
15. On the Modeling ribbon, select Format:General, click Currency, and then select \$ English (United States).



16. Position the cursor on California(CA) on the map, and notice that the value has been formatted.



17. In the Visualizations pane, click Format, and then expand Title. 18. In the Title Text box, type Sales by State, and then click Center.



19. Click Save, and then leave the report open for the next exercise.

## **5. Resultados**

Después de este ejercicio, debería haber creado un informe que tenga gráficos visuales y esté listo para publicar. al servicio Power BI.