

UNIVERSIDAD PRIVADA DE TACNA



FACULTAD DE INGENIERIA

Escuela Profesional de Ingeniería de Sistema

**Informe de laboratorio 03: Creando un Reporte
Interactivo en Power BI**

Curso: Inteligencia de negocios

DOCENTE: Ing. Patrick Cuadros Quiroga

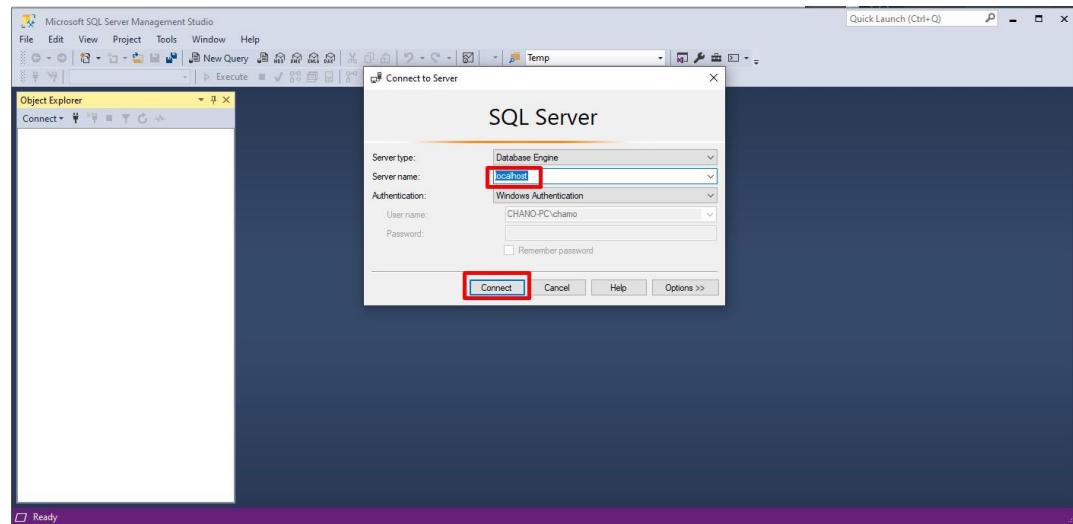
Flores Querie, Luis Fernando (2018062394)

Tacna – Perú

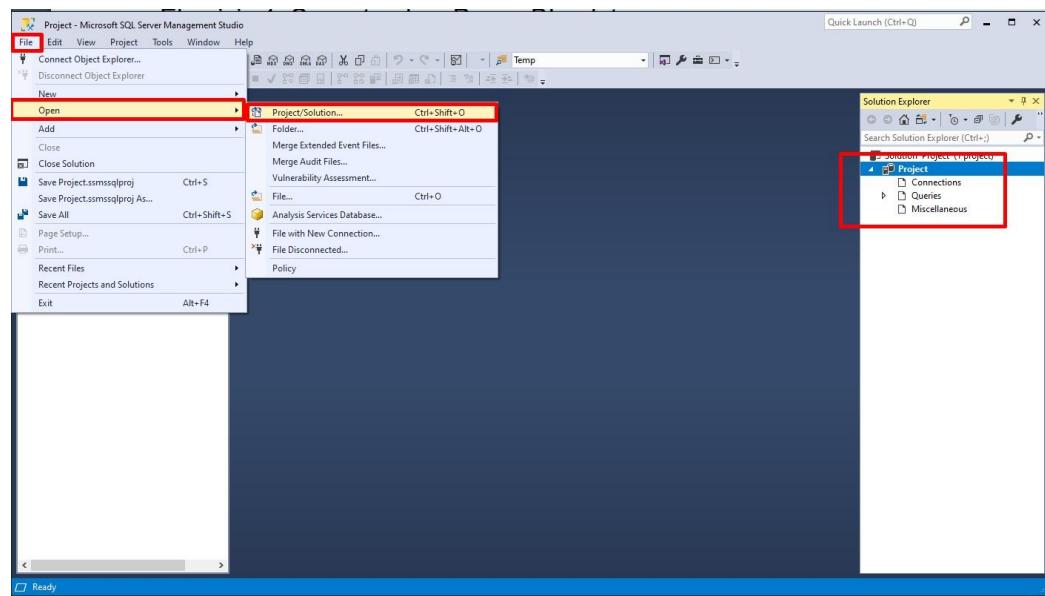
2022

1. Conexión a datos de Power BI

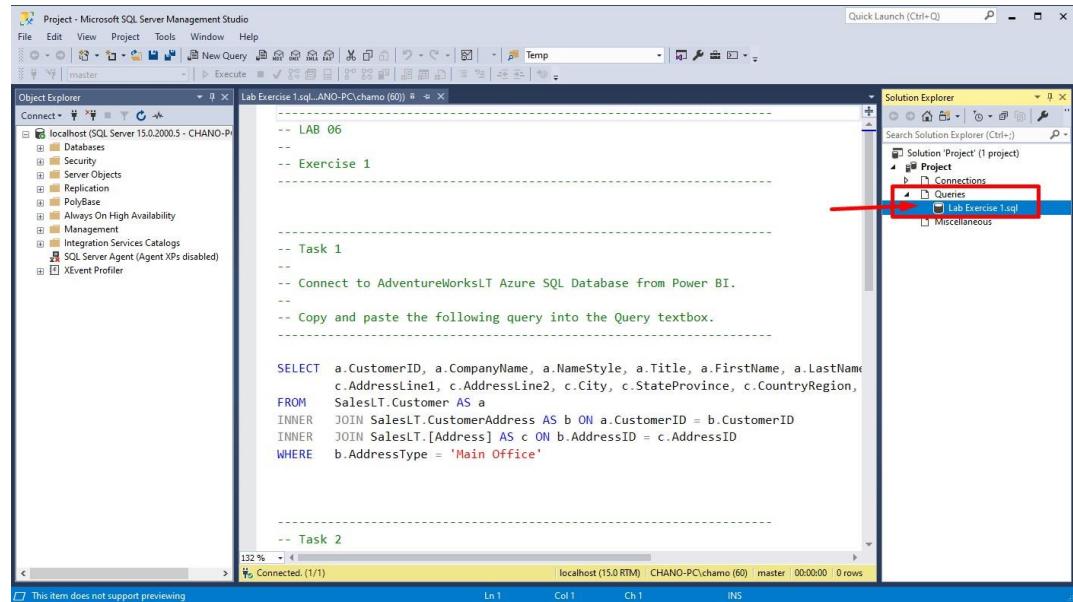
1.1. Abrir SQL Server Management Studio, y conectar a la instancia de base de datos (local) utilizando autenticación de Windows.



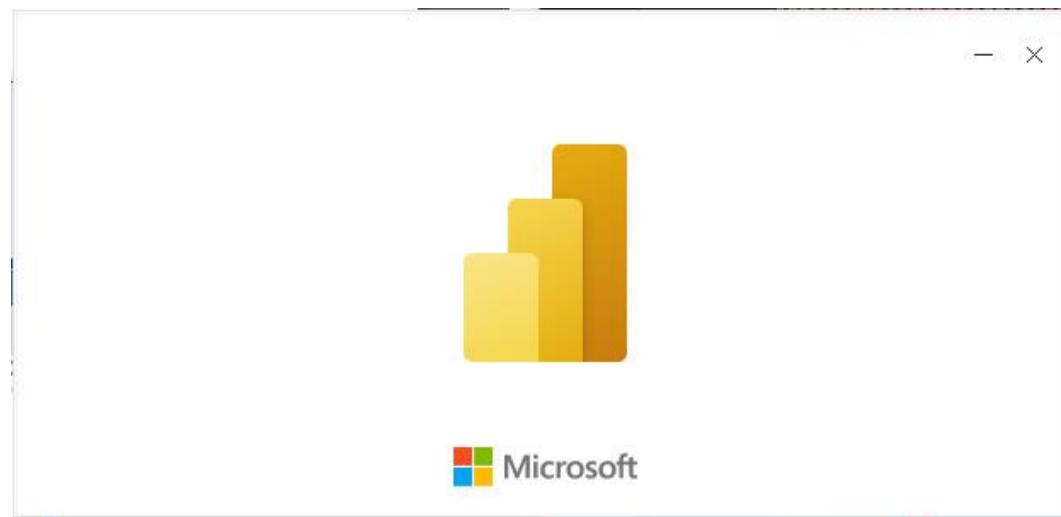
1.2. En el menú Archivo (File), en el submenu Abrir (Open), hacer click en Project/Solution, y buscar el archivo Project.ssmssqln.



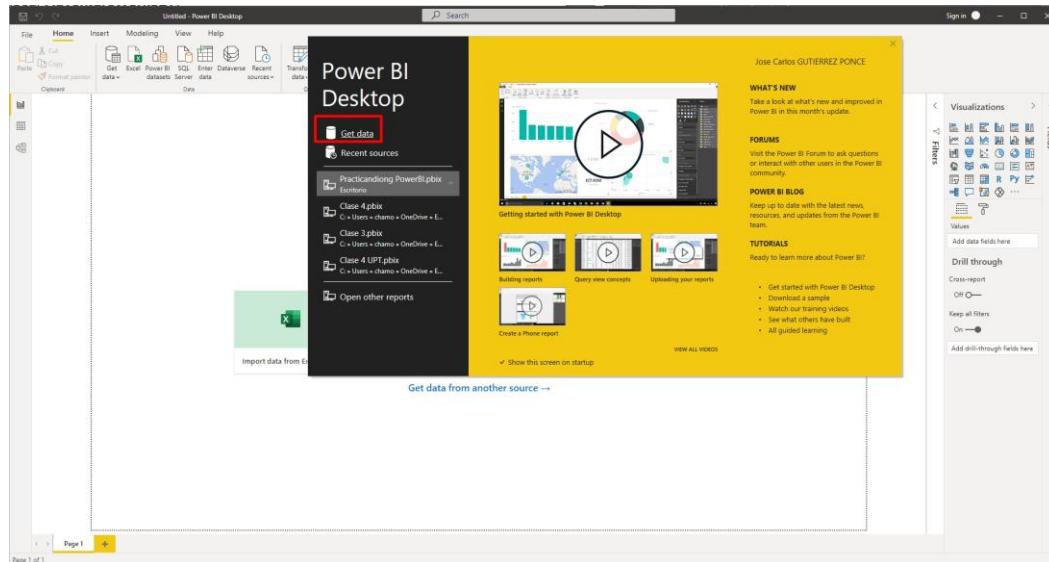
1.3. En el Explorador de Soluciones, expandir Consultas (Queries), y luego hacer doble click en el archivo Lab Exercise 1.sql.



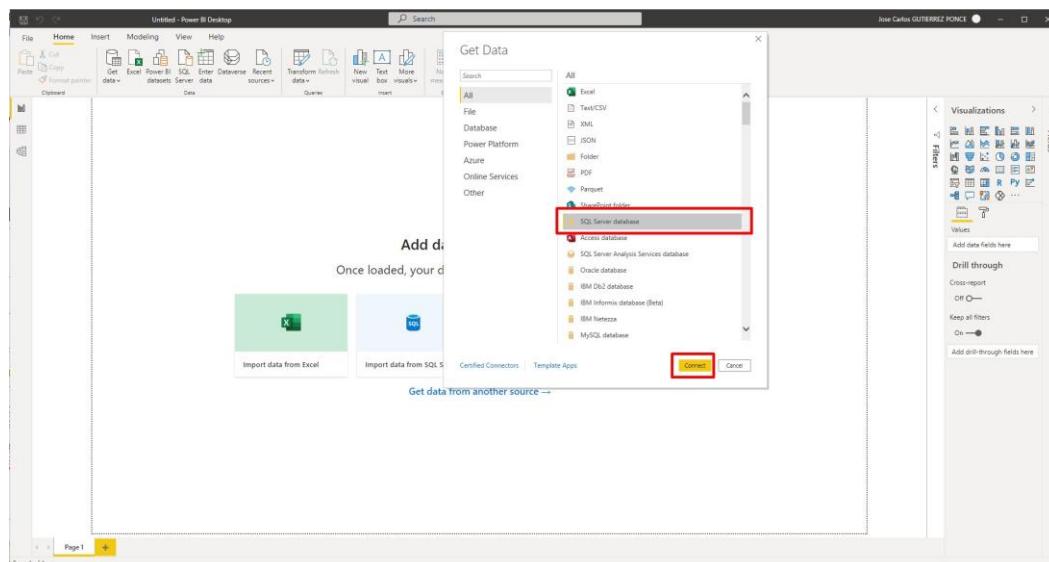
1.4. Abrir Power BI Desktop.



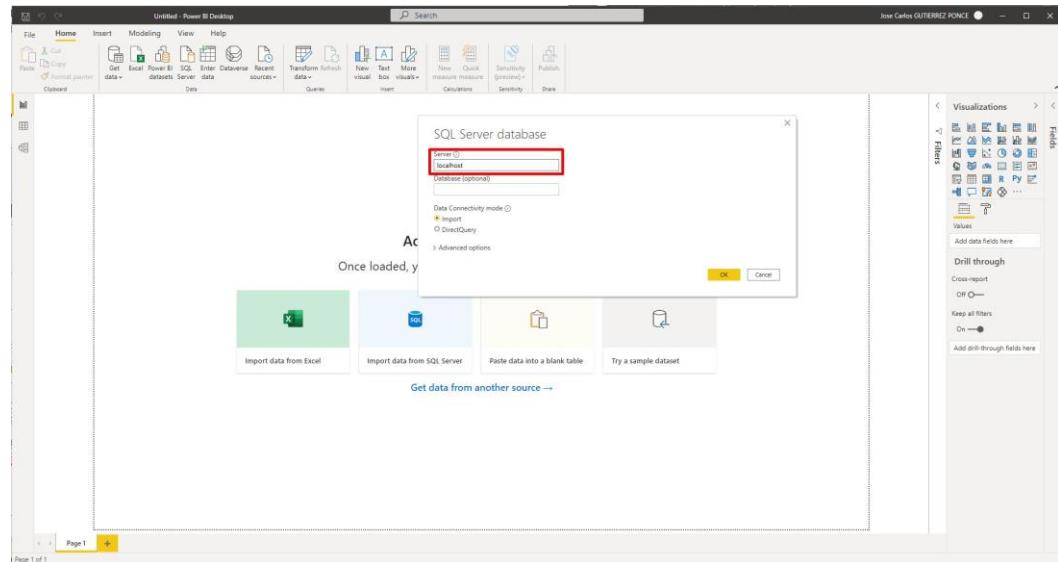
1.5. En la ventana Power BI Desktop, hacer click en Obtener Data (Get Data).



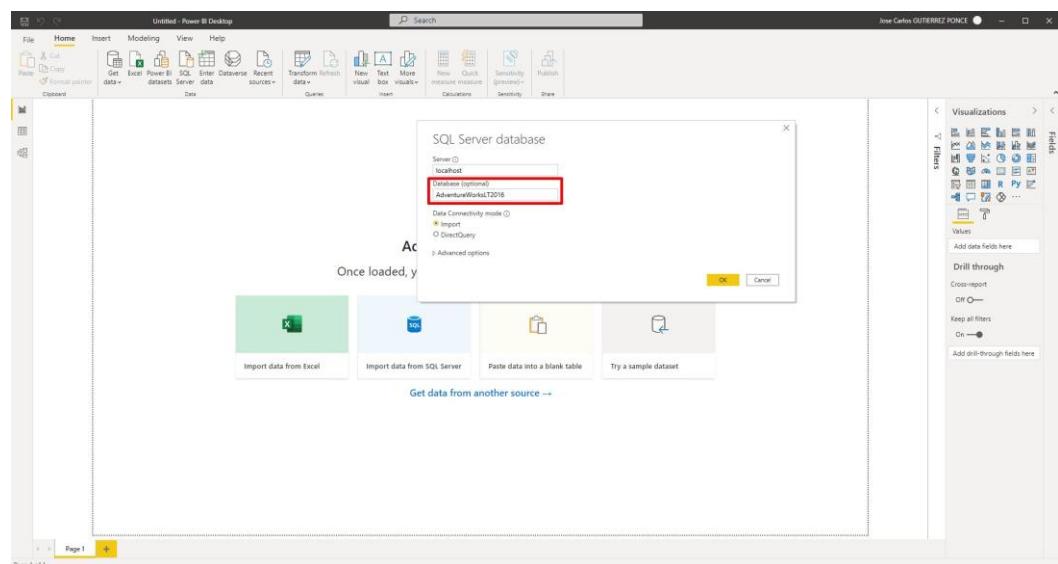
1.6. En el cuadro Obtener Datos, click base de datos Microsoft SQL, y entonces click en Conectar.



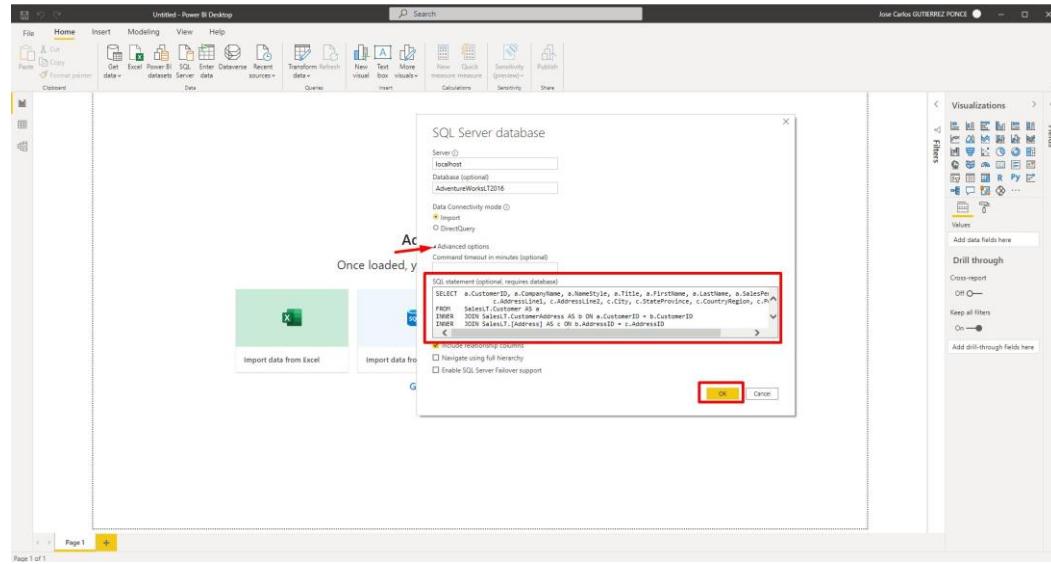
1.7. En la ventana base de datos Server database, En Servidor, escribir (localhost).



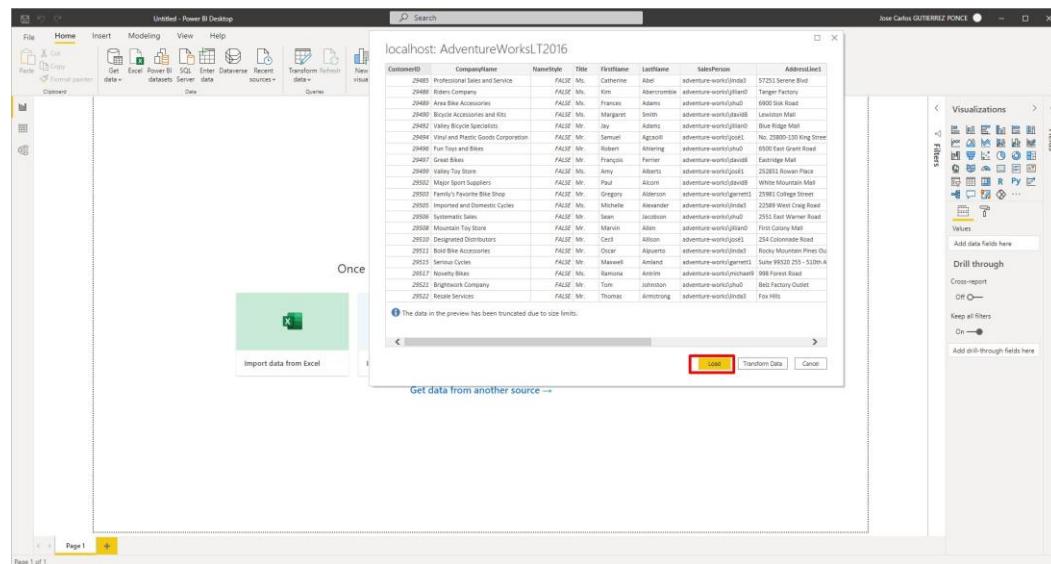
1.8. En Base de Datos (opcional), tipear AdventureWorksLT2016.



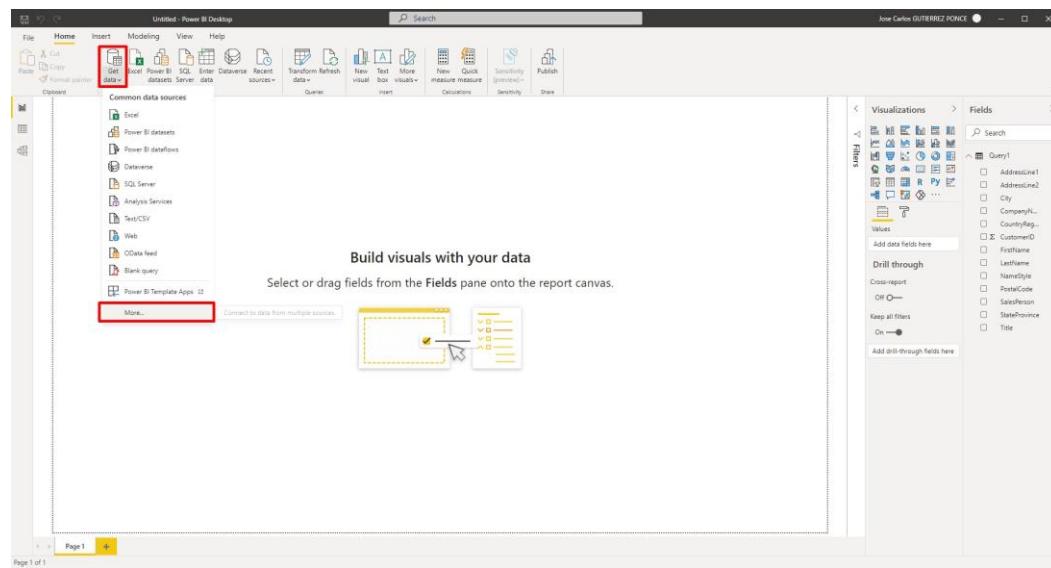
1.9. Expandir el cuadro Opciones Avanzadas. Copiar el script Task 1 del archivo Lab Exercise 1.sql. y pegar la consulta en Power BI, en el cuadro sentencia SQL. Luego presionar OK.



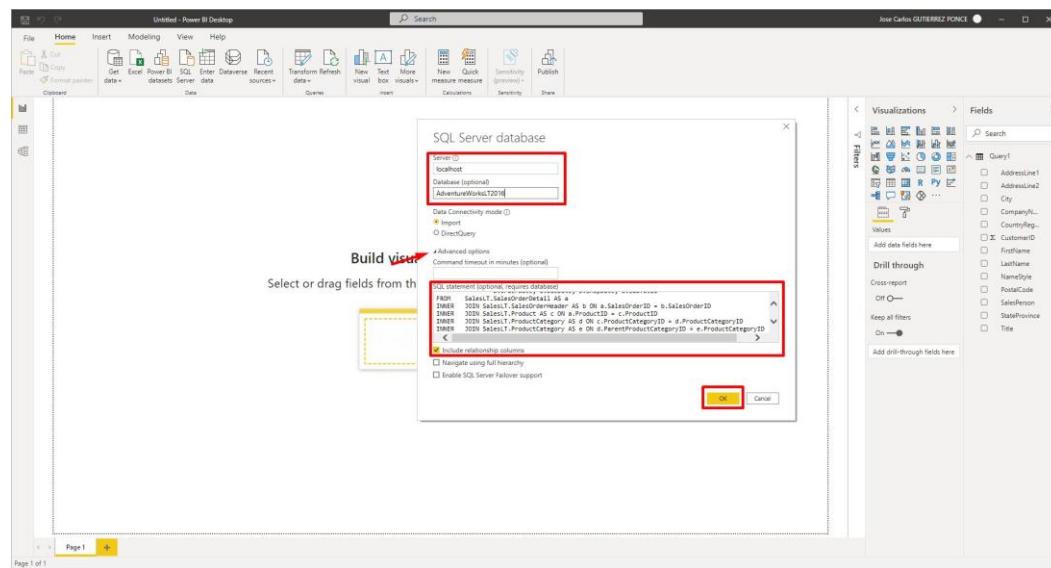
1.10. En la ventana de vista prDelete click en Load.



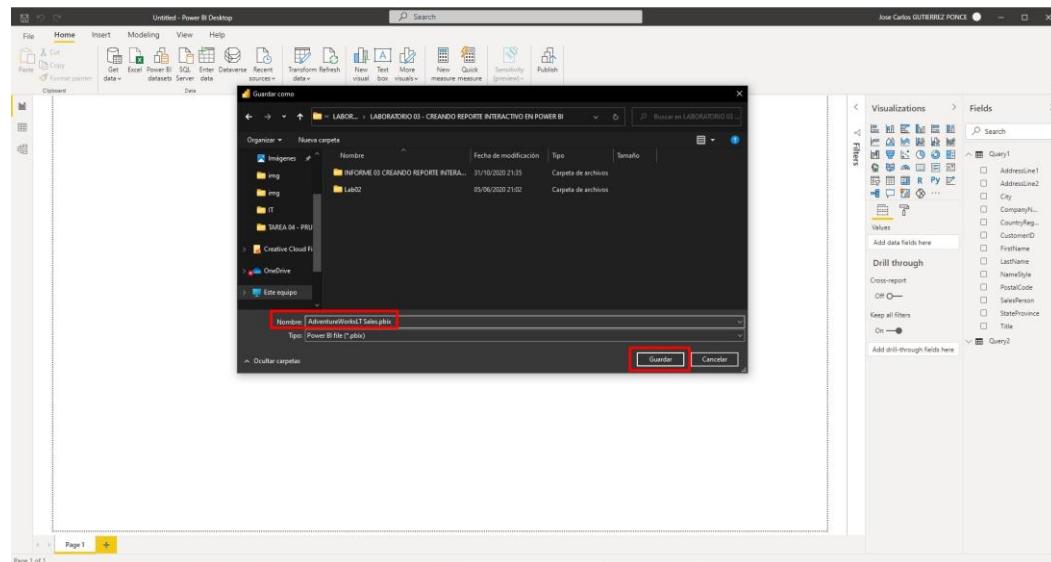
1.11. En Power BI Desktop, click Obtener Datos y luego click en Mas.



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

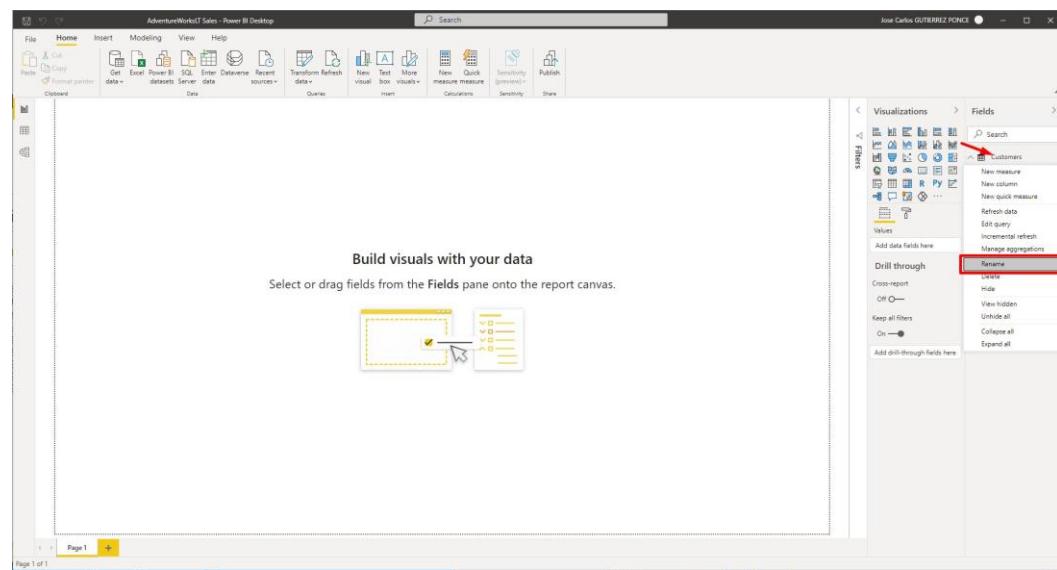


1.13. De regreso en el reporte. Guardar el archivo como AdventureWorksLT Sales.pbix.

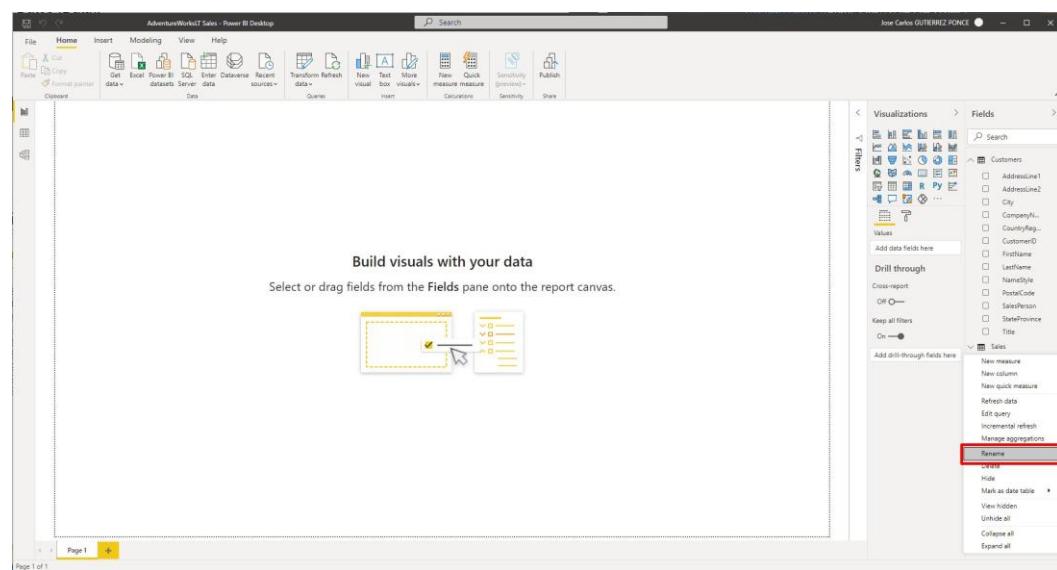


2. Graficar Datos

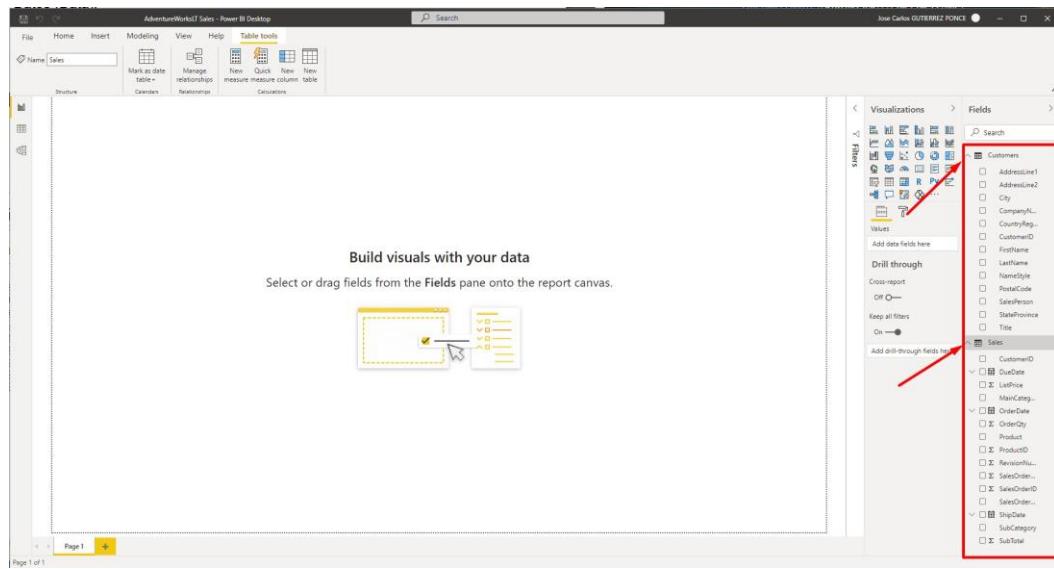
2.1. En el panel Fields (Fields), click derecho sobre Query1, clic en Rename, tipear Customers y presionar Enter.



2.2. Haga clic con el botón derecho en Query2, haga clic en Rename, escriba Sales y, a continuación, presione Enter.



2.3. Expanda las dos tablas para mostrar todos los Fields.



2.4. En la barra de navegación izquierda, haga clic en Data.

Name	CustomerID	CompanyName	ContactName	Title	TitleOfCourtesy	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode
24802 Valley Bicycle Specialists	24802	Valley Bicycle Specialists	Father, Mr. Jay Adams	Salesperson	adventureworks davidB	Blue Ridge Mall	8500 East Grant Road	Kansas City	Missouri	United States	64106
24803 Fun Toy and Bikes	24803	Fun Toy and Bikes	Father, Mr. Robert Altering	Salesperson	adventureworks davidB	Extridge Mall	Tucson	Arizona	United States	85701	
24804 Great Bike Supplies	24804	Great Bike Supplies	Father, Mr. François Ferrer	Salesperson	adventureworks davidB	Westgate Mountain Mall	Rock Springs	Wyoming	United States	82901	
24805 Funland	24805	Funland	Father, Mr. Paul Alonso	Salesperson	adventureworks davidB	Wingfield Center	Seattle	Washington	United States	98103	
24806 Mountain Tax Store	24806	Mountain Tax Store	Father, Mr. Marvin Allen	Salesperson	adventureworks davidB	First Colony Mall	Sugar Land	Texas	United States	77476	
24807 Bike Blue Accessories	24807	Bike Blue Accessories	Father, Mr. Oscar Alquiza	Salesperson	adventureworks davidB	Rocky Mountain Fries Outlet	Loveland	Colorado	United States	80537	
24808 Brightwork Company	24808	Brightwork Company	Father, Mr. Tom Johnson	Salesperson	adventureworks davidB	Beth Farnory Outlet	Las Vegas	Nevada	United States	89106	
24809 Recycle Services	24809	Recycle Services	Father, Mr. Thomas Ammerling	Salesperson	adventureworks davidB	Parkside Recycling Center	Culver City	California	United States	90233	
24810 Fun City	24810	Fun City	Father, Mr. John Barnes	Salesperson	adventureworks davidB	Red Rock North Freeway	Las Vegas	Nevada	United States	89106	
24811 Intermax Manufacturing Company	24811	Intermax Manufacturing Company	Father, Mr. Civil Aiston	Salesperson	adventureworks davidB	70 K.W. Plaza	Saint Ann	Missouri	United States	63074	
24812 Works and Play Associates	24812	Works and Play Associates	Father, Mr. Stephen Ayers	Salesperson	adventureworks davidB	2530 Eureka Rd.	Southington	Michigan	United States	48135	
24813 Remariable Bike Store	24813	Remariable Bike Store	Father, Mr. Cory Booth	Salesperson	adventureworks davidB	Eastern Bicycles Center	Las Vegas	Nevada	United States	89106	
24814 Board-It-Now Mart	24814	Board-It-Now Mart	Father, Mr. James Bailey	Salesperson	adventureworks davidB	Southgate Mall	Missoula	Montana	United States	59801	
24815 Grand Bike Stores	24815	Grand Bike Stores	Father, Mr. Douglas Baker	Salesperson	adventureworks davidB	Southgate Center	Holland	Michigan	United States	49424	
24816 Grand Bike Stores	24816	Grand Bikeike Stores	Father, Mr. William Baker	Salesperson	adventureworks davidB	46251 U.S. 8 Bypass Blvd.	Westland	Texas	United States	78130	
24817 Klomper Sisters	24817	Klomper Sisters	Father, Mr. Robert Barker	Salesperson	adventureworks davidB	6739 Warren Road	Westland	Michigan	United States	48185	
24818 Center Cycle Shop	24818	Center Cycle Shop	Father, Mr. John Beaser	Salesperson	adventureworks davidB	99100 22nd Southeast	Bethel	Washington	United States	98011	
24819 Arctic Cycle Company	24819	Arctic Cycle Company	Father, Mr. Stanley Alan Beaser	Salesperson	adventureworks davidB	587 3rd Millington Blvd	Milwaukee	Oregon	United States	97222	
24820 Fun City Inc	24820	Fun City Inc	Father, Mr. Raybin Benacci	Salesperson	adventureworks davidB	7000 14th Avenue Rd.	Portland	Oregon	United States	97201	
24821 Safe Cycle Shop	24821	Safe Cycle Shop	Father, Mr. Michael Benacci	Salesperson	adventureworks davidB	5010 14th Ave Rd.	Bethel	Washington	United States	98004	
24822 Number 1 Supply	24822	Number 1 Supply	Father, Mr. Hammes Berndt	Salesperson	adventureworks davidB	Escondido	Escondido	California	United States	92025	
24823 Gafford Cycle Store	24823	Gafford Cycle Store	Father, Mr. Steven Brown	Salesperson	adventureworks davidB	3550 Grossmont Center Drive	La Mesa	California	United States	91941	
24824 World Bike Discount Store	24824	World Bike Discount Store	Father, Mr. Jimmy Bischoff	Salesperson	adventureworks davidB	3050 Santa Margarita Parkway	Trabuco Canyon	California	United States	92679	
24825 Coalition Bike Companies	24825	Coalition Bike Companies	Father, Mr. Donald Blattner	Salesperson	adventureworks davidB	Corporate Office	El Segundo	California	United States	90245	
24826 Intermax Manufacturing Products Company	24826	Intermax Manufacturing Products Company	Father, Mr. Robert Blattner	Salesperson	adventureworks davidB	10000 10th Street # 6 South	India	Texas	United States	75050	
24827 Third Bike Store	24827	Third Bike Store	Father, Mr. Randall Boyceman	Salesperson	adventureworks davidB	2500 North Stevens Freeway	Delhi	Texas	United States	75201	
24828 Inter Bike Company	24828	Inter Bike Company	Father, Mr. Cornelius Brancato	Salesperson	adventureworks davidB	785 West Alameda	Wermister	Colorado	United States	80330	
24829 Laser Sports Equipment	24829	Laser Sports Equipment	Father, Mr. Richard Brooks	Salesperson	adventureworks davidB	4231 First Avenue	Seattle	Washington	United States	98104	
24830 Raw Materials Inc	24830	Raw Materials Inc	Father, Mr. Tim Bremar	Salesperson	adventureworks davidB	4321 First Avenue	Spokane	Washington	United States	99205	
24831 Fun City Cyclehouse	24831	Fun City Cyclehouse	Father, Mr. Alan Brown	Salesperson	adventureworks davidB	4323 First Avenue	Cardo Green	Mississippi	United States	38630	
24832 Polymeric Blends	24832	Polymeric Blends	Father, Mr. Walter Brian	Salesperson	adventureworks davidB	25139 Jefferson Blvd.	Clover City	California	United States	91322	
24833 Parrot Express Delivery Service	24833	Parrot Express Delivery Service	Father, Mr. Christopher Bright	Salesperson	adventureworks davidB	Washington Square	Portland	Oregon	United States	97205	
24834 Novinco Tire Company	24834	Novinco Tire Company	Father, Mr. Willie Brooks	Salesperson	adventureworks davidB	Holiday Village Mall	Great Falls	Montana	United States	59401	
24835 Metro Bike Works	24835	Metro Bike Works	Father, Mr. Jo Brown	Salesperson	adventureworks davidB	25000 Eight Mile Road	Detroit	Michigan	United States	48226	
24836 Fun City Cyclehouse	24836	Fun City Cyclehouse	Father, Mr. Robert Brooks	Salesperson	adventureworks davidB	25000 Eight Mile Road	Seattle	Washington	United States	98104	
24837 Mechanix Products USA	24837	Mechanix Products USA	Father, Mr. Michael Brunridge	Salesperson	adventureworks davidB	22055 Paseo De Las Americas	San Diego	California	United States	92102	
24838 Metro Cycle Shop	24838	Metro Cycle Shop	Father, Mr. Henry Campan	Salesperson	adventureworks davidB	2507 Pacific Ave S	Tacoma	Washington	United States	98403	

2.5. En el panel Fields (Fields), haga clic en la tabla Customers, si aún no está seleccionada.

The screenshot shows the Power BI Desktop interface with the 'Customers' table selected in the Fields pane. The Fields pane has a red box highlighting the 'Customers' entry under the 'Tables' section. The main area displays the data from the 'Customers' table, including columns like CompanyName, ContactName, Address, City, and StateProvince.

2.6. Haga clic con el botón derecho en la columna NameStyle y haga clic en Delete.

The screenshot shows the Power BI Desktop interface with the 'NameStyle' column selected in the Fields pane. A context menu is open over the 'NameStyle' column, with the 'Delete' option highlighted and a red box around it. The main area displays the data from the 'Customers' table.

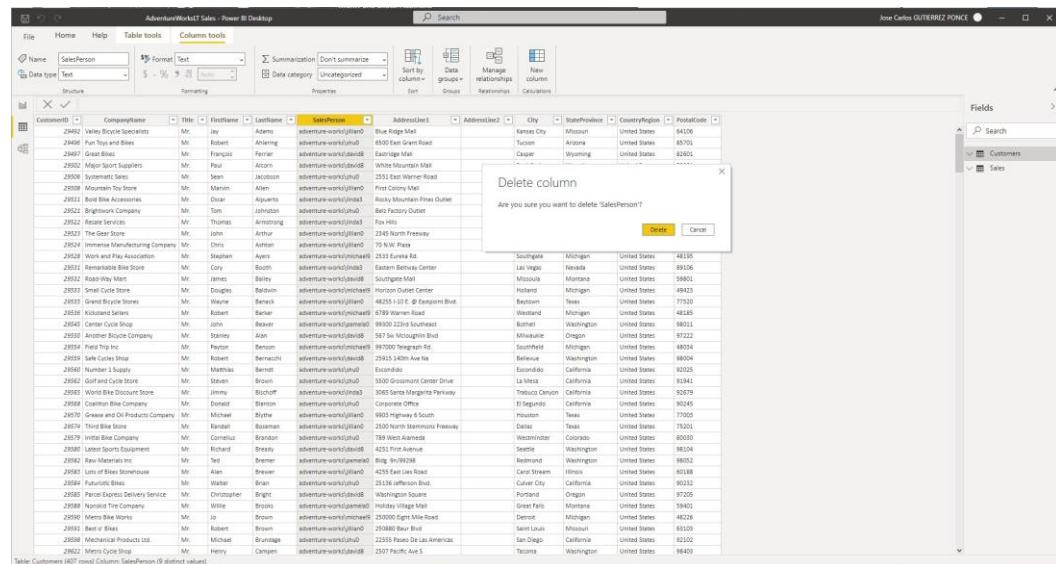
2.7. En el cuadro de diálogo Delete Column, haga clic en Delete.

The screenshot shows a Power BI Desktop interface with a 'Customers' table selected. A context menu is open over the 'NameStyle' column, and the 'Delete column' option is highlighted. A confirmation dialog box is displayed, asking if the user wants to delete the 'NameStyle' column. The 'Delete' button in the dialog box is highlighted with a red box.

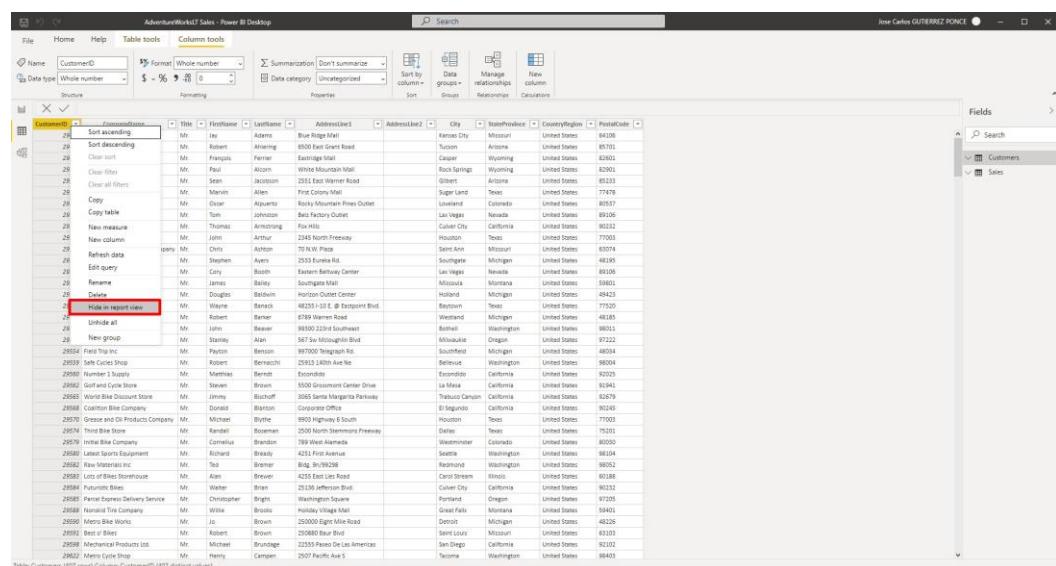
2.8. Haga clic con el botón derecho en la columna SalesPerson y haga clic en Delete.

The screenshot shows a Power BI Desktop interface with a 'Customers' table selected. A context menu is open over the 'SalesPerson' column header. The 'Delete' option in the menu is highlighted with a red box.

2.9. En el cuadro de diálogo Delete Column, haga clic en Delete.



2.10. Haga clic con el botón derecho en la columna CustomerID y luego haga clic en Hide in ReportView.



2.11. Haga clic en el encabezado de la columna AddressLine1.

The screenshot shows the 'Customers' table in Power BI Desktop. The 'AddressLine1' column is highlighted with a yellow background. The table contains 407 rows of customer information, including company names, titles, first names, last names, addresses, city, state/province, country/region, and postal code. The 'AddressLine1' column represents the full street address for each customer.

2.12. En la cinta Modeling, en el grupo Properties, haga clic en DataCategory: Uncategorized y luego en Address.

The screenshot shows the 'Customers' table in Power BI Desktop with the 'AddressLine1' column highlighted. The 'DataCategory' dropdown in the ribbon is set to 'Uncategorized' and has been changed to 'Address'. This indicates that the 'AddressLine1' column is now categorized as an address field. The table structure remains the same, but the category information is updated.

2.13. Haga clic en el encabezado de la columna City.

AdventureWorkLT Sales - Power BI Desktop

File Home Help Table tools Column tools

Structure

Name: City Data type: Text \$ %

Summarization: Don't summarize Data category: Uncategorized

Sort by column Sort by column

Sort by column Sort by column

Properties Data groups Manage relationships New column

Formatting

AddressLine1 AddressLine2 City StateProv ProvinceCity PostalCode

CustomerCity Missouri United States 64106

Tucson Arizona United States 85701

Casper Wyoming United States 82601

Rock Springs Wyoming United States 82901

Gilbert Arizona United States 85233

Sugar Land Texas United States 77478

Loveland Colorado United States 80537

Nevada Las Vegas United States 89106

Duluth City Minnesota United States 61212

Montgomery Texas United States 77422

Brent Ann Missouri United States 63074

Sparta Michigan United States 48195

Las Vegas Nevada United States 89106

Montana Missoula United States 59801

Holiday Park Center Minnesota United States 46413

Wichita Falls Texas United States 77320

Grand Rapids Michigan United States 49505

Bethel Washington United States 98011

Michigan Grand Rapids United States 49503

Southfield Michigan United States 48084

Bellevue Washington United States 98004

ExxonMobile California United States 92025

La Mesa California United States 91941

Trabuco Canyon California United States 92679

Missoula Montana United States 59805

Houston Texas United States 77003

Dallas Texas United States 75201

Westminster Colorado United States 80030

Seattle Washington United States 98104

Portland Washington United States 98122

Carlsbad California United States 92008

Orlando Florida United States 32832

St. Louis Missouri United States 63103

San Diego California United States 92102

Tacoma Washington United States 98403

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

2.14. En la cinta de Modeling, en el grupo Properties, haga clic en DataCategory: Uncategorized y, a continuación, haga clic en City.

AdventureWorkLT Sales - Power BI Desktop

File Home Help Table tools Column tools

Structure

Name: City Data type: Text \$ %

Summarization: Don't summarize Data category: Uncategorized

Sort by column Sort by column

Sort by column Sort by column

Properties Data groups Manage relationships New column

AddressLine1 AddressLine2 City StateProv ProvinceCity PostalCode

CustomerCity Missouri United States 64106

Tucson Arizona United States 85701

Casper Wyoming United States 82601

Rock Springs Wyoming United States 82901

Gilbert Arizona United States 85233

Sugar Land Texas United States 77478

Loveland Colorado United States 80537

Nevada Las Vegas United States 89106

Duluth City Minnesota United States 61212

Montgomery Texas United States 77422

Brent Ann Missouri United States 63074

Sparta Michigan United States 48195

Las Vegas Nevada United States 89106

Montana Missoula United States 59801

Holiday Park Center Minnesota United States 46413

Wichita Falls Texas United States 77320

Grand Rapids Michigan United States 49505

Bethel Washington United States 98011

Michigan Grand Rapids United States 49503

Southfield Michigan United States 48084

Bellevue Washington United States 98004

ExxonMobile California United States 92025

La Mesa California United States 91941

Trabuco Canyon California United States 92679

Missoula Montana United States 59805

Houston Texas United States 77003

Dallas Texas United States 75201

Westminster Colorado United States 80030

Seattle Washington United States 98104

Portland Washington United States 98122

Carlsbad California United States 92008

Orlando Florida United States 32832

St. Louis Missouri United States 63103

San Diego California United States 92102

Tacoma Washington United States 98403

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

2.15 Haga clic en el encabezado de la columna StateProvince.

Screenshot of Power BI Desktop showing the 'Customers' table. The 'StateProvince' column header is highlighted with a red box. The table contains 407 rows of customer data, including columns for CompanyName, Title, FirstName, LastName, AddressLine1, AddressLine2, City, StateProvince, CountryRegion, and PostalCode.

CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode
24947 Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106
24948 Fun Toys and Bikes	Mr.	Robert	Aherning	6500 East Grand Blvd		Tucson	Arizona	United States	85701
24949 Great Bikes	Mr.	Paul	Anderson	Eastgate Center		Casper	Wyoming	United States	82601
24950 Major Sport Suppliers	Mr.	Frank	Ferrari	Eastgate Mall		Rock Springs	Wyoming	United States	82911
24951 Sportsman Sales	Mr.	Sean	Jacobson	2551 East Warner Road		Gilbert	Arizona	United States	85233
24952 Mountain Toy Store	Mr.	Mervin	Allen	First Colony Mall		Sugar Land	Texas	United States	77476
24953 Bike Accessories	Mr.	Oscar	Alquiza	Rocky Mountain Fitness Outlet		Loveland	Colorado	United States	80537
24954 Brightwicks Company	Mr.	Toms	Johnstone	Bell Factory Outlet		Las Vegas	Nevada	United States	89206
24955 Bike Parts	Mr.	Thomas	Armstrong	Big Bikes		Culer City	California	United States	90212
24956 The Gear Store	Mr.	John	Arthur	2545 North Freezes		Bellevue	Washington	United States	98005
24957 Immense Manufacturing Company	Mr.	Chris	Arthurs	70 N.W. Plaza		Saint Ann	Missouri	United States	63074
24958 Action Bike Associates	Mr.	Stephen	Ayers	2553 Eureka Rd		Southgate	Michigan	United States	48195
24959 Remarable Bike Store	Mr.	Cony	Booth	Eastern Bicycles Center		Las Vegas	Nevada	United States	89106
24960 Road Bike Company	Mr.	James	Barker	Mountain Bike Center		Montgomery	Alabama	United States	36111
24961 Small Cycle Store	Mr.	Douglas	Bartlett	Mountain Bike Center		Houston	Texas	United States	77433
24962 Grand Bicycle Store	Mr.	Wayne	Beneck	48255 1-101 E. Fairpoint Blvd		Rocky View	Texas	United States	77520
24963 Kickstar Sellers	Mr.	Robert	Barker	6789 Warner Road		Westland	Michigan	United States	48185
24964 Center Cycle Shop	Mr.	John	Beaver	89300 22nd Southeast		Bethel	Washington	United States	98011
24965 Another Bike Company	Mr.	Alan	Bell	5811 Telegraph Blvd		Midvale	Oregon	United States	97222
24966 Paint the Town	Mr.	Robert	Bennett	897000 Telepath Rd		Southfield	Michigan	United States	48234
24967 Selle Cycles Shop	Mr.	Robert	Bennetti	25913 24th Ave N		Bellevue	Washington	United States	98004
24968 Number 1 Supply	Mr.	Matthew	Bennett	Econodile		Edmonds	California	United States	92025
24969 Gulfand Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		La Mesa	California	United States	91243
24970 World Bike Discount Store	Mr.	James	Brown	3045 Santa Margarita Parkway		Trabuco Canyon	California	United States	92779
24971 Bike Parts and Components	Mr.	Donald	Brown	89300 22nd Street		El Cajon	California	United States	92145
24972 Greese and Oil Products Company	Mr.	Michael	Bryant	9605 Highway 6 & South		Houston	Texas	United States	77055
24973 Third Bike Store	Mr.	Randal	Bosman	2550 North Stemmons Freeway		Dallas	Texas	United States	75201
24974 Initial Bike Company	Mr.	Cometius	Brandon	789 West Alameda		Westminster	Colorado	United States	80030
24975 Lemon Sports Equipment	Mr.	Richard	Breedy	4221 21st Avenue		Seattle	Washington	United States	98104
24976 Bike Parts	Mr.	Terri	Brennan	89300 22nd Street		Portland	Washington	United States	98102
24977 Los of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Las Ramblas		Carroll Stream	Illinois	United States	60188
24978 Futurists Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd		Culer City	California	United States	90232
24979 Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Portland	Oregon	United States	97205
24980 Novaria Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Great Falls	Montana	United States	59401
24981 Bike Parts and Store	Mr.	Jo	Brown	89300 22nd Street		Des Moines	Michigan	United States	48225
24982 Best n' Bikes	Mr.	Robert	Brown	250000 Eight Mile Road		Saint Louis	Missouri	United States	63103
24983 Mechanical Products Ltd.	Mr.	Michael	Brunridge	22550 Palms De Las Americas		San Diego	California	United States	92102
24984 Metro Cycle Shop	Mr.	Henry	Campen	2507 Pacific Ave S		Tacoma	Washington	United States	98403

2.16. En la cinta Modeling, en el grupo Properties, haga clic en DataCategory: Uncategorized y luego haga clic en State or Province.

Screenshot of Power BI Desktop showing the 'Customers' table. The 'StateProvince' column header is highlighted with a red box. The table contains 407 rows of customer data, including columns for CompanyName, Title, FirstName, LastName, AddressLine1, AddressLine2, City, StateProvince, CountryRegion, and PostalCode.

CompanyName	Title	FirstName	LastName	AddressLine1	AddressLine2	City	StateProvince	CountryRegion	PostalCode
24947 Valley Bicycle Specialists	Mr.	Jay	Adams	Blue Ridge Mall		Kansas City	Missouri	United States	64106
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24951 Sportsman Sales	Mr.	Sean	Jacobson	2551 East Warner Road		Gilbert	Arizona	United States	85233
24952 Mountain Toy Store	Mr.	Mervin	Allen	First Colony Mall		Sugar Land	Texas	United States	77476
24953 Bike Accessories	Mr.	Oscar	Alquiza	Rocky Mountain Fitness Outlet		Loveland	Colorado	United States	80537
24954 Brightwicks Company	Mr.	Toms	Johnstone	Bell Factory Outlet		Las Vegas	Nevada	United States	89206
24955 Bike Parts	Mr.	Thomas	Armstrong	Bike N' More		Culer City	California	United States	90232
24956 The Gear Store	Mr.	John	Arthur	2545 North Freezes		Houston	Texas	United States	77008
24957 Immense Manufacturing Company	Mr.	Chris	Arthurs	70 N.W. Plaza		Saint Ann	Missouri	United States	63074
24958 Action Bike Associates	Mr.	Stephen	Ayers	2553 Eureka Rd		Southgate	Michigan	United States	48195
24959 Remarable Bike Store	Mr.	Cony	Booth	Eastern Bicycles Center		Edmonds	Washington	United States	98020
24960 Road Bike Company	Mr.	James	Barker	Mountain Bike Center		Las Vegas	Nevada	United States	89106
24961 Small Cycle Store	Mr.	Douglas	Bartlett	Mountain Bike Center		Montgomery	Alabama	United States	36111
24962 Grand Bicycle Store	Mr.	Wayne	Beneck	48255 1-101 E. Fairpoint Blvd		Houston	Texas	United States	77433
24963 Kickstar Sellers	Mr.	Robert	Barker	6789 Warner Road		Rocky View	Texas	United States	77520
24964 Center Cycle Shop	Mr.	John	Beaver	89300 22nd Southeast		Des Moines	Michigan	United States	48185
24965 Another Bike Company	Mr.	Alan	Bell	5811 Telegraph Blvd		Seattle	Washington	United States	98104
24966 Paint the Town	Mr.	Robert	Bennett	897000 Telepath Rd		Portland	Washington	United States	98003
24967 Selle Cycles Shop	Mr.	Robert	Bennetti	25913 24th Ave N		Southfield	Michigan	United States	48234
24968 Number 1 Supply	Mr.	Matthew	Bennett	Econodile		Bellevue	Washington	United States	98004
24969 Gulfand Cycle Store	Mr.	Steven	Brown	5500 Grossmont Center Drive		Edmonds	California	United States	92025
24970 World Bike Discount Store	Mr.	James	Brown	3045 Santa Margarita Parkway		Trabuco Canyon	California	United States	92779
24971 Bike Parts and Components	Mr.	Donald	Bryant	89300 22nd Street		El Segundo	California	United States	90248
24972 Greese and Oil Products Company	Mr.	Michael	Bryte	9605 Highway 6 & South		Houston	Texas	United States	77005
24973 Third Bike Store	Mr.	Randal	Bosman	2550 North Stemmons Freeway		Dallas	Texas	United States	75201
24974 Initial Bike Company	Mr.	Cometius	Brennan	789 West Alameda		Westminster	Colorado	United States	80030
24975 Lemon Sports Equipment	Mr.	Richard	Breedy	4221 21st Avenue		Seattle	Washington	United States	98104
24976 Bike Parts	Mr.	Terri	Brennan	89300 22nd Street		Portland	Washington	United States	98003
24977 Los of Bikes Storehouse	Mr.	Alan	Brewer	4255 East Las Ramblas		Carroll Stream	Illinois	United States	60188
24978 Futurists Bikes	Mr.	Walter	Brian	25136 Jefferson Blvd		Culer City	California	United States	90232
24979 Parcel Express Delivery Service	Mr.	Christopher	Bright	Washington Square		Des Moines	Michigan	United States	48225
24980 Novaria Tire Company	Mr.	Willie	Brooks	Holiday Village Mall		Seattle	Washington	United States	98004
24981 Bike Parts and Store	Mr.	Jo	Brown	250000 Eight Mile Road		Portland	Michigan	United States	48226
24982 Best n' Bikes	Mr.	Robert	Brown	250000 Eight Mile Road		Saint Louis	Missouri	United States	63103
24983 Mechanical Products Ltd.	Mr.	Michael	Brunridge	22550 Palms De Las Americas		San Diego	California	United States	92102
24984 Metro Cycle Shop	Mr.	Henry	Campen	2507 Pacific Ave S		Tacoma	Washington	United States	98403

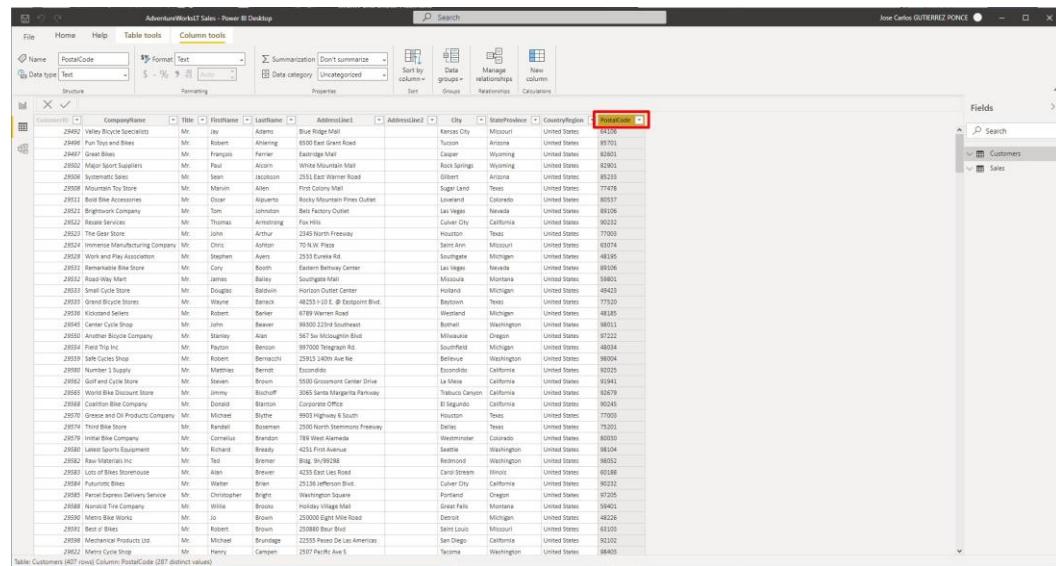
2.17. Haga clic en el encabezado de la columna CountryRegion.

The screenshot shows the 'Customers' table in Power BI Desktop. The 'CountryRegion' column header is highlighted with a red box. The table contains 407 rows of customer data, including columns for CompanyName, Title, FirstName, LastName, AddressLine1, AddressLine2, City, StateProvince, PostalCode, and a newly added 'CountryRegion' column. The 'CountryRegion' column lists various US states like Missouri, Arizona, Wyoming, etc. The Power BI ribbon at the top shows 'Table tools' and 'Column tools' selected. The 'Properties' pane on the right shows the 'Data category' set to 'Uncategorized'.

2.18. En la cinta Modeling, en el grupo Properties, haga clic en DataCategory: Uncategorized y luego haga clic en Country.

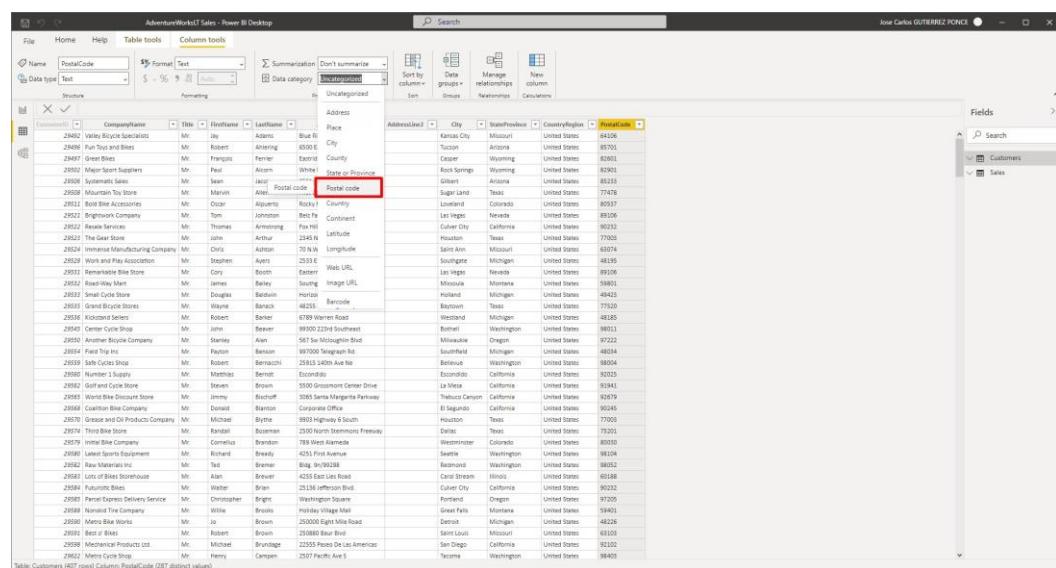
This screenshot shows the same 'Customers' table after performing the steps in question 2.18. The 'CountryRegion' column header is now part of the 'Country' group in the 'DataCategory' dropdown menu, indicated by a red box. The table structure remains the same, but the grouping of the 'CountryRegion' column has been changed. The Power BI ribbon and properties pane are visible at the top.

2.19. Haga clic en el encabezado de la columna PostalCode.



The screenshot shows a Power BI Desktop interface with a table titled 'AdventureWorkLT Sales'. The 'PostalCode' column is selected, indicated by a red box around its header. The table contains 407 rows of customer data, including columns for CompanyName, Title, FirstName, LastName, AddressLine1, AddressLine2, City, StateProvince, and CountryRegion. The 'PostalCode' column is part of the 'Address' section of the table structure.

2.20. En la cinta Modeling, en el grupo Properties, haga clic en DataCategory: Uncategorized y luego en Postal Code.



This screenshot shows the same Power BI Desktop interface as the previous one, but with a different setting for the 'PostalCode' column. In the 'Properties' group of the ribbon, the 'DataCategory' dropdown is set to 'Uncategorized', and the 'PostalCode' column is selected, indicated by a red box around its header. The table structure remains the same, showing 407 rows of customer data.

2.21. En la cinta Modeling, en el grupo Calculations, haga clic en NewColumn y luego en la barra de fórmulas, escriba la siguiente expresión y presione Enter:

Name	Column	Format	Summarization	Don't summarize	Sort by column	Data groups	Manage relationships	New column
Customers	CustomerID	Whole number	- %	0				
AddressLine1	AddressLine1							
AddressLine2	AddressLine2							
City	City							
StateProvince	StateProvince							
CountryRegion	CountryRegion							
PostalCode	PostalCode							
Customer	Customer							
AddressLine1	AddressLine1							
AddressLine2	AddressLine2							
City	City							
StateProvince	StateProvince							
CountryRegion	CountryRegion							
PostalCode	PostalCode							
Sales	Sales							

2.22. En el panel Fields (Fields), haga clic en Sales.

Name	Column	Formula	Relationships	Measure	Measure Column	Calculated
Customers	CustomerID					
AddressLine1	AddressLine1					
AddressLine2	AddressLine2					
City	City					
StateProvince	StateProvince					
CountryRegion	CountryRegion					
PostalCode	PostalCode					
Customer	Customer					
AddressLine1	AddressLine1					
AddressLine2	AddressLine2					
City	City					
StateProvince	StateProvince					
CountryRegion	CountryRegion					
PostalCode	PostalCode					
Sales	Sales	Sales = Table[Customers][AddressLine1] & ", & Table[AddressLine2] & ", " & Table[City] & ", " & Table[StateProvince] & ", " & Table[CountryRegion] & ", " & Table[PostalCode]				

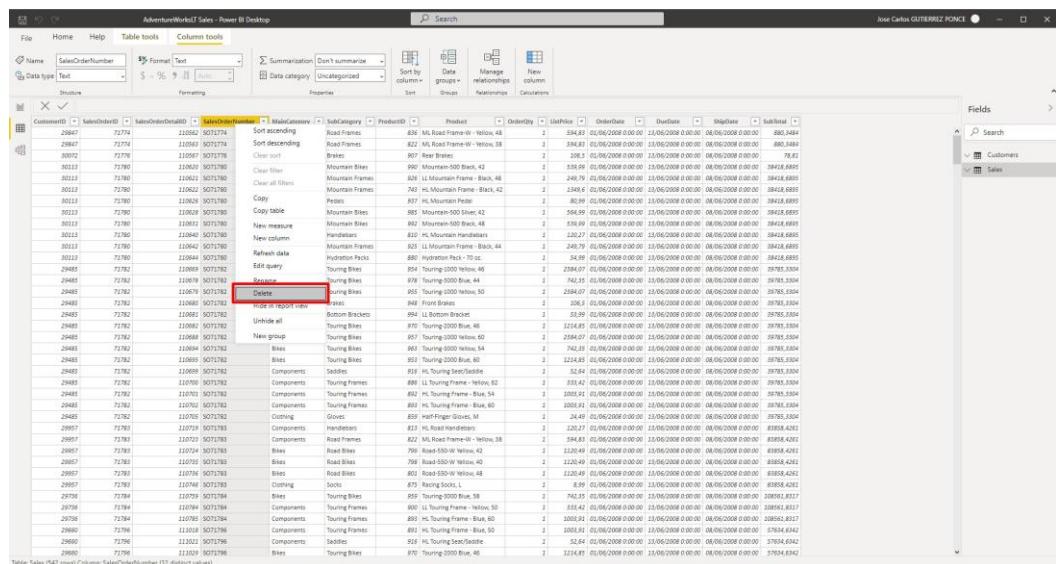
2.23. Haga clic con el botón derecho en la columna RevisionNumber y haga clic en Delete.

The screenshot shows the Power BI Desktop interface with a data view containing 542 rows. A context menu is open over the 'RevisionNumber' column header. The 'Delete' option is highlighted with a red box. Other visible options in the menu include 'Sort ascending', 'Sort descending', 'Clear sort', 'Clear filter', 'Clear all filters', 'Copy', 'Copy table', 'New measure', 'New column', 'Handle duplicate', 'Refresh data', 'Edit query', 'Rename', 'Delete', 'Hide in report view', 'Unhide all', 'New group', and 'Tiling'.

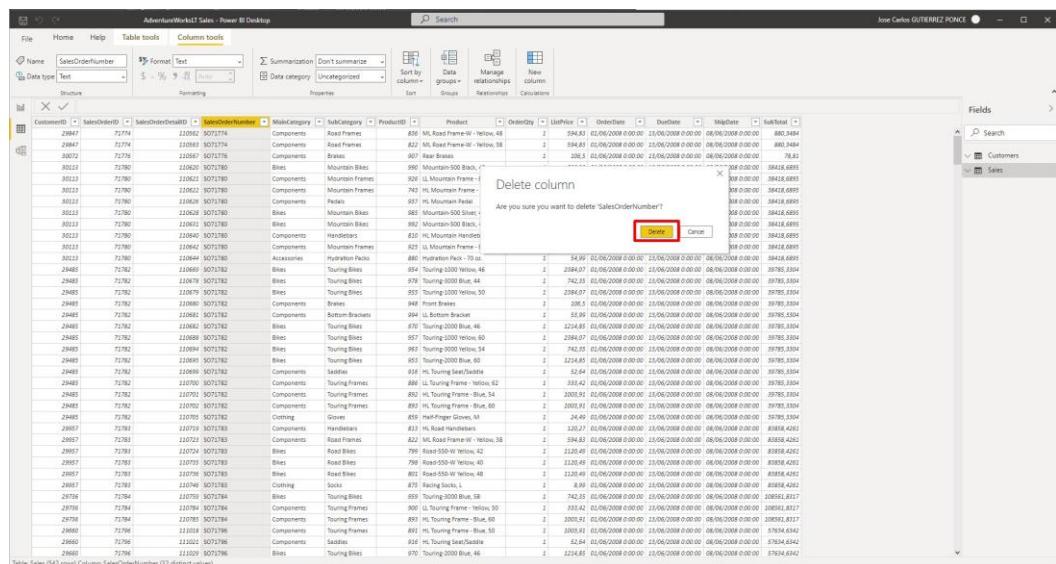
2.24. En el cuadro de diálogo Delete Column, haga clic en Delete.

The screenshot shows the Power BI Desktop interface with a data view containing 542 rows. A 'Delete column' dialog box is open, asking 'Are you sure you want to delete 'RevisionNumber'?'. The 'Delete' button is highlighted with a red box. The dialog also includes 'Cancel' and 'OK' buttons.

2.25. Haga clic con el botón derecho en la columna SalesOrder-Number y haga clic en Delete.



2.26. En el cuadro de diálogo Delete Column, haga clic en Delete.



2.28. Haga clic con el botón derecho en la columna CustomerID y luego haga clic en Hide in ReportView.

2.29. Haga clic con el botón derecho en la columna SalesOrderID y luego haga clic en Hide in ReportView.

2.30. Haga clic con el botón derecho en la columna SalesOrderDetailID y luego haga clic en Hide in ReportView.

The screenshot shows the Power BI Desktop interface with the 'Sales' report view selected. A context menu is open over the 'SalesOrderDetailID' column header, specifically highlighting the 'Hide in ReportView' option under the 'Fields' section.

2.31. En la cinta Modeling, en el grupo Calculations, haga clic en NewColumn y luego en la barra de fórmulas, escriba la siguiente expresión y presione Enter:

The screenshot shows the Power BI Desktop interface with the 'Modeling' ribbon tab selected. In the 'Calculations' group, the 'New Column' button is highlighted. A formula bar at the top displays the expression: `LineTotal = SalesOrderDetailID * SalesOrderQuantity`. This indicates that a new calculated column named 'LineTotal' has been created based on the specified formula.

2.32. Haga clic en el encabezado de la columna LineTotal.

The screenshot shows the 'Sales' table in Power BI Desktop. The 'LineTotal' column is highlighted with a yellow selection bar at the top of the column header. The table contains 542 rows and 239 distinct values. The columns include SalesID, OrderID, CustomerID, ProductID, OrderDate, ShipDate, and LineTotal.

SalesID	OrderID	CustomerID	ProductID	OrderDate	ShipDate	LineTotal
20847	71774	110682	Components	Road Frames	828_ML_Road_Frame-W_Vellow_48	1 394.83 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 880,3484 394.83
20847	71774	110683	Components	Road Frames	822_ML_Road_Frame-W_Vellow_38	1 394.83 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 880,3484 394.83
20847	71774	110684	Components	Bikes	807_Rear_Brakes	1 208.1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 78,41 208.1
20847	71774	110685	Components	Mountain Bikes	823_ML_Mountain_Frame-BK_48	1 539.89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 1048,5398 539.89
20847	71774	110686	Components	Mountain Bikes	743_ML_Mountain_Frame_Brach_48	1 249.79 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 249.79
20847	71774	110687	Components	Mountain Bikes	742_ML_Mountain_Frame_Brach_42	1 1348,1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 1348,1
20847	71774	110688	Components	Pedals	837_ML_Mountain_Pedal	1 80,89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 80.89
20847	71774	110689	Components	Bikes	895_Mountain-Handlebar_42	1 304,89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 304.89
20847	71774	110690	Components	Mountain Bikes	828_ML_Mountain_Frame_Brach_48	1 108,1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 108.1
20847	71774	110691	Components	Handlebars	822_ML_Mountain_Handlebars	1 220,27 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 220.27
20847	71774	110692	Components	Mountain Frames	823_ML_Mountain_Frame_Brach_44	1 249,79 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 249.79
20847	71774	110693	Components	Hydration Pads	880_Hydration_Pack_70_ml	1 54,89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 3848,8895 54.89
20847	71782	110694	Components	Touring Bikes	807_Touring_2000_Yellow_46	1 2788,27 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2788,27
20847	71782	110695	Components	Touring Bikes	807_Touring_2000_Yellow_44	1 264,1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 264.1
20847	71782	110696	Components	Touring Bikes	805_Touring_2000_Yellow_50	1 2354,07 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2354,07
20847	71782	110697	Components	Bikes	849_Front_Brakes	1 106,1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 106.1
20847	71782	110698	Components	Bottom_Brackets	824_ML_Lower_Bottom_Bracket	1 53,89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 53.89
20847	71782	110699	Components	Touring Bikes	879_Touring_2000_Blue_46	1 2214,83 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2214.83
20847	71782	110700	Components	Touring Bikes	878_Touring_2000_Blue_40	1 208,1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 208.1
20847	71782	110701	Components	Touring Bikes	861_Touring_2000_Yellow_34	1 742,31 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 742.31
20847	71782	110702	Components	Touring Bikes	861_Touring_2000_Yellow_50	1 334,42 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 334.42
20847	71782	110703	Components	Touring Frames	807_Touring_Frame-Yellow_54	1 2007,1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2007.1
20847	71782	110704	Components	Touring Frames	807_Touring_Frame-Yellow_38	1 384,89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 384.89
20847	71782	110705	Clothing	Gloves	659_Half_Finger_Gloves_M	1 24,49 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 24.49
20847	71782	110706	Components	Handlebars	821_ML_Road_Handlebars	1 120,27 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 120.27
20847	71782	110707	Components	Road_Frames	822_ML_Road_Frame-W_Vellow_38	1 394,83 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 394.83
20847	71782	110708	Components	Road_Bikes	799_Road_550_W_Vellow_42	1 120,49 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 120.49
20847	71782	110709	Components	Road_Bikes	800_Road_550_W_Vellow_40	1 120,49 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 120.49
20847	71782	110710	Components	Road_Bikes	801_Road_550_W_Vellow_46	1 120,49 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 120.49
20847	71782	110711	Components	Saddles	879_Touring_Saddle	1 52,64 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 52.64
20847	71782	110712	Components	Saddles	870_Touring_Saddle	1 2214,83 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2214.83
20847	71782	110713	Components	Touring_Saddles	873_Touring_Saddle	1 8,99 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 8.99
20847	71782	110714	Components	Touring_Frames	881_H_Touring_Frame-Yellow_54	1 742,31 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 742.31
20847	71782	110715	Components	Touring_Frames	802_M_Touring_Frame-Yellow_38	1 334,42 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 334.42
20847	71782	110716	Components	Touring_Frames	802_M_Touring_Frame-Yellow_46	1 384,89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 384.89
20847	71782	110717	Components	Touring_Frames	802_M_Touring_Frame-Yellow_50	1 384,89 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 384.89
20847	71782	110718	Components	Touring_Frames	802_M_Touring_Frame-Yellow_40	1 288,1 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 288.1
20847	71782	110719	Components	Touring_Frames	802_M_Touring_Frame-Yellow_54	1 742,31 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 742.31
20847	71782	110720	Components	Touring_Frames	802_M_Touring_Frame-Yellow_48	1 2384,07 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2384.07
20847	71782	110721	Components	Touring_Frames	802_M_Touring_Frame-Yellow_50	1 742,31 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 742.31
20847	71782	110722	Components	Touring_Frames	802_M_Touring_Frame-Yellow_44	1 2384,07 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2384.07
20847	71782	110723	Components	Touring_Frames	802_M_Touring_Frame-Yellow_46	1 2384,07 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 2384.07
20847	71782	110724	Components	Touring_Frames	802_M_Touring_Frame-Yellow_52	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110725	Components	Touring_Frames	802_M_Touring_Frame-Yellow_54	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110726	Components	Touring_Frames	802_M_Touring_Frame-Yellow_56	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110727	Components	Touring_Frames	802_M_Touring_Frame-Yellow_58	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110728	Components	Touring_Frames	802_M_Touring_Frame-Yellow_60	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110729	Components	Touring_Frames	802_M_Touring_Frame-Yellow_50	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110730	Components	Touring_Frames	802_M_Touring_Frame-Yellow_52	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110731	Components	Touring_Frames	802_M_Touring_Frame-Yellow_54	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110732	Components	Touring_Frames	802_M_Touring_Frame-Yellow_56	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110733	Components	Touring_Frames	802_M_Touring_Frame-Yellow_58	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110734	Components	Touring_Frames	802_M_Touring_Frame-Yellow_60	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110735	Components	Touring_Frames	802_M_Touring_Frame-Yellow_52	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110736	Components	Touring_Frames	802_M_Touring_Frame-Yellow_54	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110737	Components	Touring_Frames	802_M_Touring_Frame-Yellow_56	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110738	Components	Touring_Frames	802_M_Touring_Frame-Yellow_58	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110739	Components	Touring_Frames	802_M_Touring_Frame-Yellow_60	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110740	Components	Touring_Frames	802_M_Touring_Frame-Yellow_50	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110741	Components	Touring_Frames	802_M_Touring_Frame-Yellow_52	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110742	Components	Touring_Frames	802_M_Touring_Frame-Yellow_54	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110743	Components	Touring_Frames	802_M_Touring_Frame-Yellow_56	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110744	Components	Touring_Frames	802_M_Touring_Frame-Yellow_58	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110745	Components	Touring_Frames	802_M_Touring_Frame-Yellow_60	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110746	Components	Touring_Frames	802_M_Touring_Frame-Yellow_52	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110747	Components	Touring_Frames	802_M_Touring_Frame-Yellow_54	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110748	Components	Touring_Frames	802_M_Touring_Frame-Yellow_56	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110749	Components	Touring_Frames	802_M_Touring_Frame-Yellow_58	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110750	Components	Touring_Frames	802_M_Touring_Frame-Yellow_60	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110751	Components	Touring_Frames	802_M_Touring_Frame-Yellow_50	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110752	Components	Touring_Frames	802_M_Touring_Frame-Yellow_52	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110753	Components	Touring_Frames	802_M_Touring_Frame-Yellow_54	1 3003,91 01/06/2008 00:00 13/06/2008 00:00 08/06/2008 00:00 39785,3304 3003.91
20847	71782	110754	Components	Touring_Frames	802_M_Touring_Frame-Yellow_56	1 3003,

2.34. En la cinta Modeling, en el grupo Calculations, haga clic en NewMeasure y luego en la barra de fórmulas, escriba la siguiente expresión y presione Enter.

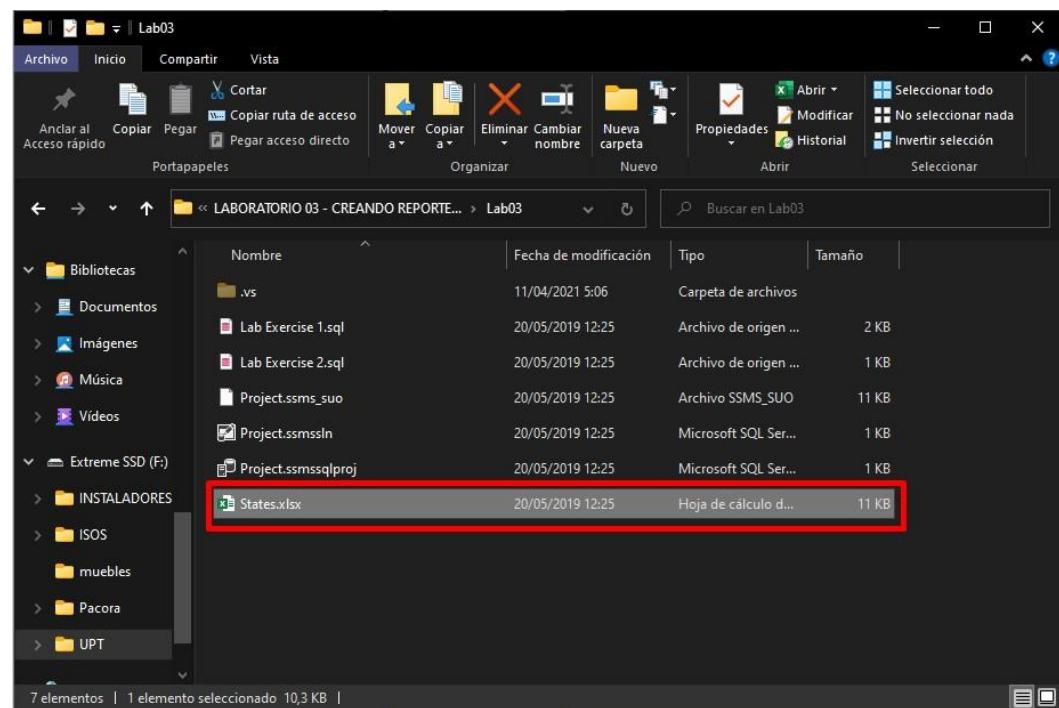
The screenshot shows the Power BI Desktop interface with the 'Measure' tool selected in the ribbon. The formula bar at the top contains the expression: =SUM(Sales[LineTotal]) + 12. The 'Fields' pane on the right lists various tables and columns, including 'Customers', 'Sales', 'OrderDate', 'ProductID', 'Product', 'OrderQty', 'UnitPrice', 'SubTotal', 'LineTotal', 'CustomerID', 'SalesID', 'OrderDate', 'ShipCity', 'ShipCountry', 'ShipName', 'ShipPostalCode', 'ShipRegion', 'ShipStreet', 'Sales[LineTotal]', and 'Sales[SubTotal]'. The main data grid shows sales data with columns like ProductID, Product, OrderQty, UnitPrice, SubTotal, LineTotal, and Sales[LineTotal].

2.35. Haga clic en Save y deje Power BI Desktop abierto para la siguiente tarea.

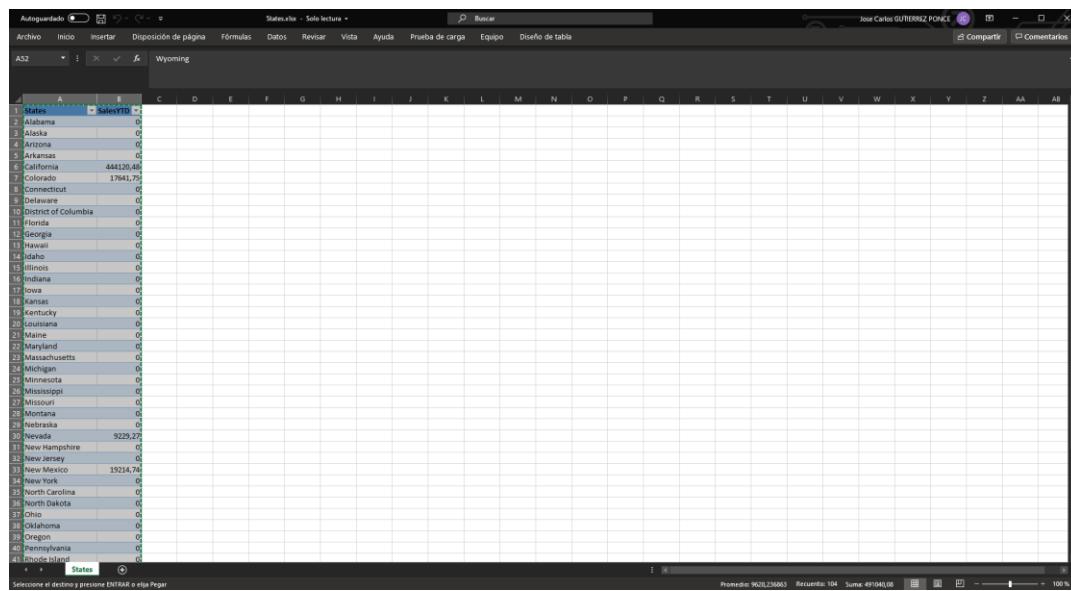
This screenshot is identical to the previous one, showing the Power BI Desktop interface with the 'Measure' tool selected. The formula bar still displays the expression =SUM(Sales[LineTotal]) + 12. The 'Fields' pane and the main data grid are also the same, displaying sales data with various columns and the newly created measure.

3. Combinar Data

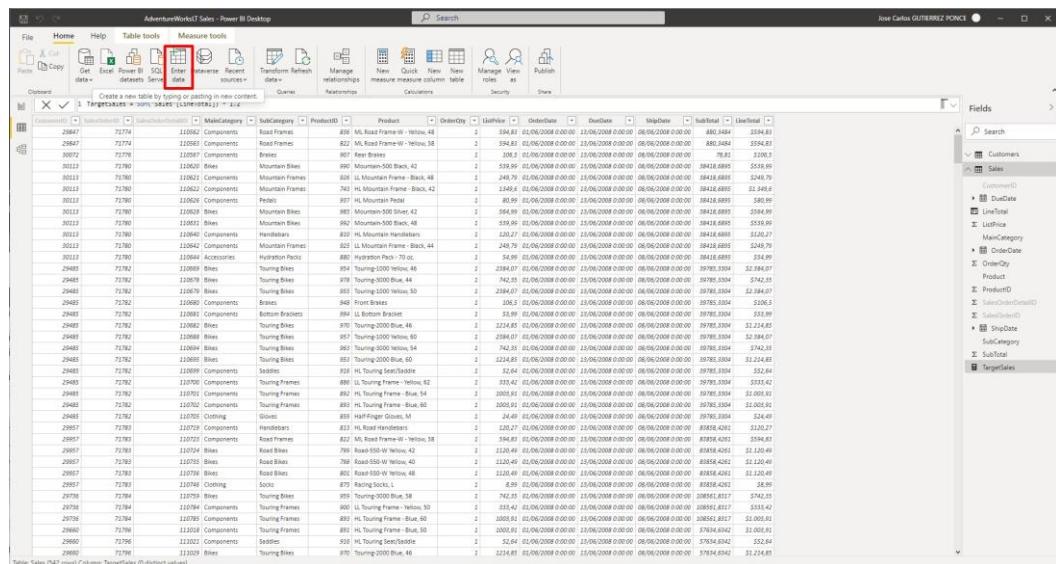
3.1. En el Explorador de archivos y luego abra el archivo States.xlsx.



3.2. En la hoja de trabajo de States, seleccione todos los valores en las dos columnas y luego presione Ctrl + C.



3.3. En Power BI Desktop, en la cinta Home, haga clic en Enter Data.



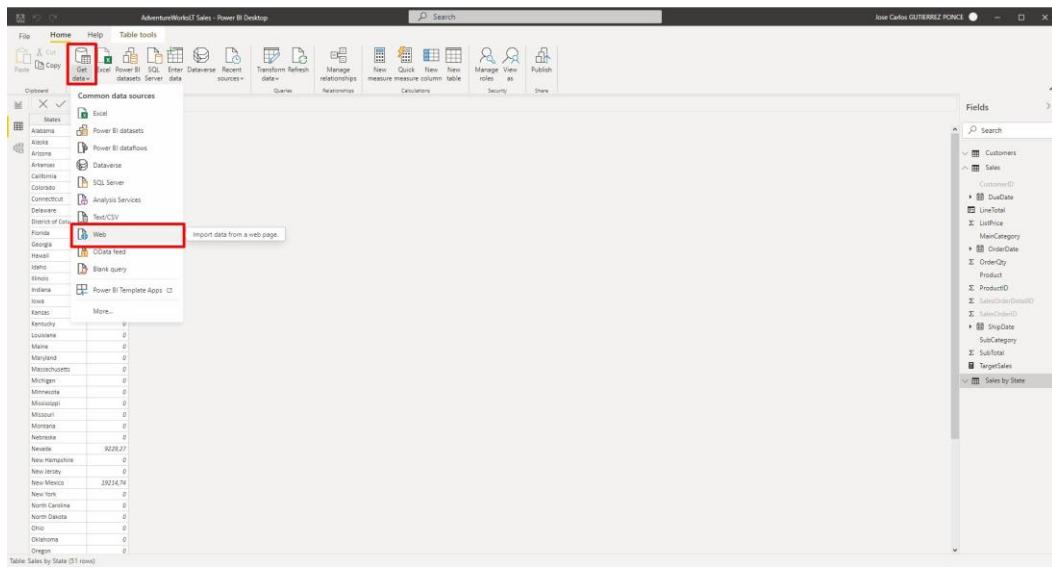
3.4. En el cuadro de diálogo Crear tabla, haga clic en la tabla y luego presione Ctrl + V. Power BI detecta que la primera fila es un encabezado de columna.

Name	Value
1	Alabama
2	Aleka
3	Arizona
4	Arkansas
5	California
6	Colorado
7	Connecticut
8	District of Columbia
9	Florida
10	Georgia
11	Hawaii
12	Idaho
13	Illinois
14	Indiana
15	Iowa
16	Kansas
17	Kentucky
18	Louisiana
19	Maine
20	Maryland
21	Massachusetts

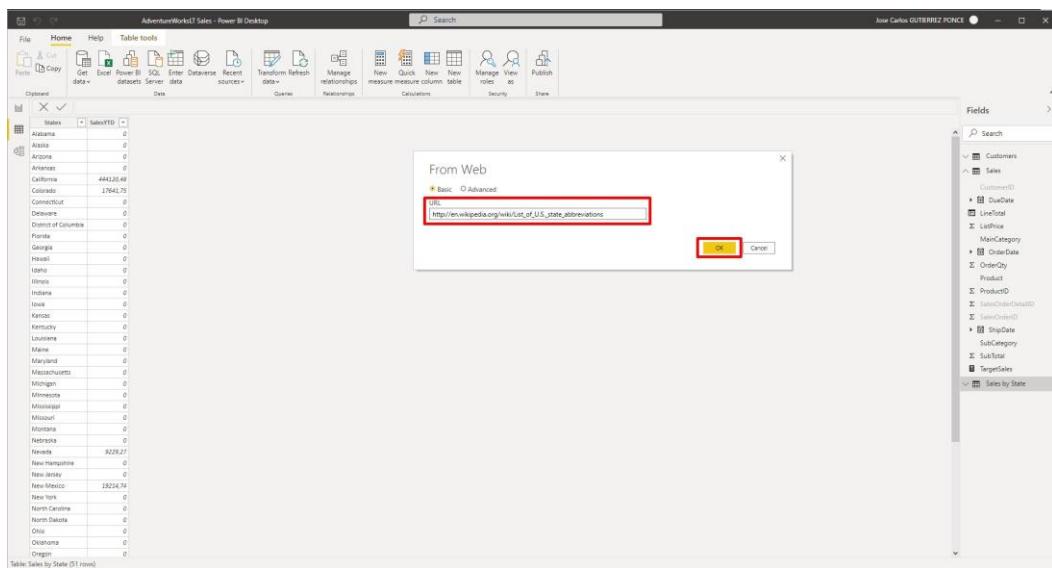
3.5. En el cuadro Name, escriba Sales by State y luego haga clic en Load.

Name	Value
1	Alabama
2	Alaska
3	Arizona
4	Arkansas
5	California
6	Colorado
7	Connecticut
8	Delaware
9	District of Columbia
10	Florida
11	Georgia
12	Hawaii
13	Idaho
14	Illinois
15	Indiana
16	Iowa
17	Kansas
18	Kentucky
19	Louisiana
20	Maine
21	Massachusetts

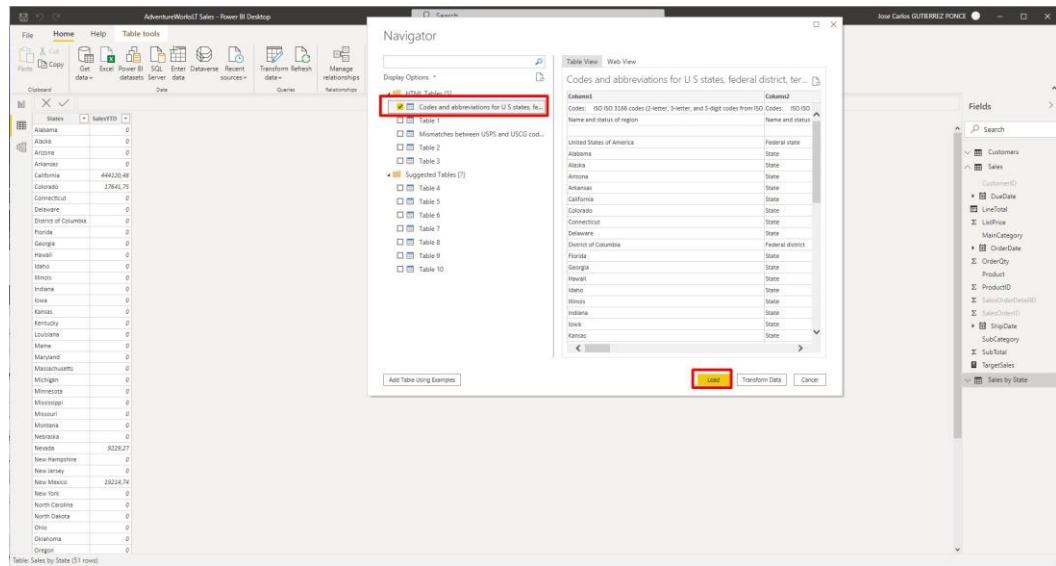
3.6. En la cinta Home, haga clic en Get Data y luego en Web.



3.7. En el cuadro de diálogo From Web, en el cuadro URL, escriba http://en.wikipedia.org/wiki/List_of_U.S._state_abbreviations, a continuación, haga clic en OK.



3.8. En el cuadro de diálogo Navigator, seleccione Codes and abbreviations for U.S. states, territories and other regions. Y luego haga clic en Load.



3.9. En el panel Fields (Fields), haga clic en Codes and abbreviations for U.S. states, territories and other regions. Para mostrar los datos. La tabla tiene 26 filas en la parte inferior que no son necesarias.

Column1	Column2	Column3	Column4	Column5	Column6
South Carolina	State	US-SC	SC	45	SC
South Dakota	State	US-SD	SD	46	SD
Tennessee	State	US-TN	TN	47	TN
Texas	State	US-TX	TX	48	TX
Utah	State	US-UT	UT	49	UT
Vermont	State	US-VT	VT	50	VT
Virginia	State	US-VN	VA	51	VA
Washington	State	US-WA	WA	53	WA
West Virginia	State	US-WV	WV	54	WV
Wisconsin	State	US-WI	WI	55	WI
Wyoming	State	US-WY	WY	56	WY
American Samoa	Insular area (Territory)	ASAMERISUS-AS	AS	60	AS
Guam	Insular area (Territory)	GUMAMERISUS-GU	GU	61	GU
Northern Mariana Islands	Insular area (Commonwealth)	MNPAMERISUS-MP	MP	69	MP
Puerto Rico	Insular area (Commonwealth)	PRPAMERISUS-PR	PR	72	PR
U.S. Virgin Islands	Insular area (Territory)	VUVIRBISUS-VI	VI	78	VI
U.S. Minor Outlying Islands	Insular areas	UMAMERISUS-UM	UM	74	
Baker Island	Island	UM-01		75	
Howard Island	Island	UM-04		84	
Jenius Island	Island	UM-05		86	
Johnston Atoll	atoll	UM-07		67	
Kingman Reef	atoll	UM-09		89	
Palmyra Atoll	atoll	UM-73		73	
Neviso Island	Island	UM-75		76	
Petemura Atoll[2]	atoll[2]	UM-95		95	
Wake Island	atoll	UM-79		79	
Micronesia	Federated states	FMPAMERISUS-FM	FM	64	FM
Marshall Islands	Federated states	MHRAMERISUS-MH	MH	68	MH
Pohnpei	Federated states	PFPMERISUS-PF	PF	70	PF
U.S. Armed Forces - America[3]	U.S. military mail code	USARMERISUS-US			AA
U.S. Armed Forces - Europe[4]	U.S. military mail code	USARMERISUS-EU			AE
U.S. Armed Forces - Pacific[5]	U.S. military mail code	USARMERISUS-PA			AP
Panama Canal Zone	Ciudad Balboa	POFC2994			CA
Nebraska	Ciudad Balboa	POFC2994			NE
Philippine Islands	Ciudad Balboa	POPHL0009			PI
Trust Territory of the Pacific Islands	Ciudad Balboa	POFC5522			TT

3.10. En el Editor de consultas, en el panel Query, haga clic en Codes and abbreviations for U.S. states, territories and other regions.

The screenshot shows the Power BI Desktop interface with the 'Query Editor' open. The 'Home' tab is selected. In the top ribbon, the 'Transform data' button is highlighted with a red box. The main area displays a table titled 'Codes and abbreviations for U.S. states, territories and other regions'. The table contains two columns: 'Codes' and 'Abbreviations'. The 'Codes' column lists various US state abbreviations and codes like AS, GU, MP, PR, VI, and UM. The 'Abbreviations' column lists corresponding names like American Samoa, Guam, Northern Mariana Islands, Puerto Rico, US Virgin Islands, and US Minor Outlying Islands. The right side of the screen shows the 'Fields' pane with a tree view of the table's structure, including columns for 'CustomerID', 'Date', 'LastPhon', 'MailCategory', 'OrderDate', 'OrderQty', 'Product', 'ProductID', 'SalesOrderDetailID', 'ShipDate', 'SubCategory', 'SubTotal', 'TargetSales', and 'SalesYTD'.

3.11. En la cinta Home, haga clic en Reduce Rows, haga clic en Remove Rows y, a continuación, haga clic en Remove Bottom Rows.

This screenshot shows the Power BI Desktop Query Editor with the 'Home' tab selected. The 'Transform data' button is also highlighted with a red box. The main area displays a table titled 'Codes and abbreviations'. The table has two columns: 'Codes' and 'Abbreviations'. The 'Codes' column includes ISO codes (e.g., US, CA, DE, AU, AR, etc.) and US state abbreviations (e.g., AL, AK, AZ, AR, CA, CO, CT, DE, DC, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, MD, ME, MI, MN, MO, ND, NE, NH, NJ, NM, NV, NY, NC, ND, RI, SD, VA, VT, WA, WI, WY). The 'Abbreviations' column lists the names of US states and territories. A 'Properties' pane on the right shows the table's name is 'Codes and abbreviations for U.S. states, territories and other regions' and its source is 'Extracted Table from HTML'. The 'APPLIED STEPS' section shows the 'Changed Type' step. The bottom right corner of the editor shows a preview of the data with the message 'PREVIEW DOWNLOADED AT 6:07 AM'.

3.12. En el cuadro de diálogo Remove Bottom Rows, en el cuadro Number of rows, escriba 26 y, a continuación, haga clic en OK.

The screenshot shows the Power Query Editor interface with the 'Remove Bottom Rows' dialog box open. The 'Number of rows' input field contains the value '26'. The 'OK' button at the bottom right of the dialog box is highlighted with a red box.

3.13. Haga clic en el encabezado de la columna ANSI2 y luego mantenga presionada la tecla Ctrl mientras selecciona todas las columnas a la derecha. Esto selecciona varias filas.

The screenshot shows the Power Query Editor interface with the 'Remove Bottom Rows' dialog box open. The 'Number of rows' input field contains the value '26'. The 'OK' button at the bottom right of the dialog box is highlighted with a red box. In the main query grid, the 'ANSI2' column header is selected, and a blue selection bar covers several columns to its right, indicating that multiple columns are selected.

3.14. Manteniendo presionada la tecla Ctrl, haga clic en las columnas Name and status of region2 y Header para incluir esto en la selección.

The screenshot shows the Power BI Desktop interface with the 'AdventureWorkLT Sales - Power BI Desktop' project open. In the center, the 'Power Query Editor' is displayed, showing the 'Codes and abbreviations' query. The ribbon at the top has 'Column tools' selected. On the left, the 'Columns' pane shows various columns like 'ISO', 'Name and status of region', 'USPS', etc. A red box highlights the 'Name and status of region2' column in the dropdown menu under 'Column tools'. The main area shows a table with data for US states, federal districts, territories, and other entities. The bottom status bar indicates 'Norman MI | 10 COLUMNS, 55 ROWS'.

3.1. En la cinta Home, haga clic en Manage Columns, haga clic en Remove Columns y luego haga clic en Remove Columns.

This screenshot is from the same Power BI Desktop session as the previous one. The 'Power Query Editor' is still showing the 'Codes and abbreviations' query. The ribbon now has 'Home' selected. A red box highlights the 'Remove' button in the 'Manage Columns' section of the ribbon. The main area of the editor shows the same data table as before. The bottom status bar indicates 'Norman MI | 10 COLUMNS, 55 ROWS'.

3.15. En el panel Query Settings, en Properties, en el cuadro Name, escriba States with Codes y luego presione Enter.

The screenshot shows the Power BI Desktop interface with the 'AdventureWorkLT Sales' dataset open. In the top ribbon, the 'Table tools' tab is selected. On the left, the 'Queries' pane lists several queries, including 'Codes and abbreviations'. The main area displays a table with columns for ISO, Name, and status of region. A context menu is open over the first row of the table, with the 'Properties' option highlighted by a red box. To the right, the 'Query Settings' dialog box is open, showing the 'Name' field with the value 'Codes and abbreviations for U.S. states'. The 'APPLIED STEPS' pane at the bottom of the dialog box shows the step 'Removed Bottom Rows'.

3.16. En la cinta Home, en el grupo Transform, haga clic en Use First Row as Headers.

This screenshot shows the 'Query Properties' dialog box from the previous step. The 'Name' field is now filled with 'States with Codes'. The 'OK' button at the bottom right of the dialog box is highlighted with a red box. The background shows the same Power BI interface with the 'Codes and abbreviations' query selected in the 'Queries' pane.

3.17. Haga clic con el botón derecho en el encabezado de la columna United States of America, haga clic en Rename, escriba State Name y luego presione Enter.

The screenshot shows the Power BI Desktop interface with the 'AdventureWorksLT Sales' data model selected. In the 'Queries' pane, the 'States with Codes' query is open. The 'United States of America' column is selected, and a context menu is displayed, with the 'Rename...' option highlighted. The 'APPLIED STEPS' pane on the right shows the history of steps taken on this query, including 'Removed Bottom Rows' and 'Renamed Columns'. The 'PREVIEW' pane at the bottom shows the first few rows of the data.

3.18. Haga clic con el botón derecho en el encabezado de la columna United States of America, haga clic en Rename, escriba State Name y luego presione Enter

This screenshot is identical to the previous one, showing the Power BI Desktop interface with the 'AdventureWorksLT Sales' data model. The 'States with Codes' query is open, and the 'United States of America' column is selected with a context menu open, specifically highlighting the 'Rename...' option. The 'APPLIED STEPS' pane and the preview of the data at the bottom remain the same.

3.19. Haga clic con el botón derecho en el encabezado de la columna US USA 840, haga clic en Rename, escriba State Code Long y luego presione Enter.

The screenshot shows the Power BI Desktop interface with the 'AdventureWorkLT Sales' query editor open. The 'State Name' column is selected, and a context menu is open over it. The 'Rename...' option is highlighted with a red box. The 'APPLIED STEPS' pane on the right shows the step 'Renamed Column' with the new name 'State Code Long'. The preview pane at the bottom shows the updated column names.

3.20. Haga clic con el botón derecho en el encabezado de la columna de US, haga clic en Rename, escriba State Code Short y luego presione Enter.

The screenshot shows the Power BI Desktop interface with the 'AdventureWorkLT Sales' query editor open. The 'State Name' column is selected, and a context menu is open over it. The 'Rename...' option is highlighted with a red box. The 'APPLIED STEPS' pane on the right shows the step 'Renamed Column' with the new name 'State Code Short'. The preview pane at the bottom shows the updated column names.

3.21. En el panel Queries, haga clic en Sales by State.

3.22. En la cinta Home, haga clic en Combine y luego en Merge Queries.

3.23. En el cuadro de diálogo Merge, en la tabla Sales by State, haga clic en la columna States.

The screenshot shows the Power BI Desktop interface with the 'Merge' dialog box open. The 'Sales by State' table is selected as the main table. The 'States' column is highlighted with a red box. The 'States with Codes' table is also visible in the background. The 'Merge' dialog box displays the columns from both tables and provides options for joining them.

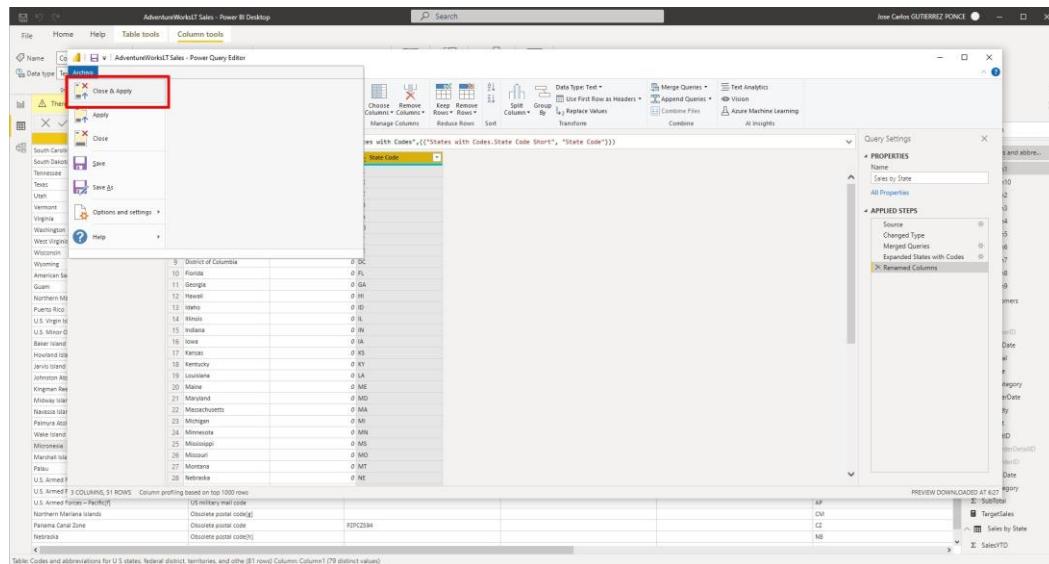
3.24. En la lista, haga clic en States with Codes, haga clic en la columna State Name y, a continuación, haga clic en OK. La nueva columna se agrega a la tabla y contiene la tabla States with Codes combinados.

The screenshot shows the Power BI Desktop interface with the 'Merge' dialog box open. The 'States with Codes' table is selected as the main table. The 'State Name' column is highlighted with a red box. The 'OK' button is highlighted with a yellow box. The 'Merge' dialog box displays the columns from both tables and provides options for joining them.

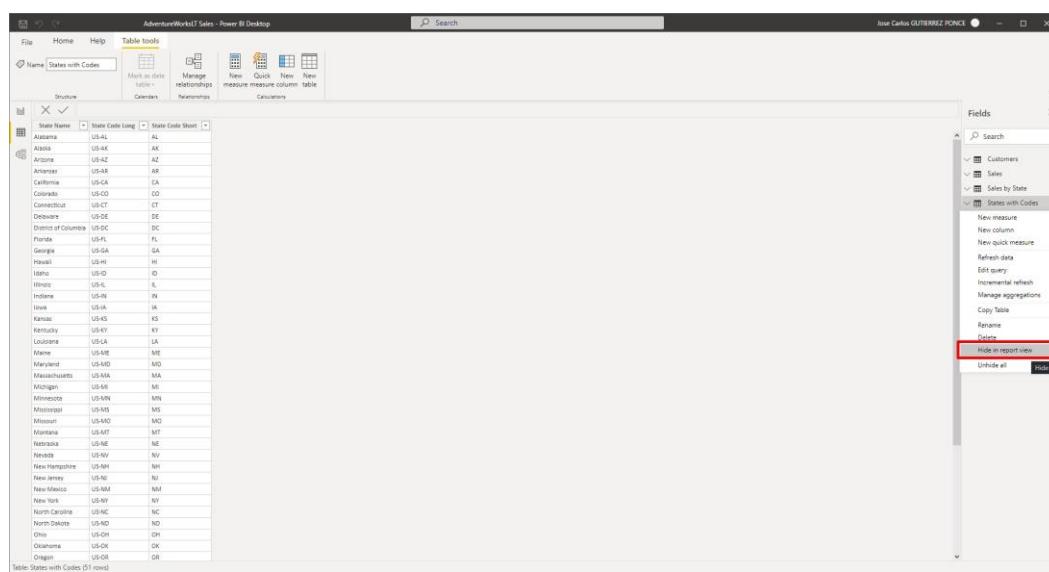
3.25. En el encabezado de la columna, haga clic en el icono Expand, desactive (Select All Columns), seleccione State Code Short y luego haga clic en OK. La columna ahora muestra solo los códigos de estado.

3.26. Haga clic con el botón derecho en la columna, haga clic en Rename, escriba State Code y luego presione Enter.

3.27. En el menú File, haga clic en Close & Apply.

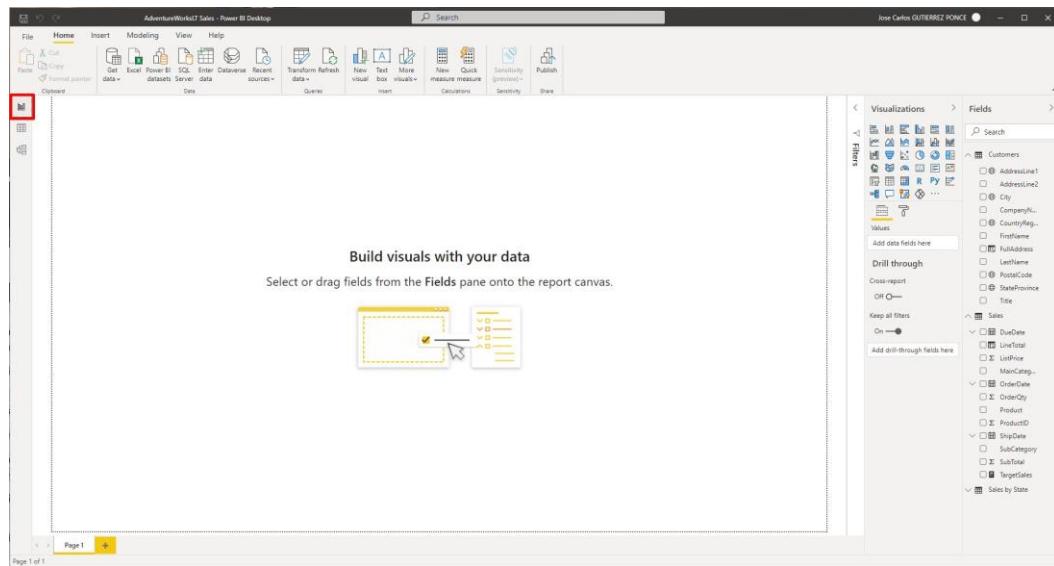


3.28. En el panel Fields (File), haga clic con el botón derecho en States with Codes y luego haga clic en Hide in Report View.

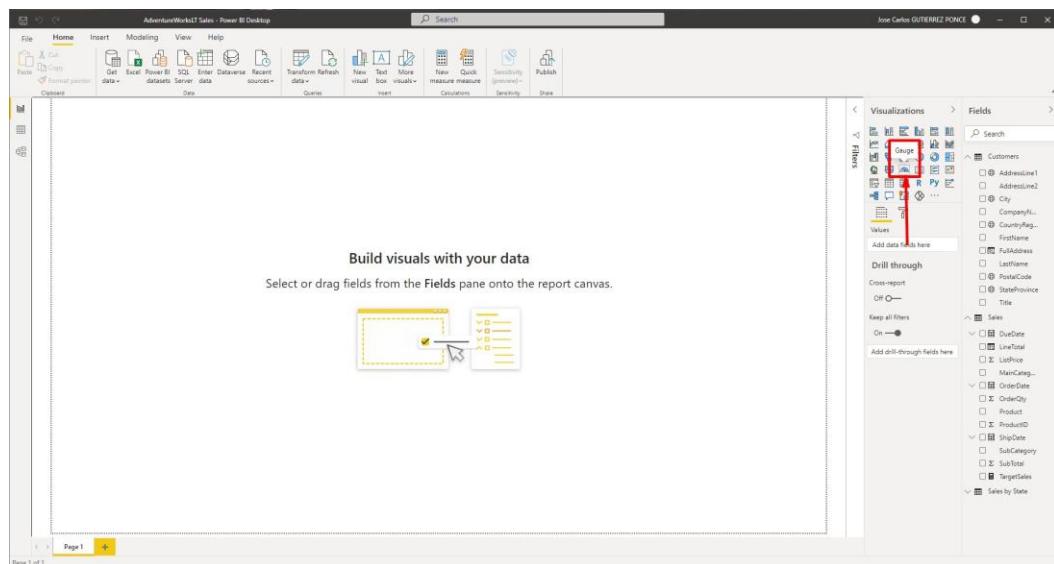


4. Construyendo Reportes en Power BI

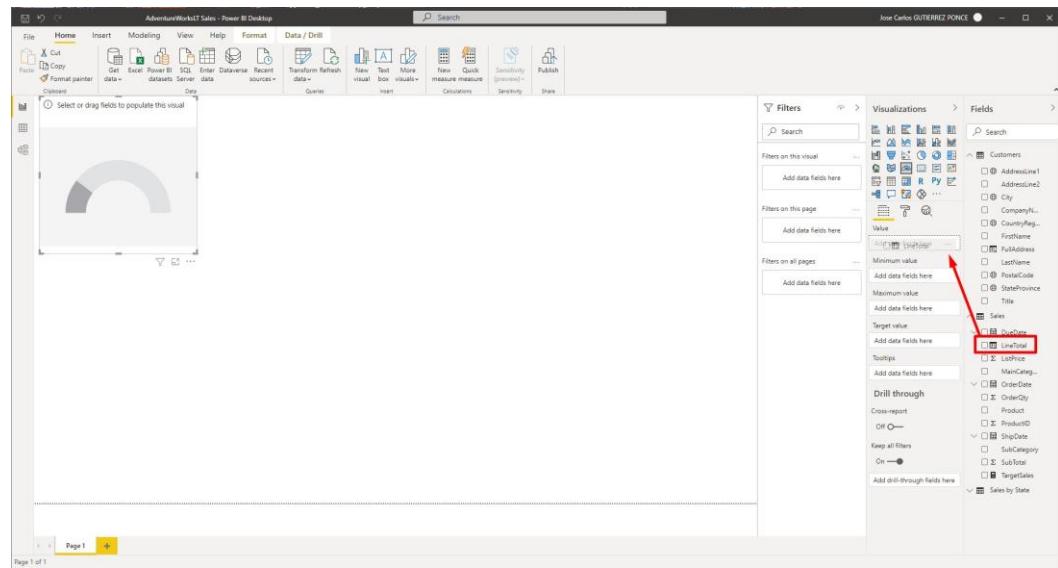
4.1. En Power BI Desktop, en la barra de navegación izquierda, haga clic en Report.



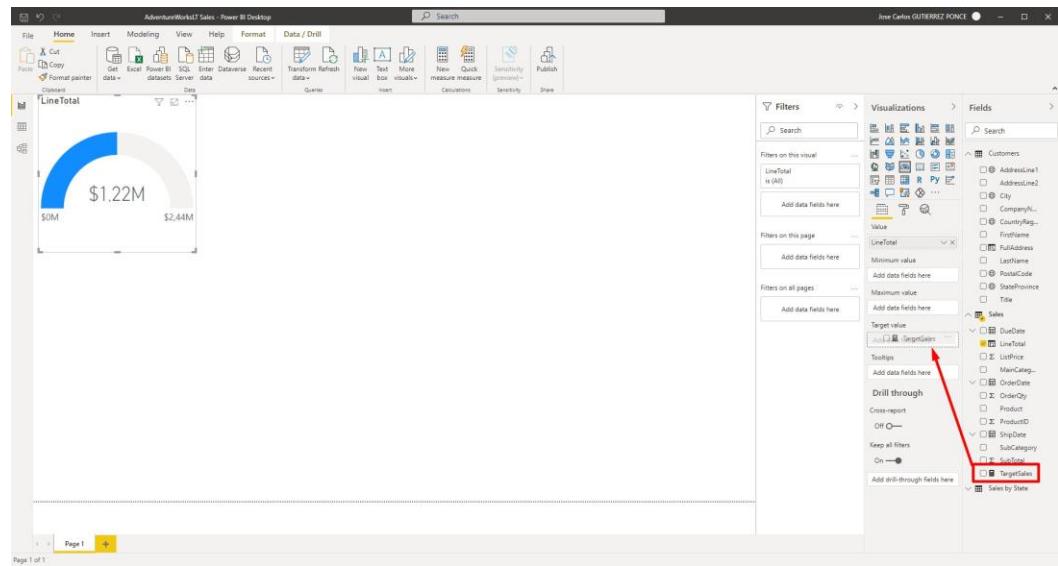
4.2. En el panel Visualizations, haga clic en Gauge.



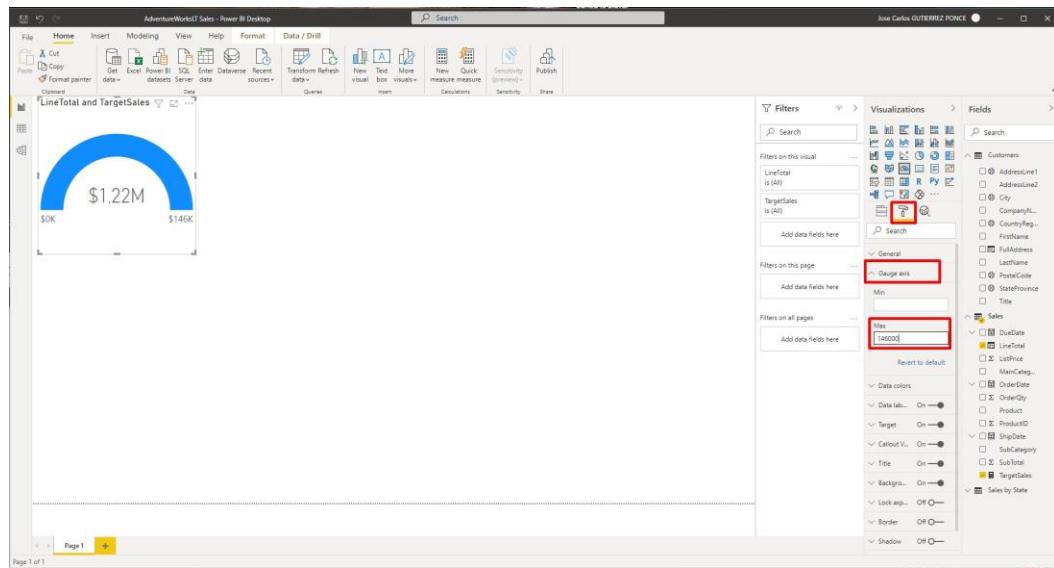
4.3. Arrastre el campo LineTotal de la tabla Sales a la propiedad Value del indicador.



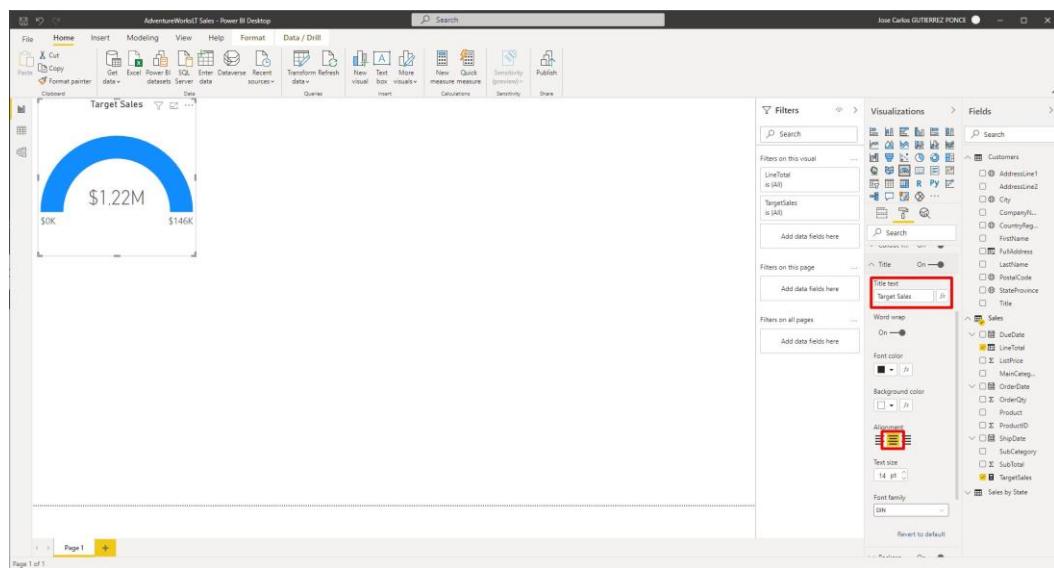
4.4. Arrastre la medida TargetSales de la tabla Sales a la propiedad Targetvalue del indicador.



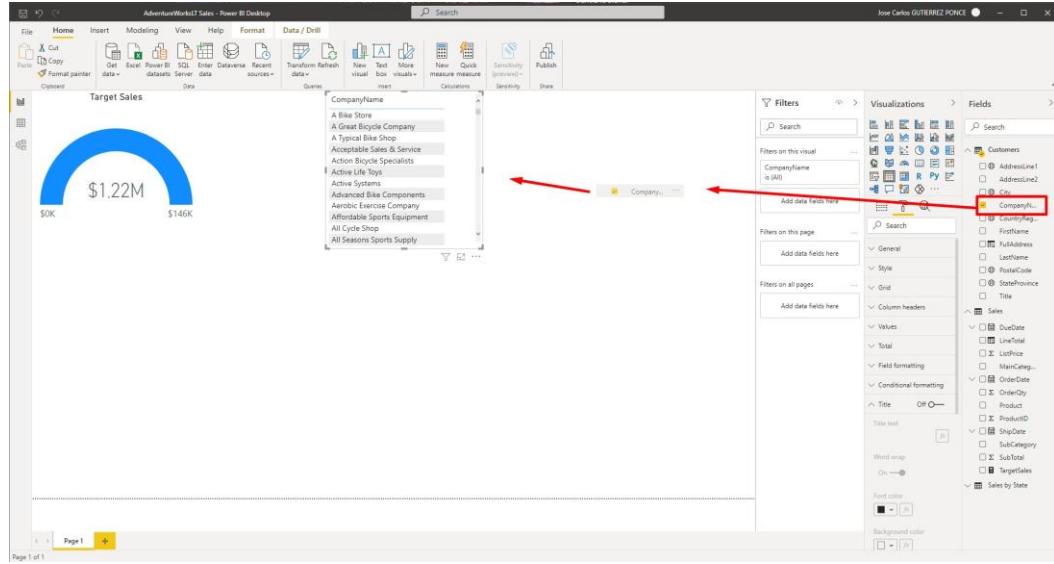
4.5. Haga clic en Format, expanda Gauge axis y, a continuación, en el cuadro Máx, escriba 146000.



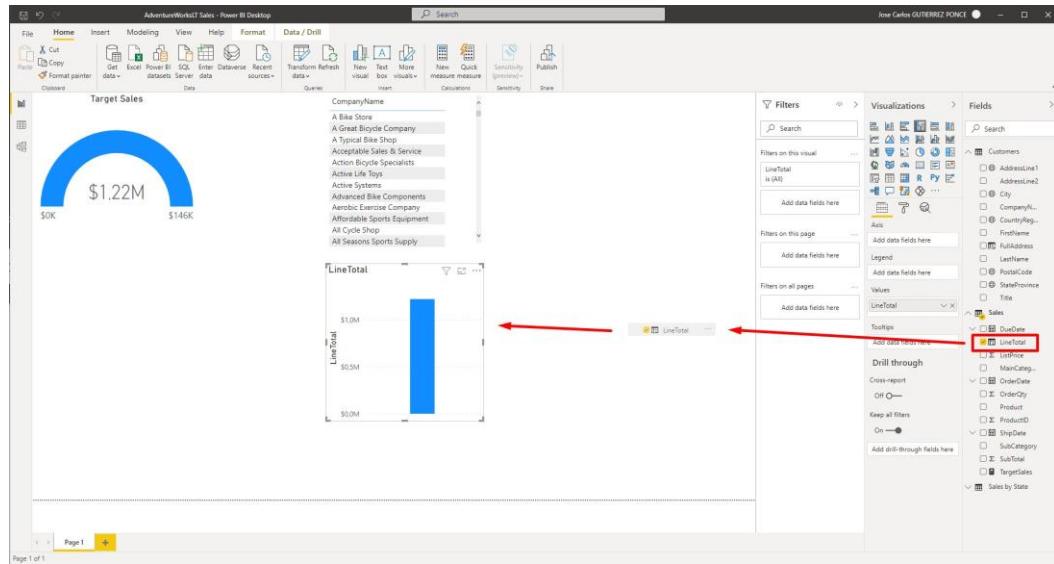
4.6. Expanda Title, en el cuadro Title Text, escriba Target Sales y luego haga clic en Center.



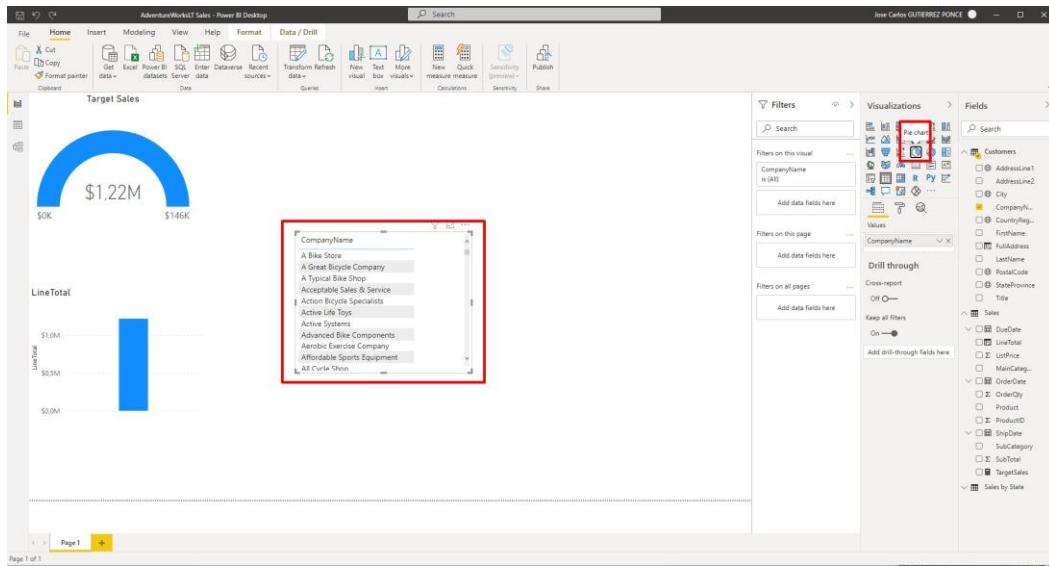
4.7. Haga clic en el lienzo del informe y luego arrastre el campo CompanyName de la tabla Customers al informe. Power BI crea automáticamente una tabla.



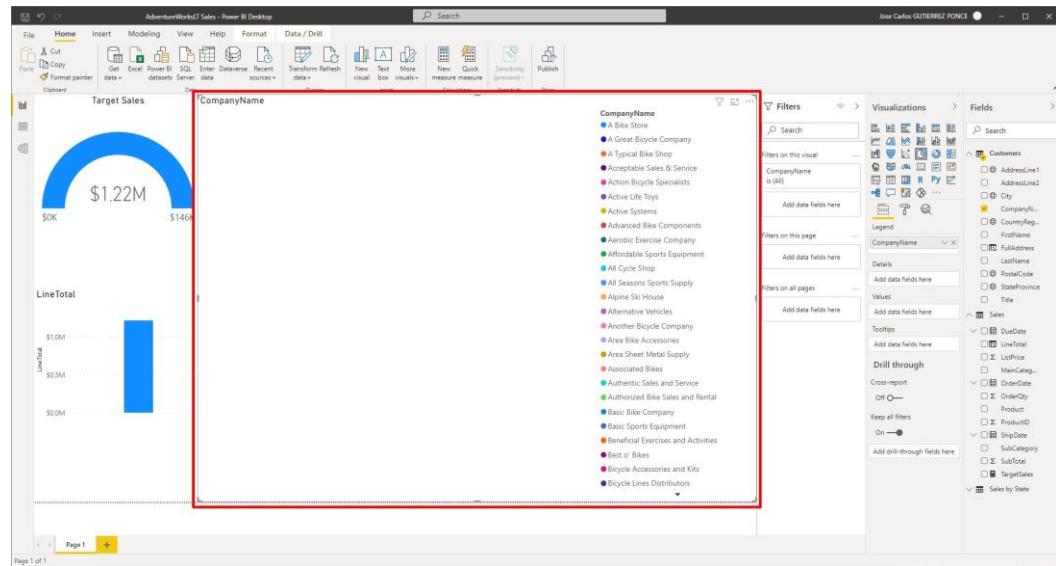
4.8. Arrastre el campo LineTotal de la tabla Sales al informe.



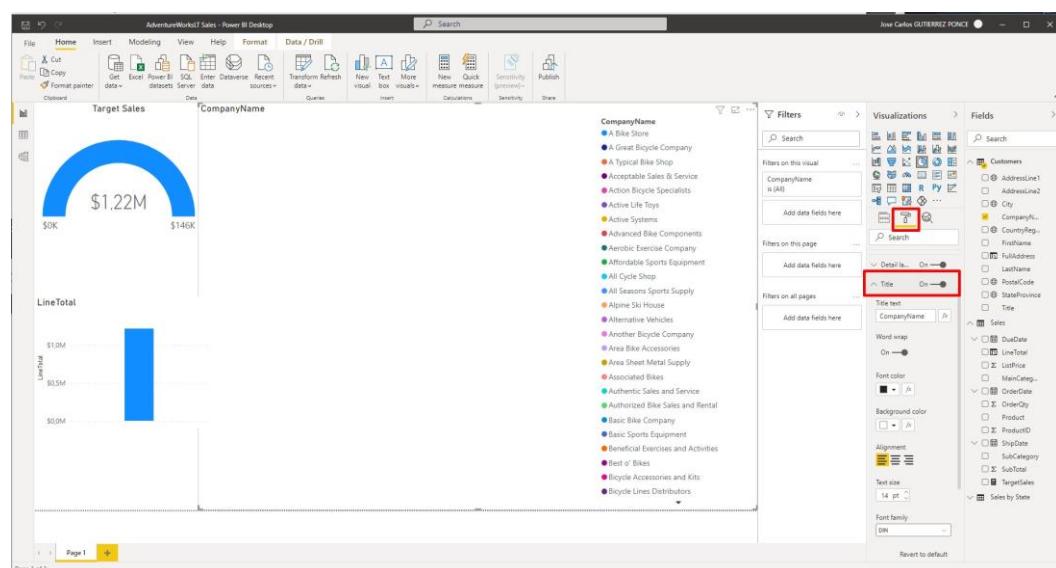
4.9. Asegúrese de que la tabla tenga el foco y, a continuación, en el panel Visualizations, haga clic en Pie chart.



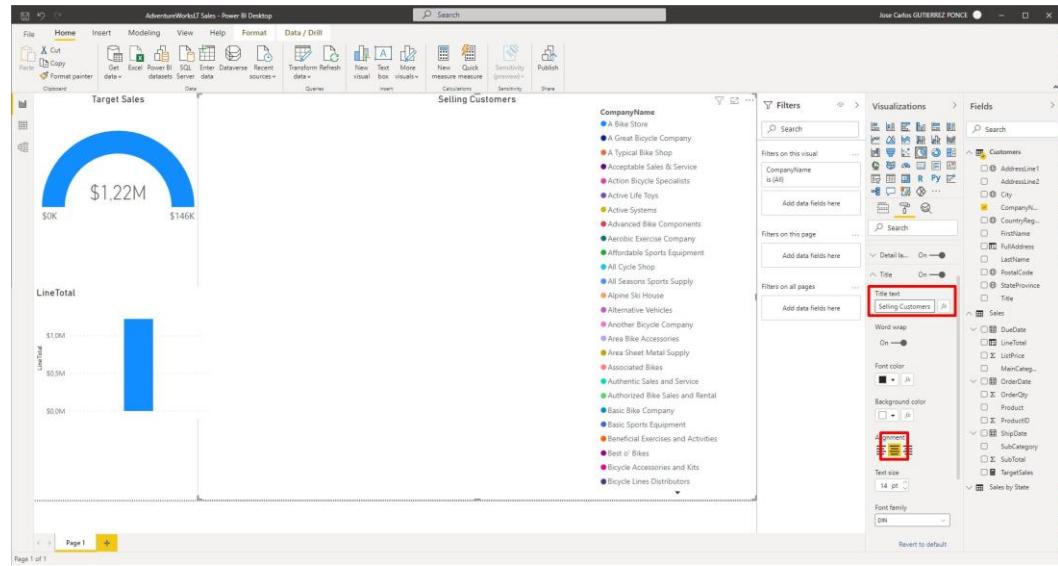
4.10. Expanda el gráfico para hacer visibles todos los nombres de las empresas utilizando los controladores de tamaño en el borde del gráfico.



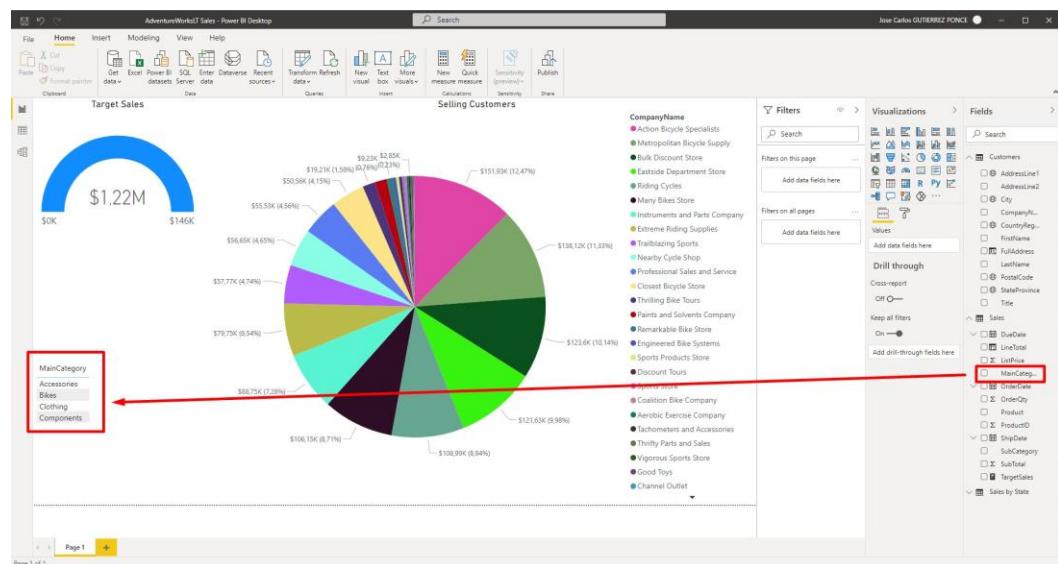
4.11. Con el foco aún en el gráfico circular, haga clic en Format y luego expanda Tilde.



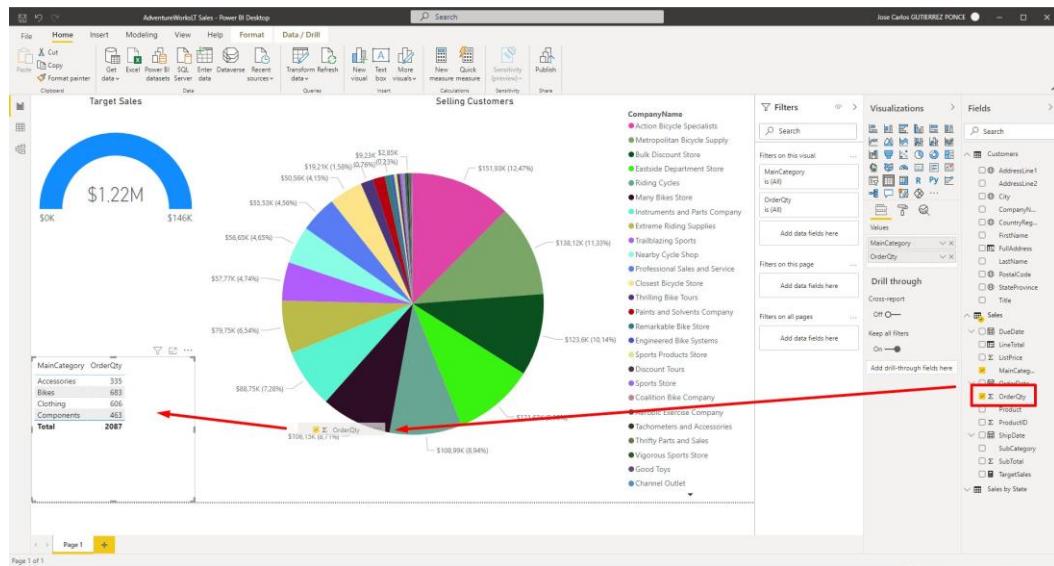
4.12. En el cuadro Title Text, escriba Top Selling Customers y luego haga clic en Center.



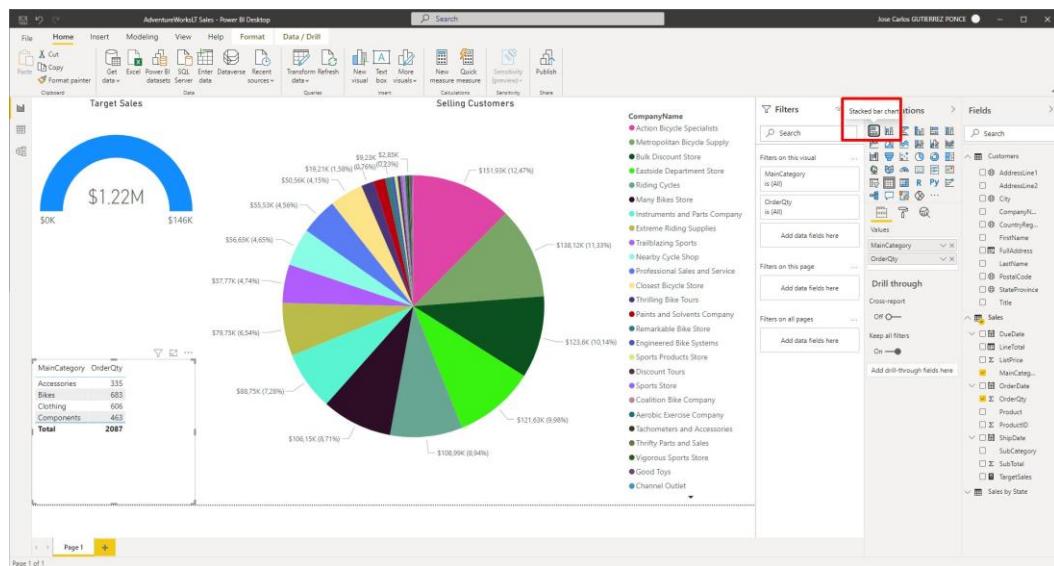
4.13. Arrastre el campo MainCategory de la tabla Sales al panel del informe. Power BI crea una tabla.



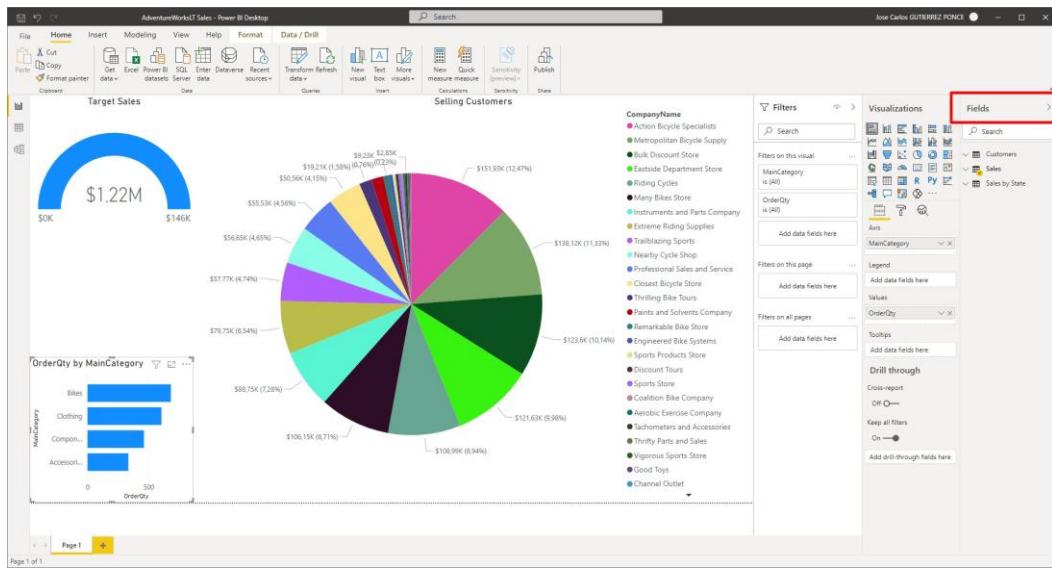
4.14. Arrastre el campo OrderQty a la tabla.



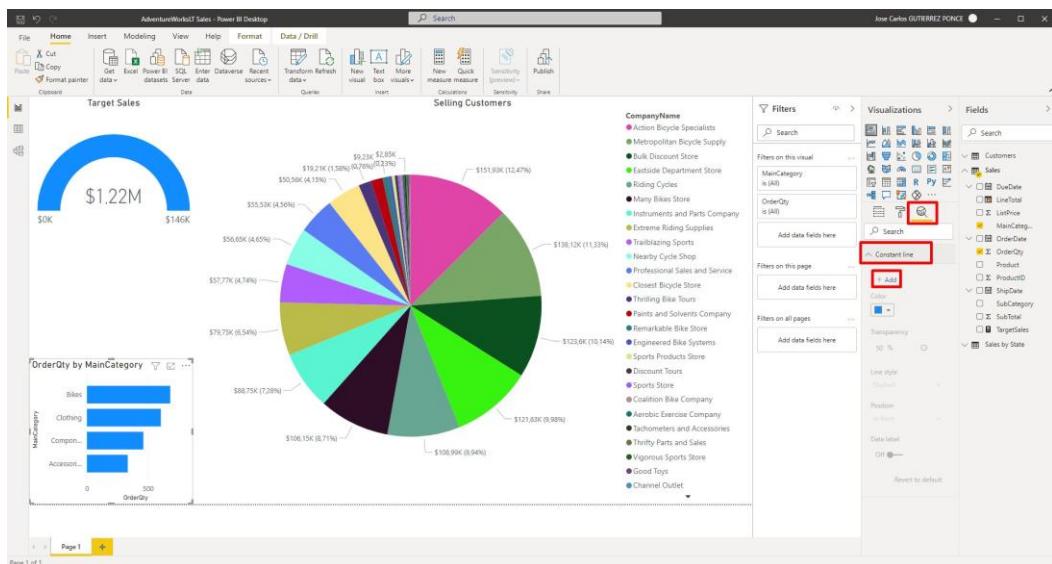
4.15. En el panel Visualizations, haga clic en Stacked bar chart.



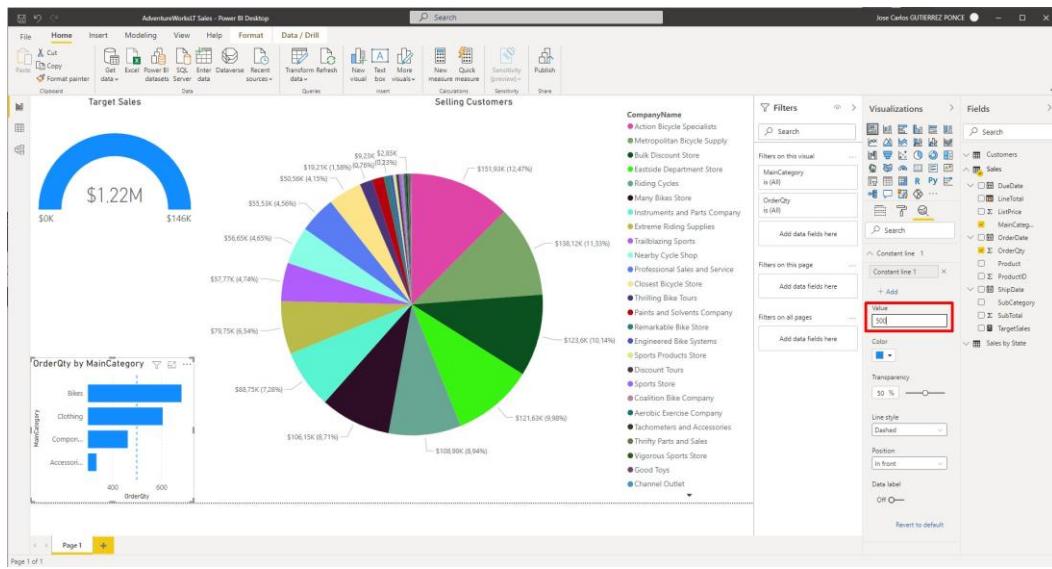
4.16. En el panel Visualizations, haga clic en Fields.



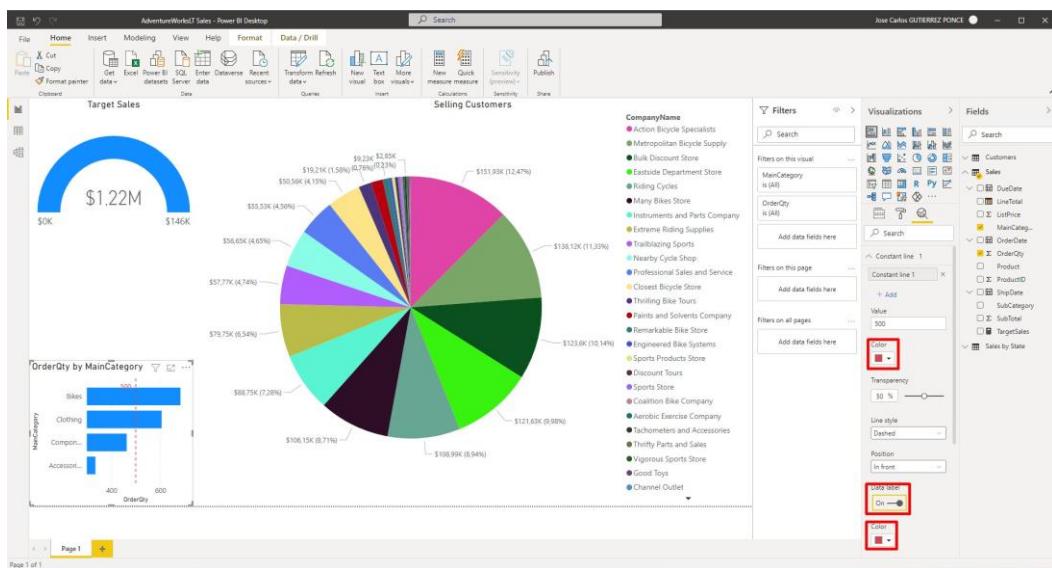
4.18. En el panel Visualizations, haga clic en Analytics, expanda Constant Line y luego haga clic en Add.



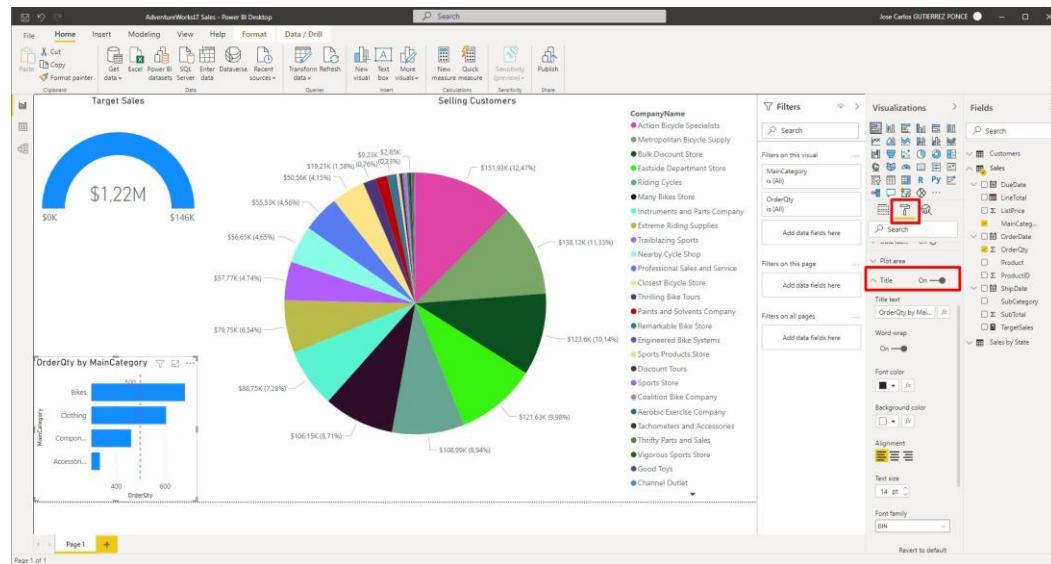
4.19. En el cuadro Value, escriba 500.



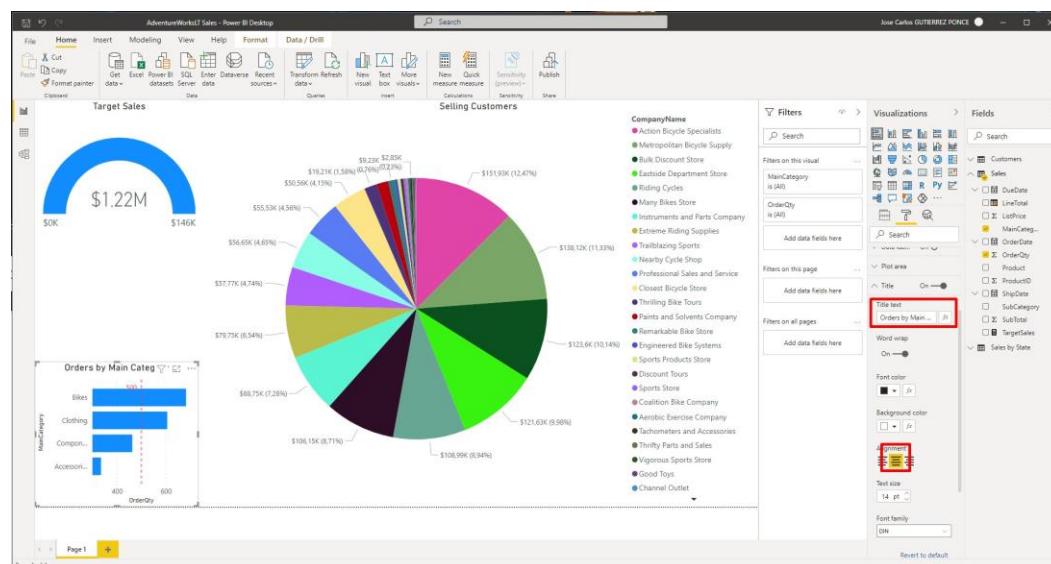
4.20. Cambie Color a rojo, cambie Data label a On y luego cambie el color a red.



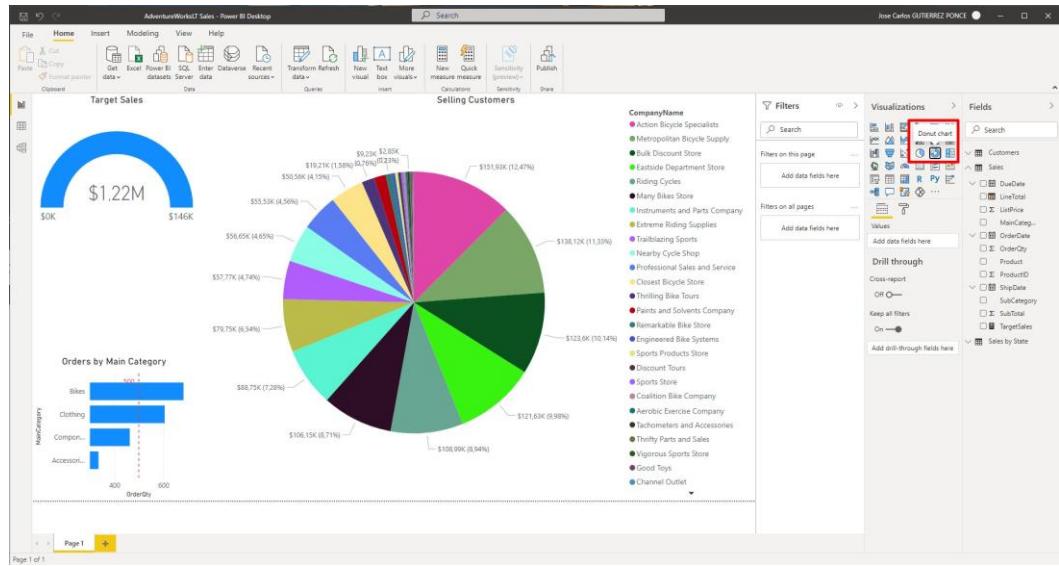
4.21. En el panel Visualizations, haga clic en Format y expanda Tilte.



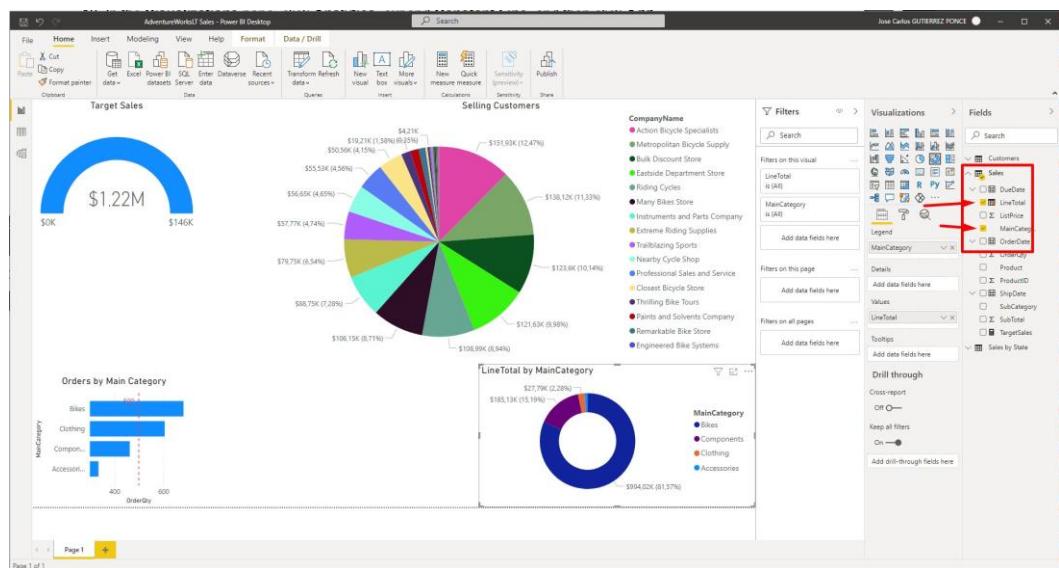
4.22. En el cuadro Title Text, escriba Orders by Main Category y luego haga clic en Center.



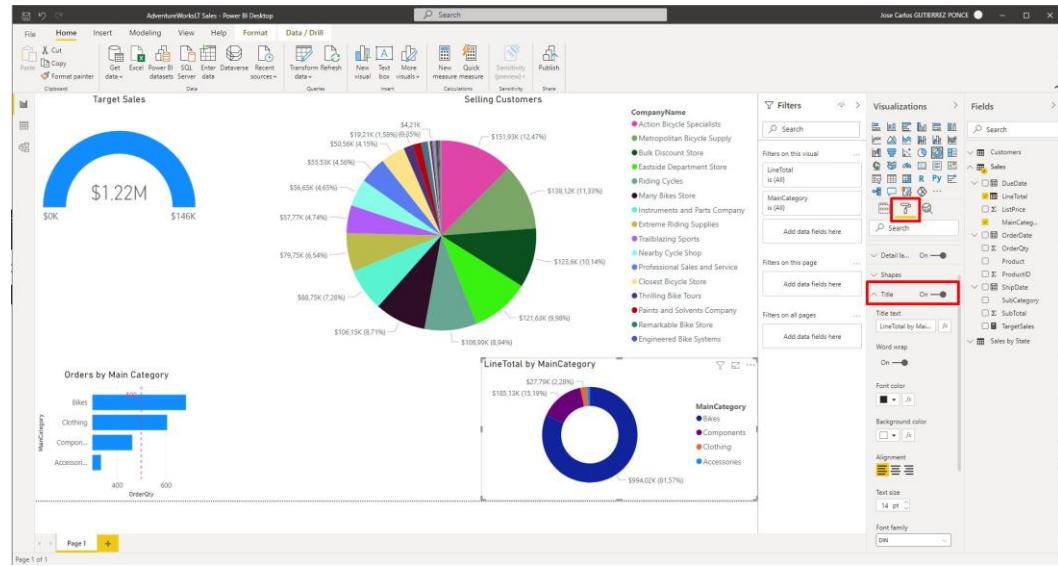
4.23. Haga clic en el lienzo del informe para enfocarlo y, a continuación, en el panel Visualizations, haga clic en Donut chart.



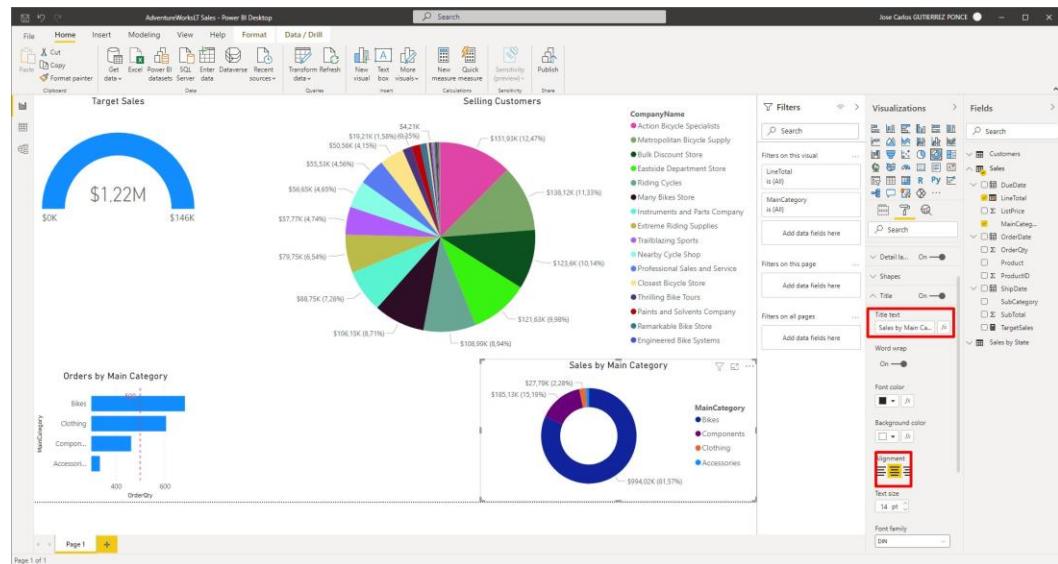
4.24. En la tabla Sales, seleccione MainCategory y LineTotal.



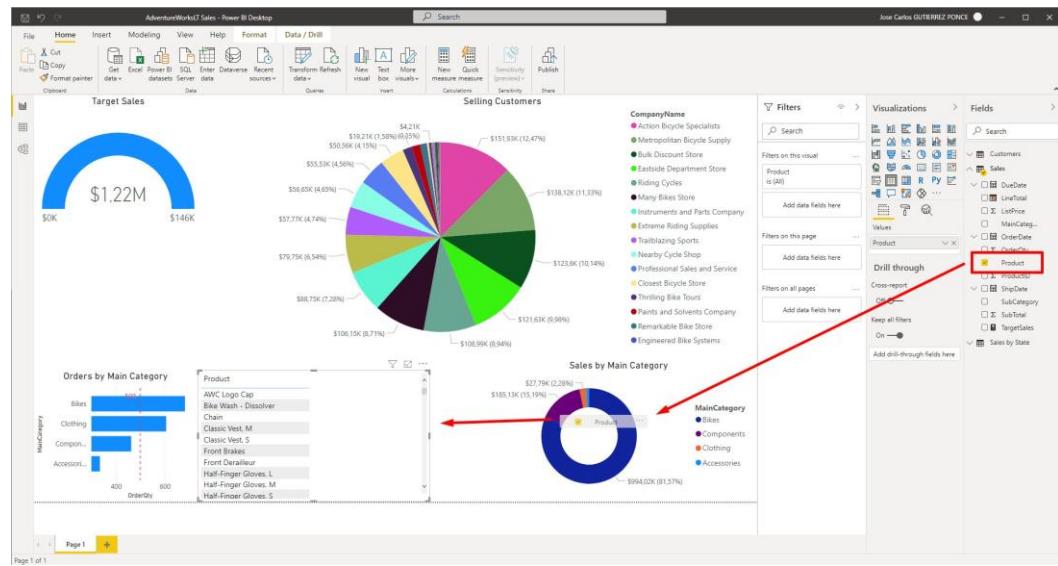
4.25. En el panel Visualizations, haga clic en Format y luego expanda Title.



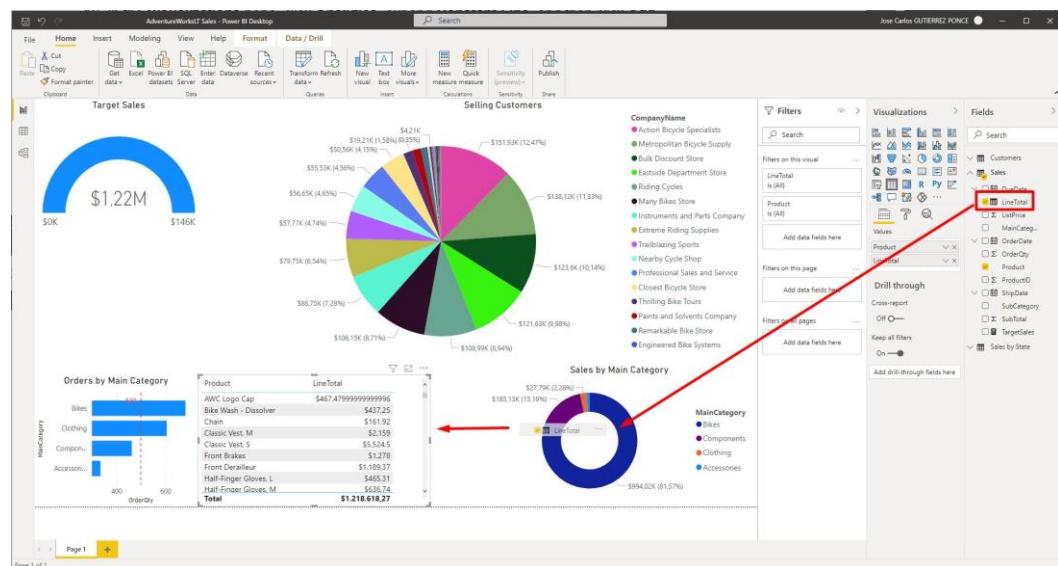
4.26. En el cuadro Title Text, escriba Sales by Main Category y luego haga clic en Center.



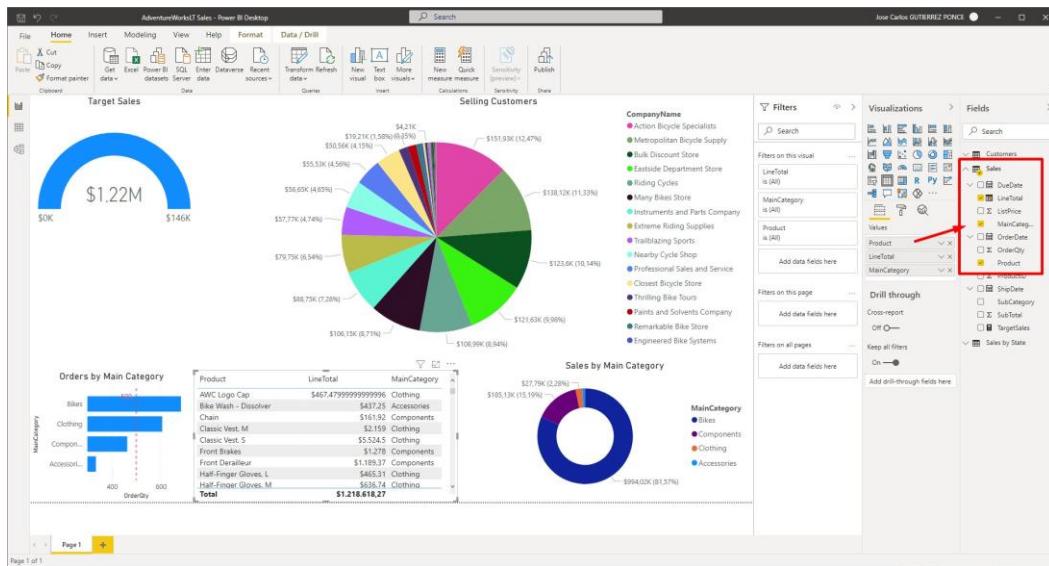
4.27. Arrastre el campo Product de la tabla Sales al lienzo del informe. Power BI crea una tabla.



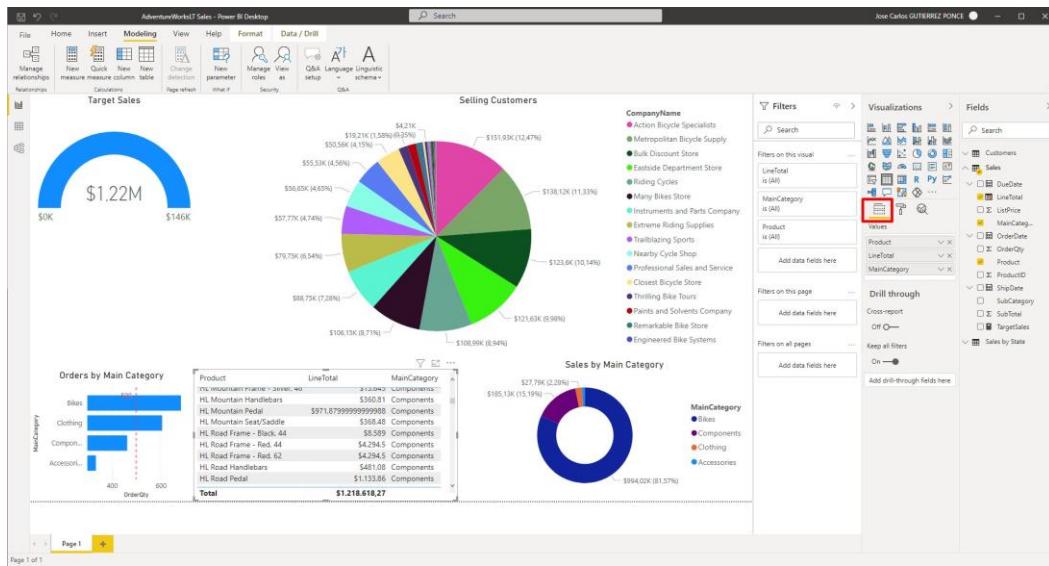
4.28. Arrastre el campo LineTotal de la tabla Sales al gráfico de tabla de productos.



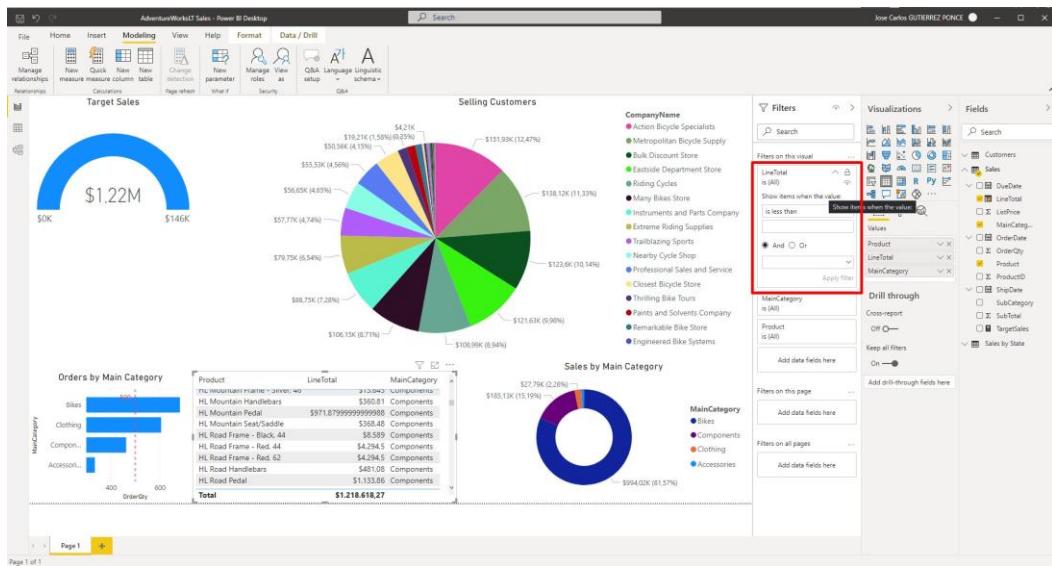
4.29. En la tabla Sales, seleccione el campo MainCategory.



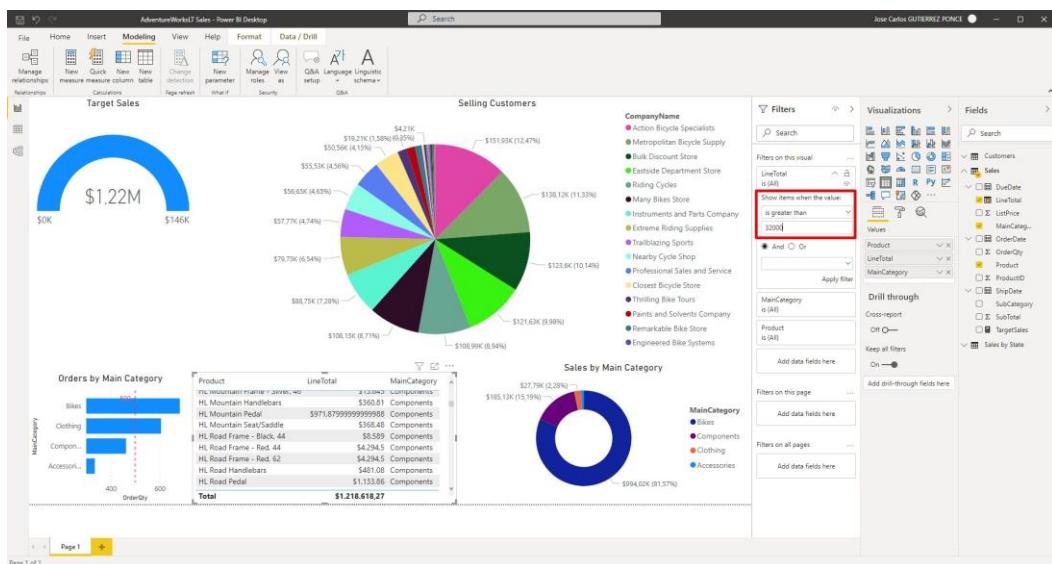
4.30. En el panel Visualizations, haga clic en Fields.



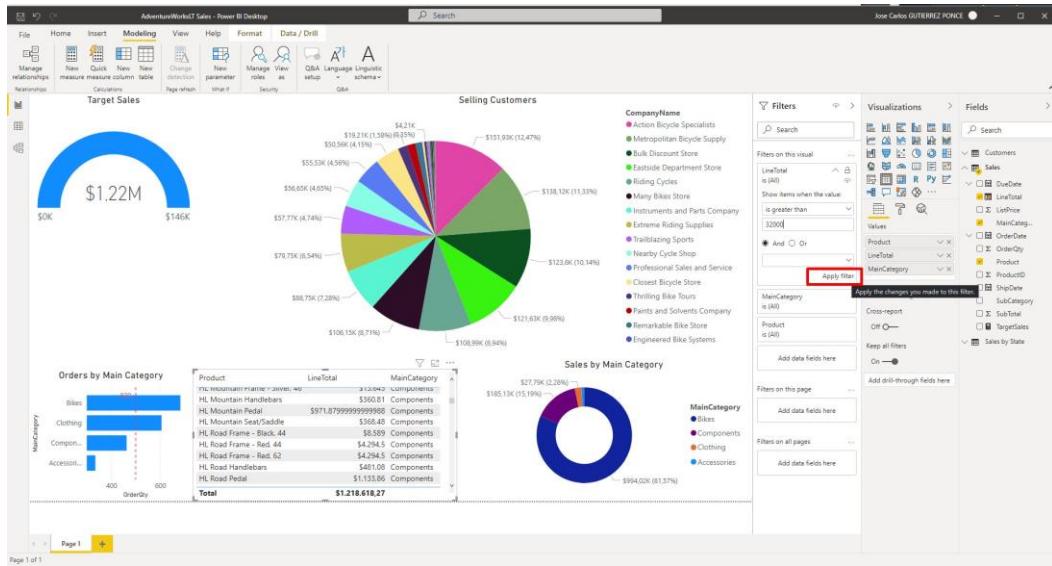
4.31. En el panel Filters, expanda LineTotal(All).



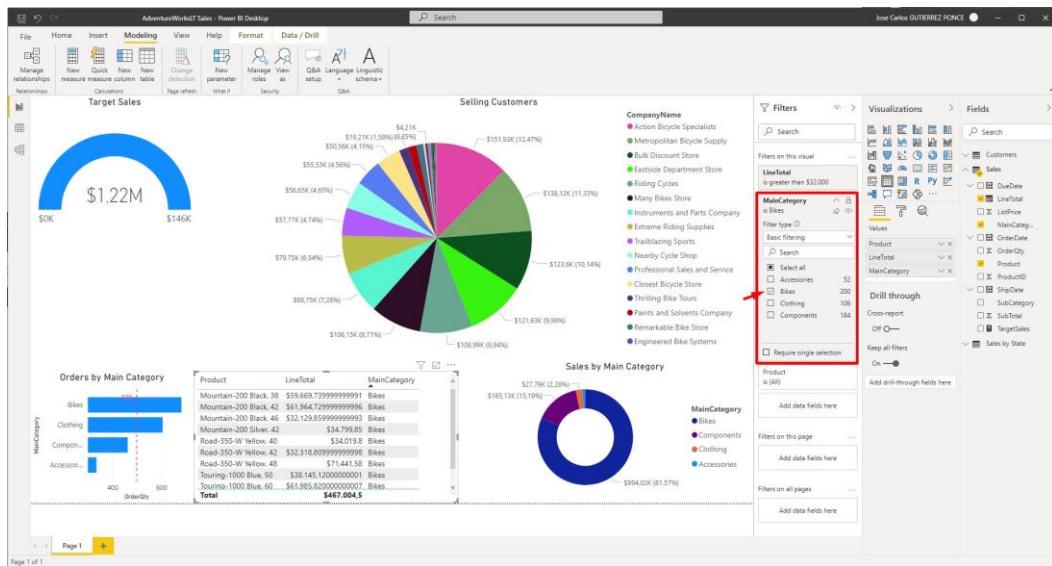
4.32. En la lista Show items when the value, seleccione is greater than y, a continuación, en el cuadro siguiente, escriba 32000.



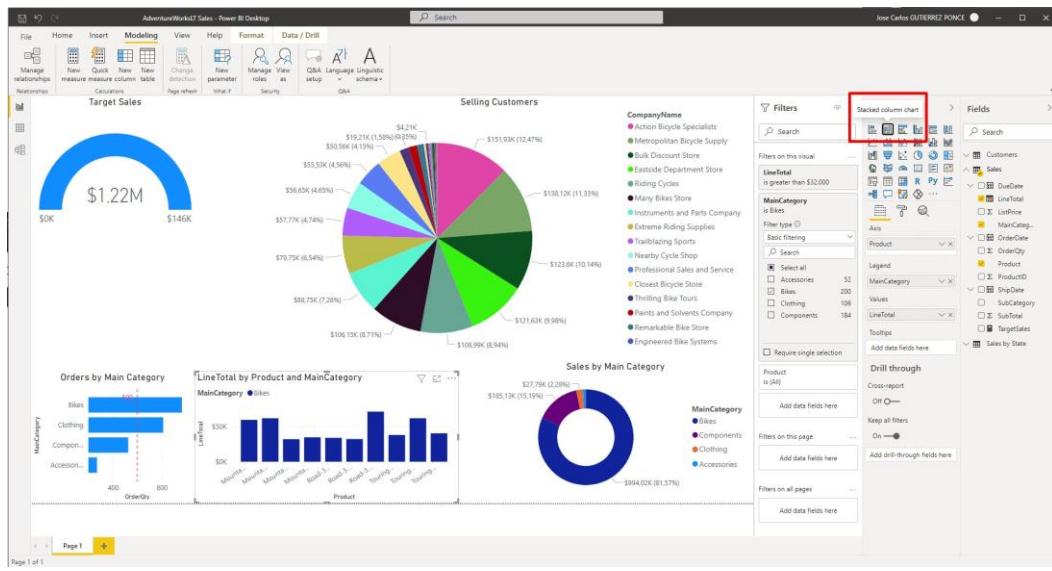
4.33. Haga clic en Apply filter.



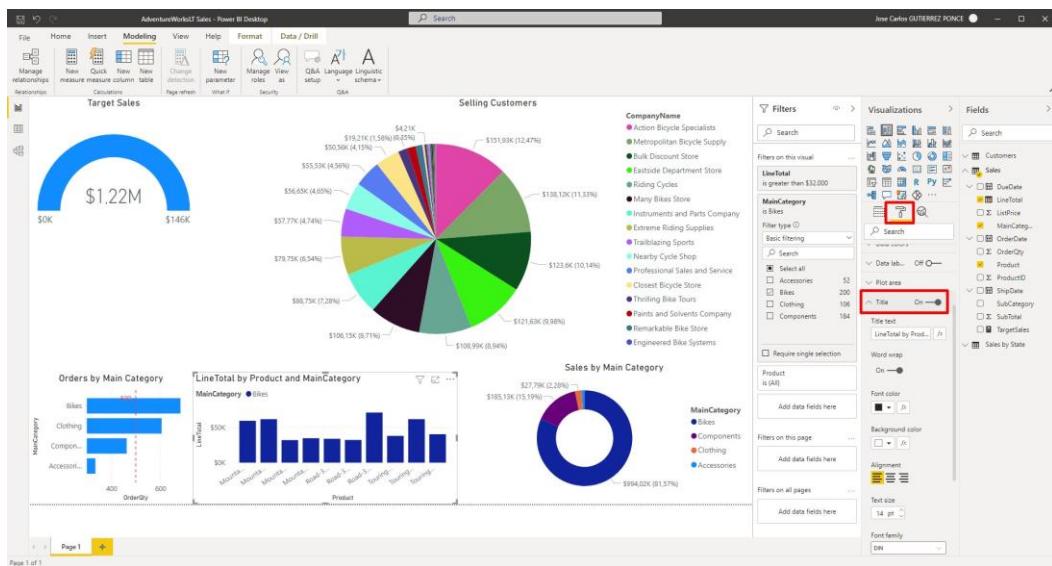
4.34. Expanda MainCategory(All) y luego seleccione Bikes.



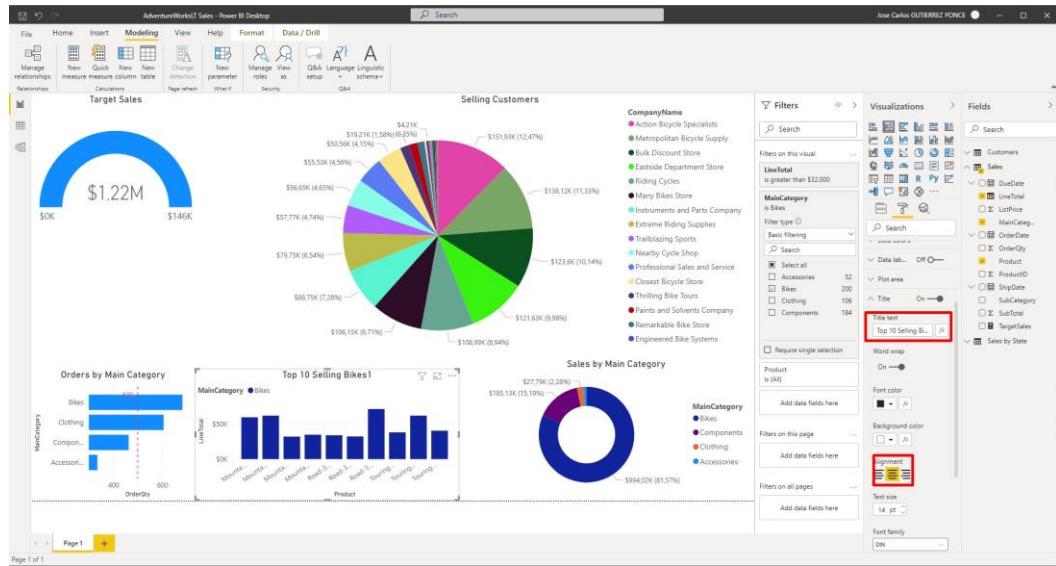
4.35. En el panel Visualizations, haga clic en Stacked column chart.



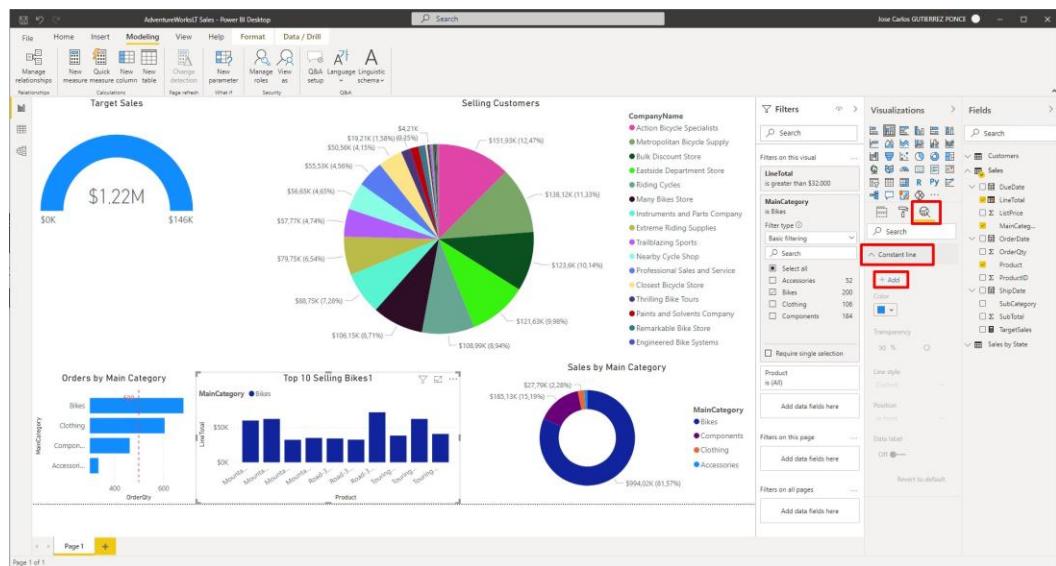
4.36. En el panel Visualizations, haga clic en Format y luego expanda Title.



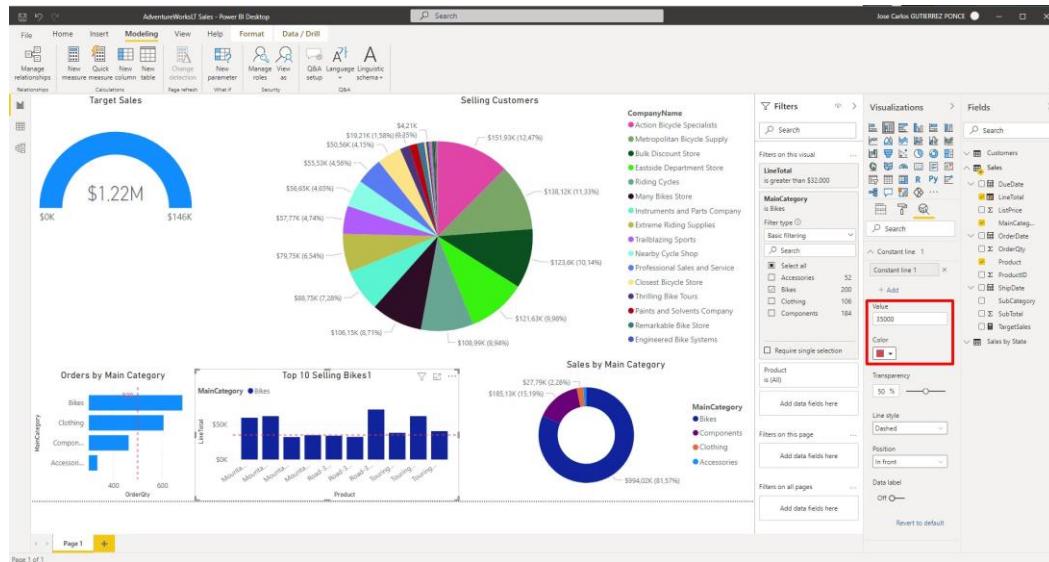
4.37. En el cuadro Title Text, escriba Top 10 Selling Bikes1 y luego haga clic en Center.



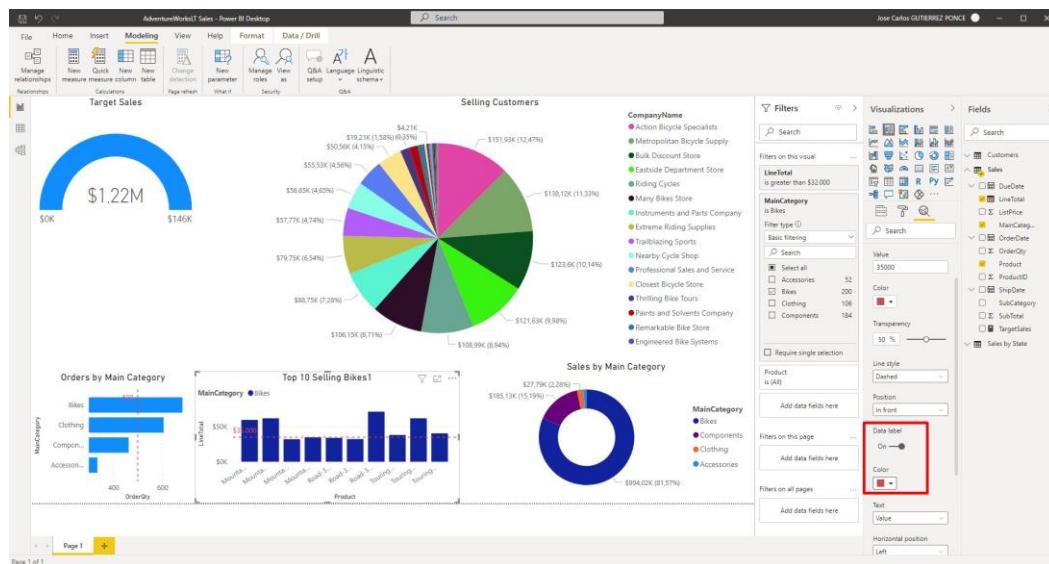
4.38. En el panel Visualizations, haga clic en Analytics, expanda Constant Line y luego haga clic en Add.



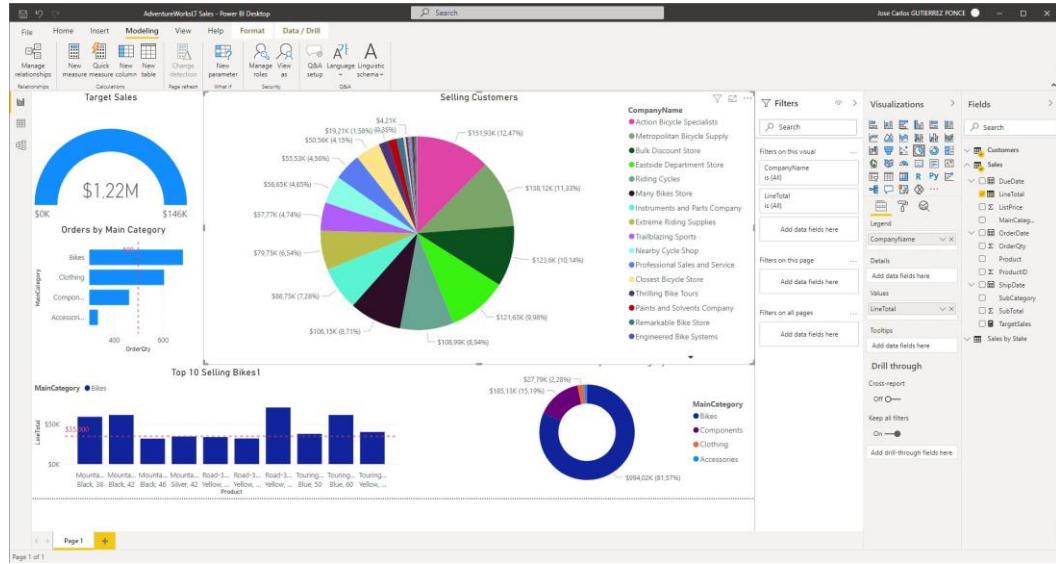
4.39. En el cuadro Value, escriba 35000 y luego establezca Color en red.



4.40. Cambie Data label a On y luego establezca Color en red.



4.41. Expanda el gráfico para llenar el espacio restante en el lienzo del informe. Si es necesario, mueva sus imágenes para que encajen.



4.42. Clic en Save.

