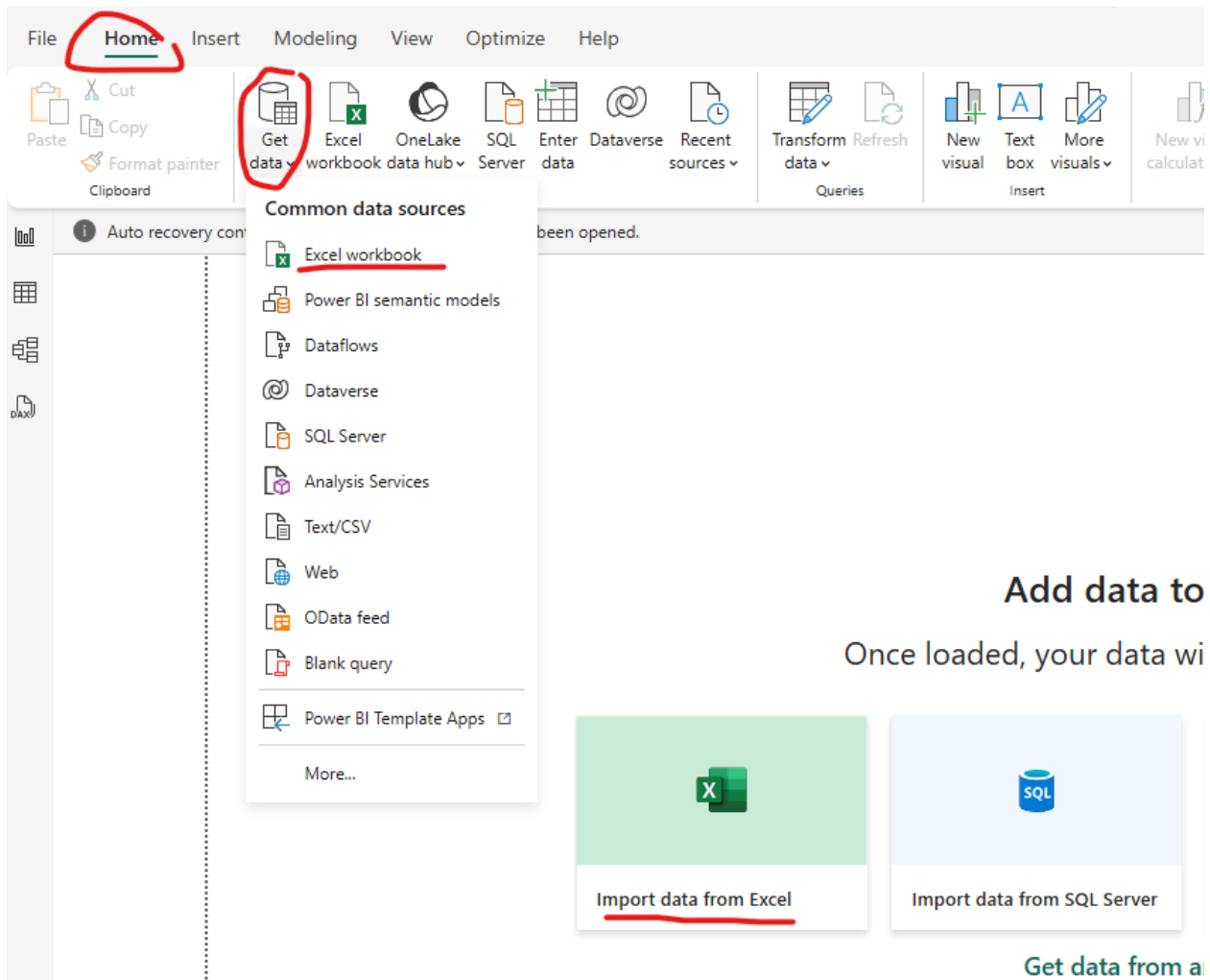


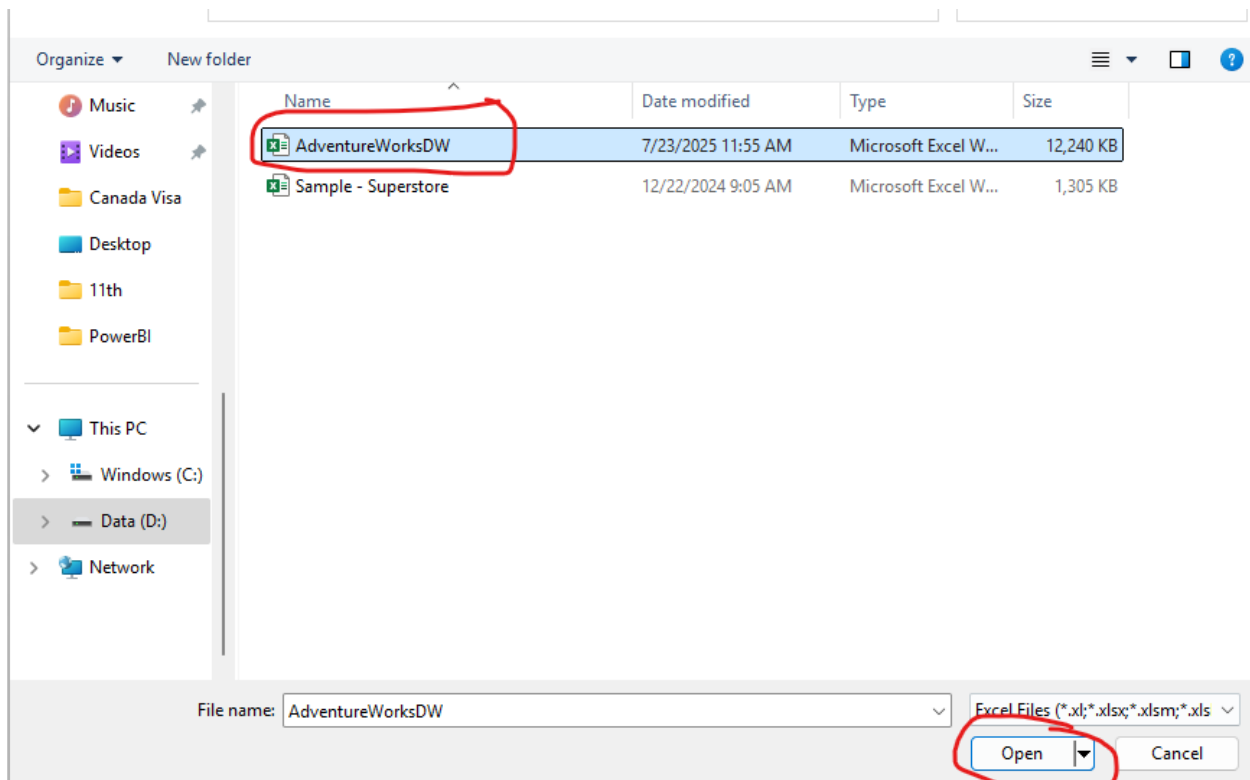
CASE STUDY - CREATING A REPORT IN POWER BI

The tasks to be completed:

1) Import AdventureWorksDW Database into Power BI Desktop.

Solution: Open Power Bi Desktop application on system and go to blank report.





2) Import FactInternetSales table and other related tables from AdventureWorks Database

Display Options ▾

AdventureWorksDW.XLSX [6]

- ☒ DimCustomer
- ☒ DimDate
- ☒ DimGeography
- ☒ DimProduct
- ☒ DimSalesTerritory
- ☒ FactInternetSales

DimGeography

GeographyKey	City	StateProvinceCode	StateProvinceName	Cou
1	Alexandria	NSW	New South Wales	A
2	Coffs Harbour	NSW	New South Wales	A
3	Darlinghurst	NSW	New South Wales	A
4	Goulburn	NSW	New South Wales	A
5	Lane Cove	NSW	New South Wales	A
6	Lavender Bay	NSW	New South Wales	A
7	Malabar	NSW	New South Wales	A
8	Matraville	NSW	New South Wales	A
9	Milsons Point	NSW	New South Wales	A
10	Newcastle	NSW	New South Wales	A
11	North Ryde	NSW	New South Wales	A
12	North Sydney	NSW	New South Wales	A
13	Port Macquarie	NSW	New South Wales	A
14	Rhodes	NSW	New South Wales	A
15	Silverwater	NSW	New South Wales	A
16	Springwood	NSW	New South Wales	A
17	St. Leonards	NSW	New South Wales	A
18	Sydney	NSW	New South Wales	A
19	Wollongong	NSW	New South Wales	A
20	Brisbane	QLD	Queensland	A
21	Caloundra	QLD	Queensland	A
22	East Brisbane	QLD	Queensland	A
23	Gold Coast	QLD	Queensland	A

Load Transform Data Cancel

<div> <div>Name FactInternetSales</div> <div> <div>Mark as date table</div> <div>Manage relationships</div> <div> <div>New measure</div> <div>Quick measure</div> <div>New column</div> <div>New table</div> </div> </div> <div>Structure</div> <div>Calendars</div> <div>Relationships</div> <div>Calculations</div> </div>								
Report view								
ProductKey	OrderDateKey	DueDateKey	ShipDateKey	CustomerKey	PromotionKey	CurrencyKey	SalesT	
528	20071229	20080110	20080105	11024	1	100		
528	20070910	20070922	20070917	11049	1	100		
528	20080623	20080705	20080630	11086	1	100		
528	20070920	20071002	20070927	11140	1	100		
528	20080510	20080522	20080517	11159	1	100		
528	20080206	20080218	20080213	11163	1	100		
528	20080206	20080218	20080213	11164	1	100		
528	20080327	20080408	20080403	11169	1	100		
528	20080504	20080516	20080511	11188	1	100		
528	20080719	20080731	20080726	11190	1	100		
528	20071107	20071119	20071114	11210	1	100		
528	20080531	20080612	20080607	11222	1	100		
528	20070809	20070821	20070816	11260	1	100		
528	20071115	20071127	20071122	11273	1	100		
528	20080128	20080209	20080204	11285	1	100		
528	20080310	20080322	20080317	11306	1	100		
528	20080626	20080708	20080703	11310	1	100		
528	20080220	20080303	20080227	11320	1	100		
528	20071008	20071020	20071015	11499	1	100		
528	20071104	20071116	20071111	11504	1	100		
528	20080229	20080312	20080307	11524	1	100		
528	20080421	20080503	20080428	11638	1	100		
528	20080604	20080616	20080611	11655	1	100		
528	20071126	20071208	20071203	11657	1	100		
528	20080108	20080120	20080115	11692	1	100		

Untitled - Power BI Desktop

Search

FileHomeHelpTable tools

DimSalesTerritory

Structure

Mark as date table

Calendars

Manage relationships

Relationships

New measure

Quick measure

New column

New table

Calculations

Table

Table

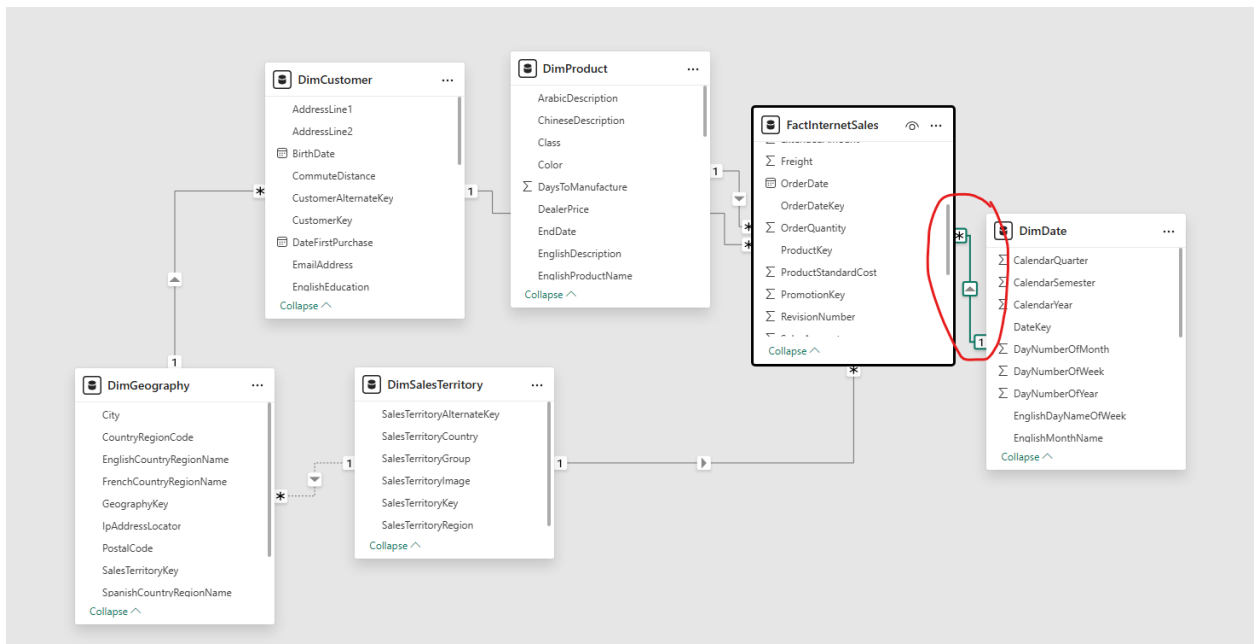
Data

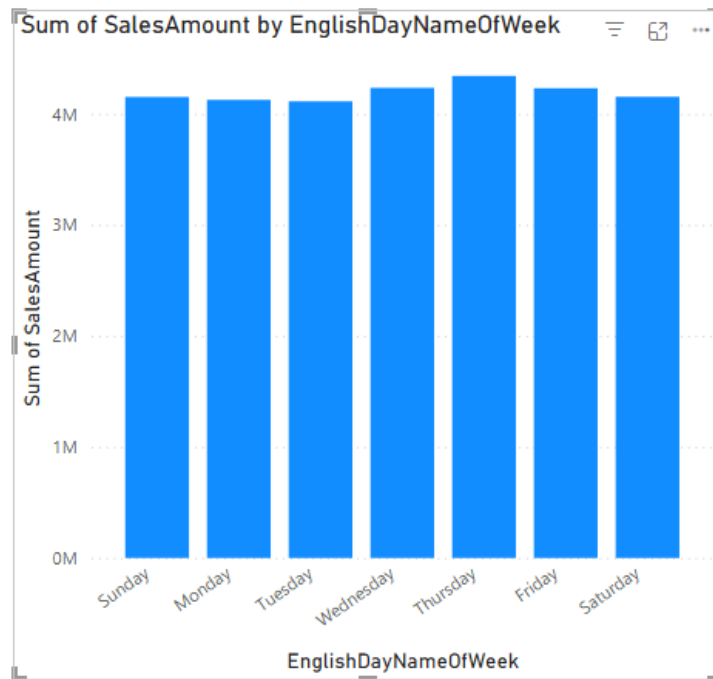
SalesTerritoryKey	SalesTerritoryAlternateKey	SalesTerritoryRegion	SalesTerritoryCountry	SalesTerritoryGroup	SalesTerritoryImage
1	1	Northwest	United States	North America	
2	2	Northeast	United States	North America	
3	3	Central	United States	North America	
4	4	Southwest	United States	North America	
5	5	Southeast	United States	North America	
6	6	Canada	Canada	North America	
7	7	France	France	Europe	
8	8	Germany	Germany	Europe	
9	9	Australia	Australia	Pacific	
10	10	United Kingdom	United Kingdom	Europe	
11	0	NA	NA	NA	

3. Create a Column chart of Sales Amount vs. English name of the week.

Solution: Establishing relationship between the table factInternetSales and Dim date to make a column chart for the sales amount and English name of the week column from the two different tables.

Date key and Order date key are common columns in the two tables which establish the relationship.





To align the bar chart as per the week start from Sunday to Monday rather than alphabet wise need to sort the column according to day number of week.

Untitled - Power BI Desktop

File Home Help **Table tools** **Column tools**

Name: EnglishDayNameOf... Format: Text Summarization: Don't summarize Data category: Uncategorized

Sort by column

EnglishDayNameOfWeek

DateKey	FullDateAlternateKey	DayNumberOfWeek	EnglishDayNameOfWeek	SpanishDayNameOfWeek
20060801	Monday, August 1, 2006	1	Monday	Lunes
20060828	Monday, August 28, 2006	2	Monday	Lunes
20070806	Monday, August 6, 2007	2	Monday	Lunes
20070813	Monday, August 13, 2007	2	Monday	Lunes
20070820	Monday, August 20, 2007	2	Monday	Lunes
20070827	Monday, August 27, 2007	2	Monday	Lunes
20080804	Monday, August 4, 2008	2	Monday	Lunes
20080811	Monday, August 11, 2008	2	Monday	Lunes
20080818	Monday, August 18, 2008	2	Monday	Lunes
20080825	Monday, August 25, 2008	2	Monday	Lunes
20090803	Monday, August 3, 2009	2	Monday	Lunes
20090810	Monday, August 10, 2009	2	Monday	Lunes
20090817	Monday, August 17, 2009	2	Monday	Lunes
20090824	Monday, August 24, 2009	2	Monday	Lunes
20090831	Monday, August 31, 2009	2	Monday	Lunes
20100802	Monday, August 2, 2010	2	Monday	Lunes
20100809	Monday, August 9, 2010	2	Monday	Lunes
20100816	Monday, August 16, 2010	2	Monday	Lunes

CalendarQuarter

CalendarSemester

CalendarYear

DateKey

DayNumberOfMonth

DayNumberOfWeek

DayNumberOfYear

EnglishMonthName

FiscalQuarter

FiscalSemester

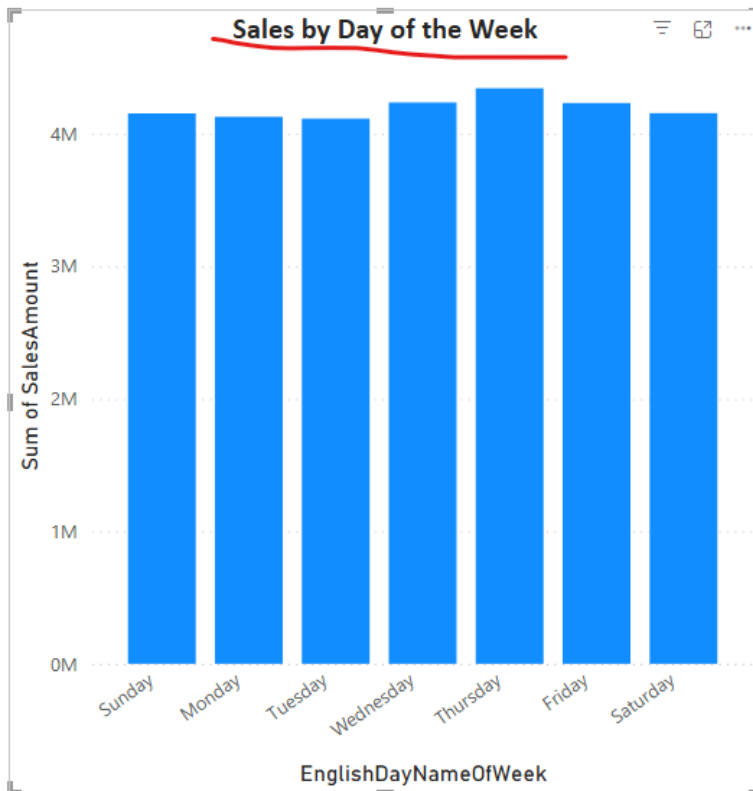
FiscalYear

FrenchDayNameOfWeek

FrenchMonthName

3) Rename the title as Sales by day of the Week and center align it.

Solution:



Visualizations

Format visual

Filters

Search

Visual General

Properties

Title

Title

Text

Sales by Day of the Week

Heading

Normal

Font

Calibri 14

B I U

Text color

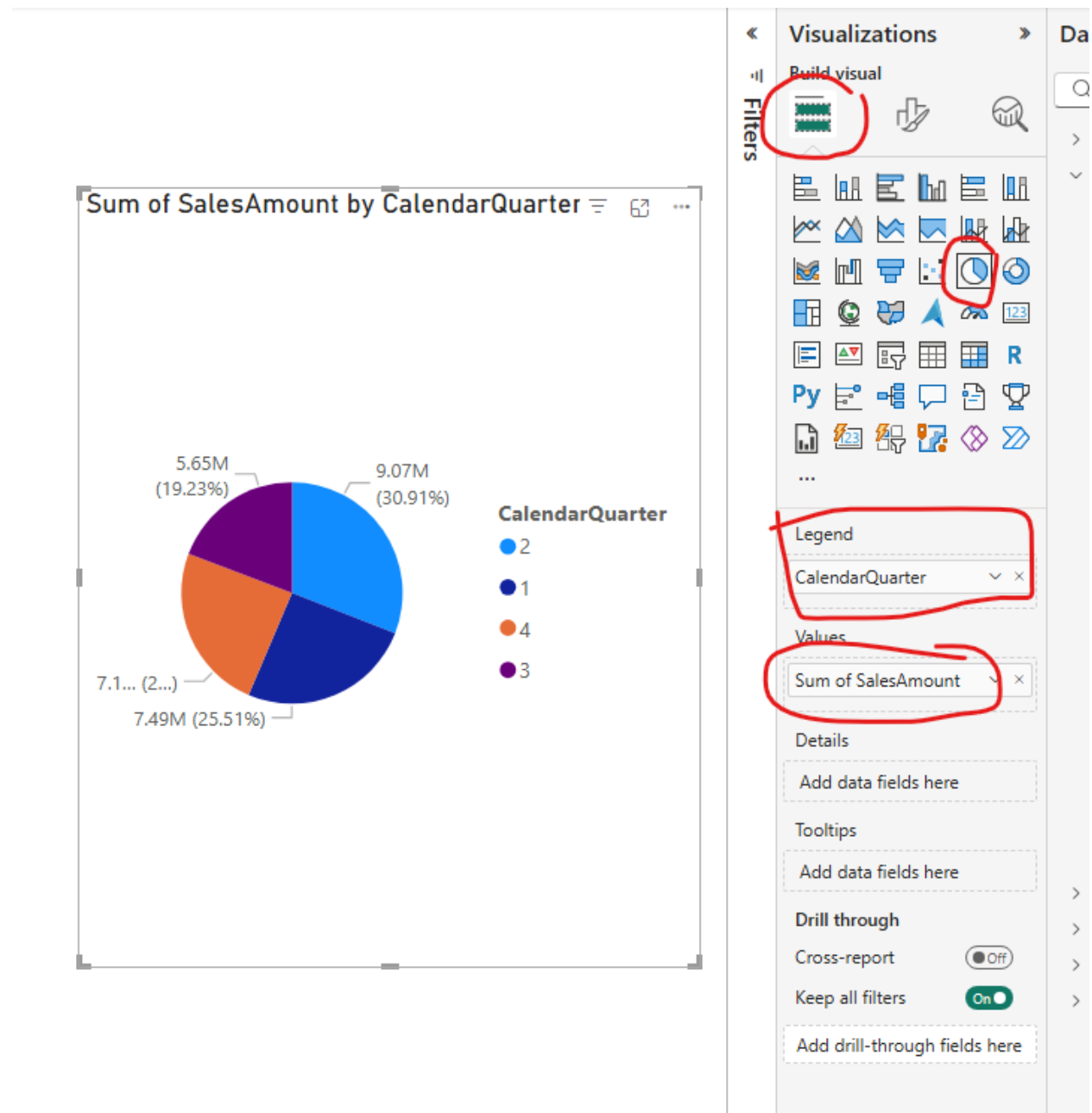
Background color

Horizontal alignment

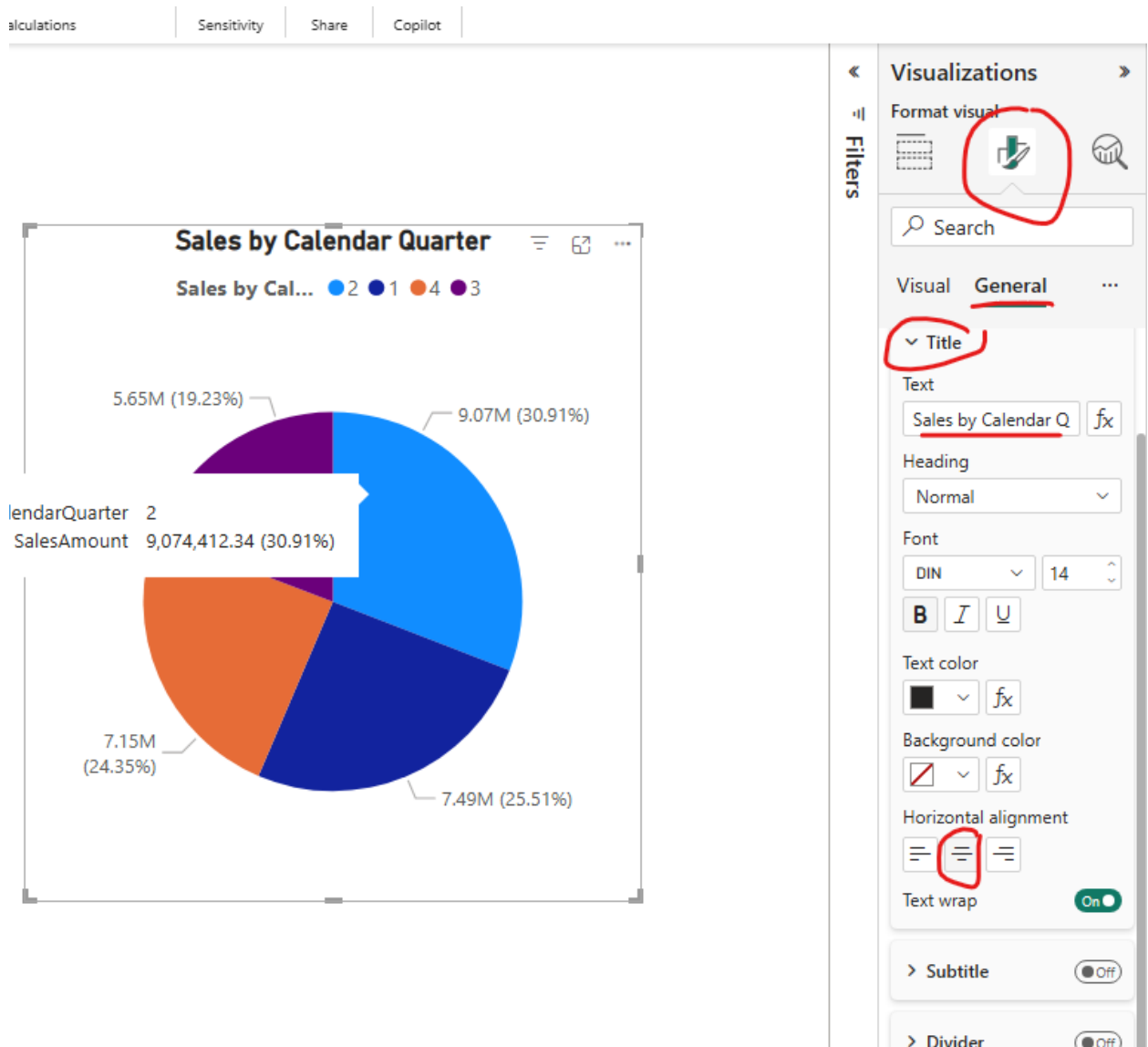
Text wrap

4) Create a Pie chart with legend as Calendar Quarter and values as Sales Amount.

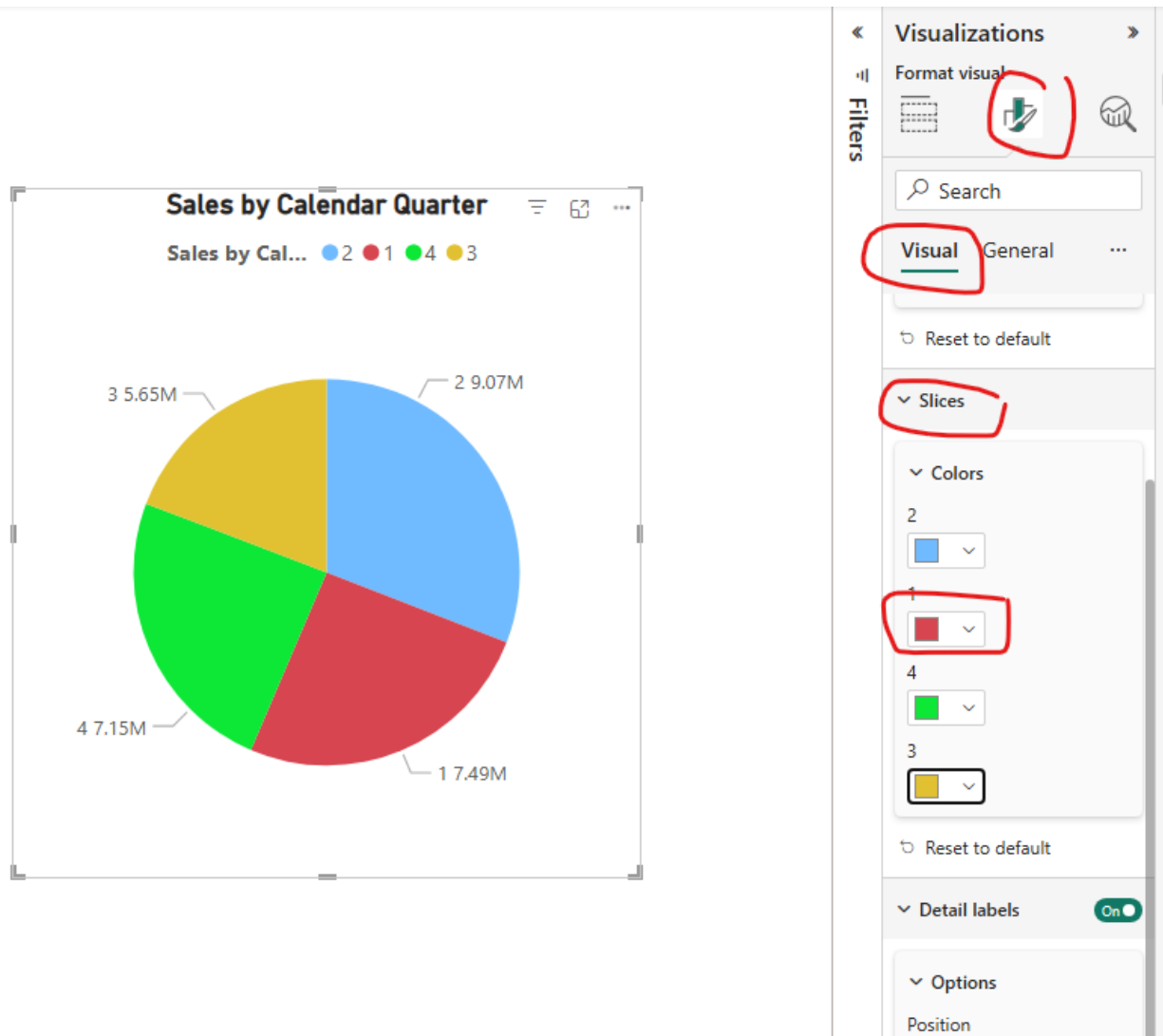
Solution:



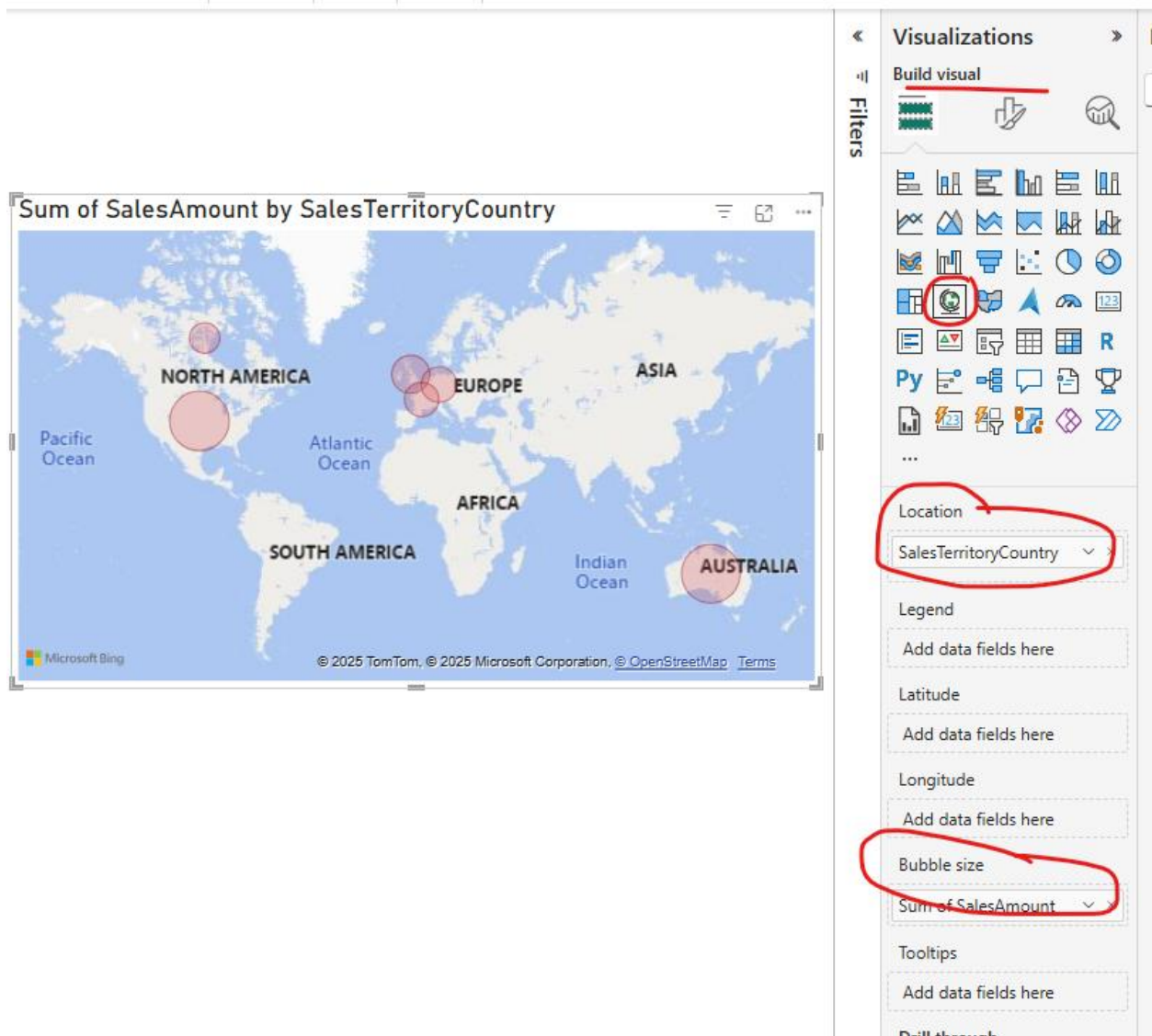
5) Rename the title as Sales by Calendar Quarter and center align



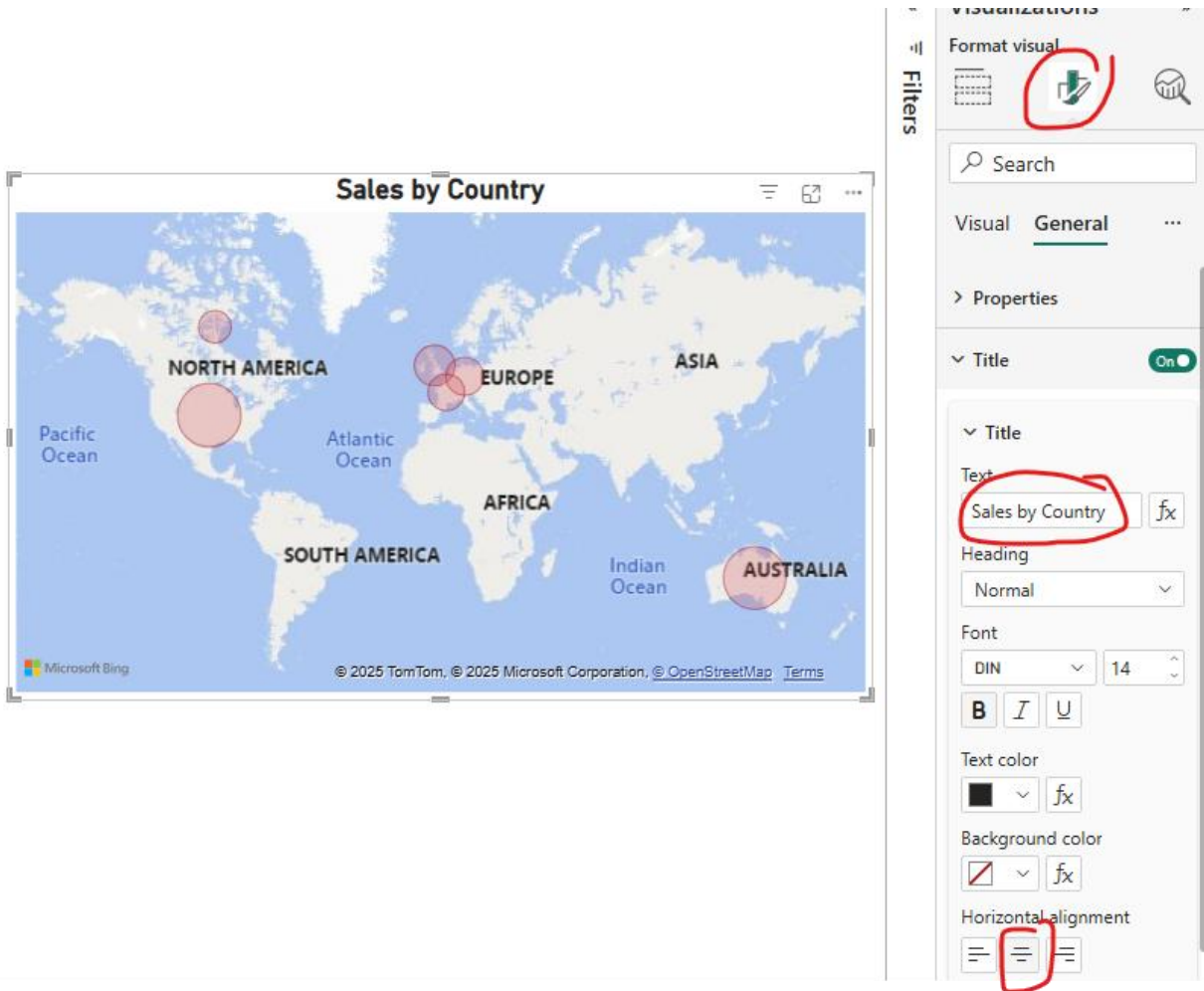
6) In the pie chart, give 1st Quarter Red color, 2nd Quarter blue color, 3rd Quarter yellow and 4th Quarter green.



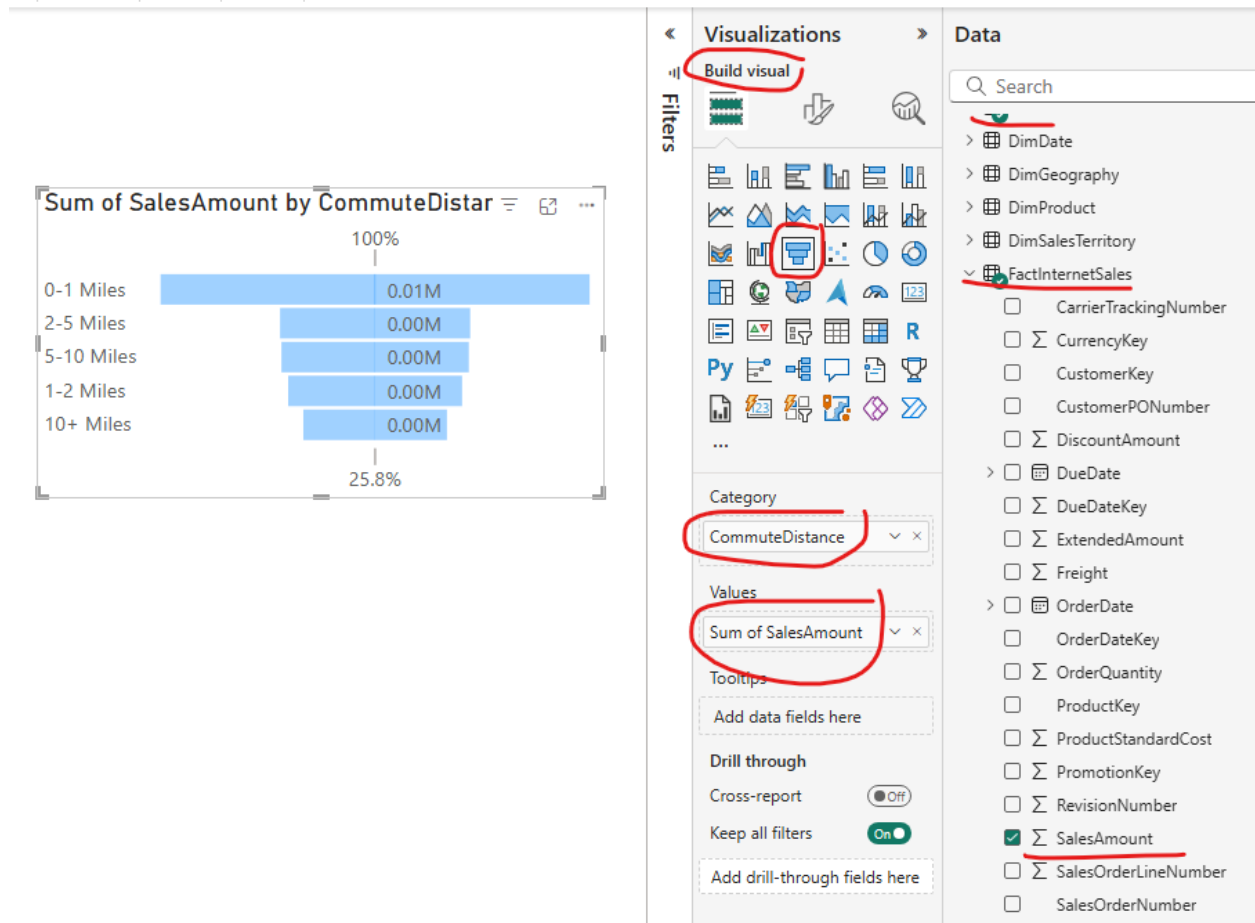
7) Create a Map visual with Sales Territory Country and Sales Amount.



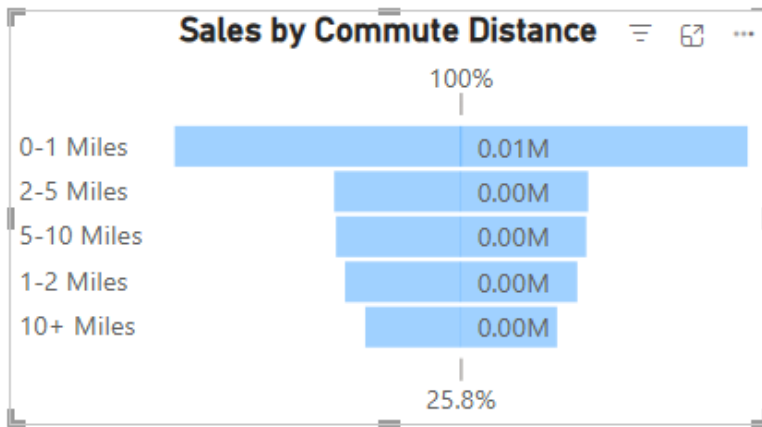
8) Rename it as sales by country and center align.



9) Create a Funnel of Commute Distance and Sales Amount.



11. Rename it as Sales by commute Distance and center align it.



Filters

Visual **General** ...

> Properties

▼ Title On

▼ Title

Text

Sales by Commute Distance fx

Heading

Normal

Font

DIN 14

B *I* U

Text color

Background color

Horizontal alignment

Text wrap On

12) Save it as Adventure Works Sales.

