
Module 1 Assignment

Use this link:

<https://docs.microsoft.com/en-us/sql/samples/adventureworks-install-configure?view=sql-server-ver15&tabs=ssms>

From the link you can see

OLTP	Data Warehouse	Lightweight
AdventureWorks2019.bak	AdventureWorksDW2019.bak	AdventureWorksLT2019.bak
AdventureWorks2017.bak	AdventureWorksDW2017.bak	AdventureWorksLT2017.bak
AdventureWorks2016.bak	AdventureWorksDW2016.bak	AdventureWorksLT2016.bak
AdventureWorks2016_EXT.bak	AdventureWorksDW2016_EXT.bak	N/A
AdventureWorks2014.bak	AdventureWorksDW2014.bak	AdventureWorksLT2014.bak
AdventureWorks2012.bak	AdventureWorksDW2012.bak	AdventureWorksLT2012.bak
AdventureWorks2008R2.bak	AdventureWorksDW2008R2.bak	N/A

Download the file.

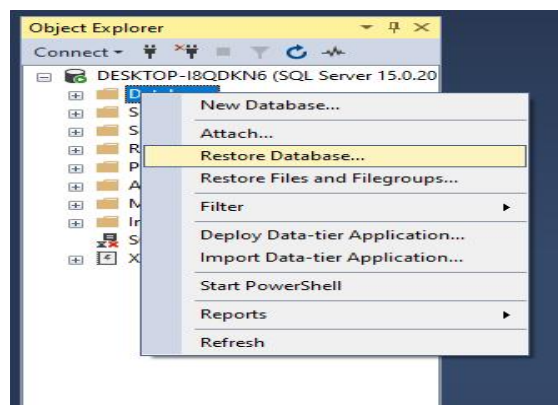
1. Import AdventureWorksDW Database into your Power BI desktop.

(As it is in bak file form we need to import through the SQL database)

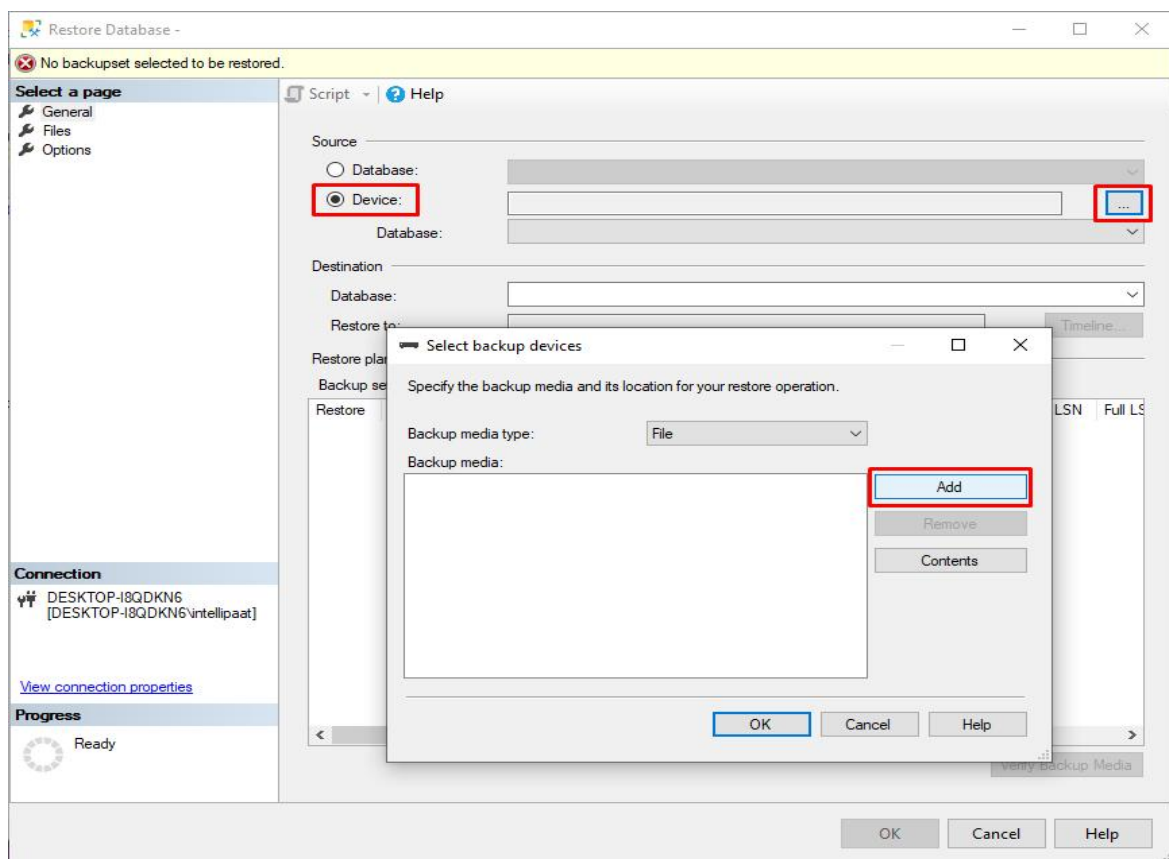
To Access from SQL Server follow these steps,

First connect with your SQL server.

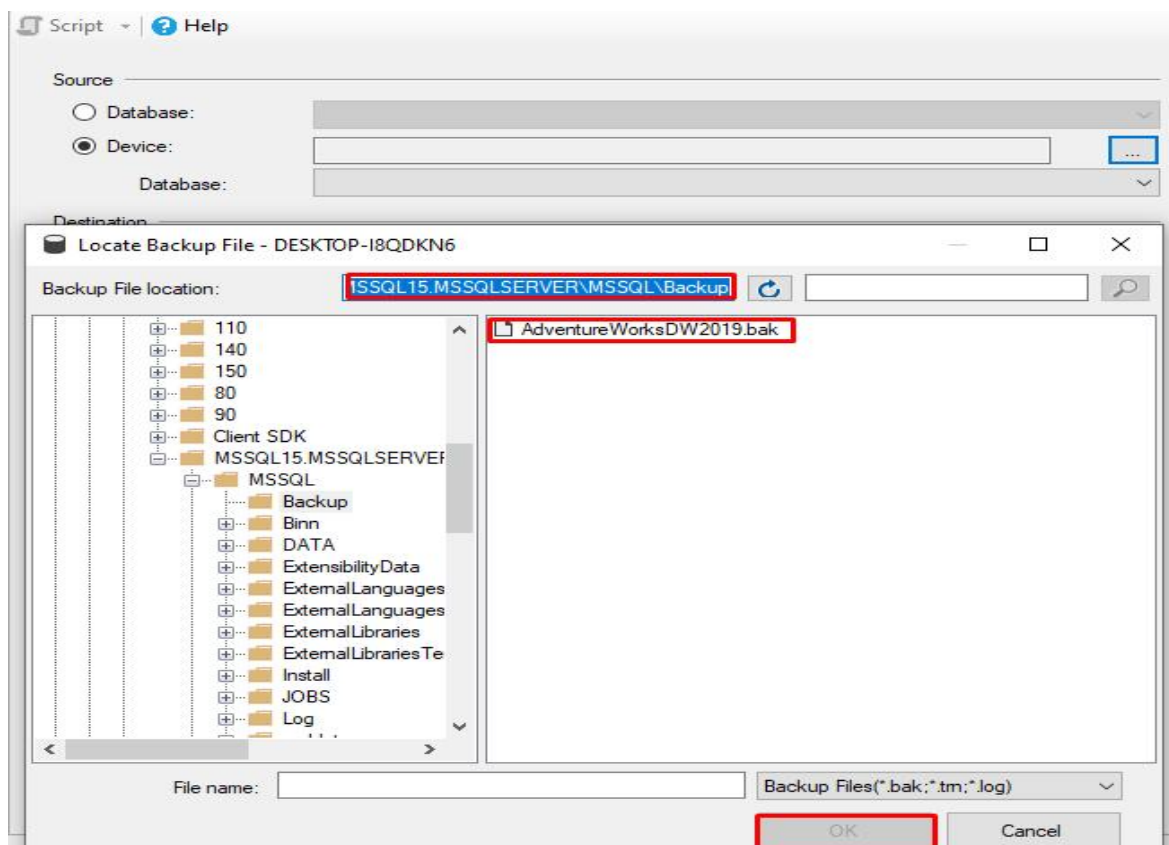
Right click the database and select restore database.



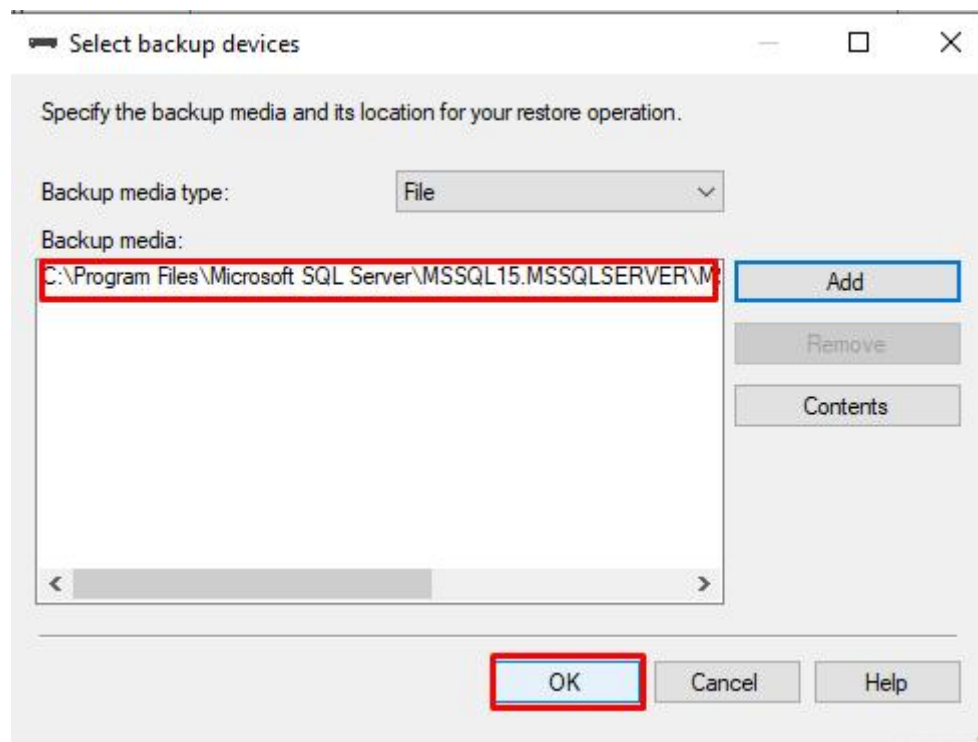
After that you will be getting this screen.



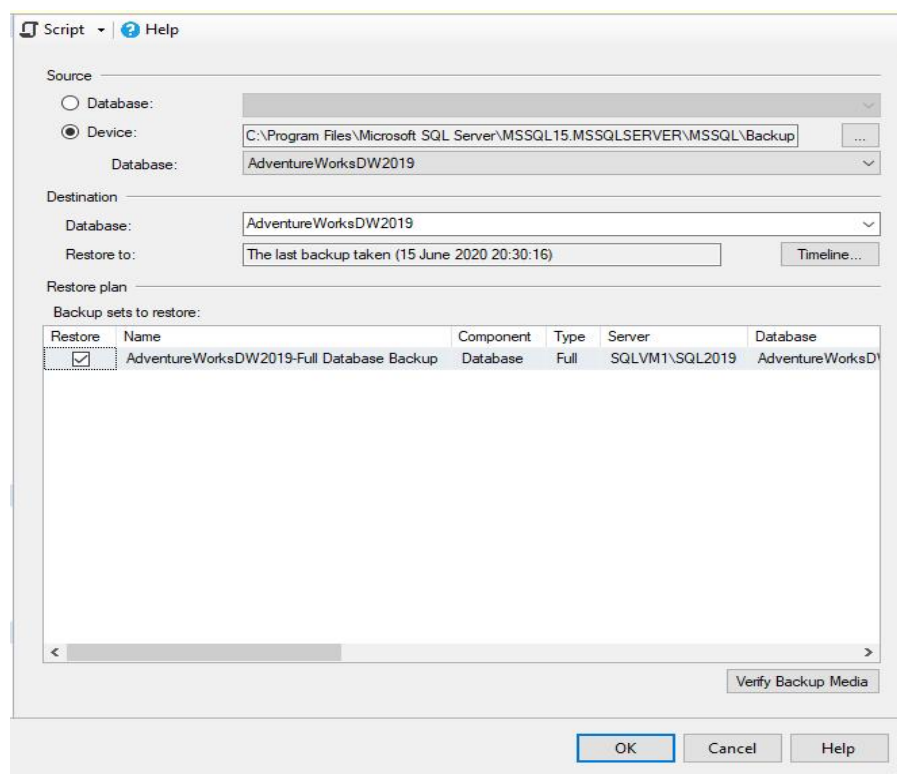
Select Devices Click on the eclipse Click Add.



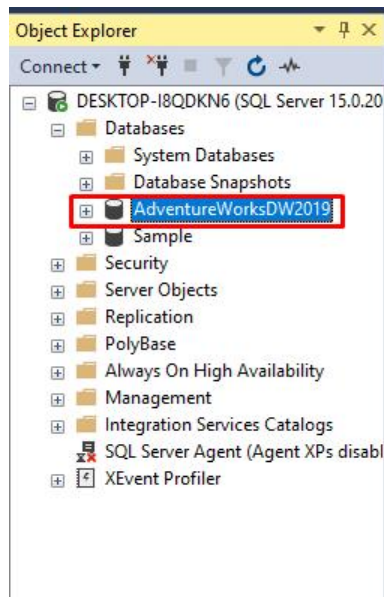
Make sure your file is present inside the path. If not copy paste your file inside the path.
Select your file and click the ok button.



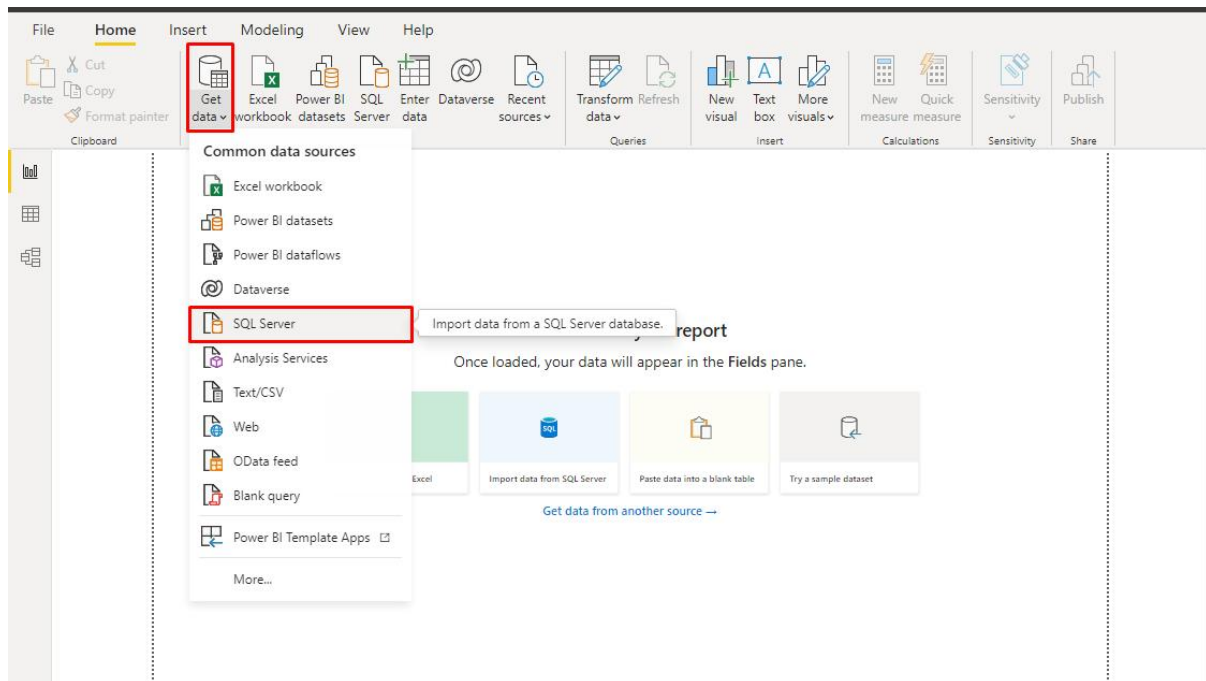
After that you can see your added file path and proceed with ok.



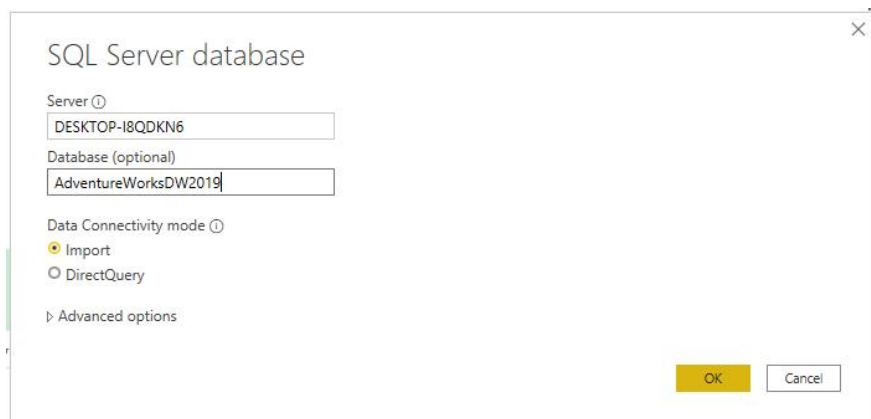
Verify and click ok. You will be getting success message dialog box.



Now you can see your file is in the database. Go to your Power BI window.



From get data select SQL server.



Give your server's name and your database name and select ok.

Navigator

Display Options ▾

DESKTOP-18QDKN6: AdventureWorksDW2008...

- ☐ vAssocSeqLineItems
- ☐ vAssocSeqOrders
- ☐ vDMPrep
- ☐ vTargetMail
- ☐ vTimeSeries
- ☐ AdventureWorksDWBuildVersion
- ☐ DatabaseLog
- ☐ DimAccount
- ☐ DimCurrency
- ☐ DimCustomer
- ☐ DimDate
- ☐ DimDepartmentGroup
- ☐ DimEmployee
- ☐ DimGeography
- ☐ DimOrganization
- ☐ DimProduct
- ☐ DimProductCategory
- ☐ DimProductSubcategory
- ☐ DimPromotion

No items selected for preview

Select Related Tables Load Transform Data Cancel

Now you can see your file is imported to the Power BI.

2. Import FactInternetSales tables and other related tables from the Adventure Works database.

Display Options ▾

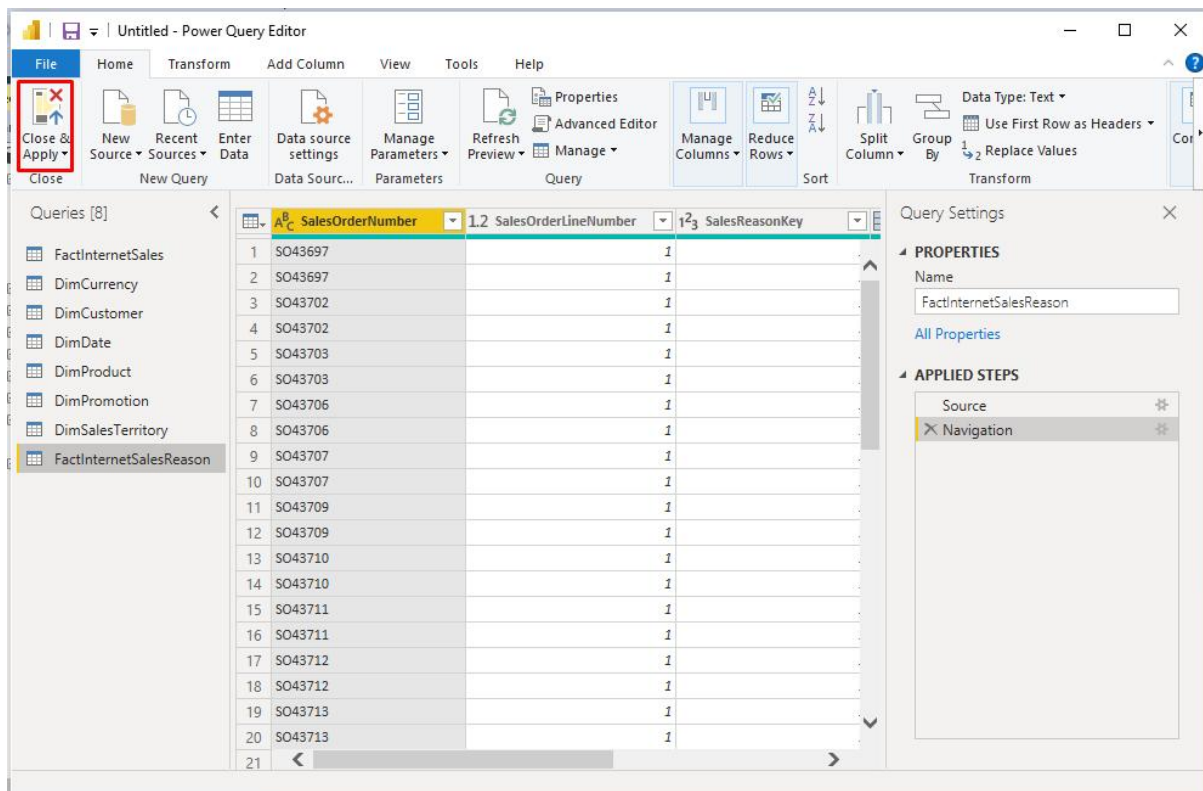
FactInternetSales

ProductKey	OrderDateKey	DueDateKey	ShipDateKey	CustomerKey	Pro
310	20101229	20110110	20110105	21768	
346	20101229	20110110	20110105	28389	
346	20101229	20110110	20110105	25863	
336	20101229	20110110	20110105	14501	
346	20101229	20110110	20110105	11003	
311	20101230	20110111	20110106	27645	
310	20101230	20110111	20110106	16624	
351	20101230	20110111	20110106	11005	
344	20101230	20110111	20110106	11011	
312	20101231	20110112	20110107	27621	
312	20101231	20110112	20110107	27616	
330	20101231	20110112	20110107	20042	
313	20101231	20110112	20110107	16351	
314	20101231	20110112	20110107	16517	

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

Select Related Tables Load Transform Data Cancel

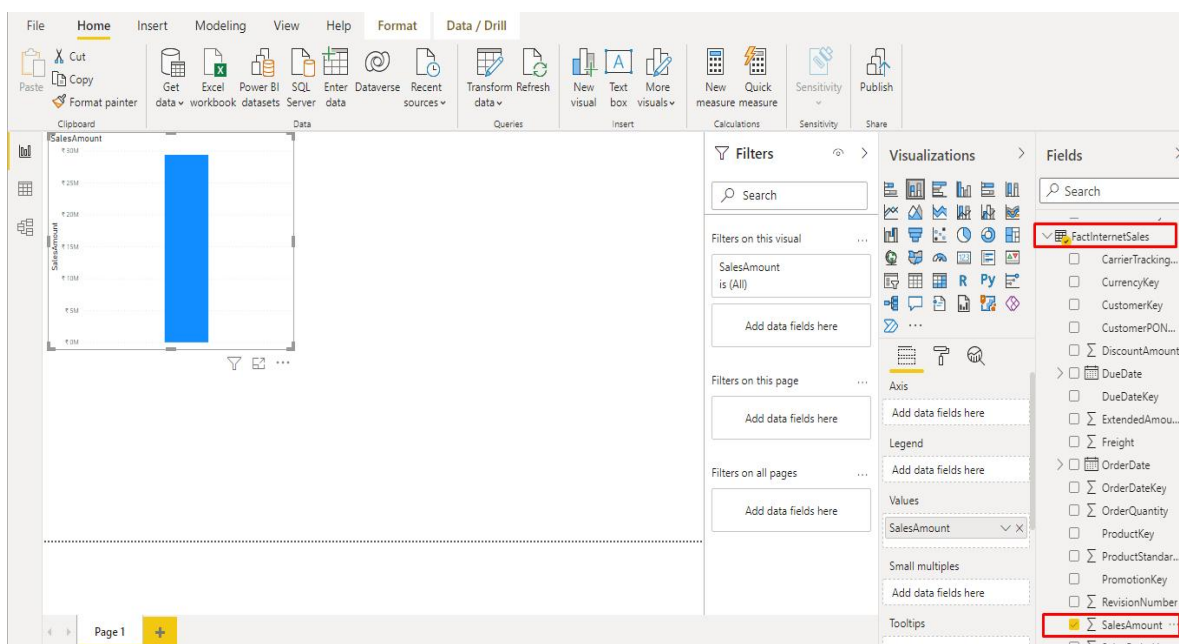
After Transforming data,



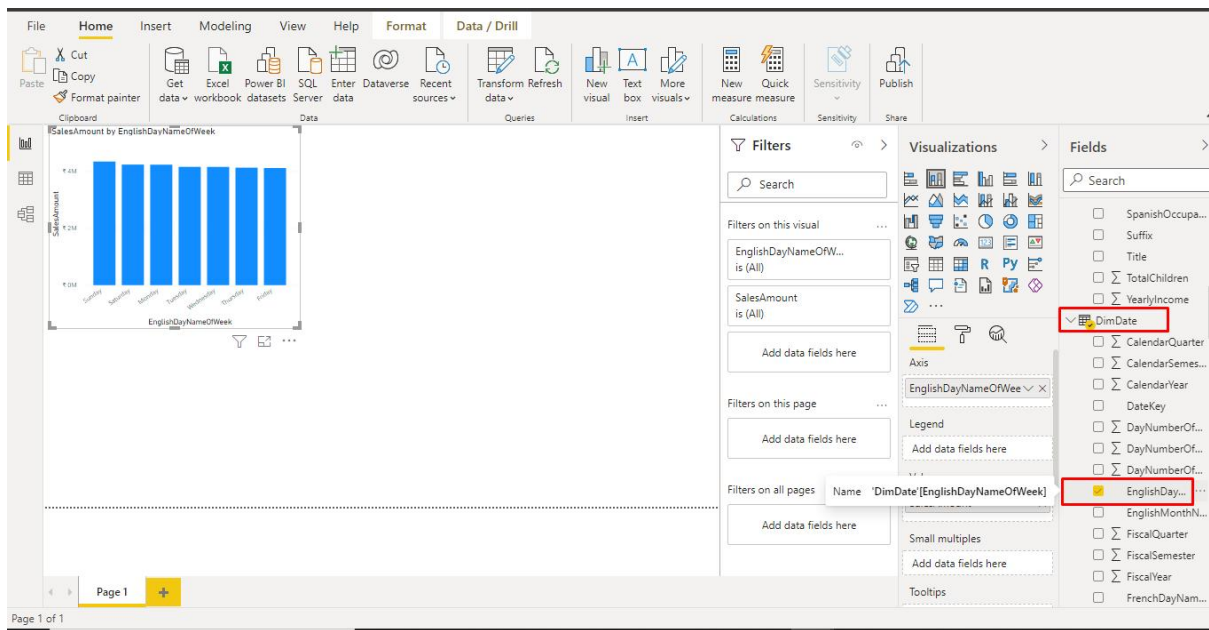
You can see all the related tables are present in the Power BI query editor. Now you can load your data's by clicking apply and close button.

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

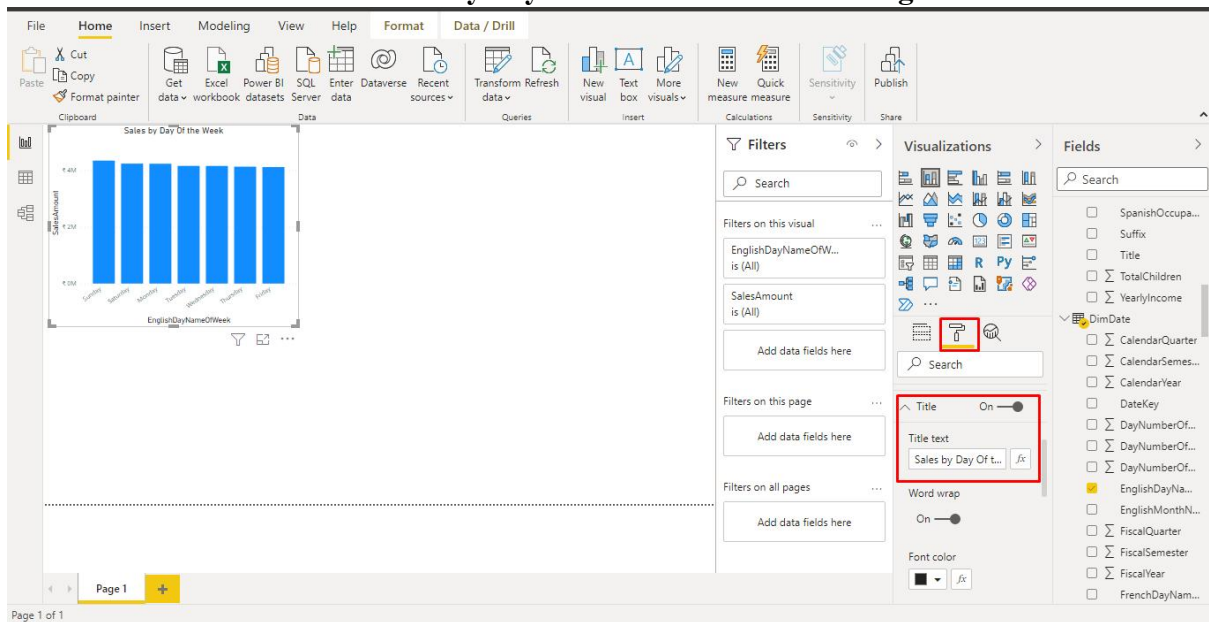
From FactInternetSales SalesAmount.



From DimDate EnglishDateNameOfWeek.



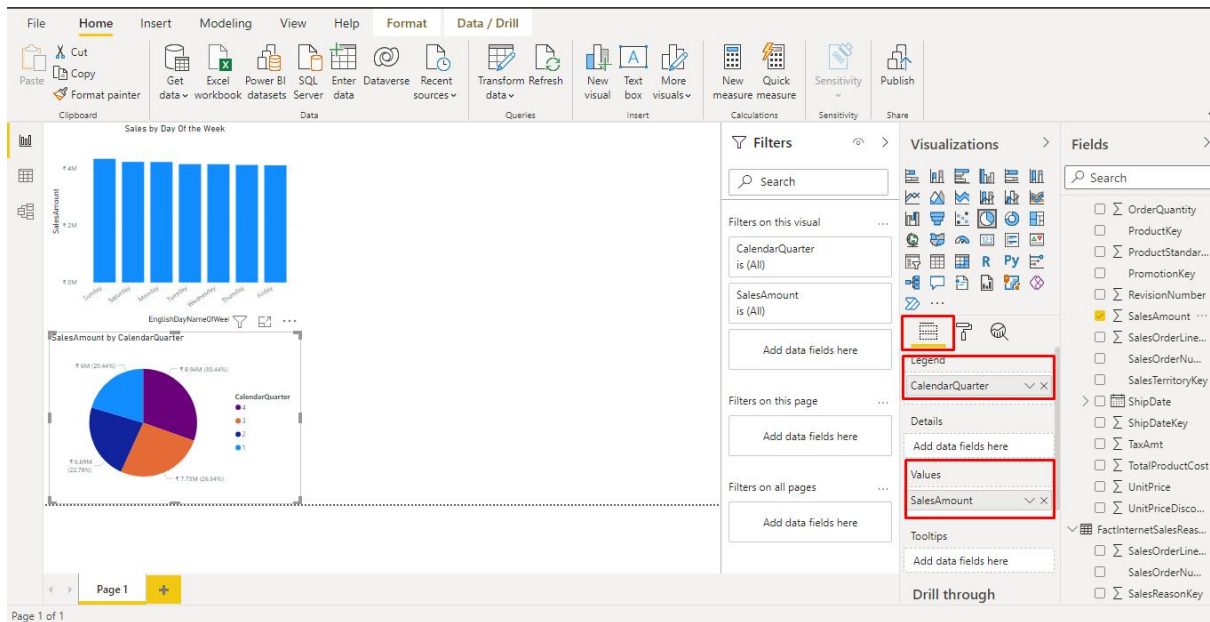
4. Rename the title as Sales by day of the week and center align it.



From format title Rename it and below you can see alignment and center align it.

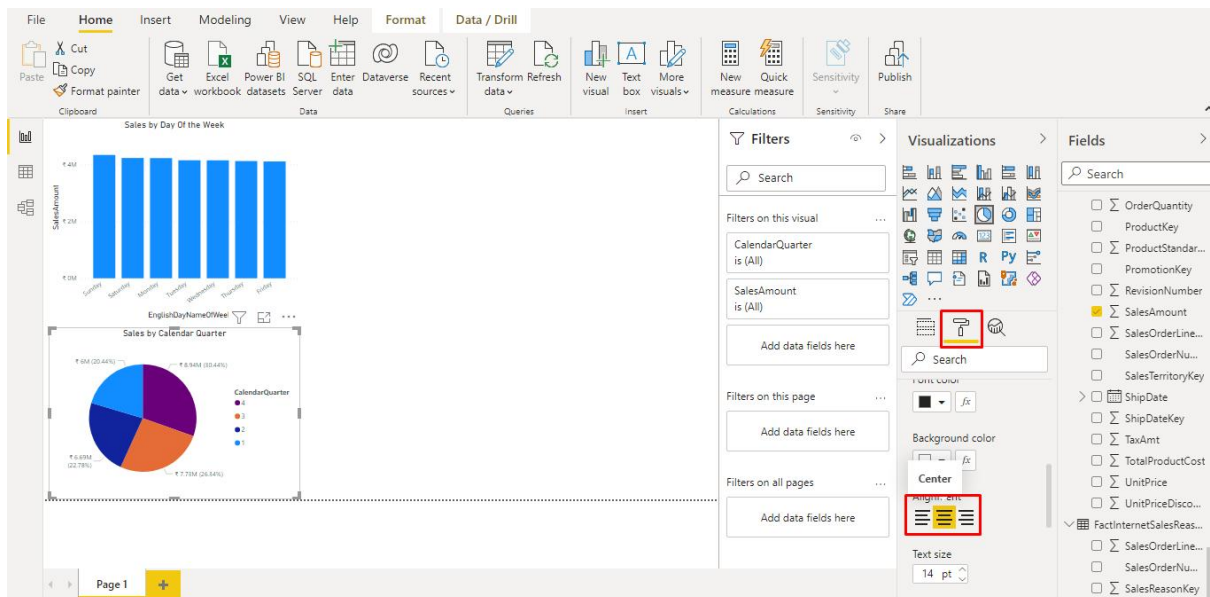
5. Create a Pie chart with a legend as CalendarQuarter and values as SalesAmount.

You can get CalendarQuarter column from DimDate table and SalesAmount column from the FactInternetSales table.



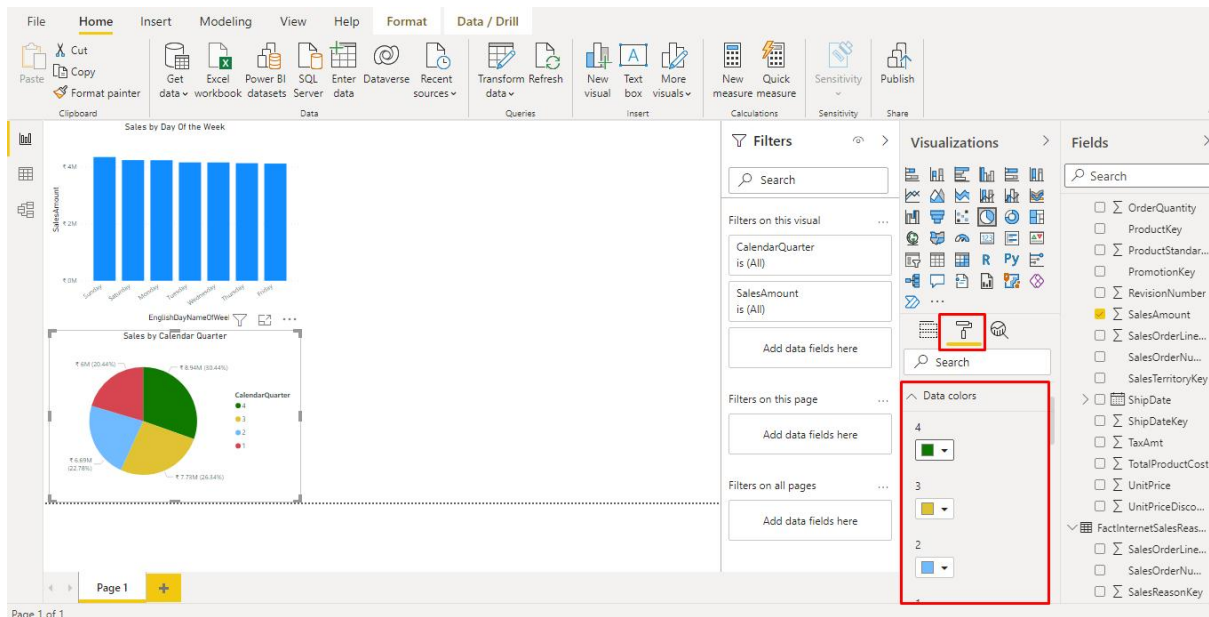
6. Rename the title as Sales by Calendar Quarter and center align it.

From format title Rename the title and align it as center.



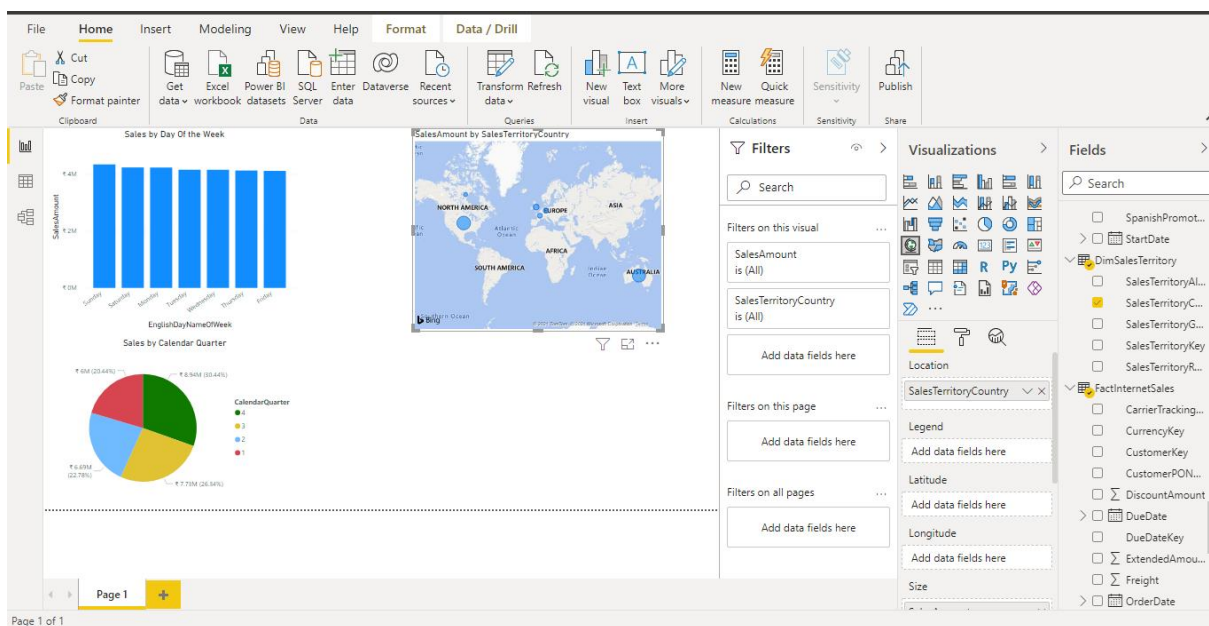
7. In the Pie Chart, give 1st Quarter Red color, 2nd Quarter blue color, 3rd Quarter yellow and 4th Quarter green.

From the format data colors select different colors.
(You can also choose from the color mixers).



8. Create a Map Visual with SalesterritoryCountry and SalesAmount.

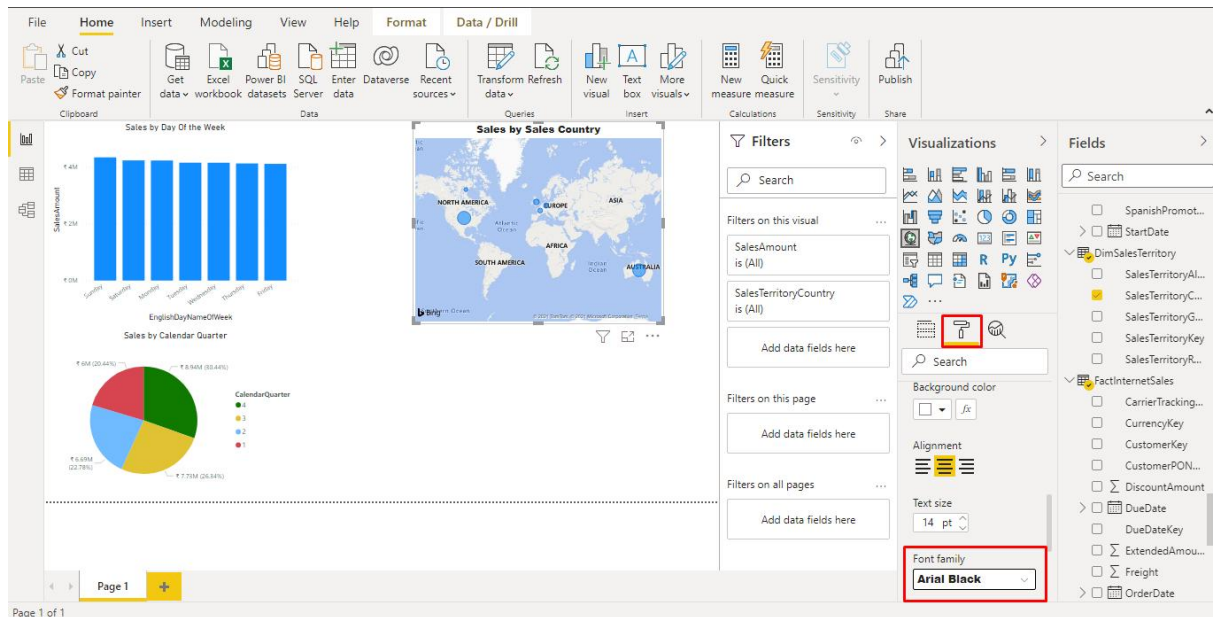
Select Map visual from DimSalesTerritory table select the SalesterritoryCountry column and from the FactInternetSales table select SalesAmount column.



9. Rename it as sales by country and center align.

From format title Rename the title and align it as center.

In additional you can also change the font family, font color etc.



10. Create a Funnel of CommuteDistance and SalesAmount.

Select Funnel Visual from DimCustomer table select CommuteDistance and from FactInternetSales table select SalesAmount column.

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

From format title Rename the title and align it as center.

12. Save it as Adventure Works Sales.

From file save as give Adventure Works Sales as your file name.

