# **Module 1: Introduction to Self-Service BI Solutions**

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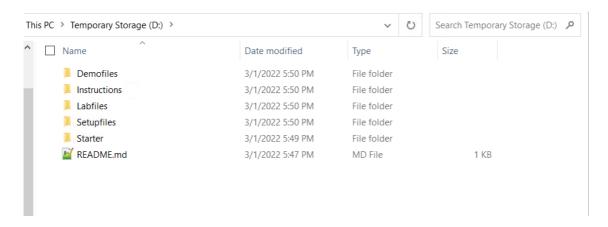
**Note:** Lab Solution is present in D:\Labfiles\Lab01\Solution folder:

## **Lab: Exploring an Enterprise BI Solution**

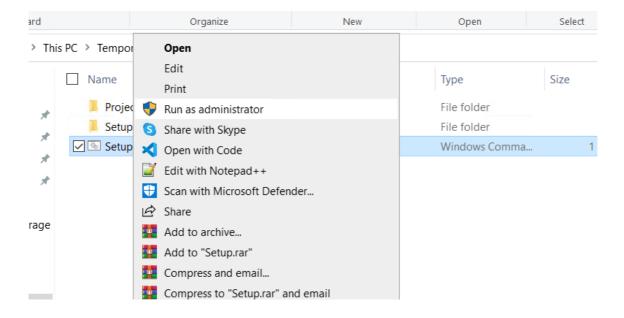
### **Exercise 1: Lab Environment Setup**

#### Task 1: Prepare the Lab Environment

1. Ensure that you have copied all folders from <code>Desktop/power-bi-quickstart</code> folder into \*D:\\* drive before starting the lab:



2. In File Explorer, in the **D:\Labfiles\Lab01\Starter** folder, right-click **Setup.cmd**, and then click **Run as** administrator.



3. When the script is complete, press any key to close the window.

```
Database 'AdventureWorks' running the upgrade step from version 876 to version 877.

Database 'AdventureWorks' running the upgrade step from version 878 to version 878.

Database 'AdventureWorks' running the upgrade step from version 879 to version 879.

Database 'AdventureWorks' running the upgrade step from version 879 to version 880.

Database 'AdventureWorks' running the upgrade step from version 880 to version 881.

Database 'AdventureWorks' running the upgrade step from version 880 to version 881.

Database 'AdventureWorks' running the upgrade step from version 881 to version 882.

Database 'AdventureWorks' running the upgrade step from version 881 to version 883.

Database 'AdventureWorks' running the upgrade step from version 884 to version 885.

Database 'AdventureWorks' running the upgrade step from version 884 to version 885.

Database 'AdventureWorks' running the upgrade step from version 885 to version 887.

Database 'AdventureWorks' running the upgrade step from version 886 to version 887.

Database 'AdventureWorks' running the upgrade step from version 887 to version 888.

Database 'AdventureWorks' running the upgrade step from version 887 to version 889.

Database 'AdventureWorks' running the upgrade step from version 889 to version 890.

Database 'AdventureWorks' running the upgrade step from version 890 to version 891.

Database 'AdventureWorks' running the upgrade step from version 890 to version 891.

Database 'AdventureWorks' running the upgrade step from version 891 to version 892.

Database 'AdventureWorks' running the upgrade step from version 891 to version 893.

Database 'AdventureWorks' running the upgrade step from version 893 to version 894.

Database 'AdventureWorks' running the upgrade step from version 894 to version 895.

Database 'AdventureWorks' running the upgrade step from version 896.

Database 'AdventureWorks' running the upgrade step from version 896.

Database 'AdventureWorks' running the upgrade step from version 897 to version 898.

Database 'AdventureWorks' running th
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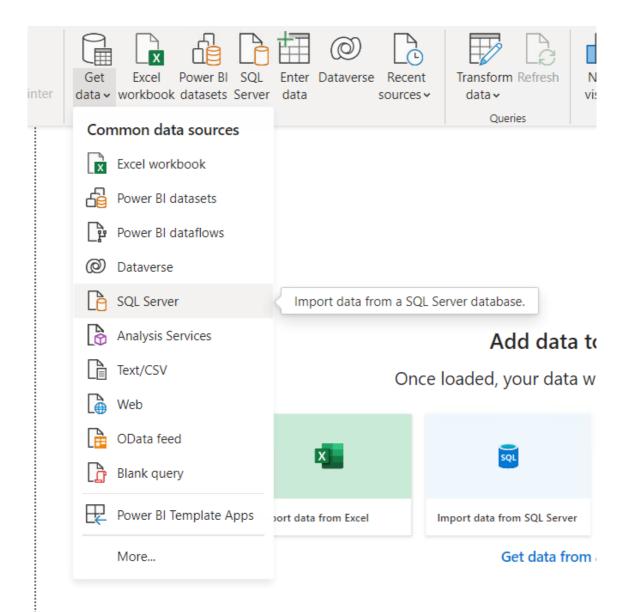
### **Exercise 2: Creating a Power BI Report**

#### Task 1: Import Data into Power BI Desktop

- 1. Make sure previous task was completed.
- 2. On the Taskbar, click Power BI Desktop.

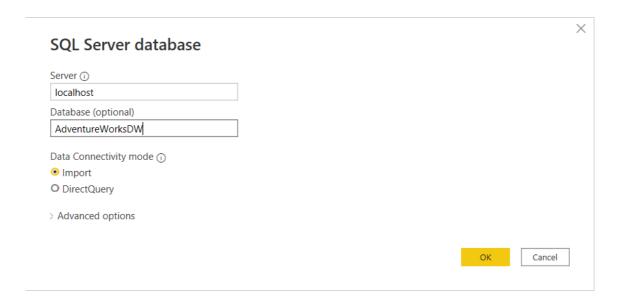


- 3. To close the getting started window, at the top-right of the window, click  ${\bf X}$ .
- 4. On the Power BI Desktop screen appears, click Get data.

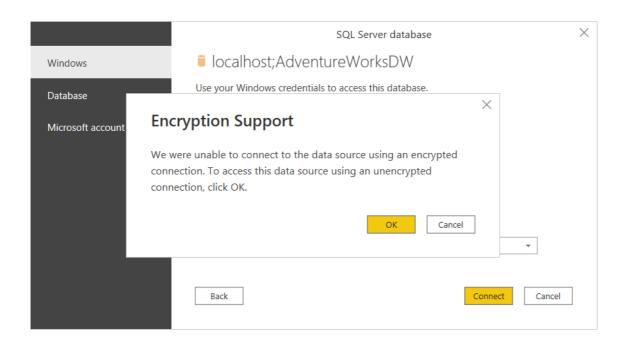


- 5. In the Get Data dialog box, click SQL Server, and then click Connect.
- 6. In the SQL Server database dialog box, in the Server box, type localhost.

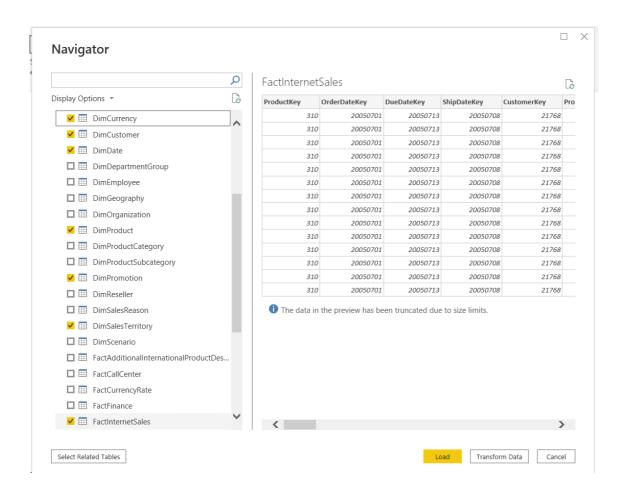
7. In the Database (optional) box, type AdventureWorksDW, and then click OK.



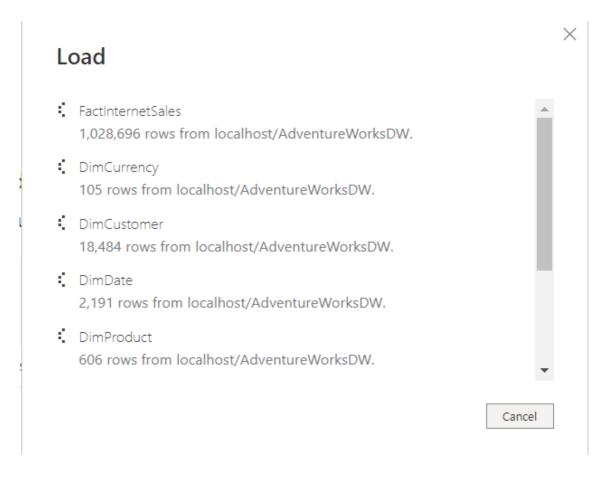
- 8. If the **SQL Server database** dialog box appears, leave the default settings unchanged, and then click **Connect**.
- 9. If the **Encryption Support** dialog box appears, click **OK**.



- 10. In the **Navigator** dialog box, select the **FactInternetSales** check box.
- 11. Click **Select Related Tables**, and then click **Load**.



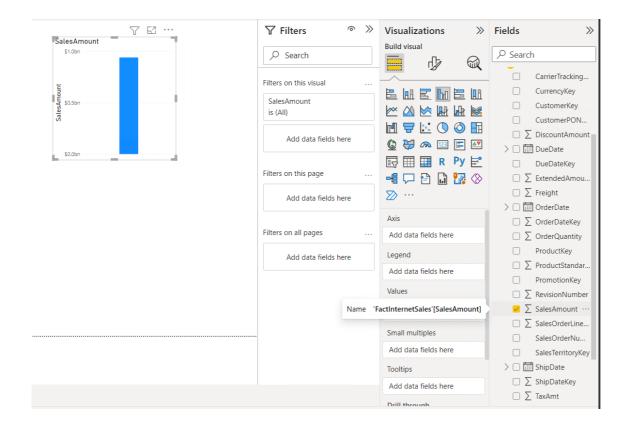
Note: Wait for some time while tables are loaded.



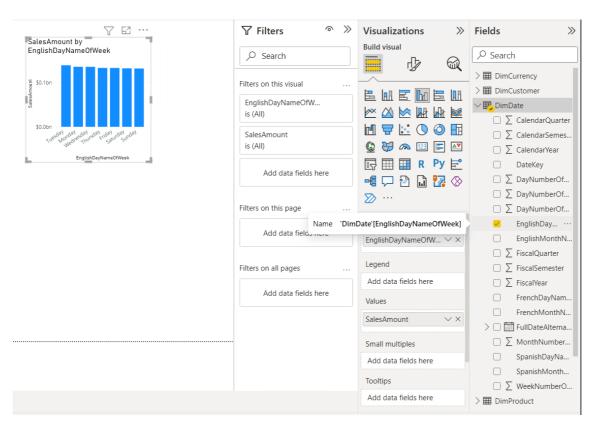
- 12. On the File menu, click Save.
- 13. In the **Save As** dialog box, browse to the **D:\Labfiles\Lab01\Starter\Project** folder, and in the **File name** box, type **Adventure Works Sales 1**, and then click **Save**.

#### Task 2: Add Visualizations to the Report

1. In the **FIELDS** pane, expand **FactInternetSales**, and drag the **SalesAmount** field onto the report canvas to create a column chart.



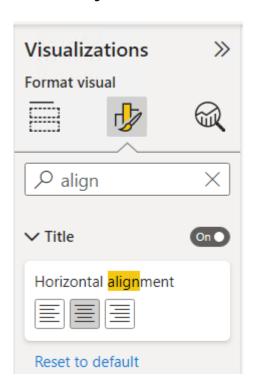
 $2. \ {\bf Expand} \ {\bf DimDate}, \ {\bf and} \ {\bf drag} \ {\bf the} \ {\bf EnglishDayNameOfWeek} \ {\bf field} \ {\bf to} \ {\bf the} \ {\bf Axis} \ {\bf property}.$ 



- 3. Move the chart to the top left-hand corner of the canvas, and expand the chart width so the days of the week display in full.
- 4. In the VISUALIZATIONS pane, click Format, and expand Title.
- 5. In the Title text box, type Sales by Day of Week.

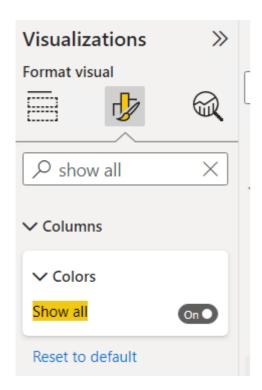


6. Next to **Alignment**, click the **Center** icon.

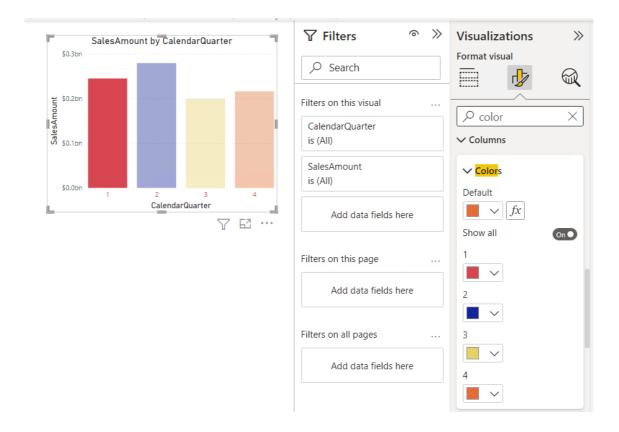


- 7. In the **FIELDS** pane, under **FactInternetSales**, drag the **SalesAmount** field onto the report canvas to create a column chart.
- 8. Under DimDate, drag the CalendarQuarter field onto the chart. Notice that there is only one column.
- 9. In the VISUALIZATIONS pane, click Fields. Drag the CalendarQuarter field from Value to Axis.

- 10. Click **Format**, and expand **Title**.
- 11. In the **Title text** box, type **Sales by Calendar Quarter**.
- 12. Next to **Alignment**, click the **Center** icon.
- 13. Search **Show all** as shown below and set to **On**:



After that change colors, for 1, select red, for 2, select blue, and for 3, select yellow.

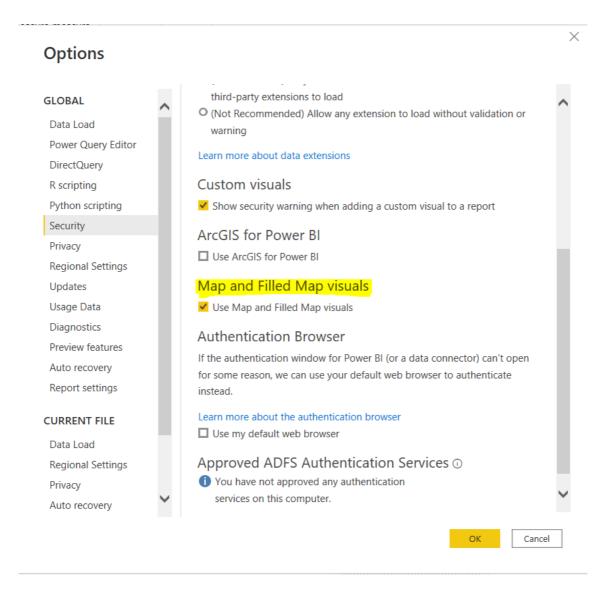


- 14. Move the chart to the right of the **Sales by Day of Week** chart, and expand it so both charts are the same height.
- 15. In the **FIELDS** pane, expand **DimSalesTerritory**, and drag the **SalesTerritoryCountry** column onto the report canvas under the **Sales by Day of Week** chart.

Note: Map and filled map visuals option are disabled by default. You will need to enabled it first.



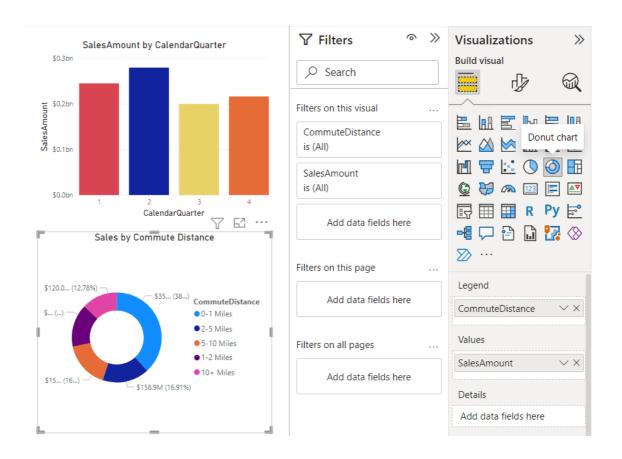
Map and filled map visuals are disabled. To enable them, go to File > Options and settings > Options > Global > Security. See details



- 16. Under FactInternetSales, drag the SalesAmount field onto the map.
- 17. Expand the map to show all the values.



- 18. In the Title text box, type Sales by Country.
- 19. Next to **Alignment**, click the **Center** icon.
- 20. In the **FIELDS** pane, expand **DimCustomer**, and drag the **CommuteDistance** field onto the report canvas under the **Sales by Calendar Quarter** chart.
- 21. Under FactInternetSales, drag the SalesAmount field onto the chart.
- 22. In the VISUALIZATIONS pane, click Donut chart.
- 23. In the Title text box, type Sales by Commute Distance.
- 24. Next to Alignment, click the Center icon.



25. On the File menu, click Save.