Demonstration on Using Databases in Azure SQL Database as a Power BI Data Source

In this demonstration, you will see how to:

- Import data from tables in a database in Azure SQL Database.
- View relationships between the tables.

Demonstration Steps:

Import Data from Tables in a Database in Azure SQL Database

1. Ensure that the MSL-TMG1, 20778A-MIA-DC, and 20778A-MIA-SQL virtual machines are running, and then log on to 20778A-MIA-SQL as ADVENTUREWORKS\Student with the password Pa$$w0rd.
2. On the taskbar, click Power BI Desktop.
3. In the Power BI Desktop window, click Get Data.
4. In the Get Data dialog box, click Microsoft Azure SQL Database, and then click Connect.
5. In the SQL Server database window, in the Server box, type the URL of the Azure server <Server Name>.database.windows.net (where <Server Name> is the name of the server that you created).
6. In the Database (optional) box, type AdventureWorksLT, and then click OK.
7. In the SQL Server database dialog box, click Database.
8. In the Username box, type Student.
9. In the Password box, type Pa$$w0rd, and then click Connect.
10. In the Navigator dialog box, select SalesLT.Customer, SalesLT.SalesOrderDetail, and SalesLT.SalesOrderHeader, and then click Load.
11. In the Fields pane, notice that the three tables have been added. When the report is published to the Power BI service, the tables are combined into a single dataset.

View Relationships Between the Tables

1. In the menu of the left, click Relationships, and then expand the SalesLTSalesOrderDetail, SalesLTSalesOrderHeader, and SalesLT Customer tables to display all columns.
2. Position the cursor on the relationship arrow between SalesLTSalesOrderDetail and SalesLTSalesOrderHeader. Notice that the related columns are highlighted.
3. Position the cursor on the relationship arrow between SalesLTSalesOrderHeader and SalesLT Customer. Point out that the related columns are highlighted.
4. In the menu of the left, click Report to return to the report canvas.
5. Drag the CompanyName field from SalesLT Customer onto the canvas to create a table.
6. Drag the LineTotal field from SalesLTSalesOrderDetail onto the Customers table on the report.

7. In the Visualizations pane, click Stacked column chart.
8. Drag the right edge of the chart to stretch it across the report and display the customers in full.
9. In the Visualizations pane, click Format, expand Title, and then rename the chart Line Total by Company Name.
10. Click on the canvas, and then drag the CompanyName field from SalesLT Customer onto the canvas to create a table below the chart.
11. Drag the OrderQty field from SalesLTSalesOrderDetail onto the Customers table on the report.
12. In the Visualizations pane, click Stacked column chart.
13. Drag the right edge of the chart to stretch it across the report and display the customers in full.
14. In the Visualizations pane, click Format, expand Title, and then rename the chart Order Quantity by Company Name.
15. Expand Data colors, and then select a different color from the Default color selector.
16. Click on the canvas, drag the CompanyName field from SalesLT Customer onto Page level filters.
17. Close Power BI without saving your changes.