

# Module 7: Direct Connectivity

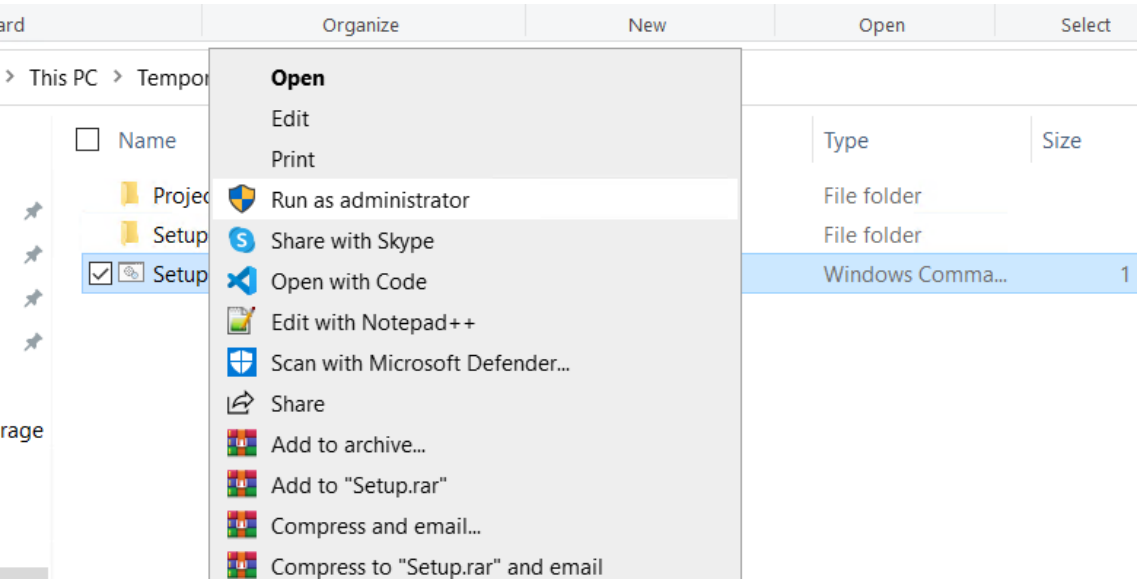
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## Lab: Direct connectivity

### Exercise 1: Direct connections in Power BI

#### Task 1: Prepare the lab environment

1. Ensure that you have copied all folders from Desktop/power-bi-quickstart folder into \*D:\\* drive before starting the lab.
2. In File Explorer, in the **D:\Labfiles\Lab07\Starter** folder, right-click **Setup.cmd**, and then click **Run as administrator**.



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

```
C:\Windows\System32\cmd.exe
Database 'AdventureWorks' running the upgrade step from version 876 to version 877.
Database 'AdventureWorks' running the upgrade step from version 877 to version 878.
Database 'AdventureWorks' running the upgrade step from version 878 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 881 to version 882.
Database 'AdventureWorks' running the upgrade step from version 882 to version 883.
Database 'AdventureWorks' running the upgrade step from version 883 to version 884.
Database 'AdventureWorks' running the upgrade step from version 884 to version 885.
Database 'AdventureWorks' running the upgrade step from version 885 to version 886.
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 888 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 891 to version 892.
Database 'AdventureWorks' running the upgrade step from version 892 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 895 to version 896.
Database 'AdventureWorks' running the upgrade step from version 896 to version 897.
Database 'AdventureWorks' running the upgrade step from version 897 to version 898.
Database 'AdventureWorks' running the upgrade step from version 898 to version 899.
Database 'AdventureWorks' running the upgrade step from version 899 to version 900.
Database 'AdventureWorks' running the upgrade step from version 900 to version 901.
Database 'AdventureWorks' running the upgrade step from version 901 to version 902.
Database 'AdventureWorks' running the upgrade step from version 902 to version 903.
Database 'AdventureWorks' running the upgrade step from version 903 to version 904.
RESTORE DATABASE successfully processed 24276 pages in 0.941 seconds (201.539 MB/sec).
Press any key to continue . . .
```

## Task 2: Direct connectivity from the Power BI Desktop

1. On the Taskbar, click **Power BI Desktop**.



2. To close the getting started window, at the top-right of the window, click **X**.
3. In the **Power BI Desktop** window, click **Get data**.
4. In the **Get Data** dialog box, click **SQL Server**, and then click **Connect**.
5. In the **SQL Server database** window, in the **Server** box, type the URL of the server **localhost**.
6. In the **Database (optional)** box, type **AdventureWorksLT**.
7. Under **Data Connectivity mode**, click **DirectQuery**, and then click **OK**.

SQL Server database

Server ⓘ

localhost

Database (optional)

AdventureWorksLT

Data Connectivity mode ⓘ

☐ Import
 ☒ DirectQuery

> Advanced options

OK

Cancel

8. In the **Navigator** dialog box, select the **SalesLT.Product** and **SalesLT.SalesOrderDetail** check boxes, and then click **Load**.

Navigator

Display Options ▾

localhost: AdventureWorksLT [18]

☐ SalesLT.vGetAllCategories
 ☐ SalesLT.vProductAndDescription
 ☐ SalesLT.vProductModelCatalogDescription
 ☐ BuildVersion
 ☐ ErrorLog
 ☐ SalesLT.Address
 ☐ SalesLT.Customer
 ☐ SalesLT.CustomerAddress
 ☒ SalesLT.Product
 ☐ SalesLT.ProductCategory
 ☐ SalesLT.ProductDescription
 ☐ SalesLT.ProductModel
 ☐ SalesLT.ProductModelProductDescription
 ☒ SalesLT.SalesOrderDetail
 ☐ SalesLT.SalesOrderHeader
 ☐ f<sub>x</sub> ufnGetAllCategories
 ☐ f<sub>x</sub> ufnGetCustomerInformation
 ☐ f<sub>x</sub> ufnGetSalesOrderStatusText

SalesLT.SalesOrderDetail

SalesOrderID	SalesOrderDetailID	OrderQty	ProductID	UnitPrice	U
71774	110562	1	836	356.90	
71774	110563	1	822	356.90	
71776	110567	1	907	63.90	
71780	110616	4	905	218.40	
71780	110617	2	983	461.60	
71780	110618	6	988	113.00	
71780	110619	2	748	818.70	
71780	110620	1	990	323.90	
71780	110621	1	926	149.80	
71780	110622	1	743	809.70	
71780	110623	4	782	1,376.90	
71780	110624	2	918	158.40	
71780	110625	4	780	1,391.90	
71780	110626	1	937	48.50	
71780	110627	6	867	41.90	
71780	110628	1	985	113.00	
71780	110629	2	989	323.90	
71780	110630	3	991	323.90	
71780	110631	1	992	323.90	
71780	110632	2	993	323.90	
71780	110633	2	984	113.00	
71780	110634	3	986	113.00	
71780	110635	3	987	113.00	

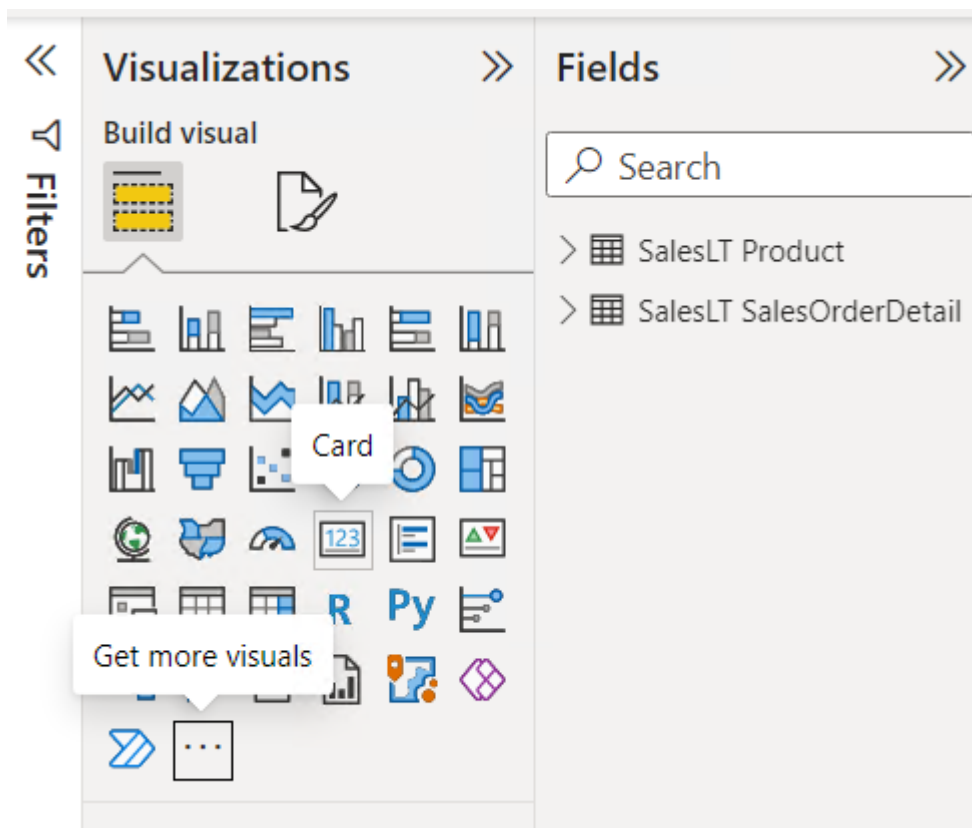
Select Related Tables

Load

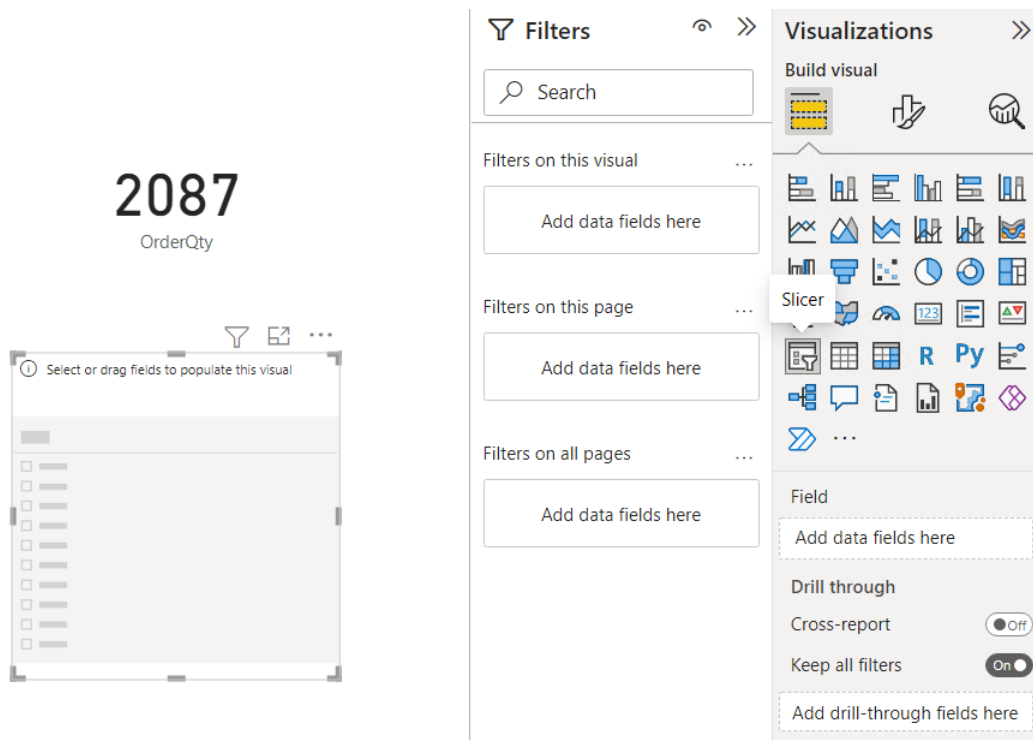
Transform Data

Cancel

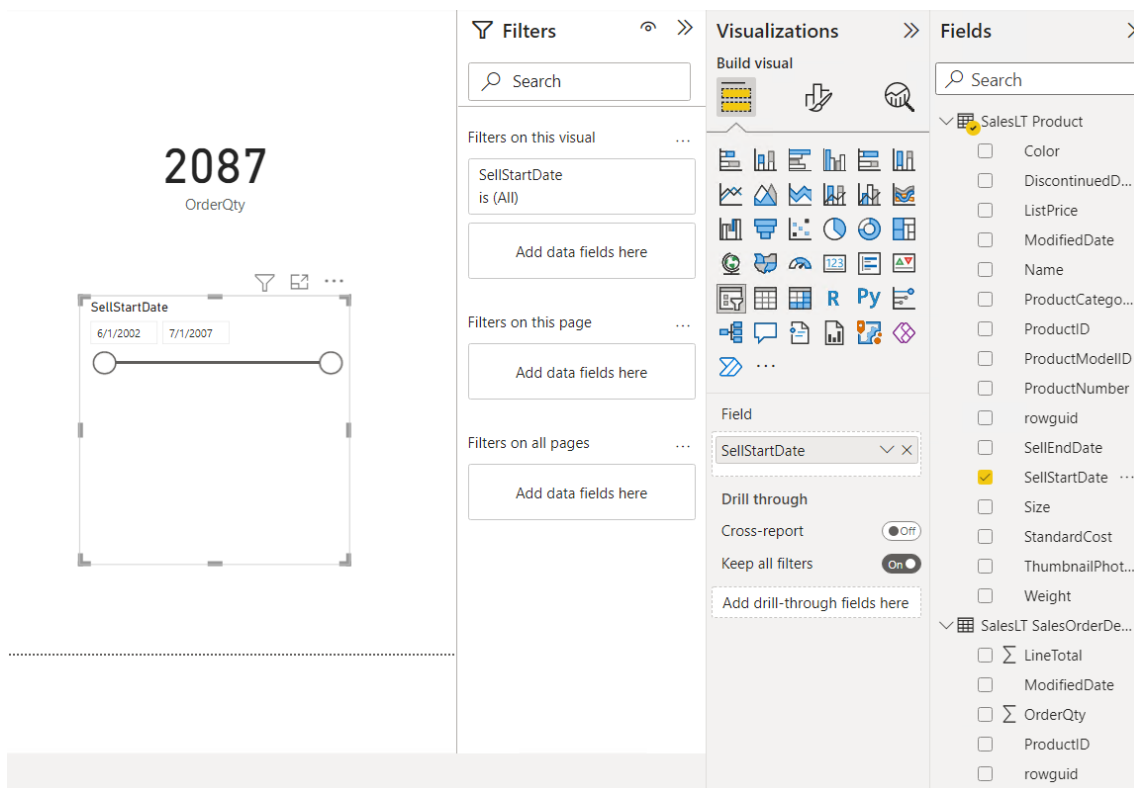
9. In the **Visualizations** pane, click the **Card** icon.



10. In the **Fields** pane, expand the **SalesLT SalesOrderDetail** table, and drag the **OrderQty** field to the chart.
11. Click the canvas, to ensure that the Card chart is not active.
12. In the **Visualizations** pane, click the **Slicer** icon.



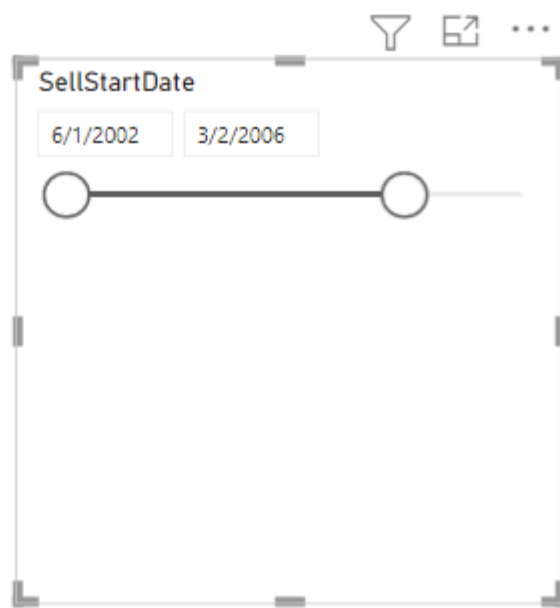
13. In the **Fields** pane, expand the **SalesLT Product** table, and drag the **SellStartDate** field to the chart.



14. Drag the slider bar to reduce the date range, and verify that the **OrderQty** value changes.

# 344

OrderQty



The image shows a date range selector interface. At the top, there are three icons: a funnel, a square with an arrow, and three dots. Below these is a title bar labeled "SellStartDate". Under the title bar, there are two date input boxes: the first contains "6/1/2002" and the second contains "3/2/2006". Below the input boxes is a horizontal line with two circular handles, one at the start and one at the end, indicating a range. The entire interface is enclosed in a rectangular frame with corner and side handles for resizing.

15. On the **File** menu, click **Save**.
16. In the **Save As** dialog box, go to the **D:\Labfiles\Lab07\Starter** folder, in the **File name** box, type **Sales Orders**, and then click **Save**.