Module 4: Shaping and Combining Data

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Note: Lab Solution is present in Desktop\power-bi-quickstart\Labfiles\Lab04\Solution folder:

Lab: Shaping and Combining Data

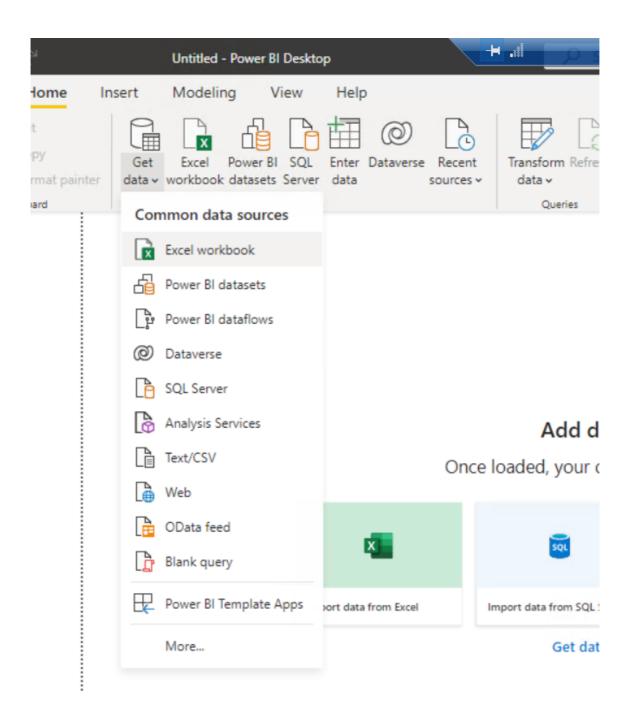
Exercise 1: Shape Power BI Data

Task 1: Preparing the Environment

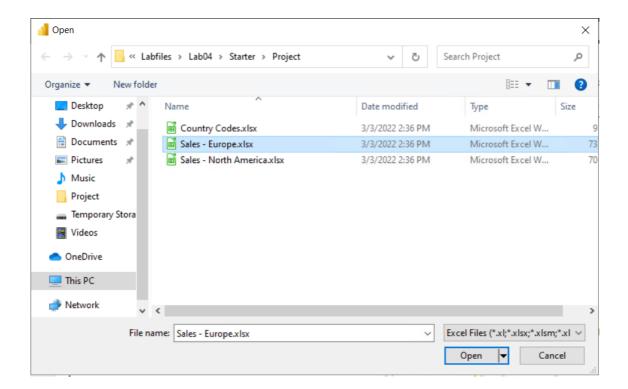
Lab environment is already setup.

Task 2: Import Data from Excel

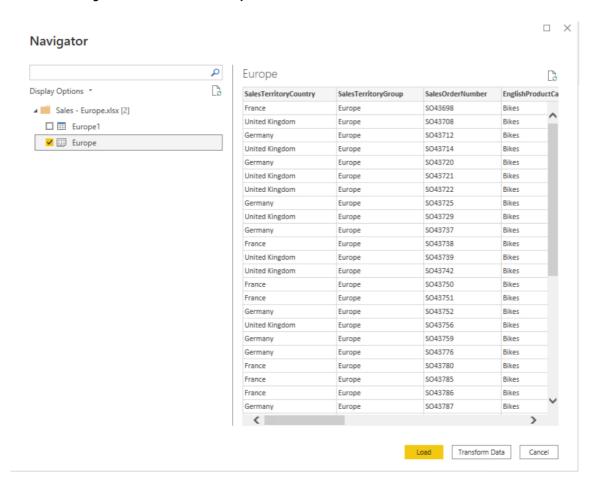
- 1. Make sure previous task was completed.
- 2. On the Taskbar, click Power BI Desktop.
- 3. To close the getting started window, at the top-right of the window, click ${\bf X}$.
- 4. In the **Power BI Desktop** window, click **Get data**.
- 5. In the Get Data window, click Excel Workbook:



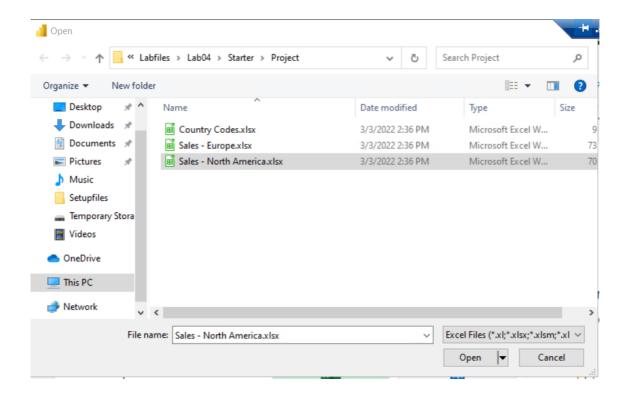
7. In the Open dialog box, browse to the Desktop\power-bi-quickstart\Labfiles\Lab04\Starter\Project folder, click Sales - Europe.xlsx, and then click Open.



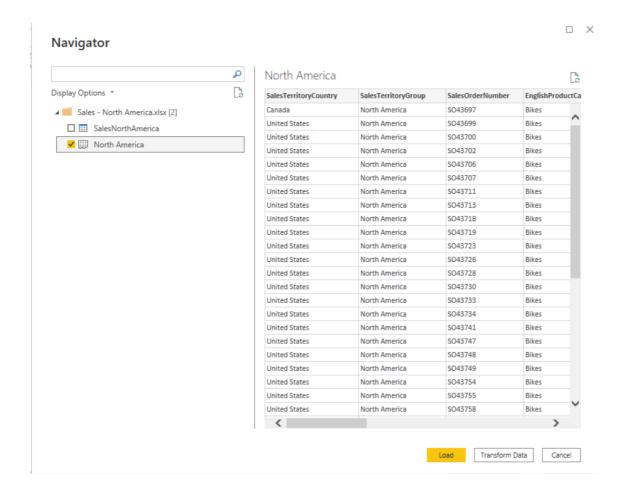
8. In the Navigator window, select the Europe check box, and then click Load.



- 9. On the **Home** tab, click the **Get Data** arrow, and then click **Excel Workbook**.
- 10. In the **Open** dialog box, browse to the **Desktop\power-bi-quickstart\Labfiles\Lab04\Starter\Project** folder, click **Sales North America.xlsx**, and then click **Open**.

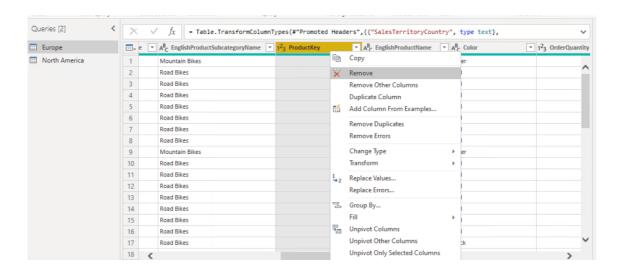


11. In the **Navigator** window, select the **North America** check box, and then click **Transform Data**. This opens the Power Query Editor window.



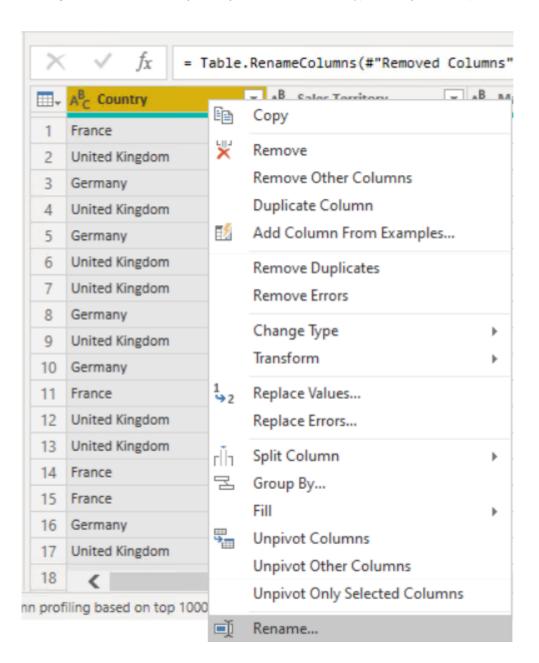
Task 3: Apply Formatting to the Existing Data

- 1. In the Queries [2] pane, click Europe to show the data preview if this is not already displayed.
- 2. Right-click the **ProductKey** column, and click **Remove**.

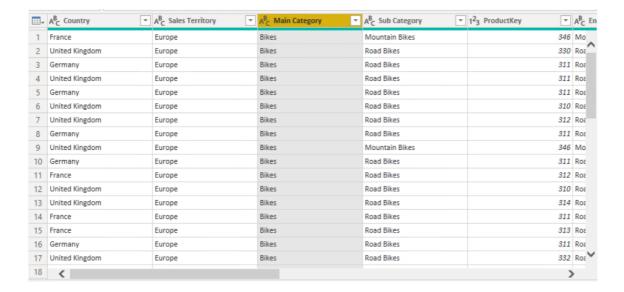


3. Right-click the SalesOrderNumber column, and click Remove.

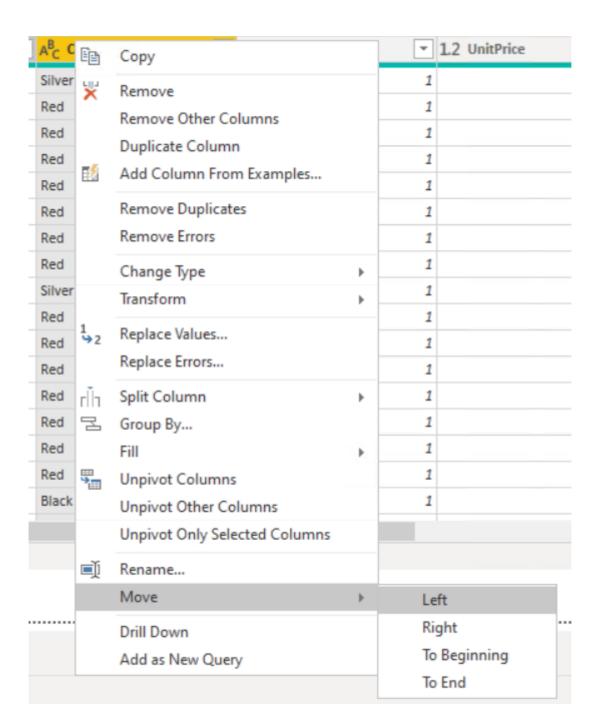
4. Right-click the SalesTerritoryCountry column, click Rename, type Country, and then press Enter.



- 5. Right-click the **SalesTerritoryGroup** column, click **Rename**, type **Sales Territory**, and then press Enter.
- 6. Right-click the **EnglishProductCategoryName** column, click **Rename**, type **Main Category**, and then press Enter.
- 7. Right-click the **EnglishProductSubcategoryName** column, click **Rename**, type **Sub Category**, and then press Enter.
- 8. Right-click the **EnglishProductName** column, click **Rename**, type **Product**, and then press Enter.

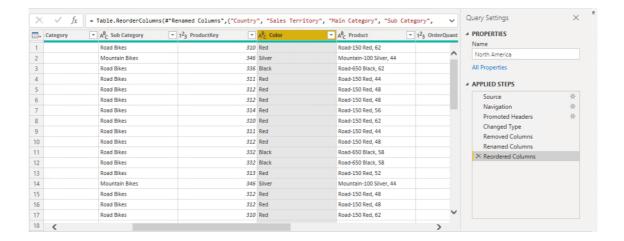


9. Right-click the **Color** column, point to **Move**, and then click **Left**.



- 10. In the Queries [2] pane, click North America.
- 11. Right-click the **ProductKey** column, and click **Remove**.
- 12. Right-click the SalesOrderNumber and click Remove.
- 13. Right-click the **SalesTerritoryCountry** column, click **Rename**, type **Country**, and then press Enter.
- 14. Right-click the SalesTerritoryGroup column, click Rename, type Sales Territory, and then press Enter.
- 15. Right-click the **EnglishProductCategoryName** column, click **Rename**, type **Main Category**, and then press Enter.

- 16. Right-click the **EnglishProductSubcategoryName** column, click **Rename**, type **Sub Category**, and then press Enter.
- 17. Right-click the **EnglishProductName** column, click **Rename**, type **Product**, and then press Enter.
- 18. Right-click the Color column, point to Move, and then click Left.
- 19. On the Home tab, in the Query group, click Advanced Editor. Notice that the query includes the changes you have made, and then click Cancel.

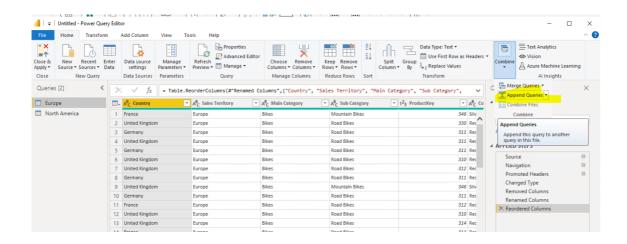


20. Leave the Power Query Editor window open for the next exercise.

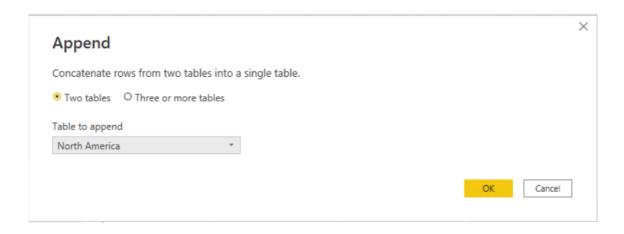
Exercise 2: Combine Power BI Data

Task 1: Add Related Data to the Shaped Data

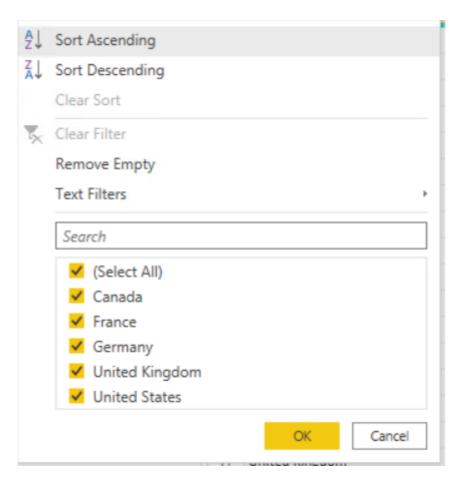
- 1. In the Queries [2] pane, click Europe.
- 2. On the Home tab, in the Combine group, click Append Queries.



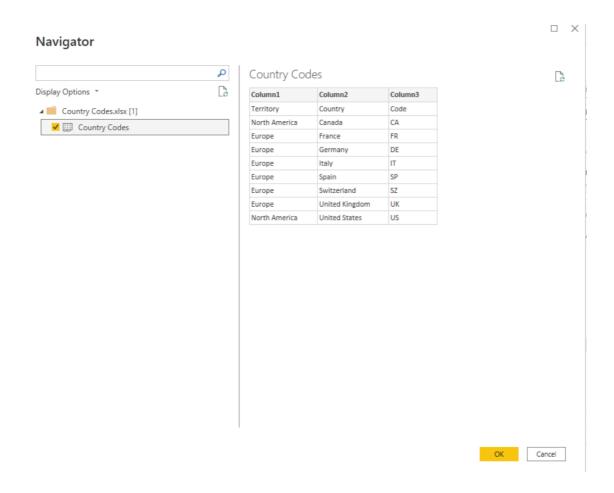
3. In the **Append** dialog box, in the **Table to append** list, click **North America**, and then click **OK**. The rows are combined.



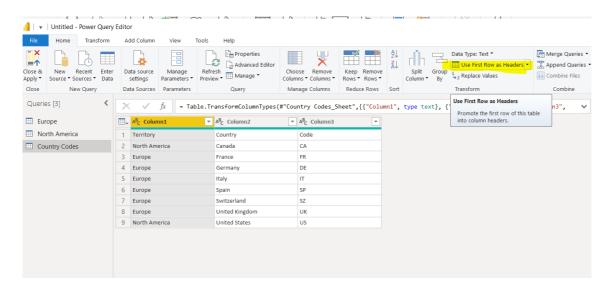
4. On the **Country** column header, click the **Arrow**, and then click **Load more**. You should now see that **United States** and **Canada** are included, and then click **Cancel**.



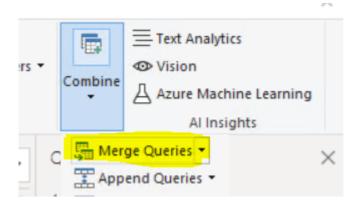
- 5. On the **Home** tab, click the **New Source** arrow, and then click **Excel WorkBook**.
- 6. In the **Open** dialog box, browse to the **Desktop\power-bi-quickstart\Labfiles\Lab04\Starter\Project** folder, click **Country Codes.xlsx**, and then click **Open**.
- 7. In the Navigator dialog box, select the Country Codes check box, and then click OK.



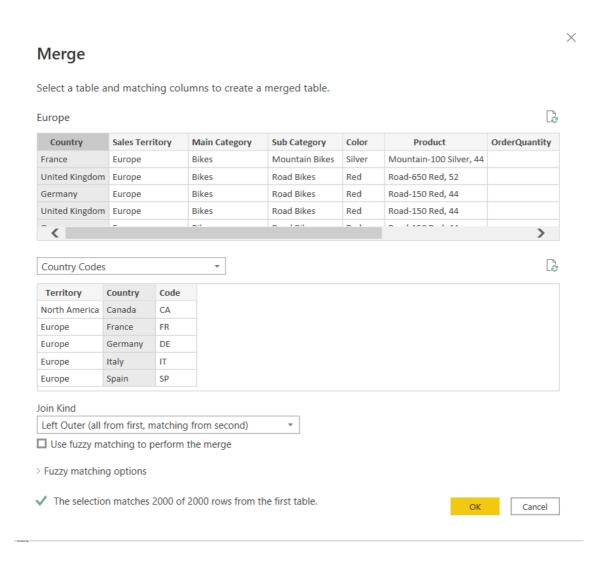
8. Click **Use First Row as Headers** as shown below:



- 9. In Power Query Editor, in the Queries [3] pane, click Europe.
- 10. On the Home tab, in the Combine group, click Merge Queries.

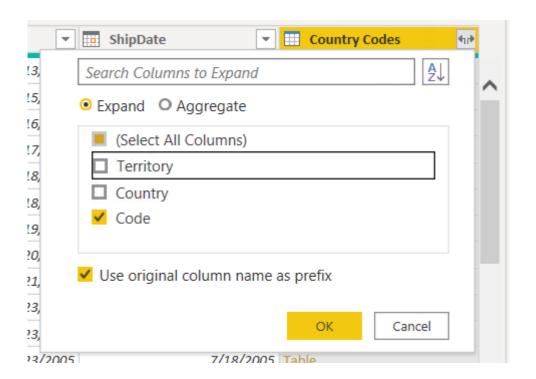


- 11. In the Merge dialog box, click the Country column to select it.
- 12. In the list below the table, click Country Codes, click the Country column, and then click OK.

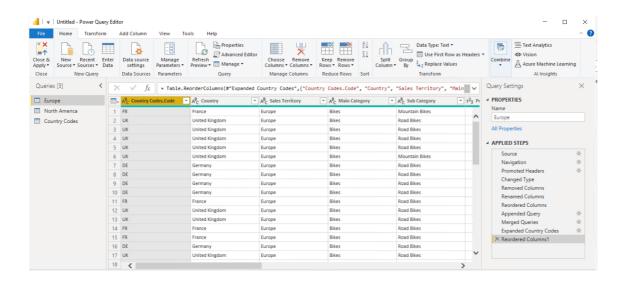


13. The **Country Codes** is added to the **Europe** query.

14. In the Country Codes header, click the double-arrow icon, clear the Territory, Country, and Use original column name as prefix check boxes, and then click OK.



- 15. Right-click the Code column, point to Move, and click To Beginning.
- 16. Right-click the **Code** column, click **Rename**, type **Country Code**, and then press Enter.



- 17. On the Home tab, click the Close & Apply arrow, and then click Apply.
- 18. Close Power Query Editor, and then close Power BI Desktop without saving any changes.