Module 4: Shaping and Combining Data

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Note: Lab Solution is present in D:\Labfiles\Lab04\Solution folder:

Lab: Shaping and Combining Data

Exercise 1: Shape Power BI Data

Task 1: Preparing the Environment

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

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 X.
- 4. In the Power BI Desktop window, click Get data.
- 5. In the Get Data window, click Excel Workbook, and then click Connect.
- In the Open dialog box, browse to the D:\Labfiles\Lab04\Starter\Project folder, click Sales Europe.xlsx, and then click Open.
- 7. In the Navigator window, select the Europe check box, and then click Load.
- 8. On the **Home** tab, click the **Get Data** arrow, and then click **Excel Workbook**.
- In the Open dialog box, browse to the D:\Labfiles\Lab04\Starter\Project folder, click Sales North America.xlsx, and then click Open.
- 10. 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

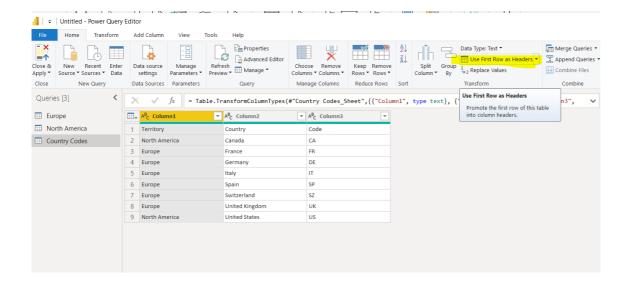
- 1. In the Queries [2] pane, click Europe to show the data preview if this is not already displayed.
- 2. Right-click the **ProductKey** column, and click **Remove**.
- 3. Right-click the SalesOrderNumber column, and click Remove.
- 4. Right-click the SalesTerritoryCountry column, click Rename, type Country, and then press Enter.
- 5. Right-click the SalesTerritoryGroup column, click Rename, type Sales Territory, and then press Enter.

- 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

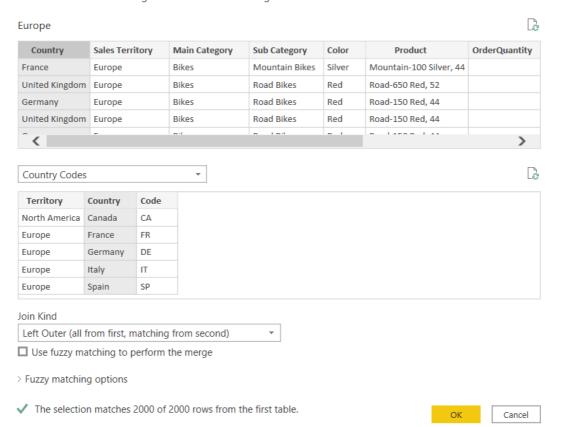
- 1. In the Queries [2] pane, click Europe.
- 2. On the Home tab, in the Combine group, click Append Queries.
- In the Append dialog box, in the Table to append list, click North America, and then click OK. The rows are combined.
- 4. On the **Country** column header, click the **Arrow**, and then click **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**.
- In the Open dialog box, browse to the D:\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. On the Transform tab, click Use First Row as Headers.



- 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.

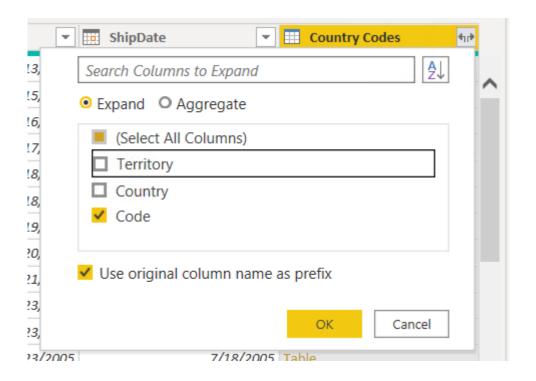
Merge

Select a table and matching columns to create a merged table.



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- 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.