

# Use Case 1

## CONNECT TO DATA

You can get the UEFA winners data from the Results table on the UEFA European Football Championship Wikipedia page at [https://en.wikipedia.org/wiki/UEFA\\_European\\_Football\\_Championship](https://en.wikipedia.org/wiki/UEFA_European_Football_Championship).

## IMPORT DATA

- In the Power BI Desktop **Home** ribbon tab, drop down the arrow next to **Get Data**, and then select **Web**.
- In the **From Web** dialog, paste the URL [https://en.wikipedia.org/wiki/UEFA\\_European\\_Football\\_Championship](https://en.wikipedia.org/wiki/UEFA_European_Football_Championship) into the **URL** text box, and then select **OK**.

After connecting to the Wikipedia web page, the **Navigator** dialog shows a list of available tables on the page. You can select any of the table names to preview its data. The **Results[edit]** table has the data you want, although it's not exactly in the shape you want. You'll reshape and clean up the data before loading it into your report.

- Select the **Results[edit]** table in the **Navigator** list, and then select **Transform Data**. A preview of the table opens in **Power Query Editor**, where you can apply transformations to clean up the data.

## SHAPE DATA IN POWER QUERY EDITOR

First, remove all the columns except for two from the table. Rename these columns as *Year* and *Country* later in the process.

- In the **Power Query Editor** grid, select the columns. Select **Ctrl** to select multiple items.
- Right-click and select **Remove Other Columns**, or select **Remove Columns > Remove Other Columns** from the **Manage Columns** group in the **Home** ribbon tab, to remove all other columns from the table.

Next, remove the extra word *Details* from the first column cells.

- Select the first column.
- Right-click, and select **Replace Values**, or select **Replace Values** from the **Transform** group in the **Home** tab of the ribbon. This option is also found in the **Any Column** group in the **Transform** tab.
- In the **Replace Values** dialog, type **Details** in the **Value To Find** text box, leave the **Replace With** text box empty, and then select **OK** to delete the word *Details* from this column.

Some cells contain only the word "Year" rather than year values. You can filter the column to only display rows that don't contain the word "Year".

- Select the filter drop-down arrow on the column.
- In the drop-down menu, scroll down and clear the checkbox next to the **Year** option, and then select **OK**.

Since you're only looking at the final winners data now, you can rename the second column to **Country**. To rename the column:

- Double-click or tap and hold in the second column header, or
  - Right-click the column header, and select **Rename**, or
  - Select the \*column and select **Rename** from the **Any Column** group in the **Transform** tab of the ribbon.
- Type **Country** in the header and press **Enter** to rename the column.

You also want to filter out rows like "2020" that have null values in the **Country** column. You could use the filter menu as you did with the **Year** values, or you can:

- Right-click on the **Country** cell in the **2020** row, which has the value *null*.
- Select **Text Filters** > **Does not Equal** in the context menu to remove any rows that contain that cell's value.

## IMPORT QUERY INTO DATA VIEW

- In the **Query Settings** pane, in the **Name** text box, enter **Euro Cup Winners**.
- **Apply** > **Close & Apply** from the **Home** tab of the ribbon.

### Tips:

You can always get back to the Power Query Editor to edit and refine your query by:

- Selecting the **More options** ellipsis (...) next to **Euro Cup Winners** in the **Fields** pane, and selecting **Edit Query**, or
- Selecting **Edit Queries** > **Edit Queries** in the **External data** group of the **Home** ribbon tab in Report view.

## CREATE VISUALIZATION

- Select the **Country** field in the **Fields** pane, or drag it to the report canvas. Power BI Desktop recognizes the data as country names, and automatically creates a **Map** visualization.
- Enlarge the map by dragging the handles in the corners so all the winning country names are visible.
- The map shows identical data points for every country that won a Euro Cup tournament. To make the size of each data point reflect how often the country has won, drag the **Year** field to **Drag data fields here** under **Size** in the lower part of the **Visualizations** pane. The field automatically changes to a **Count of Year** measure, and the map visualization now shows larger data points for countries that have won more tournaments.

## FORMAT THE MAP

- With the visualization selected, select the **Format** icon, and then select **Data colors** to expand the data color options.
- Turn **Show all** to **On**, and then select the drop-down menu next to **West Germany** and choose a yellow color.
- Select **Title** to expand the title options, and in the **Title text** field, type **Euro Cup Winners** in place of the current title.
- Change **Font color** to red, **Text size** to **12**, and **Font family** to **Segoe (Bold)**.

## CHANGE THE VISUALIZATION TYPE

You can change the type of a visualization by selecting it and then selecting a different icon at the top of the **Visualizations** pane. For example, your map visualization is missing the data for the Soviet Union and Czechoslovakia, because those countries no longer exist on the world map. Another type of visualization like a treemap or pie chart may be more accurate, because it shows all the values.

To change the map to a pie chart, select the map and then select the **Pie chart** icon in the **Visualizations** pane.

### Tips:

- You can use the **Data colors** formatting options to make "Germany" and "West Germany" the same color.
- To group the countries with the most wins together on the pie chart, select the ellipsis (...) at the upper right of the visualization, and then select **Sort by Count of Year**.