

## **Practice Level 2: Joining Data from Three Tables**

In this practice, you use the Query Builder to create a table whose data results from a join of three tables.

- 1. If you haven't already, complete the Level 1: Joining Data from Two Tables practice.
- 2. Add the **country\_lookup** SAS table to the Practices process flow in the **Lesson4** project.
  - Select File > Open and navigate to the course data location.
  - Select country\_lookup > Open. The data appears on a new tab in the work area.
    Note: Be care to select the country\_lookup SAS table and NOT the Excel workbook.
- 3. Modify the **Payroll Location Join Query** task. Manually join **country\_lookup** and **employee\_addresses** by the common column.

**Note**: The common column might be named differently in the two tables.

- Right-click Payroll Location Join Query in the process flow and select Modify.
- In the Query Builder, click Add Tables.
  - Select the country\_lookup table and select Open.
  - A message appears and indicates that Enterprise Guide cannot automatically join the tables by common columns. Click OK.
  - In the Tables and Joins window, select Country in the employee\_addresses table.
  - Select Country a second time and drag the cursor to connect with Country\_Key in the country\_lookup table.
  - The Join Properties window appears automatically. Verify that the join condition is t2.Country = t3.Country\_Key.
    - **Note**: The table alias name **employee\_addresses** table (**t2**) might differ depending on the order in which the table was initially added to the query.
  - Click OK > Close.
- 4. Remove the **Country** column on the Select Data tab and replace it with the column representing the full country name found in the **country\_lookup** table.
  - Select Country on the Select Data tab and click the Delete icon.
  - Double-click Country Name from the country lookup table to add it to the query.
  - Select Country\_Name on the Select Data tab and click the up arrow (Move Up) icon to move it after the State column.
- 5. Run the query. In what city and country does John Hornsey live?

Click **Run** to execute the query. A new tab appears in the work area displaying the results. John Hornsey lives in *Sydney, Australia*.

6. Close all tabs except for the process flow, and save the **Lesson4** project.

**Hide Solution**