

Practice Level 2: Using the Summary Statistics Task

In this practice, you use the Summary Statistics task to create a report that summarizes salaries by **Department** and **Country**. In addition, you limit the tables that appear in the generated results.

1. If necessary, in the **Lesson5** project, create a new process flow named **Practices** and add the **employee_master** table.
 - If necessary, select **File > New > Process flow**.
 - Right-click the process flow in the Project pane and select **Rename**.
 - Enter **Practices** as the new name.
 - Select **File > Open** and navigate to the course data location.
 - Select **employee_master > Open**. The data appears on a new tab in the work area.
2. Use the Summary Statistics task to summarize **Salary** by **Department**, and then by **Country**.
 - Include the mean, minimum, maximum, and median salary for each group and round values to two decimal places.
Hint: To find the median statistic, click the **Percentile** tab in the Edit Statistics window.
 - Enter **Summary Statistics for Salary by Department and Country** as the title and delete the footnote.
 - Rename the task **Salary by Dept, Country Summary**.
 - Highlight the **employee_master** table in the Project pane or process flow.
 - In the Tasks pane, expand **Describe**, and double-click **Summary Statistics**.
 - Drag **Salary** to the **Analysis variables** role.
 - Drag **Department** to the **Classification variables** role. Then drag **Country**.
 - Include the mean, minimum, maximum, and median salary for each group and round values to two decimal places.
 - Select **Statistics - Basic** in the selection pane.
 - Clear the **Standard deviation** and **Number of observations** check boxes.
 - Select **2** for the maximum decimal positions.
 - Select **Statistics - Percentiles** in the selection pane.
 - Select the **Median** check box.
 - Use **Summary Statistics for Salary by Department and Country** as the analysis title and delete the footnote.
 - Select **Titles** in the selection pane.
 - Select **Analysis** in the Section pane and clear the **Use default text** check box.
 - Delete the current text and enter **Summary Statistics for Salary by Department and Country**.
 - Select **Footnote** in the Section pane and clear the **Use default text** check box.
 - Delete the default footnote text.
 - Rename the task **Salary by Dept, Country Summary**.
 - Select **Properties** in the selection pane.
 - Click **Edit**.
 - Delete the text in the Label field and enter **Salary by Dept, Country Summary**.
 - Click **OK**.
3. Run the task. What is the median **Salary** value for the **Administration** department in France (*FR*)?

Click **Run** to run the task. A new tab appears in the work area displaying the results. The median **Salary** for the **Administration** department in France is 35545.50.

4. Modify the task to generate multiple reports for all combinations of the two classification variables. Use the **Results** panel and select **All ways** for the **Combinations of classification variables** option.

- Click the **Modify task** icon from the task toolbar to reopen the Summary Statistics task.
- Select **Results** in the selection pane.
- Select **All ways** for the **Combinations of classification variables** option.

5. Run the task. **Note:** Four tables are included in the report, one for each combination of the classification variables.

What is the median salary for all departments in all countries?

Click **Run** to run the task. The results are updated on the Results tab. The median salary for all departments in all countries is 36336.38.

6. Modify the task again to include only the second and third tables from the previous results.

- Click the **Modify task** icon from the task toolbar to reopen the Summary Statistics task.
- Select **Results** in the selection pane.
- Select **Specify ways** for the **Combinations of classification variables** option.
- Enter **1** in the **Specify ways** box.

7. Run the task. What is the mean salary for all departments in Australia (AU)?

Click **Run** to run the task. The results are updated on the Results tab. The mean salary for all departments in Australia (AU) is 40204.93.

8. What is the median salary for the **Administration** department in all countries?

The median salary for the **Administration** department in all countries is 36396.00.

9. Close all tabs except for the process flow, and save the **Lesson5** project.

Hide Solution