

Practice Challenge: Using a Complex Filter in a List Report

The ability to filter data in tasks using the point-and-click Edit Data and Filter window is limited to the operators provided in the drop-down lists. To create filters that include SAS functions, you can modify the code to add a custom WHERE statement in the program generated by the task.

1. In the **Lesson3** project, use the List Data task and show the **Employee_ID** and **Birth_Date** columns from the **employee_master** table. Format **Birth_Date** and use the MMDDYY10. format.

Note: If you closed the **employee_master** tab, you can select the table in the process flow and use the Tasks pane to launch the task.

- From the data grid toolbar, select **Tasks > List Data**.
 - In the Data panel, hold down the Ctrl key and select **Employee_ID** and **Birth_Date**. Drag them to the **List variables** role.
 - Right-click the **Birth_Date** column and select **Properties**.
 - In the **Birth_Date** Properties window, click **Change**.
 - In the Format window, select **MMDDYYw.d** and change the overall width to **10**.
 - Click **OK > OK** to return to the task window.
2. Modify the task code to insert a WHERE statement in the PROC PRINT step of the program. The WHERE statement should select only those employees with an October birthday. Add the code to the **BeforeRUNStatement** insertion point.

Hint: Use the MONTH function. Documentation about this function can be found by accessing online Help and searching for **MONTH Function**.

- Click the **Preview code** button to open the Code Preview for Task window.
- Select the **Show custom code insertion points** check box.
- Scroll down in the code and locate the **BeforeRUNStatement** insertion point. This location is below the FORMAT statement and above the RUN statement for PROC PRINT.
- Click in the **BeforeRUNStatement** insertion point immediately below the FORMAT statement and above the RUN statement for PROC PRINT.
- Enter the provided code:

```
where month(Birth_Date) = 10;
```
- Close the Code Preview for Task window.

3. Do not print the row numbers.

- Select **Options** in the selection pane.
- Clear the **Print the row number** check box.

4. Add the title to **Employees with October Birthdays**.

- Select **Titles** in the selection pane.
- Clear the **Use default text** check box and delete the default text.
- Enter **Employees with October Birthdays**.

5. Modify the task properties to change the task label to **Oct Birthday List**.

- Select **Properties** in the selection pane.
- Click **Edit**.
- Delete the text in the Label field and enter **Oct Birthday List**.
- Click **OK**.

6. Generate the report. What is the birth date for **Employee ID 120265**?

Click **Run** to generate the reports. The birth date for **Employee ID 120265** is *10/04/1959*.

7. Close all tabs except for the process flow, and save the **Lesson3** project.

Hide Solution