Lab 9. Intrinsic Functions

> **Note:** All action items followed by a * sign, include exercise hints, which are located at the end of this exercise.

Overview

This lab contains data that includes a last name, where last name is all upper-case. It demonstrates the use of intrinsic functions together with reference modification to lower-case the last name characters, except the first character of the last name. This lab requires two COBOL programs, CBL0011 and CBL0012 and two respective JCL Jobs, CBL0011J and CBL0012J, to compile and execute the COBOL programs. All of which are provided to you in your VSCode - Zowe Explorer.

Objectives

- Practice the manipulation of data expression in output
- View and understand the usage of intrinsic functions paired with reference modifications
- Correct the syntax for the date/time intrinsic function
- Verify the change is valid

Lab instructions

Using VSCode and Zowe Explorer:

1. Submit job, CBL0011J.

2. Observe the report output, last name, with first character upper-case and the remaining characters lower-case.

   Figure 1. , below, illustrates the difference in output from lab 8 compared to this lab. Notice that in the previous lab, the last names were listed in all capitalized characters, whereas, as previously stated, this lab output has only the first character of the last name capitalized.
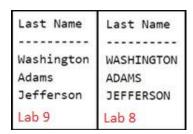
Last Name	Last Name
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Washington	WASHINGTON
Adams	ADAMS
Jefferson	JEFFERSON
Lab 9	Lab 8

   Figure 1. *Lab 9 vs. lab 8 output*

3. Observe the PROCEDURE DIVISION intrinsic function, lower-case, within the WRITE-RECORD paragraph. This intrinsic function is paired with a reference modification resulting in output of last name with upper-case first character and the remainder in lower-case.

4. Submit CBL0012J

5. Observe the compile error.

2

Previous lab programs made use of a date/time intrinsic function. The date/time intrinsic function in this lab has a syntax error that needs to be identified and corrected.

6. Modify id.CBL(CBL0012) correcting compile error.*

7. Re-submit CBL0012J

8. Corrected CBL0012 source code should compile and execute the program successfully. A successful compile will result in the same output as CBL0011J.

Lab Hints

6. Refer to CBL0011 line 120 for the proper formatting of the function-name causing the compile error.