
Lab 3. Successful vs. Unsuccessful Job Execution

Note: It may take a few seconds to load in all segments of this lab. If files are not loading, hit the refresh button on the list that appears when hovering over the section bar.

Overview

In this lab exercise you will run a simple payroll application that will result in a successful compile and execution. You will then run a second payroll application that will produce an error. You are tasked with identifying the issue, fixing it, and resubmitting the program for a successful compile and execution.

Objectives

- Submit and view output from successful run of PAYROL00 program
- Submit and view output from unsuccessful run of PAYROL0X program
- Identify the root of the error
- Fix the error
- Resubmit and view output from PAYROL0X job for a successful run

Lab instructions

1. View the PAYROL00 COBOL source code member in the 'id'.CBL data set.
2. Submit the JCL member, PAYROL00, from the id.JCL, where id is your provided username. This is where id.JCL(PAYROL00) compiles and successfully executes the PAYROL00 program.

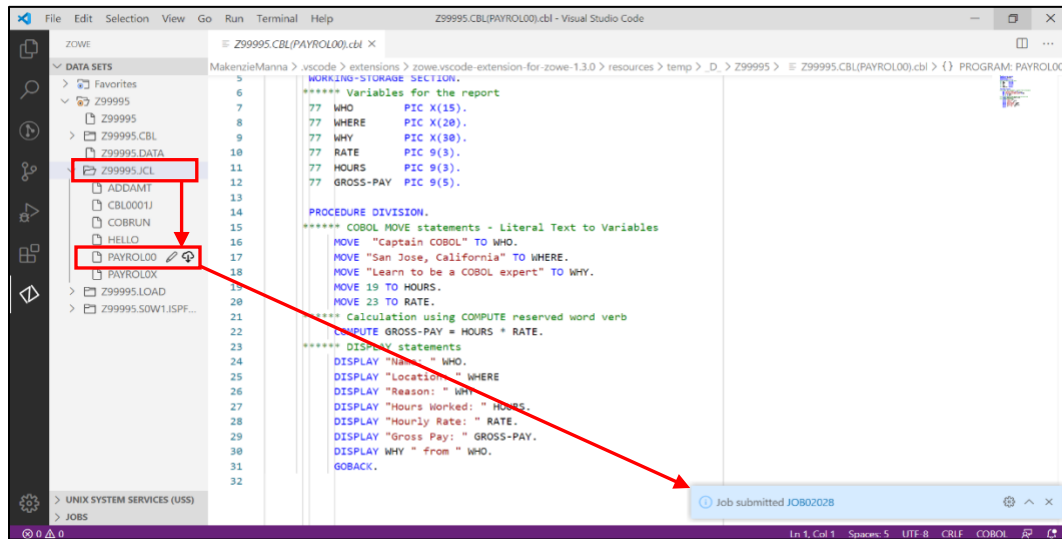
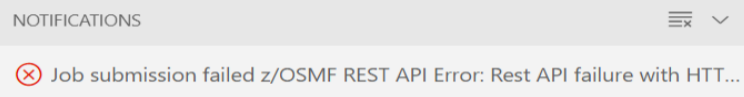


Figure 1. Submit PAYROL00 job

Note: If you receive this error message after submitting the job:



That is because you submitted the job from the .CBL data set and not the .JCL data set.

3. View both compile and execution of PAYROL00 job output, referenced in Figure 2.

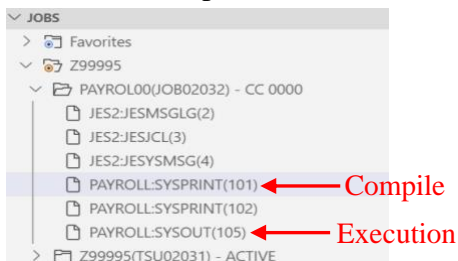


Figure 2. PAYROL00 output

4. Next, view PAYROL0X COBOL source code member in id.CBL data set.

5. View and submit the JCL member, PAYROL0X, from the id.JCL dropdown. This is where id.JCL(PAYROL0X) compiles and executes the PAYROL0X program.
6. View the compile of PAYROLL0X job output, notice there is no execution output.

Do you notice a difference between this compile and the previous job compile shown in Figure 3. 3?

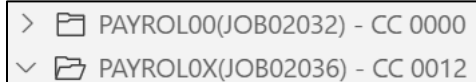


Figure 3. Compare job compiles

The difference is the return/condition code associated with each job output, located both next to the job output name within the JOBS section as shown above, or at the end of the compile output as, 0Return code ##. A return code of 12 means there was an error, but how do we know what that error was? Continue to find out!

7. Observe the text associated with IGYPA3146-S on line 137 within the job output (compile), illustrated in Figure 4.

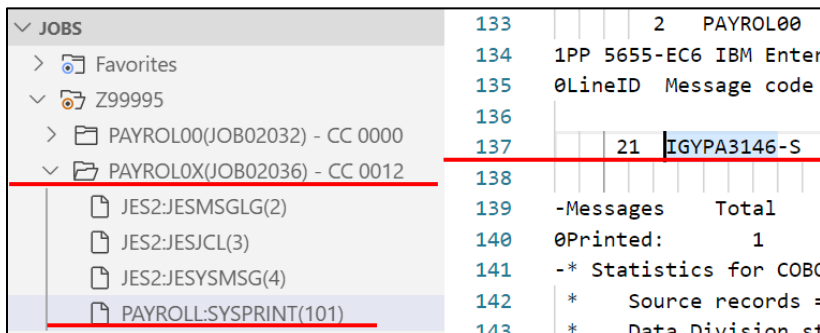


Figure 4. IGYPA3146-S message

Notice that this line tells you to focus on the GROSS-PAY picture clause in order to identify the problem. Use this information, modify the PAYROL0X COBOL source code to fix the error. Be sure you are editing the correct code.

8. After modifying, re-submit the PAYROL0X JCL to verify the problem has been identified and corrected, resulting in a successful compile and execution with a return code of zero, shown in Figure 5.

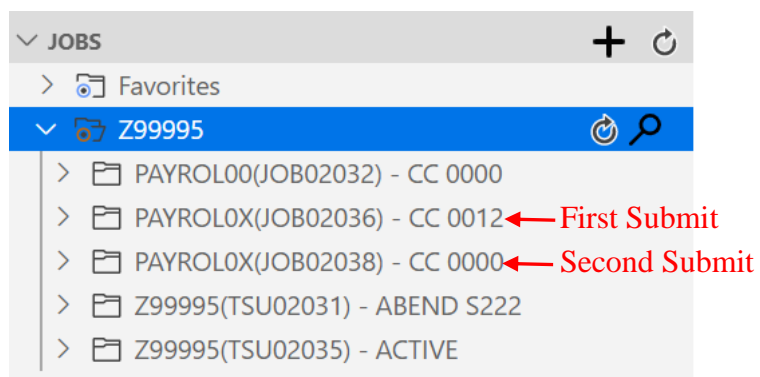


Figure 5. Compare return codes

