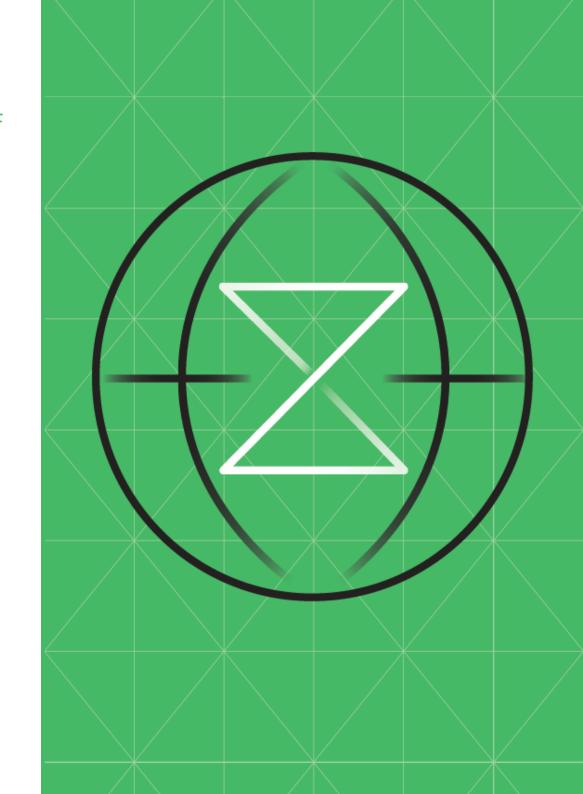
TS05

Explore and edit JCL, check it in SDSF

- UNDERSTAND, SUBMIT, FIX, PROGRESS
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- 3 WHAT'S THE DIFFERENCE?
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UNDERSTAND, SUBMIT, FIX, PROGRESS

Let's continue with what you can with 3270 terminal interfaces.

The Challenge

The key points for this challenge:

- Understand how to use JCL using TSO/IPSF.
- Submit jobs with errors and use SDSF to determine the errors.
- Edit/fix JCL to successfully submit a job.

Before You Begin

Make sure you have completed TSO 4 (and the previous TSO challenges) before beginning TSO5.

Investment

Steps	Duration
9	90 minutes



1 UPDATE YOUR DATASETS



Log on to TSO and ISPF. On the Option line, enter tso submit 'ZXP.PUBLIC.JCL(chalcopy)'.

This will ensure that you have the correct datasets and members under your userid.

Check to make sure you now have the WSLJCL member in your JCL dataset.

Hint: You will have to go in and out of a few panels to get there.

2 GET FAMILIAR



Now that you have the files you need, get yourself familiar with the data you will be working with.

The topic for the challenge: The USA Women's Soccer League

Get to the member list of ZXP.PUBLIC.DATA, and type B to browse next to each member.

Take a look at the six different files - you will be using the information inside of them.

3 WHAT'S THE DIFFERENCE?



Time to produce some output with these files. You will be doing this using JCL and running a job.

Before you run the job, take a look at what the output will look like first using **WSL\$** in **ZXP.PUBLIC.EXEC**

The WSL\$ and WSL REXX execs are essentially the same. The difference being that WSL\$ has already allocated the physical dataset name to the logic file name.

Your task: take the WSL REXX and run a job using JCL to produce the same output as WSL\$.

4 SEE THE OUTPUT GOAL

Run WSL\$ to understand what your job submission SHOULD look like.

Type **ex** next to WSL\$ execute the program and view output.

You will be using JCL to run your WSL exec.

The trick? The JCL is not be perfect yet, and you will need to determine why.

Submit the WSCJCL job, which uses WSL REXX logic, to see what errors are wrong.

5 SUBMIT THE JCL

```
<u>File Edit Edit_Settings Menu Utilities Compilers</u>
          Z99994.JCL(WSLJCL) - 01.00
Command ===> sub
      -Warning- The UNDO command is not available until
                your edit profile using the command RECO
000001 //WSLJCL
000002 //COMBINE
                 EXEC PGM=IRXJCL,PARM='WSL'
000003 //SYSEXEC
                 DD DSN=ZXP.PUBLIC.EXEC,DISP=SHR
                 DD SYSOUT=*
000004 //SYSTSPRT
000005 //SYSTSIN
                 DD DUMMY
000006 //IDIREPRT
                 DD DUMMY
000007 //TAAM
                 DD DSN=ZXP.PUBLIC.DATA(team),DISP=SHR
000008 //CITY
                 DD DSN=ZXP.PUBLIC.DATA(CITY),DISP=SHR
000009 //STATE
                 DD DSN=ZXP.PUBLIC.DATA(STATE),DISP=SH
000010 //STADIUM
                 DD DSN=ZXP.PUBLIC.DATA(STADIUM),DISP=
```

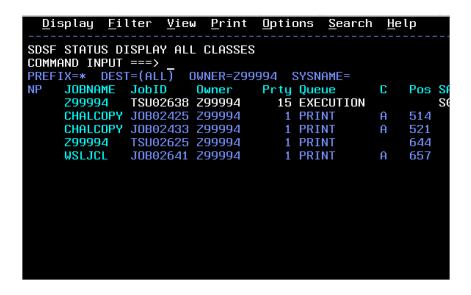
Find the JCL that you need to submit.

Go to your JCL dataset, find **WSLJCL** and type **s** for Select.

Run the JCL by typing submit in the command line.

At bottom of the screen, you will see 'JOB WSLJCL SUBMITTED' with a job name associated.

6 VIEW YOUR JOB SUBMISSION



Check the submission. You have done this before in VSCode and in TSO4 you do it with SDSF.

Type = sd;st on the command line. This is a short cut to getting to SDSF and then checking the status of jobs.

Optionally, you can F3 back to the main menu and go to SDSF that way.

CAN I EDIT MY JCL WITHOUT ANY PENALTY OF MESSING IT UP?

If you are looking at a job submission in SDSF and want to quickly edit the job right there, you can do so by typing **SJ** next to the job in the DA, ST, and O views.

This allows you to edit the job in SDSF without any permanent changes in your JCL file.

That being said, this is only temporary so any changes you make in SDSF will not stick.

You will still have to go back into your JCL member and save the edits there.

Note that you can also make changes to the source JCL in the ISPF editor, submit the JCL and then **Cancel** to leave the source unchanged. You *cannot* do this with the Zowe extension in VSCode.

7 SO WHAT WENT WRONG?

```
Display Filter View Print Options Search Help

SDSF STATUS DISPLAY ALL CLASSES L
COMMAND INPUT ===>
PREFIX=* DEST=(ALL) OWNER=Z99994 SYSNAME=
NP JOBNAME JobID Owner Prty Queue C Pos
Z99994 TSU04467 Z99994 15 EXECUTION
?_ WSLJCL JOB04470 Z99994 1 PRINT A 628
```

Check the job name WSLJCL and see if it was successful.

View the different joblog files using ? as a command ("action character") next to the job.

You can view the entire joblog as one big file by typing \mathbf{s} as the action character.

Use F11 to shift to the right and view if the job you submitted for WSLJCL was successful or not.

What did you find?

Hint: in the list views (DA, ST, 0) keep scrolling to the right (F11) until you find a column that says, 'Max-RC'. You may scroll for a bit. Enter right 40 on the command line to scroll faster.

8 FIND, FIX, REPEAT



Scroll through the various files of the joblog to understand the error in the JCL and what went wrong.

Once you have identified the error, go back to the JCL file in your JCL dataset, type \mathbf{e} for edit the member, and make the necessary edits to fix the JCL.

Submit the job again and repeat the cycle until you have successfully completed the job.

Hint: there may be more than one error (what do you think?), so keep repeating until the job is successful.

9 ALL FIXED - SUBMIT

```
<u>Display Filter View Print Uptions Search Help</u>
SDSF OUTPUT DISPLAY WSLJCL
                         J0B04486 DSID
COMMAND INPUT ===>
USA Women Soccer League
Team
         Angel City FC
City
         Los Angeles
State
         California
Stadium
         Banc of California Stadium
Capacity
         22000
         Freua Coombe
Coach
********
         Chicago Red Stars
City
         Bridgeview
         Illinois
State
Stadium
         SeatGeek Stadium
         20000
Capacity
cach
         N/A
```

You will know when the job is successful when you see a **SYSTSPRT** member in the joblog, and the output is the same as running the WSL\$ exec on its own.

Once again, you might have more than one error to fix, so it might take a few cycles to get the job to "run clean".

Once the job is successful, get credit for this challenge: submit 'ZXP.PUBLIC.JCL(CHKTSO5)' using whichever method suits you.

Nice job - let's recap	Next up
You have successfully navigated ISPF while editing a job and checking its submissions until it was correct. You have done this before in previous JCL challenges but this time you did it on TSO instead of VS Code.	
This is something you will be doing a lot in TSO, and it is important to know what to look for in submission errors and how to quickly get back to your JCL to fix the errors.	Go check out the other Extended and Advanced modules for your continued learning journey on IBM Z Xplore.
Overall, you have continued to practice your TSO/ISPF navigation skills and will continue to become more familiar with its functionality.	