Icon

Description automatically generated with low confidence**Using Generic.py to generate customized SQL queries for**

**your environment**

*Version V1.0*

*June 2021*

**Requirements**

1. This exercise is intended for both Mac and Windows environments
2. Generic.py is written using Python 2.7.16 – available at <https://www.python.org/downloads/>
3. The directory containing all relevant files for the demonstration can be accessed at <https://ibm.box.com/s/559qsuhqnznuvvphcq31vvrc9vm2znaf>

**Summary**

#This python script:

#(1) opens the generic txt files containing SQL,

#(2) replaces all stand-in variables (++LPAR) with an actual LPAR name,

#(2) does the same for ++QMGR variables,

#(3) does the same for ++Day variables and

#(4) creates a new directory named after the LPAR

#(5) within the new directory, creates new appropriately-titled txt files with the replacements embedded in the original SQL

The value of this script is that:

1. it cuts down on the time required to generate customized SQL for each queue manager in a customer’s environment
2. it reduces the opportunity for human error by cutting down on the manual entry and modification required

**On a Mac machine**

Once you have downloaded the generic directory from the box folder, navigate to the Generic directory in your command line.

I placed the directory on my Desktop, so, for me, the navigation looked like:

dorothyquincy@Dorothys-MacBook-Pro-2 ~ % cd Desktop/Generic

I then verified my python version to make sure the python script would run as planned. My machine verified that I was running Python 2.7.16 :

dorothyquincy@Dorothys-MacBook-Pro-2 ~ % python --version

Python 2.7.16

I then executed the python script:

dorothyquincy@Dorothys-MacBook-Pro-2 Generic % python generic.py

The script prompted me to input information in the command line. I told the system that my environment’s LPAR was named ‘abc’, my queue manager was named ‘xyz’, and the time interval I was concerned with was ‘0608’

Please enter LPAR: abc

Please enter Queue Manager: xyz

Please enter day: 0608

Now, when I enter all of my custom information, a new directory appears in my ‘Generic’ directory, and it is named after the LPAR I input.

Graphical user interface, application

Description automatically generated

When I look inside the ‘abc’ directory, I see modified generic SQL queries that are named according to my specifications and contain replacements for all of the previously generic variable names.

Graphical user interface, application, Word

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**On a Windows machine**

Once you have downloaded the generic directory from the box folder, navigate to the Generic directory in File Explorer

I placed the directory on my C drive, so, for me, the navigation looked like:



I then verified my python version to make sure the python script would run as planned by searching for Python on my machine. My machine verified that I was running Python 2.7.16 :

A screenshot of a cell phone

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I then exited the python command line prompt and returned to my ‘Generic’ directory. I double-clicked the generic.py script and was prompted to enter the relevant environment details:

A screenshot of a computer

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I told the system that my environment’s LPAR was named ‘abc’, my queue manager was named ‘xyz’, and the time interval I was concerned with was ‘0608’

Now, when I enter all of my custom information, a new directory appears in my ‘Generic’ directory, and it is named after the LPAR I input.

Graphical user interface, table

Description automatically generated

When I look inside the ‘abc’ directory, I see modified generic SQL queries that are named according to my specifications and contain replacements for all of the previously generic variable names.

Graphical user interface, application, table

Description automatically generated

**Notes:**

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| You are able to add any additional SQL scripts that you would like for the python to customize. The only requirement is that you set the script title to be in the format of ‘Generic\*\*\*.txt’ within the Generic directory |
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| In my next iteration of my python script, I would like to have it accept multiple queue managers per LPAR in order to better reflect the reality of many customer’s environments |
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| At this point, there are no check and balances for formatting, so when you input your desired names for your (1) LPAR (2) Queue Manager (3) Time interval, make sure they look as you intend in the output. I would like to hear more feedback on how I can incorporate useful text limitations into the python input |
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**References:**

https://stackoverflow.com/questions/13089234/replacing-text-in-a-file-with-python/13089373

https://stackoverflow.com/questions/3207219/how-do-i-list-all-files-of-a-directory