Xevant Python Code Practice

Purpose

The purpose of this exercise is to test your Python experience with parsing and creating files. Our data platform is responsible for ingesting over a thousand of files each month in order to power our products.

Prerequisites

- You should already have Docker installed on your computer from which you will be programming
- 2. Extract the provided zip file xevant_python_code_practice.zip
- 3. Write your code in the main function of the **file_parser.py** file.
- 4. Review the **file_config.py** file for useful values
- 5. See helper commands for docker at the bottom of the document. Note the "-v" command to map the volume for the file export.

Code Instructions

- 1) Extract the .zip file called "/files inbound/example client files.zip"
- 2) Create a new CSV file from the .xlsx file using the second sheet called PolicyData
 - a) The new file should be named "insurance_data_sample_1667864342_parsed.csv" and written to the "/files_outbound" directory.
 - b) Add three additional columns with values to the new CSV file.
 - **ROW NUMBER** row number value for each row. (1,2,3,4, etc.)
 - FILE NAME the original file name "insurance data sample 1667864342.xlsx"
 - FILE_DATE parse the timestamp from the file name to generate a date time string value in the following format "2022-11-07 00:00:00"
 - b) Encapsulate non numerical fields in double quotes
- 3) Create a new CSV file from the .csv file

- a) The new file should be named "work_orders_sample_1667864342_parsed.csv" and written to the "/files_outbound" directory.
- b) Add 3 additional columns with values to the new CSV file.
 - **ROW_NUMBER** row number value for each row. (1,2,3,4, etc.)
 - FILE_NAME the original file name "work_orders_sample_1667864342.csv"
 - **FILE_DATE** parse the timestamp from the file name to generate a date time string value in the following format "2022-11-07 00:00:00"
- c) Encapsulate non numerical fields in double quotes
- 4) Repeat step 3 for the file "employee_data_sample_1667864342csv"
 - a) Name the new file after adding columns"employee_data_sample_1667864342_parsed.csv"
- 5) Zip up your entire project directory, including the new CSV files, and email it to cody.hatch@xevant.com for review.

Docker Help Commands

Build Image

docker build -t file_parser_image .

Run Docker Container

docker run -v [YOUR PROJECT PATH]/files_outbound:/files_outbound -it --rm --name file_practice_container file_parser_image