import data

import interface

import random

def print\_row(row, selected\_columns, \*\*kwargs):

"""

Takes a row dict of header keys and data values pairs and prints it, one pair per line.

"""

# Print right-justified key, then value

for key in selected\_columns:

print(f"{key:>25}: {row[key]}")

def browse\_rows(row\_dict\_list, \*\*kwargs):

"""

Allows the user to browse rows of data.

Start from 1 if `config\_dict["start-from-one"]` is `True`.

Otherwise, get a valid row integer from user and start there.

Returns if user declines to continue or once last row is printed.

"""

# Get desired first row from user

first\_row\_int = interface.get\_valid\_row\_index(row\_dict\_list, prompt="Start row")

for i, line in enumerate(row\_dict\_list[first\_row\_int:], start=first\_row\_int):

print(f"Row {i}:")

print\_row(line, \*\*kwargs)

if interface.input\_is\_yes("Contine?", default = 'y'):

continue

else:

return

def print\_specific\_row(row\_dict\_list, \*\*kwargs):

"""

Prints a specific row of data specified by the user.

Uses `interface.get\_valid\_row\_int` to ensure user selects valid row number.

Returns when user declines to print another row.

"""

# Print rows one by one til user exits

while True:

row\_int = interface.get\_valid\_row\_index(row\_dict\_list)

print\_row(row\_dict\_list[row\_int], \*\*kwargs)

if interface.input\_is\_yes("Print another specific row?", default = 'n'):

# If the user wants to print another row, repeat the loop

continue

else:

# Otherwise, return to main menu

return

def print\_random\_row(row\_dict\_list, \*\*kwargs):

"""

Prints a random row of data.

Returns when user declines to print another row.

"""

while True:

# Pick a random list index (insted of using random.choice),

# so that we can print the row number for the user.

random\_row\_index = random.randrange(len(row\_dict\_list))

# The row number is the list index + 1

random\_row\_number = random\_row\_index + 1

# Get the random row

random\_row\_dict = row\_dict\_list[random\_row\_index]

print(f"Row {random\_row\_number}:")

print\_row(random\_row\_dict, \*\*kwargs)

if interface.input\_is\_yes("Print another random row?", default = 'y'):

# If the user wants to print another row, repeat the loop

continue

else:

# Otherwise, return to main menu

return

def print\_csv\_info\_from\_dict(csv\_dict, \*\*kwargs):

"""

Takes a `csv\_dict` and displays info about a CSV file to user.

"""

print("Current file:", csv\_dict["filename"])

print(f"Data contains {csv\_dict['number\_of\_columns']} columns and {csv\_dict['number\_of\_rows']} rows.\n")

print("\nSample Row:")

print\_row(csv\_dict["sample\_row"],csv\_dict["selected\_columns"])

print("\n")