from flask import Flask, render\_template, request

import pandas as pd

import datetime as dt

import csv

app = Flask(\_\_name\_\_)

@app.route('/', methods=['GET', 'POST'])

def index():

return render\_template('index.html')

@app.route('/data', methods=['GET', 'POST'])

def data():

if request.method == 'POST':

file = request.form['csvfile']

data = pd.read\_csv(file)

data=data[data.Country=='United Kingdom']

data=data[['CustomerID','InvoiceDate','InvoiceNo','Quantity','UnitPrice']]

data['TotalPrice'] = data['Quantity'] \* data['UnitPrice']

data['InvoiceDate'].min(),data['InvoiceDate'].max()

PRESENT = dt.datetime(2011,12,10)

data['InvoiceDate'] = pd.to\_datetime(data['InvoiceDate'])

data= data.groupby('CustomerID').agg({'InvoiceDate': lambda date: (PRESENT - date.max()).days,

'InvoiceNo': lambda num: len(num),

'TotalPrice': lambda price: price.sum()})

data.columns=['monetary','frequency','recency']

data['recency'] = data['recency'].astype(int)

data['r\_quantile'] = pd.qcut(data['recency'], 4, ['1','2','3','4'])

data['f\_quantile'] = pd.qcut(data['frequency'], 4, ['4','3','2','1'])

data['RFM\_Score'] = data.r\_quantile.astype(str)+ data.f\_quantile.astype(str)

return render\_template('data.html', data=data.to\_html())

if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=False)