Bootcamp – Python API Challenge

Observations based on Analysis of the WeatherPy

1. There is a very strong correlation between the Lattitude and temperature for northern hemisphere.

Chart, scatter chart

Description automatically generated

It is a bit weaker for the southern hemisphere but still significant.

Obviously it is a mirror image of the northern hemisphere since the latitude are negative.

Chart, scatter chart

Description automatically generated

1. The correlation between latitude and cloud cover is weak

Chart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generated

1. There is no correlation between Lattitude and Humidity. This is a bit surprising

Chart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generated

1. There is no correlation between latitude and wind speed.

Chart, scatter chart

Description automatically generated

Chart, scatter chart

Description automatically generated

Partial Log of processing

Retrieving Weather for :khatanga

Retrieving Weather for :vaitupu

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :provideniya

Retrieving Weather for :dikson

Retrieving Weather for :saldanha

Retrieving Weather for :mataura

Retrieving Weather for :baoqing

Retrieving Weather for :sidney

Retrieving Weather for :moba

Retrieving Weather for :urumqi

Retrieving Weather for :tiznit

Retrieving Weather for :johnson city

Retrieving Weather for :nikolskoye

Retrieving Weather for :noumea

Retrieving Weather for :rozivka

Retrieving Weather for :brownsville

Retrieving Weather for :nanortalik

Retrieving Weather for :mar del plata

Retrieving Weather for :atuona

Retrieving Weather for :new norfolk

Retrieving Weather for :samusu

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :vaini

Retrieving Weather for :hermanus

Retrieving Weather for :porto belo

Retrieving Weather for :georgetown

Retrieving Weather for :palabuhanratu

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Retrieving Weather for :uruzgan

Retrieving Weather for :kaitangata

Retrieving Weather for :albany

Retrieving Weather for :tasiilaq

Retrieving Weather for :lermontovka

Retrieving Weather for :yulara

Retrieving Weather for :palu

Retrieving Weather for :port shepstone

Retrieving Weather for :nome

Retrieving Weather for :tucuma

Retrieving Weather for :kolokani

Retrieving Weather for :illoqqortoormiut

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :coihaique

Retrieving Weather for :kangaatsiaq

Retrieving Weather for :taolanaro

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :belushya guba

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :rikitea

Retrieving Weather for :busselton

Retrieving Weather for :bethel

Retrieving Weather for :vila velha

Retrieving Weather for :san vicente

Retrieving Weather for :barrow

Retrieving Weather for :kumluca

Retrieving Weather for :thompson

Retrieving Weather for :hobart

Retrieving Weather for :talnakh

Retrieving Weather for :hilo

Retrieving Weather for :carnarvon

Retrieving Weather for :flin flon

Retrieving Weather for :bud

Retrieving Weather for :aberchirder

Retrieving Weather for :mithi

Retrieving Weather for :punta arenas

Retrieving Weather for :richards bay

Retrieving Weather for :talara

Retrieving Weather for :visina

Retrieving Weather for :lebu

Retrieving Weather for :krasnofarfornyy

Retrieving Weather for :sentyabrskiy

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :zheleznodorozhnyy

Retrieving Weather for :griffith

Retrieving Weather for :khandagayty

Retrieving Weather for :bredasdorp

Retrieving Weather for :port elizabeth

Retrieving Weather for :mys shmidta

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Retrieving Weather for :kapuskasing

Retrieving Weather for :marcona

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :severnyy

Retrieving Weather for :maryborough

Retrieving Weather for :lagoa

Retrieving Weather for :labuan

Retrieving Weather for :sorland

Retrieving Weather for :faanui

Retrieving Weather for :capao da canoa

Retrieving Weather for :lavrentiya

Retrieving Weather for :pevek

Retrieving Weather for :san jose

Retrieving Weather for :sosnovka

Retrieving Weather for :kapaa

Retrieving Weather for :barentsburg

{'cod': '404', 'message': 'city not found'}

Retrieving Weather for :pedernales

Analysis for VacationPy

We used the following criteria to pick the cities

1. Filter based on temperature between 70 and 75
2. Filter based on humidity between 30 and 65
3. Filter based on cloud cover between 0 and 65

This gives us the following cities and hotels

Table

Description automatically generated

Following are the maps produced.

Heatmap for humidity

A screenshot of a computer

Description automatically generated with low confidence

Hotel marker layer

A picture containing chart

Description automatically generated

Combined Layer

A screenshot of a computer

Description automatically generated with low confidence