

VacationPy

Starter Code to Import Libraries and Load the Weather and Coordinates Data

```
In [1]: # Dependencies and Setup
import hvplot.pandas
import pandas as pd
import json
import requests

# Import API key
from api_keys import geoapify_key
```

```
In [2]: # Load the CSV file created in Part 1 into a Pandas DataFrame
city_data_df = pd.read_csv("../output_data/cities.csv")

# Display sample data
city_data_df.head()
```

```
Out[2]:
```

	City_ID	City	Lat	Lng	Max Temp	Humidity	Cloudiness	Wind Speed	Country
0	0	bredasdorp	-34.5322	20.0403	16.22	77	100	3.24	ZA
1	1	adamstown	-25.0660	-130.1015	22.48	76	100	7.10	PN
2	2	iskateley	67.6803	53.1512	-16.10	95	16	3.13	RU
3	3	east london	-33.0153	27.9116	20.52	83	0	5.14	ZA
4	4	tiksi	71.6872	128.8694	-34.15	98	42	3.08	RU

Step 1: Create a map that displays a point for every city in the `city_data_df` DataFrame. The size of the point should be the humidity in each city.

```
In [3]: %%capture --no-display

# Configure the map plot
city_map = city_data_df.hvplot.points(
    x="Lng",
    y="Lat",
```

```

c="Humidity",
hover_cols=["City"],
colormap="plasma",
title="City Map with Humidity",
xlabel="Longitude",
ylabel="Latitude",
size="Humidity",
frame_width=600,
frame_height=400,
tiles="OSM",
geo=True
)

# Display the map
city_map

```

Out[3]:

Step 2: Narrow down the `city_data_df` DataFrame to find your ideal weather condition

```

In [4]: # Narrow down cities that fit criteria and drop any results with null values
fit_city_data_df = city_data_df[
    (city_data_df["Max Temp"] >= 20) & (city_data_df["Max Temp"] <= 30) &
    (city_data_df["Wind Speed"] < 5) & (city_data_df["Cloudiness"] < 20)
]
# Drop any rows with null values
drop_city_data = fit_city_data_df.dropna()

# Display sample data
drop_city_data.head()

```

Out[4]:

	City_ID	City	Lat	Lng	Max Temp	Humidity	Cloudiness	Wind Speed	Country
6	6	port elizabeth	-33.9180	25.5701	21.29	78	0	3.60	ZA
46	46	takoradi	4.8845	-1.7554	26.97	85	14	3.14	GH
70	70	sao jose da coroa grande	-8.8978	-35.1478	25.58	77	12	3.57	BR
81	81	lihue	21.9789	-159.3672	22.77	78	0	1.54	US
82	82	cartagena	10.3997	-75.5144	25.79	89	0	1.54	CO

Step 3: Create a new DataFrame called `hotel_df`.

```

In [5]: # Use the Pandas copy function to create DataFrame called hotel_df to store the cit
hotel_df = city_data_df.copy()

```

```
# Add an empty column, "Hotel Name," to the DataFrame so you can store the hotel fo
hotel_df["Hotel Name"] = ""

# Display sample data
hotel_df.head()
```

Out[5]:

	City_ID	City	Lat	Lng	Max Temp	Humidity	Cloudiness	Wind Speed	Country
0	0	bredasdorp	-34.5322	20.0403	16.22	77	100	3.24	ZA
1	1	adamstown	-25.0660	-130.1015	22.48	76	100	7.10	PN
2	2	iskateley	67.6803	53.1512	-16.10	95	16	3.13	RU
3	3	east london	-33.0153	27.9116	20.52	83	0	5.14	ZA
4	4	tiksi	71.6872	128.8694	-34.15	98	42	3.08	RU

Step 4: For each city, use the Geoapify API to find the first hotel located within 10,000 metres of your coordinates.

```
In [6]: # Set parameters to search for a hotel
radius = 10000
params = {
    "radius": radius,
    "categories": "tourism,accommodation",
    "apiKey": geoapify_key
}

# Print a message to follow up the hotel search
print("Starting hotel search")

# Iterate through the hotel_df DataFrame
for index, row in hotel_df.iterrows():
    # get latitude, longitude from the DataFrame
    lat = row["Lat"]
    lon = row["Lng"]

    # Add filter and bias parameters with the current city's Latitude and Longitude
    params["filter"] = f"circle:{lon},{lat},{radius}"
    params["bias"] = f"proximity:{lon},{lat}"

    # Set base URL
    base_url = "https://api.geoapify.com/v2/places"

    # Make and API request using the params dictionary
    response = requests.get(base_url, params=params)

    # Convert the API response to JSON format
    name_address = response.json()
```

```
# Grab the first hotel from the results and store the name in the hotel_df Data
try:
    hotel_df.loc[index, "Hotel Name"] = name_address["features"][0]["properties"]
except (KeyError, IndexError):
    # If no hotel is found, set the hotel name as "No hotel found".
    hotel_df.loc[index, "Hotel Name"] = "No hotel found"

# Log the search results
print(f"{hotel_df.loc[index, 'City']} - nearest hotel: {hotel_df.loc[index, 'Ho

# Display sample data
hotel_df
```

Starting hotel search

bredasdorp - nearest hotel: Victoria Hotel
adamstown - nearest hotel: No hotel found
iskateley - nearest hotel: No hotel found
east london - nearest hotel: No hotel found
tiksi - nearest hotel: Арктика
campos belos - nearest hotel: No hotel found
port elizabeth - nearest hotel: Waterford Hotel
jamestown - nearest hotel: Robert H. Jackson Center
blackmans bay - nearest hotel: No hotel found
morondava - nearest hotel: Hotel Sharon Menabe
thompson - nearest hotel: Thompson Inn
gisborne - nearest hotel: No hotel found
grytviken - nearest hotel: Guano Factory
summerside - nearest hotel: Comme Chez Vous
tolanaro - nearest hotel: Hôtel Mahavokey
anna regina - nearest hotel: Damon Monument
olonkinbyen - nearest hotel: Moon surface viewpoint
lompoc - nearest hotel: Alano Club
chonchi - nearest hotel: Centenario
sirjan - nearest hotel: خانه معلم سیرجان
margaret river - nearest hotel: No hotel found
nova viciosa - nearest hotel: Baleia Jubarte
yinchuan - nearest hotel: 鼓楼
albany - nearest hotel: No hotel found
port blair - nearest hotel: Circuit House
puerto ayora - nearest hotel: Tuneles de Lava
college - nearest hotel: Circle of Flags
udachny - nearest hotel: Виллюй
ubari - nearest hotel: جكو العظمى
edinburgh of the seven seas - nearest hotel: Sea View
ribeira grande - nearest hotel: Quinta das Bunganvillas
vorgashor - nearest hotel: No hotel found
pamandzi - nearest hotel: Gite Le Madina
alaghsas - nearest hotel: SOS GAZ
constantia - nearest hotel: Ioan N. Roman
mount pearl - nearest hotel: Greenwood Lodge
leava - nearest hotel: Fia fia
dalandzadgad - nearest hotel: Хан Уул буудал
yurga - nearest hotel: Цитадель
iqaluit - nearest hotel: Frobisher Inn
vilyuchinsk - nearest hotel: Алексеевский парк
west island - nearest hotel: My Island Home
port-aux-francais - nearest hotel: Tour météo
hammerfest - nearest hotel: No hotel found
isafjordur - nearest hotel: Sjómannastýttan
ushuaia - nearest hotel: Apart Hotel Aires del Beagle
takoradi - nearest hotel: Hillcrest
kodiak - nearest hotel: Russian Heritage Inn
carutapera - nearest hotel: No hotel found
la'ie - nearest hotel: La'ie Social Hall
yellowknife - nearest hotel: No hotel found
tanumah - nearest hotel: No hotel found
fale old settlement - nearest hotel: Old Hospital
zhangjiakou - nearest hotel: 商务宾馆
hushitai - nearest hotel: No hotel found

fort mcmurray - nearest hotel: Nomad Hotel and Suites
lebu - nearest hotel: Los filtros
kapit - nearest hotel: Clock Tower
st. john's - nearest hotel: No hotel found
anadyr - nearest hotel: No hotel found
acarau - nearest hotel: No hotel found
flying fish cove - nearest hotel: Christmas Island Lodge
bethel - nearest hotel: No hotel found
bismarck - nearest hotel: Radisson Hotel Bismarck
mto wa mbu - nearest hotel: Best View Lodge
santa terezinha - nearest hotel: Pousada Santa Terezinha
rio gallegos - nearest hotel: Amérián Río Gallegos Apart & Suites
kangding - nearest hotel: Yong Zhu Motel
talnakh - nearest hotel: Горняк
puerto natales - nearest hotel: Hostal Dorotea
sao jose da coroa grande - nearest hotel: Pousada Rota dos Corais
waitangi - nearest hotel: Centennial and War Memorial Hall
la mira - nearest hotel: Monumento a Lázaro Cárdenas
bardai - nearest hotel: No hotel found
ilulissat - nearest hotel: Best Western Plus Hotel Ilulissat
gadzhiyevo - nearest hotel: No hotel found
kasongo - nearest hotel: No hotel found
alpena - nearest hotel: No hotel found
pangody - nearest hotel: Победа!
nemuro - nearest hotel: お宿エクハシ
mstera - nearest hotel: No hotel found
lihue - nearest hotel: Statue of Dr. Jose Rizal y Mercado
cartagena - nearest hotel: airbnb
quatre cocos - nearest hotel: Horisun
port mathurin - nearest hotel: Compagnie des Artisans Rodriguais
nogliki - nearest hotel: Кладбище кораблей
pangkalan brandan - nearest hotel: Taman Bahagia
calvinia - nearest hotel: Hantam Huis
myronivka - nearest hotel: Мирон Зелений
aasiaat - nearest hotel: No hotel found
sitka - nearest hotel: No hotel found
labrador city - nearest hotel: Carol Inn
abilene - nearest hotel: No hotel found
susuman - nearest hotel: No hotel found
boa vista - nearest hotel: Aipana Plaza Hotel
mongo - nearest hotel: Résidences du Programme FIDA
sechura - nearest hotel: Maximus Inn
laguna - nearest hotel: Holiday Inn Express & Suites
chibougamau - nearest hotel: Auberge chez Nancy
badger - nearest hotel: Hotel North Pole
miranda do douro - nearest hotel: Hotel Parador Santa Catarina
hermanus - nearest hotel: Aloe House
wailua homesteads - nearest hotel: No hotel found
porbandar - nearest hotel: Sudama Mandir
balabac - nearest hotel: Jonathan's Guesthouse
laikit, laikit ii (dimembe) - nearest hotel: Gapura Selamat Datang Desa Dimembe
san luis de la loma - nearest hotel: No hotel found
renon - ritten - nearest hotel: Linde
fort st. john - nearest hotel: Fort St. John Motor Inn
san antonio de pale - nearest hotel: No hotel found
whitehorse - nearest hotel: The Beez Kneez Backpackers Hostel

port isabel - nearest hotel: Charles Champion
rio grande - nearest hotel: Hotel Vila Moura Executivo
kristiansund - nearest hotel: Flygende måser
klyuchi - nearest hotel: Памятник воинам
punta arenas - nearest hotel: No hotel found
port sudan - nearest hotel: Ranya Hotel
holma - nearest hotel: No hotel found
pangoa - nearest hotel: No hotel found
longyearbyen - nearest hotel: No hotel found
hamilton - nearest hotel: SAR Memorial
jabal os saraj - nearest hotel: Engineer Mansour Home
katsuura - nearest hotel: No hotel found
kayangel - nearest hotel: No hotel found
formosa - nearest hotel: Hotel Hostal del Rey
qandala - nearest hotel: Qandala
keflavik - nearest hotel: Núpan Deluxe
cabo san lucas - nearest hotel: Comfort Rooms
brisas de zicatela - nearest hotel: Casa de Olas
al badari - nearest hotel: 1929
parnamirim - nearest hotel: Pousada Santana
roma - nearest hotel: Fort Stanwix
ca mau - nearest hotel: Tượng đài Thành phố Cà Mau
enewetak - nearest hotel: No hotel found
nova sintra - nearest hotel: Miradouro MiraBeleza
ta'izz - nearest hotel: قرية جمالة
petropavlovsk-kamchatsky - nearest hotel: No hotel found
codrington - nearest hotel: Codrington Windfarm Viewing Area
invercargill - nearest hotel: Homestead Villa Motel
howard springs - nearest hotel: Darwin Boomerang Motel and Caravan Park
bulgan - nearest hotel: No hotel found
uturoa - nearest hotel: Old fishing traps
figuig (centre) - nearest hotel: Auberge Communale de Fiquig نزل فكيك البلدي
taltal - nearest hotel: Locomotora Kitson Meyer N°59 a petróleo
holualoa - nearest hotel: Kona Hotel
namibe - nearest hotel: Pensão Delta do Deserto
papatowai - nearest hotel: No hotel found
utrik - nearest hotel: No hotel found
nuuk - nearest hotel: No hotel found
trindade - nearest hotel: No hotel found
salekhard - nearest hotel: No hotel found
talitsa - nearest hotel: Хостел
kuta - nearest hotel: Ida Hotel Bali
borogontsy - nearest hotel: No hotel found
cill airne - nearest hotel: Southern Health Board
payyannur - nearest hotel: Hotel passport
pandan - nearest hotel: No hotel found
georgetown - nearest hotel: Page 63 hostel
jinka - nearest hotel: No hotel found
kijang - nearest hotel: 기장 장관청
afaahiti - nearest hotel: Omati Lodge
dauphin - nearest hotel: Dauphin Inn Express
bouza - nearest hotel: No hotel found
zima - nearest hotel: No hotel found
yanbu - nearest hotel: Broken Jar
langtang - nearest hotel: No hotel found
nagqu - nearest hotel: Naqu Hotel

axim - nearest hotel: Fort Santo Antonio
egilsstadir - nearest hotel: Sólbrekka 16 Guesthouse
gizo - nearest hotel: Rekona Lodge
qaqortoq - nearest hotel: 60* North Greenland
montepuez - nearest hotel: Complexo Messalo
bontang - nearest hotel: Okra Leaf Guest House Syariah
xai-xai - nearest hotel: Casa Xaixai
klobuck - nearest hotel: No hotel found
san ignacio rio muerto - nearest hotel: No hotel found
arraias - nearest hotel: Hotel Japão
sinabang - nearest hotel: Padepokan I Am Jhon
south hedland - nearest hotel: The Lodge
nyrob - nearest hotel: Свято-Никольский родник
ruthin - nearest hotel: Park Place Hotel
remire-montjoly - nearest hotel: No hotel found
tokmok - nearest hotel: мар.нурмат
sangsong-ni - nearest hotel: Yangdok County
um jar al gharbiyya - nearest hotel: No hotel found
tovarkovo - nearest hotel: No hotel found
argo - nearest hotel: Κωνσταντίνος Παναγής
amga - nearest hotel: No hotel found
akureyri - nearest hotel: No hotel found
bilibino - nearest hotel: No hotel found
twin falls - nearest hotel: No hotel found
manfalut - nearest hotel: Pyramid of Khui
kahrer pakka - nearest hotel: No hotel found
villa ojo de agua - nearest hotel: La Bonita
sur - nearest hotel: Sur Hotel
avarua - nearest hotel: Central Motel
alice springs - nearest hotel: Aurora Alice Springs
lazarro cardenas - nearest hotel: Hotel Sol del Pacífico
vorkuta - nearest hotel: Вертюлёр
rajapur - nearest hotel: No hotel found
polyarnyy - nearest hotel: Алые паруса
gornyye klyuchi - nearest hotel: В. И. Ленина
beira - nearest hotel: Pousada Moderna
edam - nearest hotel: Damhotel Edam
kudymkar - nearest hotel: No hotel found
embarcacion - nearest hotel: Punta Norte
kingston - nearest hotel: Aphrodite Hotel
bato - nearest hotel: Lake Bato Viewpoint
willowmore - nearest hotel: No hotel found
portland - nearest hotel: Green Man of Portland
coronel du graty - nearest hotel: Monumento al Agricultor
faya-largeau - nearest hotel: Rond point
coquimbo - nearest hotel: No hotel found
springbok - nearest hotel: Monument Koppie
luderitz - nearest hotel: Hansa Haus
la rinconada - nearest hotel: No hotel found
itoman - nearest hotel: No hotel found
vershino-darasunskiy - nearest hotel: No hotel found
berezovskiy - nearest hotel: Памятник Шахтерскому труду
atafu village - nearest hotel: No hotel found
tual - nearest hotel: Suita
poronaysk - nearest hotel: Ветеранам ВОВ от молодежи Поронайского гор. округа 2015г.
stanley - nearest hotel: South Moor Colliery (Louisa Pits)

kohlu - nearest hotel: No hotel found
al mijlad - nearest hotel: No hotel found
parang - nearest hotel: Mario Fish & Crab dealer
timbuktu - nearest hotel: Rene Caille House
anloga - nearest hotel: Lumana House
ancud - nearest hotel: Mural Ancud
sao tome - nearest hotel: Hotel Baia
luorong - nearest hotel: No hotel found
pisco - nearest hotel: No hotel found
semey - nearest hotel: Церковная школа
ulsteinvik - nearest hotel: Quality Hotel Ulstein
chernyshevskiy - nearest hotel: Чернышевский
aykhal - nearest hotel: No hotel found
yelan' - nearest hotel: Памятник ВОВ
morehead city - nearest hotel: Bask Hotel Big Rock Landing, Trademark Collection by Wyndham
angaur state - nearest hotel: No hotel found
marsh harbour - nearest hotel: D's Guest House
manacapuru - nearest hotel: Novo Hotel
ust-nera - nearest hotel: Памятник жертвам трассы «Колыма»
hawaiian paradise park - nearest hotel: No hotel found
ghat - nearest hotel: قلعة غات
tsiombe - nearest hotel: Androy
carnarvon - nearest hotel: Dwyers Leap
zunyi - nearest hotel: 遵义会议会址
bandundu - nearest hotel: Majestik Hotel
suihua - nearest hotel: No hotel found
sydney - nearest hotel: GPO Colonnade
sabang - nearest hotel: Hotel Montana
vilyuysk - nearest hotel: No hotel found
asau - nearest hotel: Monumentul Eroilor
ivdel' - nearest hotel: Смотровая площадка
san jose de las lajas - nearest hotel: Réplica de La Columna de la Primera Iglesia
salinopolis - nearest hotel: Hotel Salinópolis
parkville - nearest hotel: Kelly's Pool Hall
taizhou - nearest hotel: 望海楼
murud - nearest hotel: Samrajgad
srandakan - nearest hotel: Pantai Kwaru
kodinsk - nearest hotel: Ангара
kenai - nearest hotel: Beluga Lookout Hotel
mersrags - nearest hotel: No hotel found
sosnovo-ozerskoye - nearest hotel: Озёрная
nabire - nearest hotel: AMA Associated Mission Aviation
san patricio - nearest hotel: First United Methodist Church of Sinton
illizi - nearest hotel: No hotel found
ust'-ilimsk - nearest hotel: Обелиск
shiqi - nearest hotel: 京华世纪酒店
newman - nearest hotel: Hamlet Motel
pervomayskoye - nearest hotel: Памятник Лалаянцу
praia da vitoria - nearest hotel: Salles
saldanha - nearest hotel: No hotel found
yuzhno-kurilsk - nearest hotel: Памятник советскому десанту, высадившемуся в сентябре 1945 года
el calafate - nearest hotel: Posada Karut Josh
zlatna - nearest hotel: Vila Sandra
morro bay - nearest hotel: Ascot Suites

lensk - nearest hotel: No hotel found
twon-brass - nearest hotel: KC Hotel
les cayes - nearest hotel: No hotel found
luwuk - nearest hotel: No hotel found
port shepstone - nearest hotel: Whale Deck - Umtentweni Conservancy
crane - nearest hotel: William Carey Crane
usogorsk - nearest hotel: Г. Димитрову
glace bay - nearest hotel: No hotel found
afif - nearest hotel: استراحة الفرسان
suoyarvi - nearest hotel: Комфорт
nikolayevsk-on-amure - nearest hotel: М. Горький
margate - nearest hotel: Drapers Windmill
glendive - nearest hotel: El Centro Motel
ampanihy - nearest hotel: Bungalows Sharron (Annexe)
happy valley-geese bay - nearest hotel: No hotel found
embrun - nearest hotel: A la mémoire des morts pour la défense de la patrie 1870-1871
zaranj - nearest hotel: قلعه محمد
balqash - nearest hotel: No hotel found
pirot - nearest hotel: Гали апартаменти
callao - nearest hotel: Casa Pios
mpika - nearest hotel: Luswepo lodge
kerikeri - nearest hotel: Kerikeri Homestead Motel
collie - nearest hotel: Federal Hotel
kalmunai - nearest hotel: Saji new food
sisimiut - nearest hotel: Søndshjemmet
khandyga - nearest hotel: Апельсин
tura - nearest hotel: No hotel found
wynyard - nearest hotel: Wynyard Hotel
mount isa - nearest hotel: travellers haven
port lincoln - nearest hotel: YHA Port Lincoln
bodaybo - nearest hotel: HOЙ
simanggang - nearest hotel: Mega Inn
marrakesh - nearest hotel: No hotel found
lidzbark warminski - nearest hotel: No hotel found
castillos - nearest hotel: Hostel Mi Vieja
santa ana - nearest hotel: Yost Theater
kideksha - nearest hotel: No hotel found
cervantes - nearest hotel: Oficina Histórica de Vicente Blasco Ibáñez
aberdeen - nearest hotel: Leonardo Hotel Aberdeen
floro - nearest hotel: No hotel found
mildura - nearest hotel: Chaffey Motor Inn
trujillo - nearest hotel: Hostal Ayacucho
berdigestyakh - nearest hotel: Пам'ятник воинам-землякам
nelson bay - nearest hotel: Port Stephens Motel
naze - nearest hotel: ビジネス旅館畠山
ebon - nearest hotel: No hotel found
port alfred - nearest hotel: No hotel found
hotan - nearest hotel: Hua Yi International Hotel (accepts foreigners)
north shore - nearest hotel: No hotel found
rengasdengklok - nearest hotel: No hotel found
raton - nearest hotel: Budget Host Inn
auki - nearest hotel: Hilltop Guesthouse
lorengau - nearest hotel: Seeadler Bay Hotel
new norfolk - nearest hotel: No hotel found
paita - nearest hotel: Victor's

el triunfo - nearest hotel: Hosteria El Pechiche
mtambile - nearest hotel: SMZ Hoteli Ya Mkoani
saipan - nearest hotel: Lavista
korla - nearest hotel: Silver Star Hotel
touroos - nearest hotel: No hotel found
ocean shores - nearest hotel: The Siren of Discovery Inn & Suites
san sebastian de la gomera - nearest hotel: Burrito La Gomera
yatou - nearest hotel: No hotel found
laojunmiao - nearest hotel: No hotel found
tazovsky - nearest hotel: Тазовчанка
conde - nearest hotel: Paladino
nacala - nearest hotel: Indico Apart Hotel 2
galle - nearest hotel: Ms Zouh's House
greenville - nearest hotel: The Cupola
hasaki - nearest hotel: 大新旅館
munford - nearest hotel: No hotel found
talara - nearest hotel: Hospedaje El Aypate
vadso - nearest hotel: Scandic Vadsø
kez - nearest hotel: No hotel found
quzhou - nearest hotel: 东方桥庵里
damghan - nearest hotel: هتل جهانگردی دامغان
gulf shores - nearest hotel: Beachside Resort
road town - nearest hotel: No hotel found
midvagur - nearest hotel: No hotel found
emerald - nearest hotel: Emerald Executive Apartments
santanyi - nearest hotel: Santanyí
leh - nearest hotel: Kang Lha Chen
igarka - nearest hotel: Погибшим во Второй Мировой войне
merizo village - nearest hotel: Spanish Convent
sarapul - nearest hotel: No hotel found
rabaul - nearest hotel: No hotel found
quellon - nearest hotel: Monumento a Loncos Mapuches
colonia - nearest hotel: Rommni Jg. 1925
karkira - nearest hotel: Maison des Jeunes
mazatlan - nearest hotel: Mona Inn
santiago de compostela - nearest hotel: Cidade Vella
ola - nearest hotel: В. И. Ленину
swift current - nearest hotel: Memorial Cenotaph
palikir - national government center - nearest hotel: NICHU Marine Park
weno - nearest hotel: Japanese War Memorial
nikel - nearest hotel: No hotel found
bodo - nearest hotel: No hotel found
ratnagiri - nearest hotel: Thiba Sunset Point
tocache - nearest hotel: Hotel España
tchintabaraden - nearest hotel: Sabre de la paix de Tchintabaraden
timmins - nearest hotel: Flamingo Motel
papao - nearest hotel: France Lorraine Mere
palmer - nearest hotel: Palmer Center Common And Schoo
beyneu - nearest hotel: Railway Hostel
galesong - nearest hotel: POROS LIMBUNG
kismayo - nearest hotel: shibiin
mazara del vallo - nearest hotel: Ipogeo di San Bartolomeo
strelka - nearest hotel: No hotel found
ayr - nearest hotel: St Johns Tower
lillehammer - nearest hotel: Sigrid Undset
belogradchik - nearest hotel: Dalia

minot - nearest hotel: Plaza Scandinavia
selfoss - nearest hotel: Gesthús
kone - nearest hotel: Pacifik Appartels
turabah - nearest hotel: قلعة شنقل
constitucion - nearest hotel: Hostal Alameda
olyokminsk - nearest hotel: No hotel found
darwin - nearest hotel: Street Art
aghstafa - nearest hotel: Nesiboglu Otel
eydhafushi - nearest hotel: Dhooni Finolhu Guesthouse
al ghayzah - nearest hotel: فندق تاج العرب
kailua-kona - nearest hotel: Kona Seaside Hotel
arawa - nearest hotel: Gold Dust Inn
marsa alam - nearest hotel: Blue House Hotel
kiruna - nearest hotel: No hotel found
lake city - nearest hotel: Old Spanish Trail from Madison to Lake City (1919)
lock haven - nearest hotel: Clinton County Civil War Monument
neelankarai - nearest hotel: sha
al kharijah - nearest hotel: Kharga Hotel
covilha - nearest hotel: SportHotel
luganville - nearest hotel: No hotel found
sao paulo de Olivenca - nearest hotel: No hotel found
tshabong - nearest hotel: No hotel found
praia - nearest hotel: Casa Sodadi
iwanai - nearest hotel: ホチルいのう
gorodets - nearest hotel: Самолёт Ан-2
kirakira - nearest hotel: No hotel found
yashkul' - nearest hotel: Верблюжая ферма
labytnangi - nearest hotel: Семь лиственниц
avanigadda - nearest hotel: No hotel found
scarborough - nearest hotel: Ivy Dene
palitana - nearest hotel: Shrinathji
tamanrasset - nearest hotel: فندق الأمان
dudinka - nearest hotel: Исследователи таймыра
nueva gerona - nearest hotel: Casa Claudia
vila velha - nearest hotel: Sítio Histórico da Prainha
sarrat - nearest hotel: Jose Rizal Monument
marquette - nearest hotel: Jackson Mine Monument
magadan - nearest hotel: Мемориальная квартира В. А. Козина
kavieng - nearest hotel: Kavieng Hotel
rocha - nearest hotel: José Gervasio Artigas
tyukalinsk - nearest hotel: Победы
ta`u - nearest hotel: Tau Airport
hats'avan - nearest hotel: Tolors Church
babu - nearest hotel: No hotel found
saint-philippe - nearest hotel: Domaine du Vacoa
caleta de carquin - nearest hotel: Atlantic
bandarbeyla - nearest hotel: No hotel found
buta - nearest hotel: Hôtel Rubi
bydgoszcz - nearest hotel: Stare Miasto
mount gambier - nearest hotel: Comfort Inn The Lakes
manaure - nearest hotel: hotel palaima
machico - nearest hotel: Runway Spotter
nar'yan-mar - nearest hotel: Стелла Заполярный район
isola di capo rizzuto - nearest hotel: No hotel found
khorixas - nearest hotel: iGowati Country Hotel and Lodge
bechar - nearest hotel: Hôtel Madania

muroto-misakicho - nearest hotel: ファミリーロジ旅籠屋
bugana - nearest hotel: No hotel found
west bay - nearest hotel: Bonnie's Arch
cumana - nearest hotel: Hotel Regina
kili - nearest hotel: No hotel found
alofi - nearest hotel: Stone Villas
harper - nearest hotel: William VS Tubman Monument
severo-yeniseyskiy - nearest hotel: No hotel found
phongsali - nearest hotel: Old Chinese Quarter
marshall - nearest hotel: Wyndham Garden Lake-Guntersville
thinadhoo - nearest hotel: No hotel found
mili - nearest hotel: No hotel found
mpulungu - nearest hotel: Nkhupu Lodge
mao - nearest hotel: Claustre del Carme
dondukovskaya - nearest hotel: No hotel found
al burayqah - nearest hotel: No hotel found
mayya - nearest hotel: Гостиница
toktogul - nearest hotel: Токтогул С.
tauste - nearest hotel: La Casa de la Cámara
sola - nearest hotel: No hotel found
diawara - nearest hotel: Maison
alibag - nearest hotel: Chirag executive
broome - nearest hotel: No hotel found
essaouira - nearest hotel: Bab Moulay Youssef
minab - nearest hotel: منازل مسكونی پزشكان
labuan - nearest hotel: Labuan Avenue Hotel
rongelap - nearest hotel: No hotel found
howrah - nearest hotel: Statue of Bholsnst Chskraborty
horta - nearest hotel: The Cedars House
yutz - nearest hotel: No hotel found
long beach - nearest hotel: Westin
randudongkal - nearest hotel: Pohon Kembar
rikaze - nearest hotel: 日喀则烈士纪念碑
zarate - nearest hotel: Naciones Hotel
arraial do cabo - nearest hotel: No hotel found
nieuw amsterdam - nearest hotel: Fort Nieuw Amsterdam
island harbour - nearest hotel: PS Ryde (rusting hulk)
belmonte - nearest hotel: No hotel found
salinas - nearest hotel: The Traveler's Hotel
kinablangan - nearest hotel: Poo Sand Bar Departure Area
parauna - nearest hotel: Estátua de Cristo Redentor
viedma - nearest hotel: Edgardo Castello
chunskiy - nearest hotel: Мемориал МВД
le lavandou - nearest hotel: Le Terminus
altai - nearest hotel: Altai hotel 40000-100000T
kabalo - nearest hotel: No hotel found
neyshabur - nearest hotel: باغ امين اسلامي
geraldton - nearest hotel: Esplanade
nchelenge - nearest hotel: Petra Lodge
randers - nearest hotel: No hotel found
kyzyl-suu - nearest hotel: кафе суусая
shalya - nearest hotel: No hotel found
kerema - nearest hotel: No hotel found
mogocha - nearest hotel: No hotel found
saline - nearest hotel: No hotel found
dapaong - nearest hotel: La Residenze

i-n-salah - nearest hotel: شيخ عبد القادر الجيلالي
mezhdurechenskiy - nearest hotel: No hotel found
kuwait city - nearest hotel: Gulf Rose Hotel
kamensk-ural'skiy - nearest hotel: Земля
hagere hiywet - nearest hotel: Ambo Ethiopia Hotel
cananea - nearest hotel: Monumento a la Madre
taksimo - nearest hotel: No hotel found
fort meade - nearest hotel: Candlewood Suites
puerto baquerizo moreno - nearest hotel: Hostal D Estrellita
nieuw nickerie - nearest hotel: Hotel Pak Hap
brak - nearest hotel: جزيرة براك
vila franca do campo - nearest hotel: Bento de Góis
mil'kovo - nearest hotel: Нумера
panama city beach - nearest hotel: Shores of Panama
tadine - nearest hotel: Plage de roche
luza - nearest hotel: Ленин
gwadar - nearest hotel: گواندر پرانا قلعه
jining - nearest hotel: 太白楼
bandar seri begawan - nearest hotel: Qing Yun
turpan - nearest hotel: Oriental
rabo de peixe - nearest hotel: Pico do Refugio
arkhangel'sk - nearest hotel: Дом П.Н. Гринфельдта (1913)
meadow lakes - nearest hotel: No hotel found
al jumum - nearest hotel: قلعة دخان
usinsk - nearest hotel: Памятник книге УПТ
lagoa - nearest hotel: Casa da Madrinha
cidreira - nearest hotel: Concha Acústica
bamboo flat - nearest hotel: Stewartganj Creek
savanna-la-mar - nearest hotel: No hotel found
filipstad - nearest hotel: No hotel found
acoua - nearest hotel: Marches d'Acoua
korhogo - nearest hotel: No hotel found
jaciara - nearest hotel: Pousada Rosa dos Ventos
lerwick - nearest hotel: Islesburgh House Hostel
dawei - nearest hotel: သုတေသနဦးစီးဌာန
tocopilla - nearest hotel: Moai
maraba - nearest hotel: Portobelo
aketi - nearest hotel: No hotel found
dunedin - nearest hotel: The Octagon
tangalle - nearest hotel: Malindu Homestay
north bondi - nearest hotel: No hotel found
okha - nearest hotel: Стелла Оха - город нефтяников
muynoq - nearest hotel: No hotel found
benghazi - nearest hotel: معرض بنغازي التجاري
port clinton - nearest hotel: Main Line (New York Central Railroad)
novodvinsk - nearest hotel: No hotel found
tamala - nearest hotel: No hotel found
vila do maio - nearest hotel: Forte
hongqiao - nearest hotel: No hotel found
nicoya - nearest hotel: Hotel marianela
north platte - nearest hotel: No hotel found
ulanhote - nearest hotel: 阿勒泰大酒店
kununurra - nearest hotel: No hotel found
nephi - nearest hotel: Pioneer Cabin
khamis mushait - nearest hotel: friend room
menongue - nearest hotel: No hotel found

karpinsk - nearest hotel: Павшим за власть Советов
daru - nearest hotel: Kuki
bahia honda - nearest hotel: No hotel found
hilo - nearest hotel: Dolphin Bay Hotel
mormugao - nearest hotel: Hotel Rukhmini
kutum - nearest hotel: No hotel found
giyani - nearest hotel: No hotel found
mumbwa - nearest hotel: La Hacienda
lae - nearest hotel: SIL Guest House
casas grandes - nearest hotel: Paquimé
talakan - nearest hotel: Якорь-памятник
nykobing falster - nearest hotel: Pige på bom
corowa - nearest hotel: Pfeiffer Wines
borkum - nearest hotel: Ferienhaus Kiewitt
pasuquin - nearest hotel: No hotel found
dazhou - nearest hotel: 凤凰楼
raduzhny - nearest hotel: Южная
odienne - nearest hotel: Hotel Frontière
canavieiras - nearest hotel: Coreto de Canavieiras
at taj - nearest hotel: قدرفي
pemba - nearest hotel: Hotel Rafael
bairnsdale - nearest hotel: Mercure Bairnsdale
hilton head island - nearest hotel: Shell Point
pemangkat - nearest hotel: No hotel found
sao jose do egito - nearest hotel: No hotel found
kapuskasing - nearest hotel: Advantage Motel
semera - nearest hotel: No hotel found
roses - nearest hotel: Ramblamar
hastings - nearest hotel: White Rock Hotel

Out[6]:

	City_ID	City	Lat	Lng	Max Temp	Humidity	Cloudiness	Wind Speed	Count
0	0	bredasdorp	-34.5322	20.0403	16.22	77	100	3.24	1
1	1	adamstown	-25.0660	-130.1015	22.48	76	100	7.10	1
2	2	iskateley	67.6803	53.1512	-16.10	95	16	3.13	1
3	3	east london	-33.0153	27.9116	20.52	83	0	5.14	1
4	4	tiksi	71.6872	128.8694	-34.15	98	42	3.08	1
...
580	580	sao jose do egito	-7.4789	-37.2744	21.57	75	16	2.30	1
581	581	kapuskasing	49.4169	-82.4331	-12.95	85	100	4.12	1
582	582	semara	11.5010	41.2010	22.79	47	82	4.53	1
583	583	roses	42.2620	3.1769	9.50	58	29	7.60	1
584	584	hastings	50.8552	0.5729	2.96	71	50	5.67	1

585 rows × 11 columns



Step 5: Add the hotel name and the country as additional information in the hover message for each city in the map.

```
In [7]: %%capture --no-display

# Configure the map plot
# Configure the map plot
hotel_city_map = hotel_df.hvplot.points(
    x="Lng",
    y="Lat",
    c="Humidity",
    hover_cols=["City", "Country", "Hotel Name"],
    colormap="plasma",
    title="City Map with Humidity and Hotel Information",
    xlabel="Longitude",
    ylabel="Latitude",
    size="Humidity",
    frame_width=600,
    frame_height=400,
    tiles="OSM",
```



```
    geo=True  
)  
  
# Display the map  
hotel_city_map
```

Out[7]: