

In [23]:

```
import pandas as pd
import matplotlib.pyplot as plt
from pytrends.request import TrendReq
Trending_topics = TrendReq(hl='en-US', tz=360)
```

In [2]:

```
pytrends = TrendReq(hl='en-US', tz=360)
```

In [3]:

```
df = pytrends.trending_searches(pn='nigeria')
df.head(10)
```

Out[3]:

	0
0	Premier League
1	EPL
2	Brentford f.c.
3	MC Oluomo
4	Total
5	Marseille vs PSG
6	CBN
7	Sunderland vs Fulham
8	Kareem Abdul-Jabbar
9	VfL Bochum vs Dortmund

In [4]:

```
pytrends.build_payload(kw_list=["Data science"])
df = pytrends.interest_by_region()
df.sort_values(by=["Data science"], ascending=False)
```

Out[4]:

Data science	
geoName	
China	100
Singapore	100
Ethiopia	98
India	96
Nigeria	86
...	...
Guyana	0
Haiti	0
Heard & McDonald Islands	0
Honduras	0
Aland Islands	0

250 rows × 1 columns

In [24]:

```
Trending_topics.build_payload(kw_list=["Cloud Computing"],
                              cat=0, timeframe='today 12-m')
data = Trending_topics.interest_over_time()
data = data.sort_values(by="Cloud Computing", ascending = False)
data = data.head(10)
print(data)
```

	Cloud Computing	isPartial
date		
2022-02-13	100	False
2022-12-04	97	False
2022-11-27	97	False
2022-02-27	94	False
2022-03-06	94	False
2022-03-20	92	False
2022-06-05	91	False
2022-05-15	91	False
2022-08-21	90	False
2022-11-13	90	False

In [25]:

```
kw_list=["Cloud Computing"]  
Trending_topics.build_payload(kw_list,cat=0, timeframe='today 12-m')
```

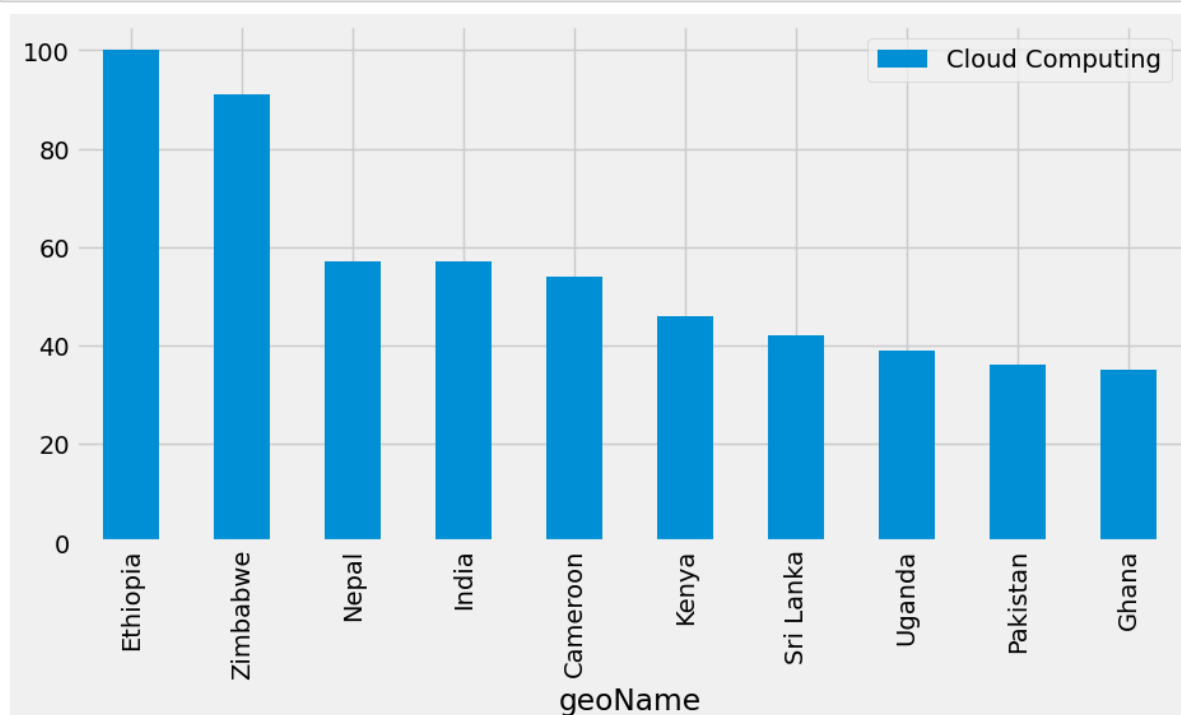
In [27]:

```
data = Trending_topics.interest_by_region()  
data = data.sort_values(by="Cloud Computing",  
                        ascending = False)  
data = data.head(10)  
print(data)
```

Cloud Computing	
geoName	
Ethiopia	100
Zimbabwe	91
Nepal	57
India	57
Cameroon	54
Kenya	46
Sri Lanka	42
Uganda	39
Pakistan	36
Ghana	35

In [28]:

```
data.reset_index().plot(x='geoName', y='Cloud Computing',  
                        figsize=(10,5), kind="bar")  
plt.style.use('fivethirtyeight')  
plt.show()
```



In [29]:

```
df = Trending_topics.top_charts(2020, hl='en-US',  
                                tz=300, geo='GLOBAL')  
df.head(10)
```

Out[29]:

	title	exploreQuery
0	Coronavirus	
1	Election results	
2	Kobe Bryant	
3	Zoom	
4	IPL	
5	India vs New Zealand	
6	Coronavirus update	
7	Coronavirus symptoms	
8	Joe Biden	
9	Google Classroom	

In [30]:

```
Trending_topics.build_payload(kw_list=['Cloud Computing'])
related_queries = Trending_topics.related_queries()
related_queries.values()
```

Out[30]:

```
dict_values([{'top':
0          what      100
1          what is cloud  94
2          the       87
3    what is cloud computing  83
4          which     41
5    cloud computing service  37
6    what is the cloud computing  35
7    cloud computing services  35
8          cloud services  35
9          cloud security  34
10   cloud computing security  33
11   google cloud computing  25
12         google cloud    25
13   cloud computing software  25
14         aws             23
15   cloud computing meaning  23
16   aws cloud computing    23
17         aws cloud      22
18   cloud computing system  20
19   cloud computing definition  20
20   security in cloud computing  19
21   cloud computing technology  19
22   cloud computing example    18
23   cloud storage            17
24   cloud computing types    17, 'rising':
query value
0          global x cloud computing etf 13750
1          wisdomtree cloud computing etf 13200
2    what would be an ideal scenario for using edge... 10050
3    what describes the relationship between edge c...  8900
4    a software developer wants to add a new featur...  6550
5    what would be an ideal scenario for using edge...  5850
6    a chain of dry-cleaning outlets wants to impro...  5800
7    an electronics company wants to use a type of ...  5500
8    what distinguishes accenture's cloud capabilit...  5450
9          infrastructure apis help in provisioning  5000
10   how can edge computing be used to improve sust...  4600
11   accenture has signed a multi-year agreement to...  4600
12          quillbot 4350
13   what is a recent trend relating to sustainabil...  3750
14   how does the accenture mynav green cloud advis...  3450
15   what does accenture mean by sustainability wil...  3300
16          what is edge computing 2700
17   what is the first step in the process of deplo...  2250
18          blockchain technology 2200
19   what is an example of new technology having a ...  1450
20          cloud computing mcq 1250
21          blockchain 1000
22          cloud computing javatpoint  900
23          cloud computing etf  900
24          kubernetes  850}}])
```

In [31]:

```
keywords = Trending_topics.suggestions(  
keyword='Cloud Computing')  
df = pd.DataFrame(keywords)  
df.drop(columns= 'mid')
```

Out[31]:

	title	type
0	Cloud computing	Topic
1	Alibaba Cloud Computer software company	
2	Cloud computing security	Topic
3	IBM cloud computing	Computer software
4	TransferXL - NIMBUS CLOUD COMPUTING B.V	Topic

In [36]:

```
pytrends = TrendReq(hl='en-US', tz=360)  
pytrends.build_payload(kw_list=['Programming'])  
pytrends = pytrends.interest_over_time()  
fig, ax = plt.subplots(figsize=(10, 5))  
pytrends['Programming'].plot()  
plt.style.use('fivethirtyeight')  
plt.title('Total Google Searches for Analysis', fontweight='bold')  
plt.xlabel('Year')  
plt.ylabel('Total Count')  
plt.show()
```

