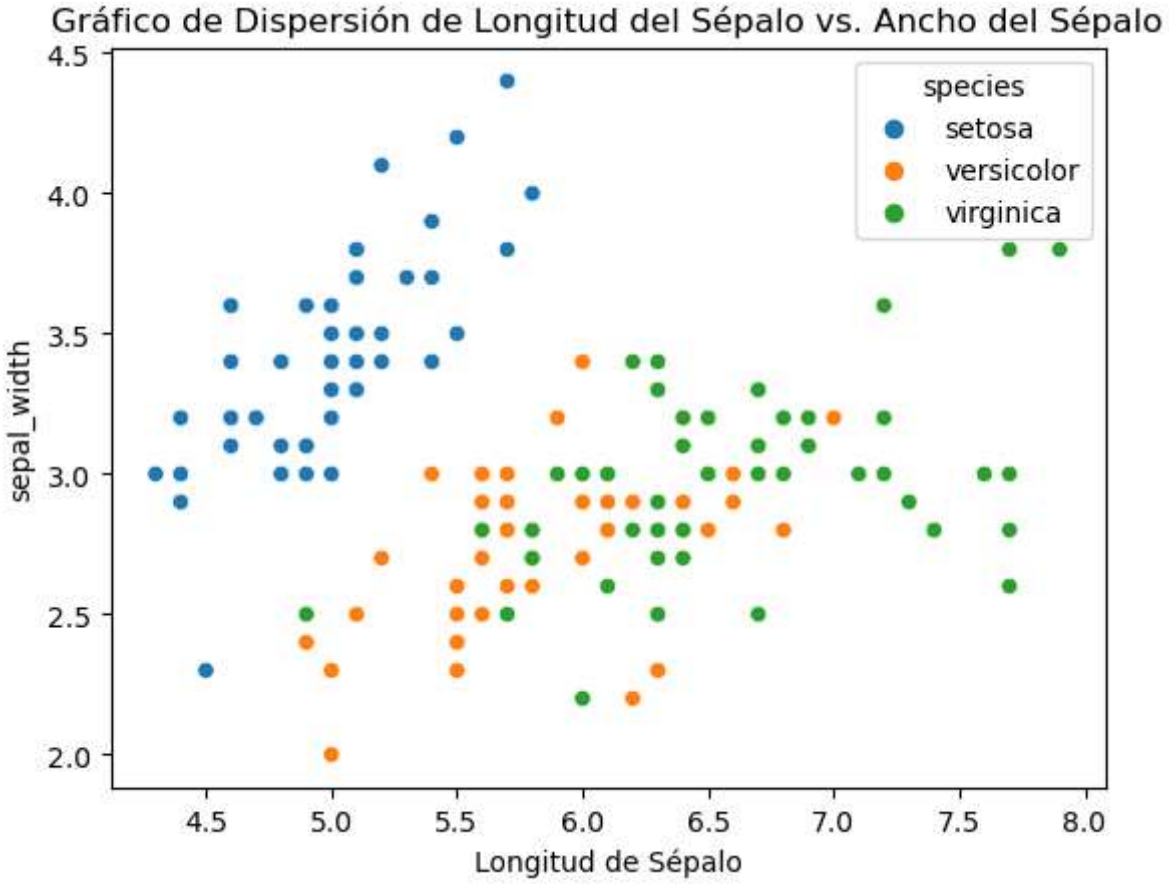
In [1]:
```
pip install tweepy pandas
```

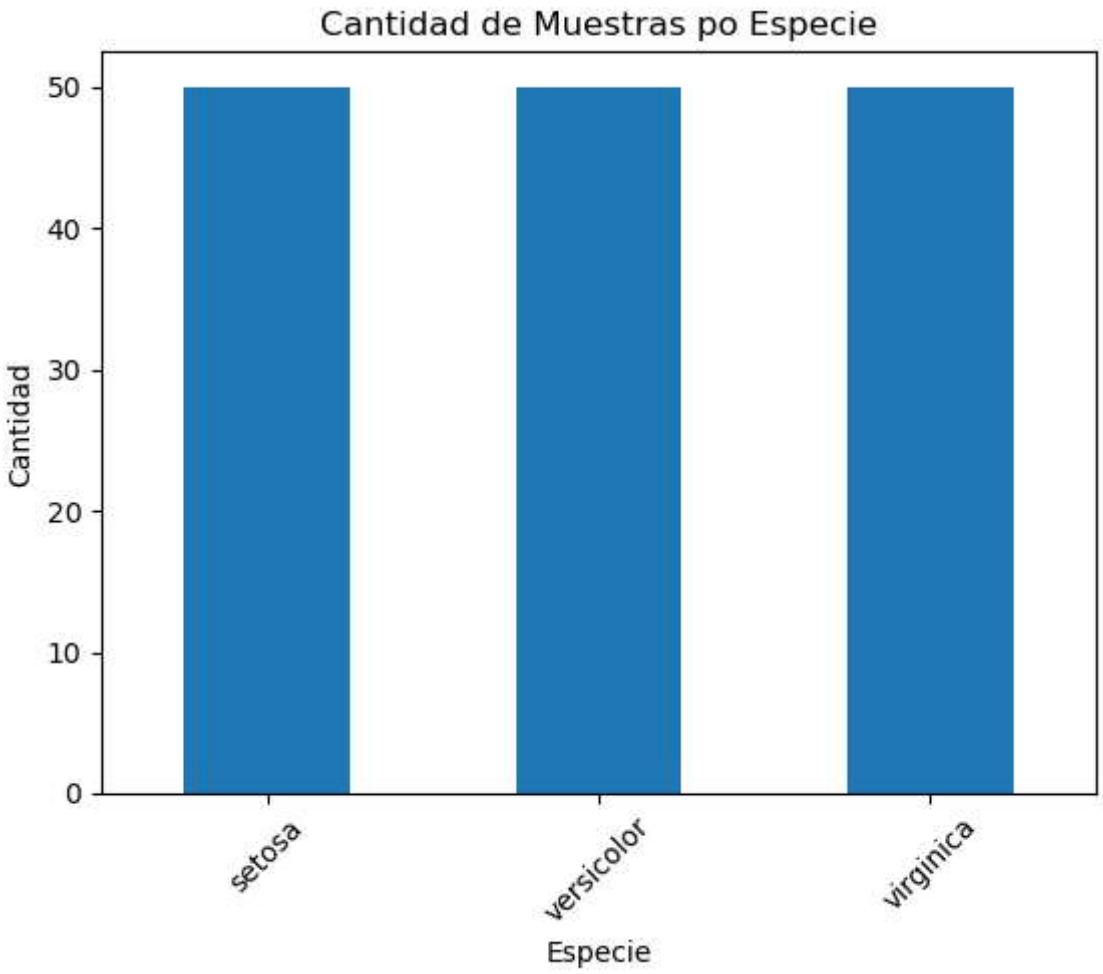
```
Requirement already satisfied: tweepy in c:\programdata\anaconda3\lib\site-packages (4.
14.0)
Requirement already satisfied: pandas in c:\programdata\anaconda3\lib\site-packages (1.
5.3)
Requirement already satisfied: requests-oauthlib<2,>=1.2.0 in c:\programdata\anaconda3
\lib\site-packages (from tweepy) (1.3.1)
Requirement already satisfied: oauthlib<4,>=3.2.0 in c:\programdata\anaconda3\lib\site-
packages (from tweepy) (3.2.2)
Requirement already satisfied: requests<3,>=2.27.0 in c:\programdata\anaconda3\lib\site
-packages (from tweepy) (2.28.1)
Requirement already satisfied: python-dateutil>=2.8.1 in c:\programdata\anaconda3\lib\s
ite-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\programdata\anaconda3\lib\site-packag
es (from pandas) (2022.7)
Requirement already satisfied: numpy>=1.21.0 in c:\programdata\anaconda3\lib\site-packa
ges (from pandas) (1.23.5)
Requirement already satisfied: six>=1.5 in c:\programdata\anaconda3\lib\site-packages
(from python-dateutil>=2.8.1->pandas) (1.16.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anaconda3\lib\si
te-packages (from requests<3,>=2.27.0->tweepy) (1.26.14)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-
packages (from requests<3,>=2.27.0->tweepy) (2023.5.7)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\programdata\anaconda3\lib
\site-packages (from requests<3,>=2.27.0->tweepy) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packag
es (from requests<3,>=2.27.0->tweepy) (3.4)
Note: you may need to restart the kernel to use updated packages.
```

In [2]:
```
import matplotlib.pyplot as plt
import seaborn as sns
datos = sns.load_dataset('iris')
print (datos.head())
print(datos.describe())
sns.scatterplot(x='sepal_length', y='sepal_width',  data=datos, hue='species')
plt.title('Gráfico de Dispersión de Longitud del Sépalo vs. Ancho del Sépalo')
plt.xlabel('Longitud de Sépalo')
plt.show()
especies_counts = datos['species'].value_counts()
especies_counts.plot(kind='bar')
plt.title('Cantidad de Muestras po Especie')
plt.xlabel('Especie')
plt.ylabel('Cantidad')
plt.xticks(rotation=45)
plt.show()
```

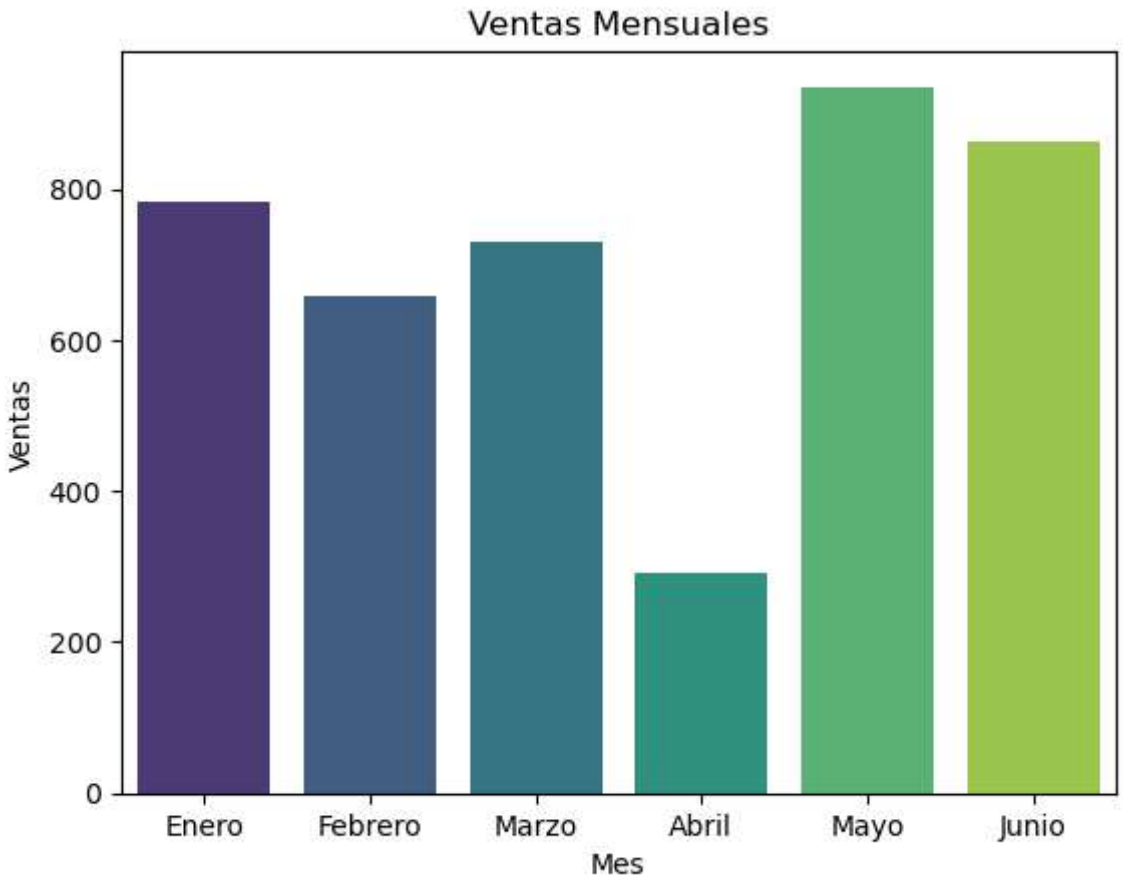
	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

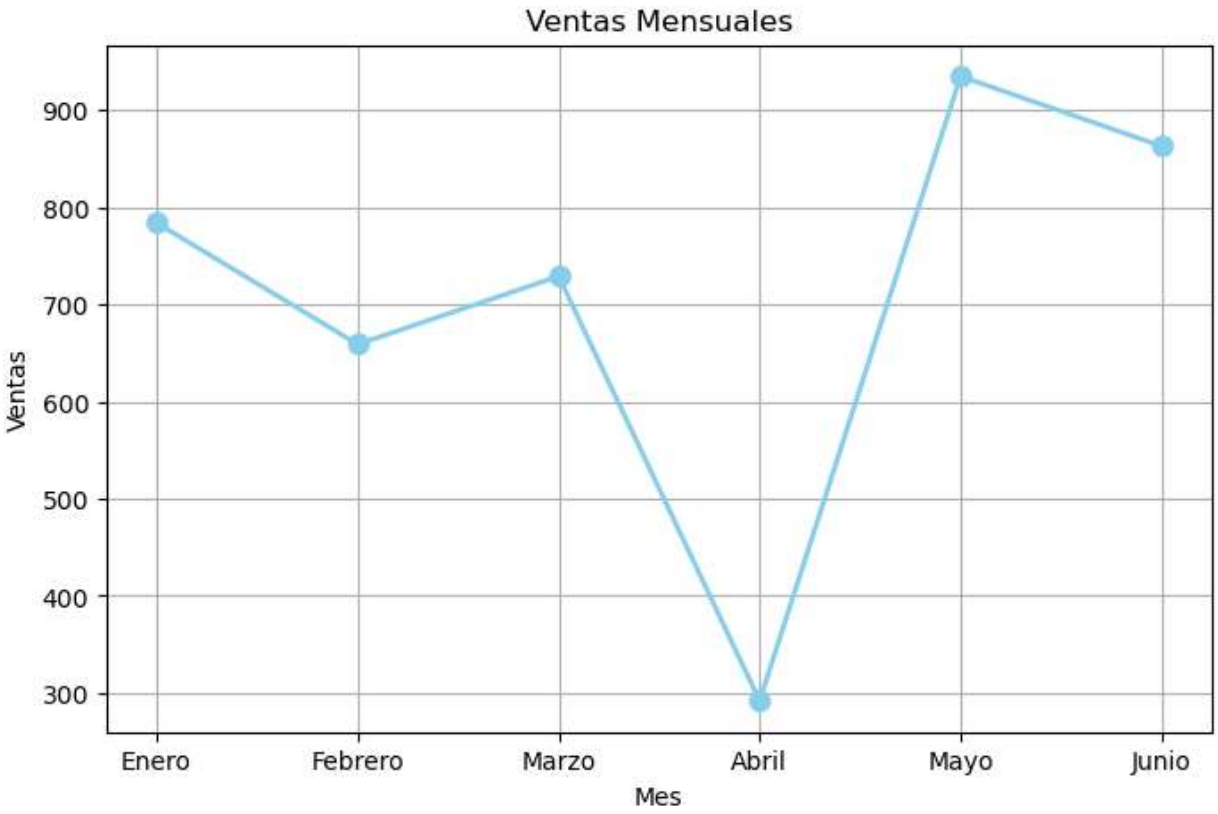
	sepal_length	sepal_width	petal_length	petal_width
count	150.000000	150.000000	150.000000	150.000000
mean	5.843333	3.057333	3.758000	1.199333
std	0.828066	0.435866	1.765298	0.762238
min	4.300000	2.000000	1.000000	0.100000
25%	5.100000	2.800000	1.600000	0.300000
50%	5.800000	3.000000	4.350000	1.300000
75%	6.400000	3.300000	5.100000	1.800000
max	7.900000	4.400000	6.900000	2.500000





In [2]:
```
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
import numpy as np

np.random.seed(0)

meses = ['Enero', 'Febrero', 'Marzo', 'Abril', 'Mayo', 'Junio']
ventas = np.random.randint(100, 1000, size=len(meses))
datos = pd.DataFrame({'Mes': meses, 'Ventas': ventas})

sns.barplot(x='Mes', y='Ventas', data=datos, palette='viridis')
plt.title('Ventas Mensuales')
plt.xlabel('Mes')
plt.ylabel('Ventas')
plt.show()

plt.figure(figsize=(8, 5))
plt.plot(datos['Mes'], datos['Ventas'], marker='o', color='skyblue', linestyle='-', lin
plt.title('Ventas Mensuales')
plt.xlabel('Mes')
plt.ylabel('Ventas')
plt.grid(True)
plt.show()
```



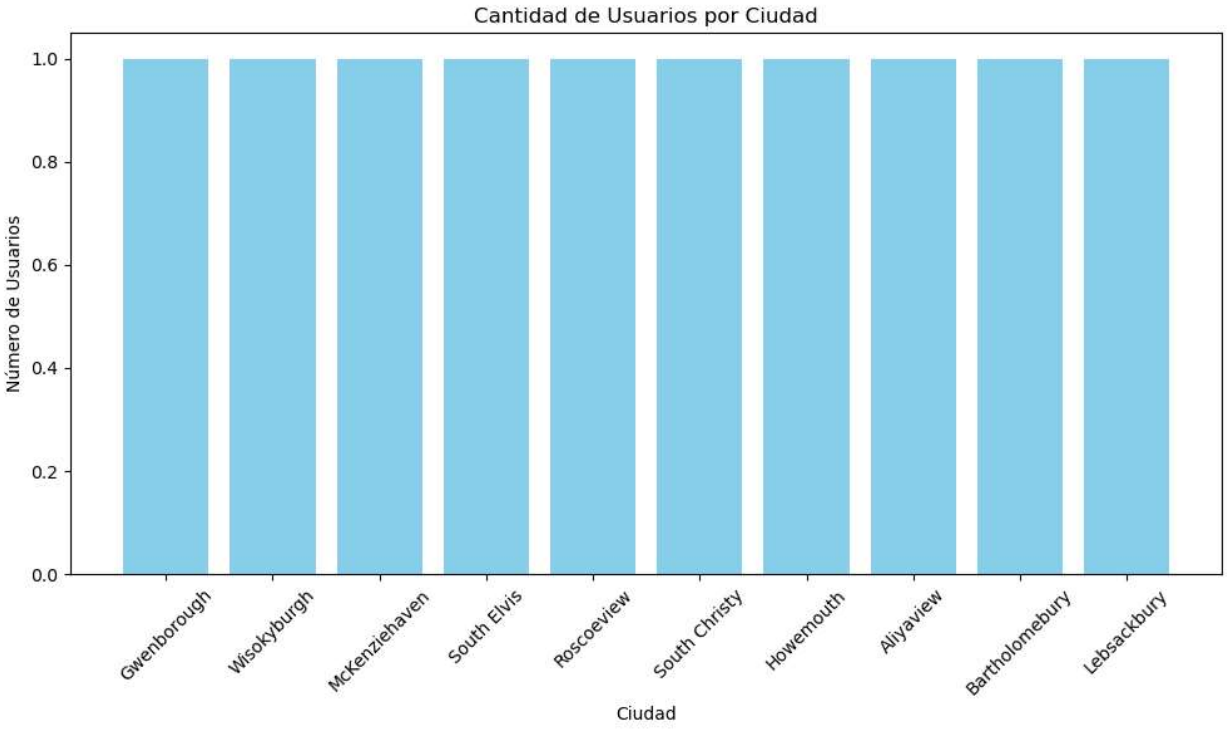


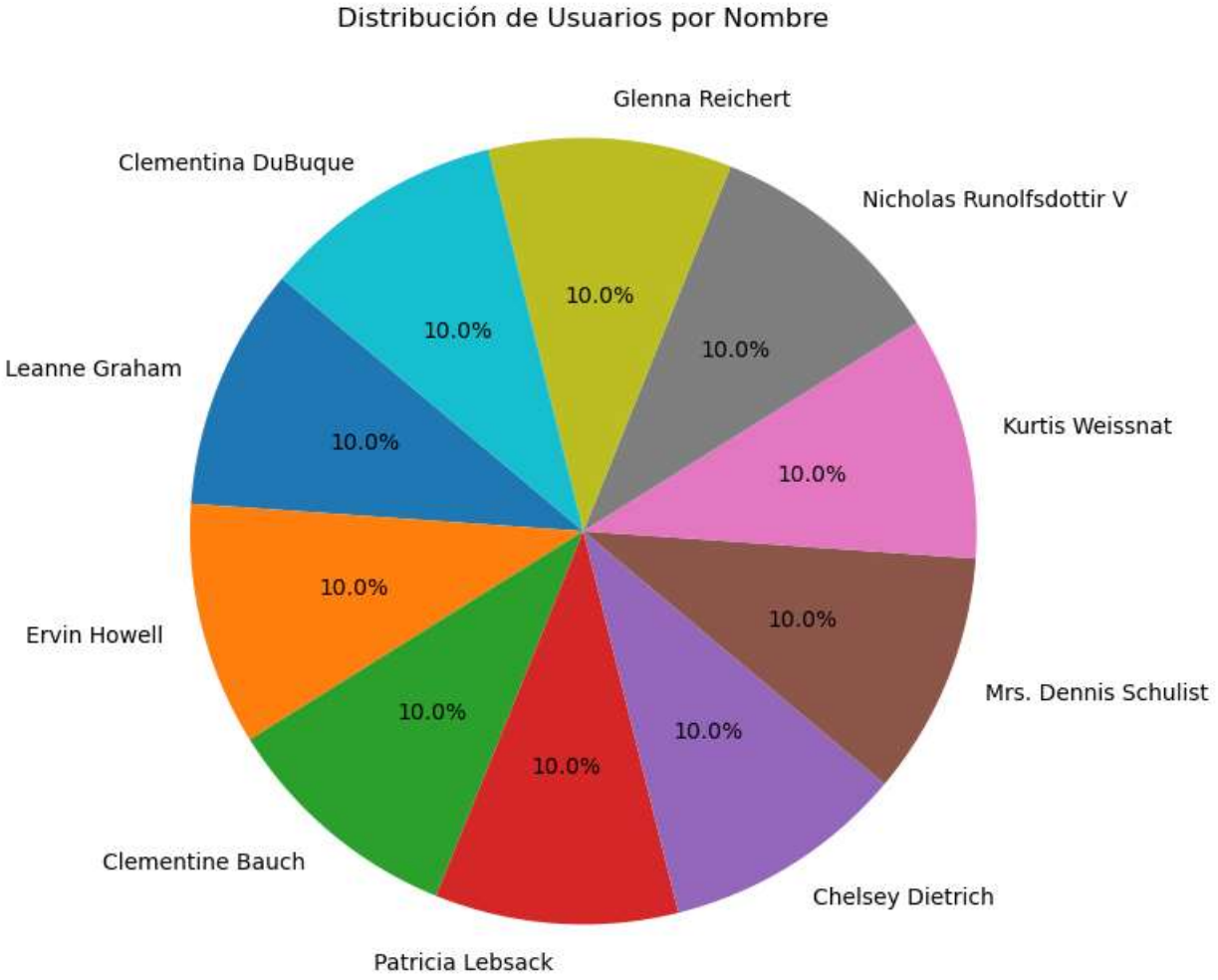
In [3]:
```
pip install requests
```

```
Requirement already satisfied: requests in c:\programdata\anaconda3\lib\site-packages
(2.28.1)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\programdata\anaconda3\lib
\site-packages (from requests) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packag
es (from requests) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anaconda3\lib\si
te-packages (from requests) (1.26.14)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-
packages (from requests) (2023.5.7)
Note: you may need to restart the kernel to use updated packages.
```

In [6]:

```python
import requests
import matplotlib.pyplot as plt

url = 'https://jsonplaceholder.typicode.com/users'
response = requests.get(url)

if response.status_code == 200:
    users = response.json()
    nombres = [user['name'] for user in users]
    direcciones = [user['address']['city'] for user in users]

    plt.figure(figsize=(10, 6))
    plt.bar(direcciones, [1] * len(direcciones), color='skyblue')
    plt.xlabel('Ciudad')
    plt.ylabel('Número de Usuarios')
    plt.title('Cantidad de Usuarios por Ciudad')
    plt.xticks(rotation=45)
    plt.tight_layout()
    plt.show()

    plt.figure(figsize=(8, 8))
    plt.pie([1] * len(nombres), labels=nombres, autopct='%1.1f%%', startangle=140)  # C
    plt.title('Distribución de Usuarios por Nombre')
    plt.show()
else:
    print("Error al obtener datos de la API. Código de estado:", response.status_code)
```


Cantidad de Usuarios por Ciudad
Número de Usuarios
0.0
0.2
0.4
0.6
0.8
1.0
Gwenborough
Wisokyburgh
McKenziehaven
South Elvis
Roscoeview
South Christy
Howemouth
Aliyaview
Bartholomebury
Lebsackbury
Ciudad


Distribución de Usuarios por Nombre
Glenna Reichert
Clementina DuBuque
Nicholas Runolfsdottir V
Leanne Graham
Kurtis Weissnat
Ervin Howell
Mrs. Dennis Schulist
Clementine Bauch
Chelsey Dietrich
Patricia Lebsack
10.0%

In [ ]: