In [2]:
```
import pandas as pd
```

In [4]:
```
dataset= pd.read_csv('C:\\Users\\user\\OneDrive\\Documents\\census.csv')
```

In [5]:
```
dataset.head()
```

Out[5]:

	SUMLEV	REGION	DIVISION	STATE	COUNTY	STNAME	CTYNAME	CENSUS2010POP	ESTIMATESBASE2010	POPEST
0	40	3	6	1	0	Alabama	Alabama	4779736	4780127	
1	50	3	6	1	1	Alabama	Autauga County	54571	54571	
2	50	3	6	1	3	Alabama	Baldwin County	182265	182265	
3	50	3	6	1	5	Alabama	Barbour County	27457	27457	
4	50	3	6	1	7	Alabama	Bibb County	22915	22919	

5 rows × 100 columns

In [6]:
```
counties = dataset[dataset['SUMLEV'] == 50]
```

In [7]:
```
counties_per_state = counties['STNAME'].value_counts().sort_values(ascending=False)

```

In [8]:
```
state_with_most_counties = counties_per_state.index[0]

print("The state with the most counties is:", state_with_most_counties)
```

```
The state with the most counties is: Texas
```

In [ ]:
```
##2. Only looking at the three most populous countries for each state, what are the three most
states (in order of highest population to lowest population)? Use CENSUS2010POP
```

In [14]:
```
counties = dataset[dataset['SUMLEV'] == 50]
```

In [15]:
```
top_counties = counties.groupby('STNAME')['CENSUS2010POP'].apply(lambda x: x.nlargest(3).sum()

```

In [16]:
```
top_states = top_counties.sort_values(ascending=False).head(3)
```

In [18]:
```
print("The three most populous states (considering only the three most populous counties for ea
for state, population in top_states.items():
    print(state, "- Population:", population)
```

```
The three most populous states (considering only the three most populous counties for each state)
are:
California - Population: 15924150
Texas - Population: 8269632
Illinois - Population: 6815061
```

In [ ]:
```
##Which city has the most countries in it?
```

In [20]:
```
country_counts = dataset.groupby('CTYNAME')['COUNTY'].nunique()
```

In [21]:
```
city_with_most_countries = country_counts.idxmax()
```

In [22]:
```
print("The city with the most countries is:", city_with_most_countries)
```

```
The city with the most countries is: Washington County
```

In [ ]:
```
##Which region has the most division in it?
```

In [23]:
```
division_counts = dataset.groupby('REGION')['DIVISION'].nunique()
```

In [24]:
```
region_with_most_divisions = division_counts.idxmax()
```

In [25]:
```
print("The region with the most divisions is:", region_with_most_divisions)
```

```
The region with the most divisions is: 3
```

In [ ]:
```

```