"Worldwide company" Panama Papers Analysis. Potential risk areas

```
In [1]:  import pandas
         import seaborn
         import matplotlib.pyplot as plot
```

```
In [2]:  baltics = ["Estonia", "Latvia", "Lithuania"]
         CIS_countries = ["Armenia", "Azerbaijan", "Belarus", "Kazakhstan", "Kyrgyzst
```
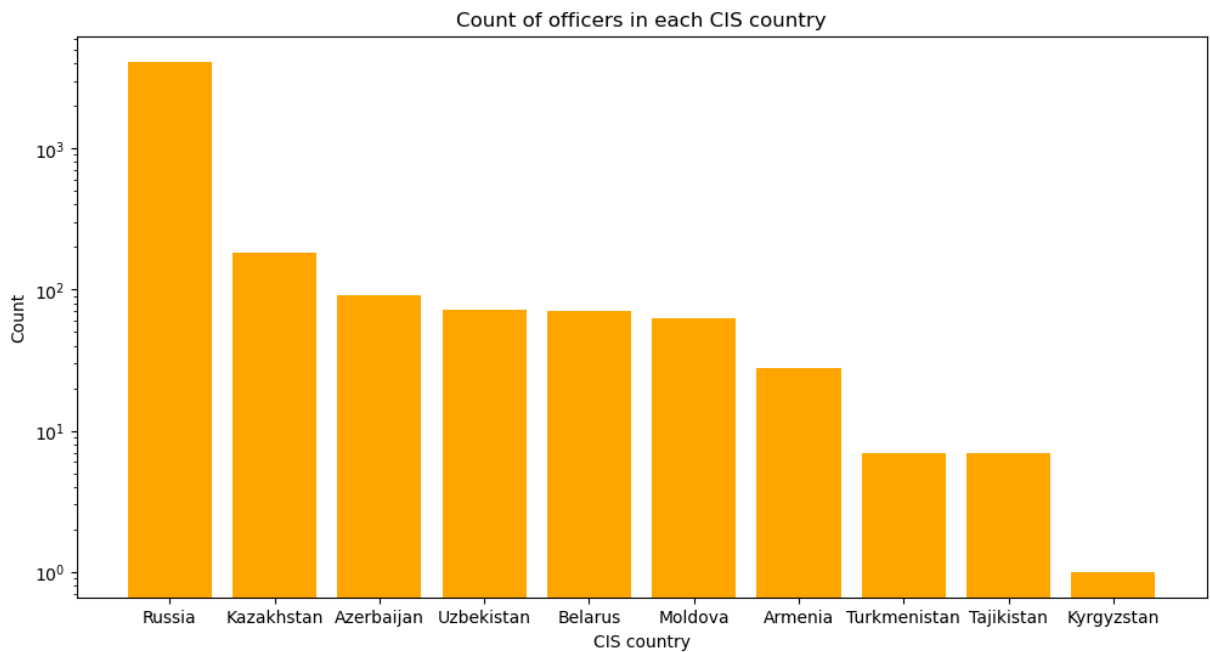
Officers table

There are a lot of names in Panama Papers that can be potentially connected to "Worldwide Company" as well. Full list of them from baltic and CIS countries can be found in files 'officers_valuable_data.csv' and 'cis_officers_valuable_data.csv' respectively.

```
In [4]:  officers_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_files/pan
         value_counts = officers_dataframe["countries"].value_counts()
         plot.figure(figsize=(8, 6))
         plot.bar(value_counts.index, value_counts.values, color="orange")
         plot.xlabel("Baltic country")
         plot.ylabel("Count")
         plot.title("Count of officers in each baltic country")
         plot.show()
```

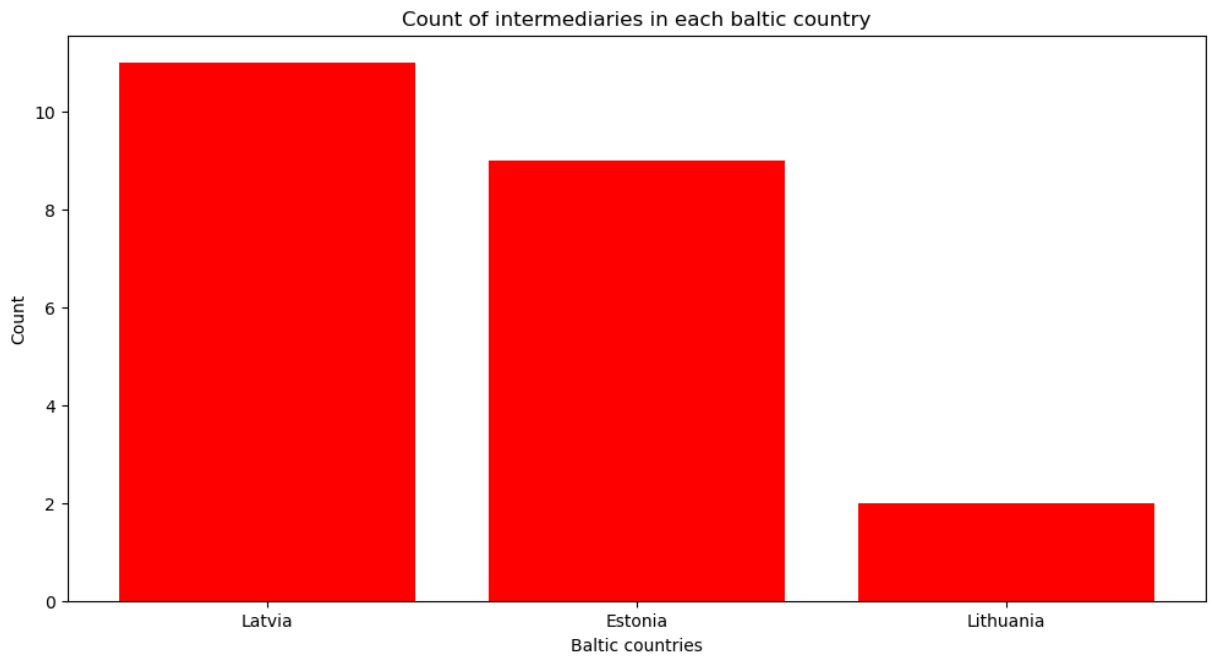# Count of officers in each baltic country
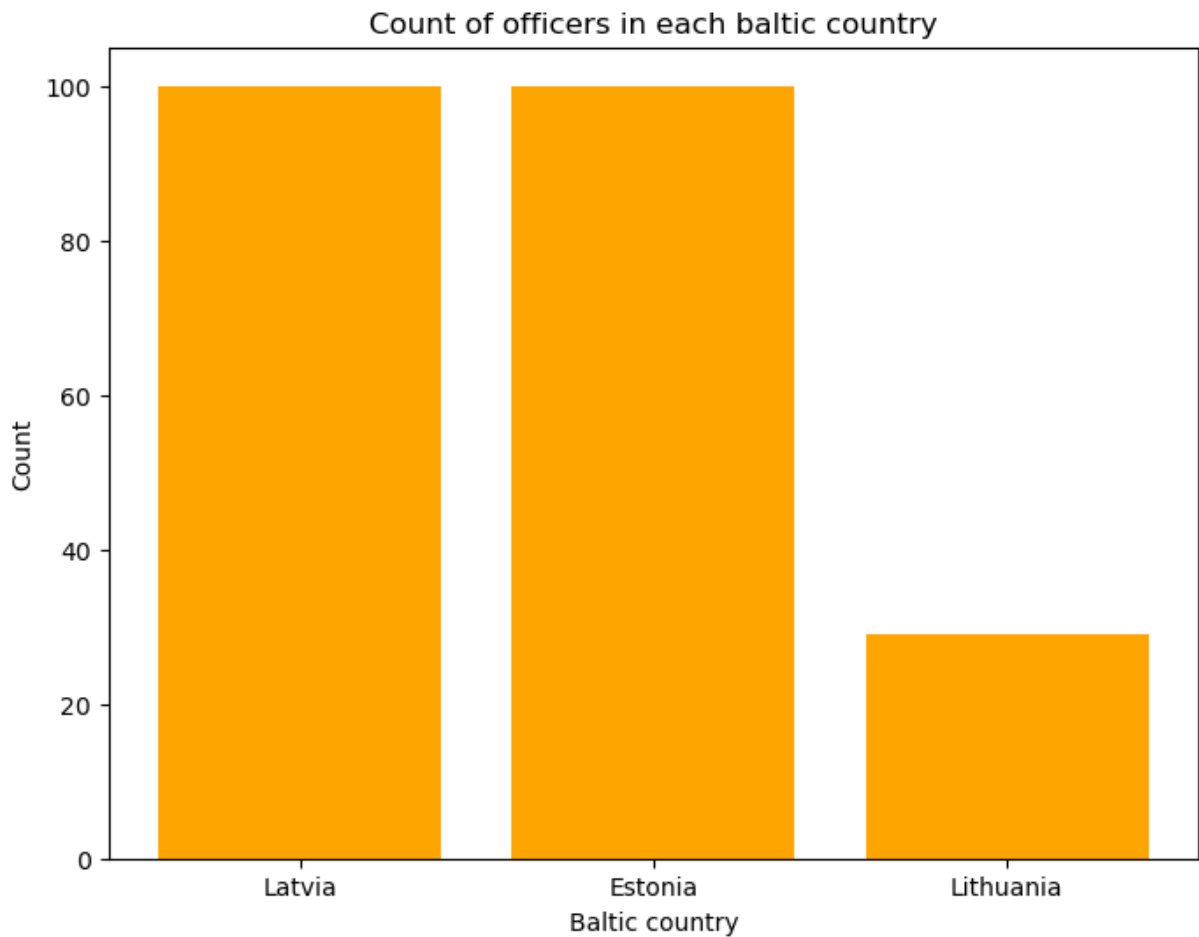

```
In [5]: officers_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_files/par
        value_counts = officers_dataframe["countries"].value_counts()
        plot.figure(figsize=(12, 6))
        plot.bar(value_counts.index, value_counts.values, color="orange")
        plot.xlabel("CIS country")
        plot.ylabel("Count")
        plot.yscale("log")
        plot.title("Count of officers in each CIS country")
        plot.show()
```
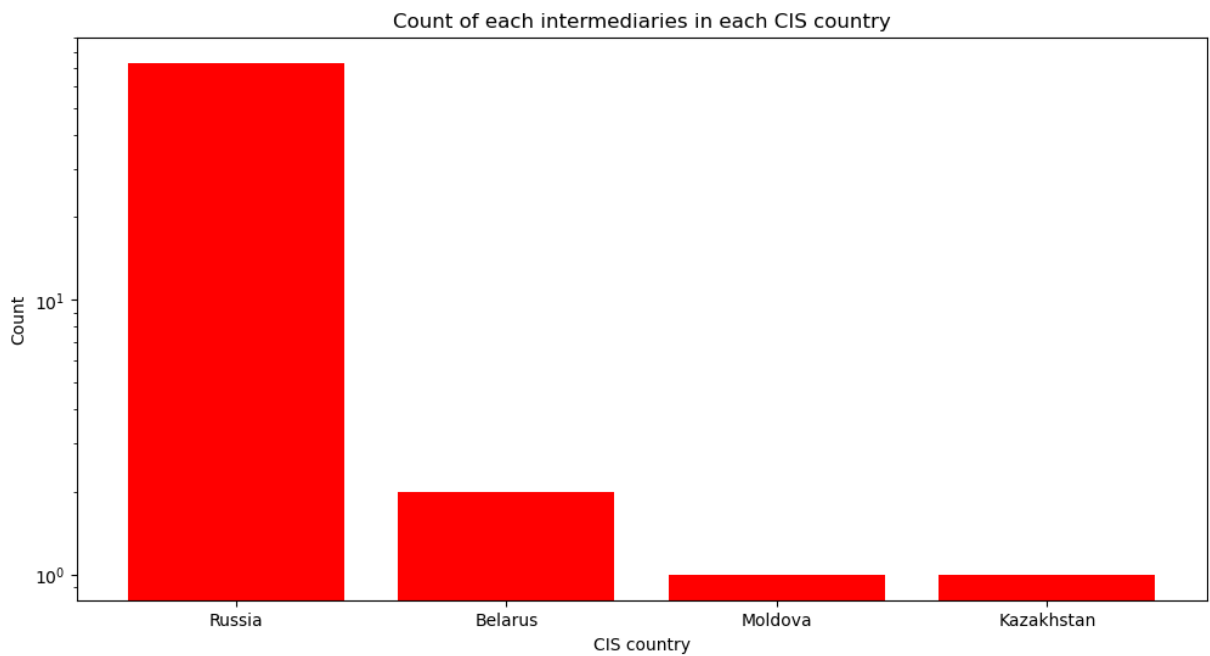
Count of officers in each CIS country

Intermediaries table

There are a lot of intermediaries in Panama Papers that can be potentially connected to "Worldwide Company" as well. Full list of them from baltic and CIS countries can be found in files 'baltic_intermediaries_valuable_data.csv' and 'cis_intermediaries_valuable_data.csv' respectively.

In [7]:
```python
intermediaries_b_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_f
value_counts = intermediaries_b_dataframe["countries"].value_counts()
plot.figure(figsize=(12, 6))
plot.bar(value_counts.index, value_counts.values, color="red")
plot.xlabel("Baltic countries")
plot.ylabel("Count")
plot.title("Count of intermediaries in each baltic country")
plot.show()
```
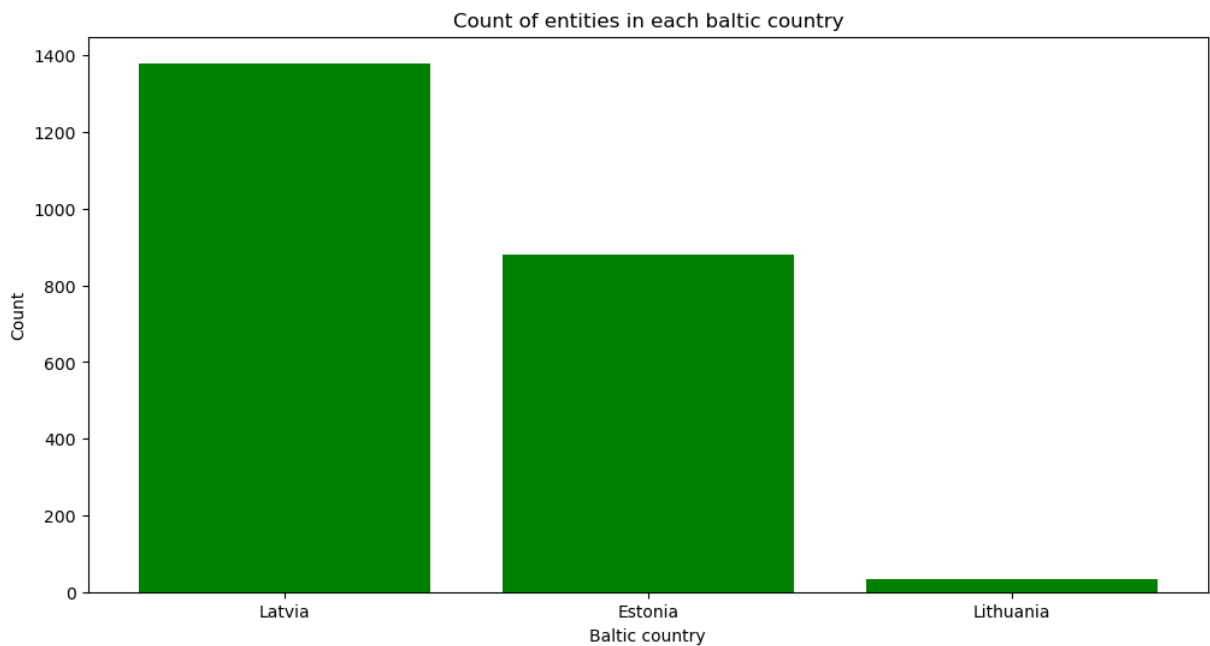
Count of intermediaries in each baltic country

```
intermediaries_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_fil
value_counts = intermediaries_dataframe["countries"].value_counts()
plot.figure(figsize=(12, 6))
plot.bar(value_counts.index, value_counts.values, color="red")
plot.xlabel("CIS country")
plot.ylabel("Count")
plot.yscale("log")
plot.title("Count of each intermediaries in each CIS country")
plot.show()
```


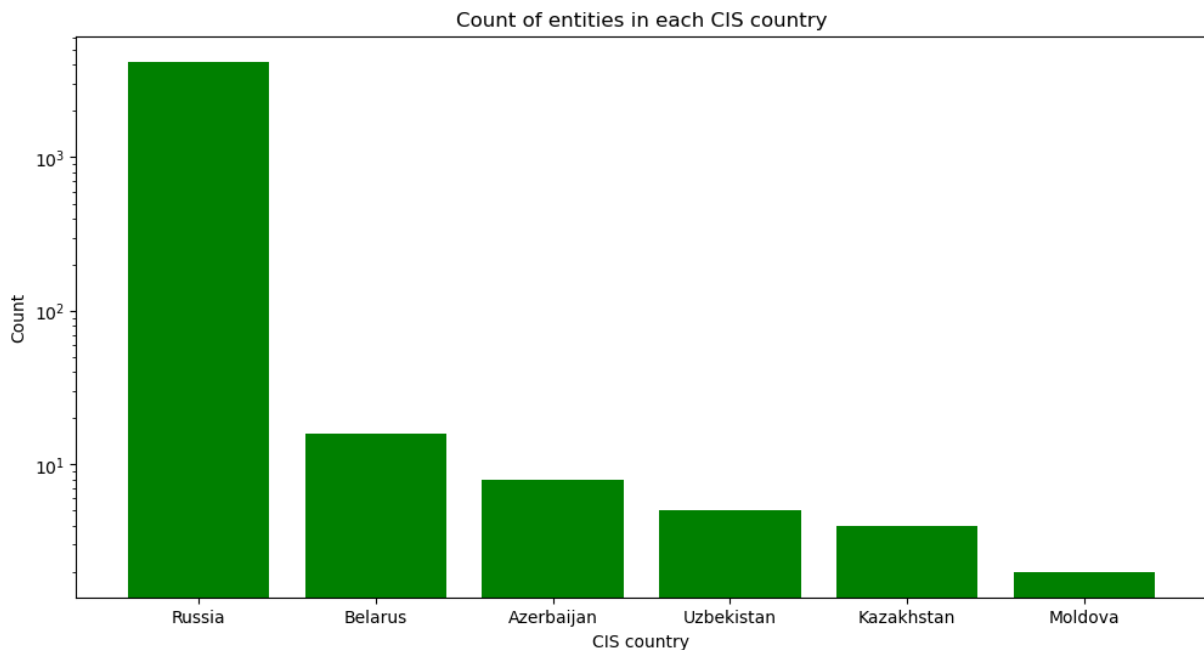
Count of each intermediaries in each CIS country

Entities table

There are a lot of offshore entities in Panama Papers that can be potentially connected to "Worldwide Company" as well. Full list of them connected to baltic and CIS countries can be found in files 'baltic_entities_valuable_data.csv' and 'cis_entities_valuable_data.csv'respectively.

In [10]:
```python
entities_b_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_files/p
value_counts = entities_b_dataframe["countries"].value_counts()
plot.figure(figsize=(12, 6))
plot.bar(value_counts.index, value_counts.values, color="green")
plot.xlabel("Baltic country")
plot.ylabel("Count")
plot.title("Count of entities in each baltic country")
plot.show()
```
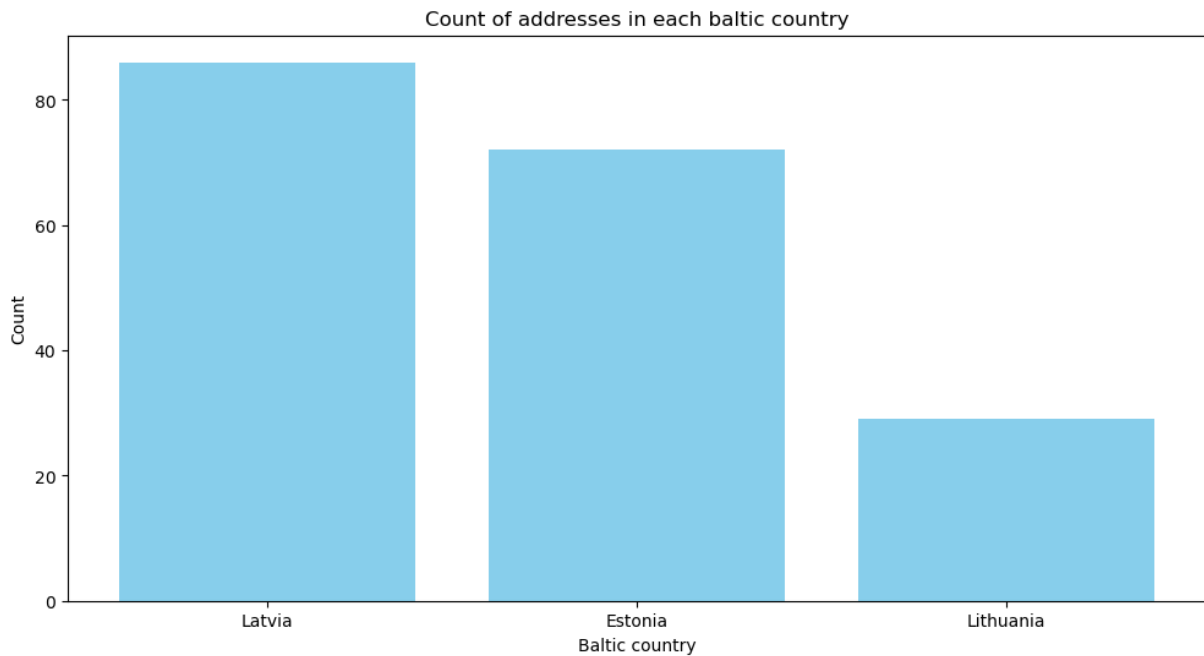

In [11]:
```python
entities_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_files/par
value_counts = entities_dataframe["countries"].value_counts()
plot.figure(figsize=(12, 6))
plot.bar(value_counts.index, value_counts.values, color="green")
plot.xlabel("CIS country")
plot.ylabel("Count")
plot.yscale("log")
plot.title("Count of entities in each CIS country")
plot.show()
```

Count of entities in each CIS country

Addresses table

There are a lot of addresses in Panama Papers that can be potentially connected to "Worldwide Company" as well. Full list of them from baltic and CIS countries can be found in files 'baltic_addresses_valuable_data.csv' and 'cis_addresses_valuable_data.csv'respectively.

In [12]:
```python
addresses_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_files/pa
value_counts = addresses_dataframe["countries"].value_counts()
plot.figure(figsize=(12, 6))
plot.bar(value_counts.index, value_counts.values, color="skyblue")
plot.xlabel("Baltic country")
plot.ylabel("Count")
plot.title("Count of addresses in each baltic country")
plot.show()
```

Count of addresses in each baltic country

In [13]:
```python
addresses_b_dataframe = pandas.read_csv("/home/school/Desktop/jupyter_files/
value_counts = addresses_b_dataframe["countries"].value_counts()
plot.figure(figsize=(12, 6))
plot.bar(value_counts.index, value_counts.values, color="skyblue")
plot.xlabel("CIS country")
plot.ylabel("Count")
plot.yscale("log")
plot.title("Count of addresses in each CIS country")
plot.show()
```

Count of addresses in each CIS country
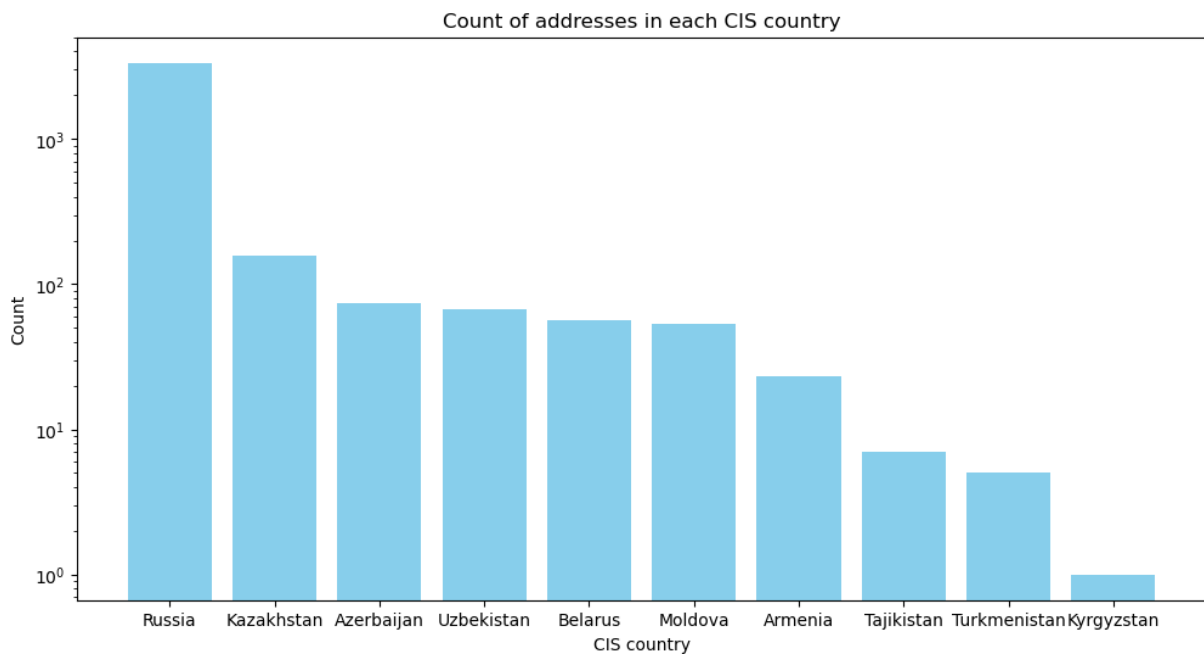
- check have there been any media reports or criminal cases connected to the Panama Papers data leak;

Criminal cases and media reports connected to the Panama Papers

There weren't found any criminal cases connected to baltic or CIS countries. However, there were listed individuals who can be connected to Russia' president Vladimir Putin. These connections are described here and here. There are also connections to Ukraine's former president Petro Poroshenko (src), Armenia and Azerbaijan high-ranking personalities. Their connections to "Worldwide Company" should be checked, too.