```
In [3]: import pandas as pd
         import seaborn as sns
         import os
         import matplotlib.pyplot as plt
 In [9]: crimes = pd.read excel("theft.xlsx.")
         traffic = pd.read csv("chickens.csv")
In [11]: crimes.columns
Out[11]: Index(['Region', 'Sub Region', 'Country', 'Count', 'Rate', 'Year'], dtype='object')
In [13]: traffic.columns
Out[13]: Index(['Unnamed: 0', 'Domain Code', 'Domain', 'Area Code (M49)', 'Area',
                 'Element Code', 'Element', 'Item Code (CPC)', 'Item', 'Year Code',
                 'Year', 'Unit', 'Value', 'Flag', 'Flag Description', 'Note',
                 'Value Extended'],
               dtype='object')
In [15]: traffic.rename(columns={"Area":"Country"}, inplace=True)
In [17]: traffic
```

Out[17]:

		Unnamed: 0	Domain Code	Domain	Area Code (M49)	Country	Element Code	Element	Item Code (CPC)	ltem	Year Code	Year	Unit	Value	Flag	Flag Description
	0	26	TCL	Crops and livestock products	4	Afghanistan	5609	Import quantity	2151.0	Chickens	2010	2010	1000 An	3892	А	Official figure
	1	27	TCL	Crops and livestock products	4	Afghanistan	5622	lmport value	2151.0	Chickens	2010	2010	1000 USD	3350	Α	Official figure
	2	28	TCL	Crops and livestock products	4	Afghanistan	5909	Export quantity	2151.0	Chickens	2010	2010	1000 An	0	E	Estimated value
	3	29	TCL	Crops and livestock products	4	Afghanistan	5922	Export value	2151.0	Chickens	2010	2010	1000 USD	0	Е	Estimated value
	4	30	TCL	Crops and livestock products	4	Afghanistan	5609	Import quantity	2151.0	Chickens	2011	2011	1000 An	4720	А	Official figure
	•••															
4	1877	42775	TCL	Crops and livestock products	716	Zimbabwe	5922	Export value	2151.0	Chickens	2016	2016	1000 USD	1924	А	Official figure
4	1878	42776	TCL	Crops and livestock products	716	Zimbabwe	5609	Import quantity	2151.0	Chickens	2017	2017	1000 An	403	Α	Official figure

	Unnamed: 0	Domain Code	Domain	Area Code (M49)	Country	Element Code	Element	Item Code (CPC)	Item	Year Code	Year	Unit	Value	Flag	Flag Description
4879	42777	TCL	Crops and livestock products	716	Zimbabwe	5622	lmport value	2151.0	Chickens	2017	2017	1000 USD	2064	А	Official figure
4880	42778	TCL	Crops and livestock products	716	Zimbabwe	5909	Export quantity	2151.0	Chickens	2017	2017	1000 An	211	А	Official figure
4881	42779	TCL	Crops and livestock products	716	Zimbabwe	5922	Export value	2151.0	Chickens	2017	2017	1000 USD	653	А	Official figure

4882 rows × 17 columns

Out[96]:		Unnamed: 0	Domain Code	Domain	Area Code (M49)	Country	Element Code	Element	Item Code (CPC)	ltem	Year Code	•••	Value	Flag	Flag Description	Note	Valı Extend€
	0	130	TCL	Crops and livestock products	8	Albania	5609	Import quantity	2151.0	Chickens	2010		7738	А	Official figure	NaN	773800
	1	131	TCL	Crops and livestock products	8	Albania	5622	lmport value	2151.0	Chickens	2010		5288	Α	Official figure	NaN	52880(
	2	132	TCL	Crops and livestock products	8	Albania	5909	Export quantity	2151.0	Chickens	2010		0	E	Estimated value	NaN	
	3 ro	ws × 22 col	umns														
	4 (•
<pre>In [37]: criminal_traffic["CCM"] = criminal_traffic["Value Extended"] * criminal_traffic["Count"] / 1000000</pre>							900										

Out[37]:		Country	Year	Value Extended	Count	ССМ
	0	Albania	2010	7738000	3978	30781.764
	1	Albania	2010	5288000	3978	21035.664
	2	Albania	2010	0	3978	0.000
	3	Albania	2010	0	3978	0.000
	4	Albania	2011	6901000	4621	31889.521
	•••					
	2119	Uruguay	2014	1976000	101683	200925.608
	2120	Uruguay	2015	454000	104443	47417.122
	2121	Uruguay	2015	2435000	104443	254318.705
	2122	Uruguay	2016	414000	110401	45706.014
	2123	Uruguay	2016	2373000	110401	261981.573

2124 rows × 5 columns

```
In [49]: recent_filter = criminal_traffic["Year"] > 2013
    export_filter = criminal_traffic["Element"] == "Export quantity"
    recent_traffic = criminal_traffic[recent_filter & export_filter]
    recent_traffic
```

Out[49]:

•		Unnamed: 0	Domain Code	Domain	Area Code (M49)	Country	Element Code	Element	Item Code (CPC)	ltem	Year Code	•••	Value	Flag	Flag Description	Note	Ext
	22	152	TCL	Crops and livestock products	8	Albania	5909	Export quantity	2151.0	Chickens	2016		115	Α	Official figure	NaN	
	46	931	TCL	Crops and livestock products	32	Argentina	5909	Export quantity	2151.0	Chickens	2014		196	А	Official figure	NaN	
	50	935	TCL	Crops and livestock products	32	Argentina	5909	Export quantity	2151.0	Chickens	2015		181	Α	Official figure	NaN	
	54	939	TCL	Crops and livestock products	32	Argentina	5909	Export quantity	2151.0	Chickens	2016		127	А	Official figure	NaN	
	86	1426	TCL	Crops and livestock products	36	Australia	5909	Export quantity	2151.0	Chickens	2014		106	А	Official figure	NaN	
	•••																
206	068	40744	TCL	Crops and livestock products	834	United Republic of Tanzania	5909	Export quantity	2151.0	Chickens	2014		5	Α	Official figure	NaN	
20)72	40748	TCL	Crops and livestock products	834	United Republic of Tanzania	5909	Export quantity	2151.0	Chickens	2015		19	А	Official figure	NaN	

	Unnamed: 0	Domain Code	Domain	Area Code (M49)	Country	Element Code	Element	Item Code (CPC)	ltem	Year Code	•••	Value	Flag	Flag Description	Note	Ext
2092	2 41044	TCL	Crops and livestock products	840	United States of America	5909	Export quantity	2151.0	Chickens	2014		90341	Α	Official figure	NaN	90
2096	5 41048	TCL	Crops and livestock products	840	United States of America	5909	Export quantity	2151.0	Chickens	2015		61736	А	Official figure	NaN	61
2100	41052	TCL	Crops and livestock products	840	United States of America	5909	Export quantity	2151.0	Chickens	2016		68995	Α	Official figure	NaN	68

168 rows × 22 columns

```
In [56]: recent_traffic["Year"].unique()
Out[56]: array([2016, 2014, 2015], dtype=int64)
In [58]: recent_traffic["Element"].unique()
Out[58]: array(['Export quantity'], dtype=object)
In [62]: recent_traffic.sort_values(by="CCM", ascending=False)
```

Out[62]:

2092 41044 TCL Crops livestock products 840 United States of products 5909 Export quantity 2151.0 Chickens 2014 90341 A Official figure NaN 2 750 15036 TCL 2009 Crops and figure 5909 Export quantity 2151.0 Chickens 2016 333700 A Official figure NaN 3 746 15032 TCL Crops and figure 276 Germany 5909 Export quantity 2151.0 Chickens 2015 292094 A Official figure NaN 2 2100 41052 TCL Crops and figure Superince Export quantity 2151.0 Chickens 2016 68995 A Official figure NaN 2 2006 41048 TCL 2016 840 Vinited America 5909 Export quantity 2151.0 Chickens 2015 61736 A Official figure <th></th> <th>Unnamed: 0</th> <th>Domain Code</th> <th>Domain</th> <th>Area Code (M49)</th> <th>Country</th> <th>Element Code</th> <th>Element</th> <th>Item Code (CPC)</th> <th>ltem</th> <th>Year Code</th> <th>•••</th> <th>Value</th> <th>Flag</th> <th>Flag Description</th> <th>Note</th> <th></th>		Unnamed: 0	Domain Code	Domain	Area Code (M49)	Country	Element Code	Element	Item Code (CPC)	ltem	Year Code	•••	Value	Flag	Flag Description	Note	
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746 15032 TCL and livestock products 276 Germany 5909 Export quantity 2151.0 Chickens 2015 292094 A Official figure NaN 2 2100 41052 TCL Crops and livestock products 840 States of America 5909 Export quantity 2151.0 Chickens 2016 68995 A Official figure NaN 2096 41048 TCL Crops and livestock products 840 United States of America 5909 Export quantity 2151.0 Chickens 2015 61736 A Official figure NaN 1386 26548 TCL Crops and livestock products 5909 Export quantity 2151.0 Chickens 2016 0 A Official figure NaN 1382 26039 TCL Crops and livestock products 104 Myanmar 5909 Export quantity 2151.0 Chickens 2016 0 A Offic	750) 15036	TCL	and livestock	276	Germany	5909	Export quantity	2151.0	Chickens	2016		333700	А		NaN	3
2100 41052 TCL and livestock products 840 States of America 5909 Export quantity 2151.0 Chickens 2016 68995 A Official figure NaN 2096 41048 TCL Crops and livestock products 840 United States of America 5909 Export quantity 2151.0 Chickens 2015 61736 A Official figure NaN 1386 26548 TCL Crops and livestock products 524 Nepal 5909 Export quantity 2151.0 Chickens 2016 0 A Official figure NaN 1382 26039 TCL Crops and livestock 104 Myanmar 5909 Export quantity 2151.0 Chickens 2016 0 A Official figure NaN	740	5 15032	TCL	and livestock	276	Germany	5909	Export quantity	2151.0	Chickens	2015		292094	Α		NaN	2
2096 41048 TCL and livestock products 840 States of America 5909 Export quantity 2151.0 Chickens 2015 61736 A Official figure NaN 1386 26548 TCL Crops and livestock products 524 Nepal 5909 Export quantity 2151.0 Chickens 2016 0 A Official figure NaN 1382 26039 TCL Crops and livestock 104 Myanmar 5909 Export quantity 2151.0 Chickens 2016 0 A Official figure NaN	2100	41052	TCL	and livestock	840	States of	5909	Export quantity	2151.0	Chickens	2016		68995	А		NaN	
1386 26548 TCL Crops and livestock products 524 Nepal 5909 Export quantity 2151.0 Chickens 2016 0 A Official figure NaN 1382 26039 TCL Crops and livestock 104 Myanmar 5909 Export quantity 2151.0 Chickens 2016 0 A Official figure NaN	2096	5 41048	TCL	and livestock	840	States of	5909	Export quantity	2151.0	Chickens	2015	•••	61736	А		NaN	
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	1382	2 26039	TCL	and livestock	104	Myanmar	5909	Export quantity	2151.0	Chickens	2016		0	А		NaN	

	Unnamed: 0	Domain Code	Domain	Area Code (M49)	Country	Element Code	Element	Item Code (CPC)	ltem	Year Code	•••	Value	Flag	Flag Description	Note
1788	34464	TCL	Crops and livestock products	702	Singapore	5909	Export quantity	2151.0	Chickens	2015		0	E	Estimated value	NaN
1792	34468	TCL	Crops and livestock products	702	Singapore	5909	Export quantity	2151.0	Chickens	2016		0	E	Estimated value	NaN
1784	34460	TCL	Crops and livestock products	702	Singapore	5909	Export quantity	2151.0	Chickens	2014		0	E	Estimated value	NaN

168 rows × 22 columns

```
In [70]: pivot_RecentTraffic = recent_traffic.pivot_table(index=["Region", "Country"], columns="Year", values="CCM")
pivot_RecentTraffic
```

Out[70]:		Year	2014	2015	2016
	Region	Country			
	Africa	Burundi	0.807	NaN	NaN
		Kenya	2546.145	3221.900	104.335
		Madagascar	3.315	4.440	NaN
		Morocco	NaN	1214.925	NaN
		Senegal	NaN	70.084	28.182
	•••	•••			•••
	Europe	Slovenia	24473.739	24416.658	37291.485
		Spain	2987067.720	4564380.184	4330835.889
		Sweden	1798242.150	1547029.666	2208454.668
		Switzerland	234777.152	212972.748	238350.189
	Oceania	Australia	56768.936	93716.058	128167.704

68 rows × 3 columns

```
Africa
Americas
Asia
Europe
Oceania
```

```
In [78]: for name, group in agents:
    print(group)
```

	Unnamed: 0 Domai	in Code			Doma	ain Area	Code	(M49)	\
352	6014		ons and	livestoc			couc	108	`
1106	20739		•	livestoc	-			404	
1110	20743		•	livestoc	-			404	
1114	20747		•	livestoc	-			404	
1252	23362		-	livestoc	•			450	
1256	23366		•	livestoc	•			450	
1366	25632		-	livestoc	•			504	
1732	33690		-	livestoc	•			686	
1736	33694		•	livestoc				686	
2032	39444			livestoc				800	
2068	40744		•	livestoc	-			834	
2072	40748		•	livestoc	-			834	
2072	40740	162 61	ops and	11103000	c produc			054	
		Countr	v Elem	ent Code		Element	\		
352		Burund	-	5909	Export	quantity	`		
1106		Keny		5909	•	quantity			
1110		Keny		5909		quantity			
1114		Keny		5909	•	quantity			
1252		Madagasca		5909	•	quantity			
1256		Madagasca		5909		quantity			
1366		Moroco		5909		quantity			
1732		Senega		5909		quantity			
1736		Senega		5909	•	quantity			
2032		Ugand		5909	-	quantity			
2068	United Republic	_		5909		quantity			
2072	United Republic			5909	•	quantity			
					•	, ,			
	Item Code (CPC)	Item	Year C	ode	Value F	-lag \			
352	2151.0	Chickens	2	014	1	A			
1106	2151.0	Chickens	2	014	2055	Χ			
1110	2151.0	Chickens	2	015	2900	Χ			
1114	2151.0	Chickens	2	016	77	Α			
1252	2151.0	Chickens	2	014	17	Α			
1256	2151.0	Chickens	2	015	20	Α			
1366	2151.0	Chickens	2	015	25	Α			
1732	2151.0	Chickens		015	28	Α			
1736	2151.0	Chickens		016	183	Α			
2032	2151.0	Chickens		014	214	Α			
2068	2151.0	Chickens		014	5	Α			
2072	2151.0	Chickens		015	19	Α			

```
Flag Description \
352
                              Official figure
1106
      Figure from international organizations
1110
      Figure from international organizations
1114
                               Official figure
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                                                 Note Value Extended Region \
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352
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       Eastern Africa
                                 8.158281
352
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                        1239
                                 2.692059
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                                 2.352007
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1114
                        1355
                                 2.794543
                                            104.335
1252
       Eastern Africa
                         195
                                 0.826628
                                              3.315
1256
       Eastern Africa
                          222
                                 0.916065
                                              4.440
1366
      Northern Africa
                       48597
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                                           1214.925
       Western Africa
1732
                        2503
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1736
       Western Africa
                         154
                                0.998598
                                             28.182
2032
       Eastern Africa
                       17059
                                43.928750
                                           3650.626
2068
       Eastern Africa
                        1043
                                              5.215
                                1.996750
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2072 Eastern Africa 179 0.332220 3.401

[12 r	ows x 22 columns	_		
	Unnamed: 0 Doma	in Code	Domai	n Area Code (M49) '
46	931	TCL	Crops and livestock products	s 32
50	935	TCL	Crops and livestock products	
54	939	TCL	Crops and livestock products	
166	2851	TCL	Crops and livestock products	
168	2853	TCL	Crops and livestock products	
170	2855	TCL	Crops and livestock products	
404	6641	TCL	Crops and livestock products	s 124
408	6645	TCL	Crops and livestock products	
412	6649	TCL	Crops and livestock products	
454	8866	TCL	Crops and livestock products	
458	8870	TCL	Crops and livestock products	
462	8874	TCL	Crops and livestock products	
568	11710	TCL	Crops and livestock products	
572	11714	TCL	Crops and livestock products	
576	11718	TCL	Crops and livestock products	
598	11909	TCL	Crops and livestock products	
602	11913	TCL	Crops and livestock products	
630	12494	TCL	Crops and livestock products	
634	12498	TCL	Crops and livestock products	
812	16162	TCL	Crops and livestock products	
816	16166	TCL	Crops and livestock products	
820	16170	TCL	Crops and livestock products	
860	16950	TCL	Crops and livestock products	
864	16954	TCL	Crops and livestock products	
868	16958	TCL	Crops and livestock products	
1020	19678	TCL	Crops and livestock products	
1024	19682	TCL	Crops and livestock products	
1492	29502	TCL	Crops and livestock products	
1496	29506	TCL	Crops and livestock products	
1500	29510	TCL	Crops and livestock products	
1534	29945	TCL	Crops and livestock products	
1538	29949	TCL	Crops and livestock products	
1542	29953	TCL	Crops and livestock products	
2092	41044	TCL	Crops and livestock products	
2096	41048	TCL	Crops and livestock products	
2100	41052	TCL	Crops and livestock products	s 840

	Country	Element Code Element \
46	Argentina	5909 Export quantity
50	Argentina	5909 Export quantity
54	Argentina	5909 Export quantity
166	Barbados	5909 Export quantity
168	Barbados	5909 Export quantity
170	Barbados	5909 Export quantity
404	Canada	5909 Export quantity
408	Canada	5909 Export quantity
412	Canada	5909 Export quantity
454	Colombia	5909 Export quantity
458	Colombia	5909 Export quantity
462	Colombia	5909 Export quantity
568	Dominican Republic	5909 Export quantity
572	Dominican Republic	5909 Export quantity
576	Dominican Republic	5909 Export quantity
598	Ecuador	5909 Export quantity
602	Ecuador	5909 Export quantity
630	El Salvador	5909 Export quantity
634	El Salvador	5909 Export quantity
812	Guatemala	5909 Export quantity
816	Guatemala	5909 Export quantity
820	Guatemala	5909 Export quantity
860	Honduras	5909 Export quantity
864	Honduras	5909 Export quantity
868	Honduras	5909 Export quantity
1020	Jamaica	5909 Export quantity
1024	Jamaica	5909 Export quantity
1492	Panama	5909 Export quantity
1496	Panama	5909 Export quantity
1500	Panama	5909 Export quantity
1534	Peru	5909 Export quantity
1538	Peru	5909 Export quantity
1542	Peru	5909 Export quantity
2092	United States of America	5909 Export quantity
2096	United States of America	5909 Export quantity
2100	United States of America	5909 Export quantity
	Item Code (CPC) Item	Year Code Value Flag \
46	2151.0 Chickens	2014 196 A
50	2151.0 Chickens	2015 181 A

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54
                2151.0
                         Chickens
                                          2016
                                                         127
                                                 . . .
                                                                Α
166
                2151.0
                         Chickens
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404
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408
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576
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598
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602
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812
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816
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820
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860
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1500
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1534
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1538
                         Chickens
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1542
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                         Chickens
2092
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2100
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                                Flag Description \
                                 Official figure
46
50
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166
168
                                 Official figure
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170	Official figure					
404	Official figure					
408	Official figure					
412	Official figure					
454	Official figure					
458	Official figure					
462	Official figure					
568	Imputed value					
572	Official figure					
576	Official figure					
598	Official figure					
602	Official figure					
630	Official figure					
634	Official figure					
812	Official figure					
816	Official figure					
820	Official figure					
860	Official figure					
864	Official figure					
868	Official figure					
1020	Official figure					
1024	Official figure					
1492	Figure from international organizations					
1496	Figure from international organizations					
1500	Figure from international organizations					
1534	Official figure					
1538	Official figure					
1542	Official figure					
2092	Official figure					
2096	Official figure					
2100	Official figure					
		Note	Value	Extended	Region	\
46		NaN		196000	Americas	
50		NaN		181000	Americas	
54		NaN		127000	Americas	
166		NaN		47000	Americas	
168		NaN		47000	Americas	
170		NaN		43000	Americas	
404		NaN		6843000	Americas	
408		NaN		5923000	Americas	

412				NaN	5511000	Americas
454				NaN	1461000	Americas
458				NaN	1246000	Americas
462				NaN	372000	Americas
568				NaN	3707000	Americas
572				NaN	2099000	Americas
576				NaN	941000	Americas
598				NaN	375000	Americas
602				NaN	90000	Americas
630				NaN	16654000	Americas
634				NaN	13938000	Americas
812				NaN	3134000	Americas
816				NaN	2637000	Americas
820				NaN	2615000	Americas
860				NaN	804000	Americas
864				NaN	1227000	Americas
868				NaN	1052000	Americas
1020				NaN	1000	Americas
1024				NaN	21000	Americas
1492	Estimated data us	ing tradi	ng partners	database	195000	Americas
1496	Estimated data us	_			412000	Americas
1500	Estimated data us				117000	Americas
1534				NaN	929000	Americas
1538				NaN	857000	Americas
1542				NaN	431000	Americas
2092				NaN	90341000	Americas
2096				NaN	61736000	Americas
2100				NaN	68995000	Americas
	Sub Region	Count	Rate	CCM		
46	South America	287063	667.875481	5.626435e+04		
50	South America	271921	626.289723	4.921770e+04		
54	South America	270125	616.213137	3.430588e+04		
166	Caribbean	1958	690.932830	9.202600e+01		
168	Caribbean	1694	596.023461			
170	Caribbean	1701	597.095609			
404	Northern America	487161	1368.248060			
408	Northern America	502620	1398.119801			
412	Northern America	511054	1408.622527			
454	South America	74111	155.070175			
458	South America	78595	162.963142			
		•		_		

462	South America	86564	178.016166	3.220181e+04		
568	Caribbean	801	7.697598	2.969307e+03		
572	Caribbean	1117	10.609405	2.344583e+03		
576	Caribbean	874	8.210897	8.224340e+02		
598	South America	33572	207.948679	1.258950e+04		
602	South America	31782	193.998345	2.860380e+03		
630	Central America	7533	119.929523	1.254546e+05		
634	Central America	8539	135.271759	1.190166e+05		
812	Central America	45476	285.589421	1.425218e+05		
816	Central America	47148	290.098175	1.243293e+05		
820	Central America	49114	296.151108	1.284331e+05		
860	Central America	3001	34.066596	2.412804e+03		
864	Central America	2911	32.485834	3.571797e+03		
868	Central America	3088	33.887474	3.248576e+03		
1020	Caribbean	447	15.617974	4.470000e-01		
1024	Caribbean	335	11.664613	7.035000e+00		
1492	Central America	21252	544.366706	4.144140e+03		
1496	Central America	18877	475.581149	7.777324e+03		
1500	Central America	15983	396.279657	1.870011e+03		
1534	South America	89599	289.277680	8.323747e+04		
1538	South America	94480	301.115437	8.096936e+04		
1542	South America	94907	298.790019	4.090492e+04		
2092	Northern America	5809100	1828.377919	5.247999e+08		
2096	Northern America	5723500	1788.989776	3.533460e+08		
2100	Northern America	5638500	1749.839046	3.890283e+08		
[36 r	ows x 22 columns]					
	Unnamed: 0 Domain			Domain	Area Code (M49)	
138	2028		ops and lives	•	31	
142	2036		ops and lives	•	31	
722	14734		ops and lives		268	
940	17948		ops and lives	•	360	
944	17952		ops and lives	•	360	
948	17956		ops and lives	•	360	
1050	19931		ops and lives	•	392	
1082	20451		ops and lives	•	398	
1086	20455		rops and lives	•	398	
1180	21993		ops and lives		422	
1184	21997		ops and lives		422	
1382	26039		ops and lives	•	104	
1386	26548	TCL Cr	ops and lives	tock products	524	

1464	29179	TCL	Cnonc	and	livostock	products	586	:
1468	29173	TCL	-			products	586	
1472	29183	TCL				products	586	
1560	30179	TCL	-			products	608	
1562	30173	TCL				products	608	
1564	30183	TCL				products	608	
1642	31384	TCL	-			products	410	
1646	31388	TCL	-			products	410	
1784	34460	TCL	-			products	702	
1788	34464	TCL	-			products	702	
1792	34468	TCL	-			products	702	
1896	36324	TCL	-			products	144	
1900	36328	TCL	-			products	144	
1904	36332	TCL	-			products	144	
1984	37981	TCL	-			products	764	
1988	37985	TCL	-			products	764	
1992	37989	TCL	-			products	764	ļ.
2048	40064	TCL				products	784	
2052	40068	TCL				products	784	
2056	40072	TCL	-			products	784	ļ
	Coun	-	lement	Code	!	Element	Item Code (CPC)	\
138	Azerbai	jan	lement	Code 5909		Element quantity	Item Code (CPC) 2151.0	\
138 142	Azerbai Azerbai	jan jan	lement		Export		•	\
	Azerbai Azerbai Geor	jan jan gia	lement	5909	Export Export	quantity	2151.0	\
142	Azerbai Azerbai	jan jan gia	lement	5909 5909	Export Export Export	quantity quantity	2151.0 2151.0	\
142 722	Azerbai Azerbai Geor Indone Indone	jan jan gia sia sia	lement	5909 5909 5909	Export Export Export Export	quantity quantity quantity	2151.0 2151.0 2151.0	\
142 722 940	Azerbai Azerbai Geor Indone	jan jan gia sia sia	lement	5909 5909 5909 5909	Export Export Export Export Export Export Export	quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944	Azerbai Azerbai Geor Indone Indone Indone	jan jan gia sia sia	lement	5909 5909 5909 5909 5909	Export Export Export Export Export Export Export Export Export	quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948	Azerbai Azerbai Geor Indone Indone Indone	jan jan gia sia sia sia pan	lement	5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086	Azerbai Azerbai Geor Indone Indone Indone Ja Kazakhs Kazakhs	jan jan gia sia sia sia pan tan	lement	5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086 1180	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba	jan jan gia sia sia sia pan tan tan	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba Leba	jan jan gia sia sia sia pan tan tan non	lement	5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086 1180	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba Leba	jan jan gia sia sia pan tan tan non mar	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086 1180 1184 1382 1386	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba Leba Myan	jan jan gia sia sia sia pan tan tan non mar	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086 1180 1184 1382 1386 1464	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba Leba Myan Ne	jan jan gia sia sia sia pan tan non mar pal	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086 1180 1184 1382 1386 1464	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba Leba Myan Ne Pakis	jan jan gia sia sia sia pan tan non mar pal tan	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086 1180 1184 1382 1386 1464 1468	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba Leba Myan Ne Pakis Pakis	jan jan gia sia sia sia pan tan non mar pal tan tan	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	\
142 722 940 944 948 1050 1082 1086 1180 1184 1382 1386 1464 1468 1472	Azerbai Azerbai Geor Indone Indone Indone Kazakhs Kazakhs Leba Leba Myan Ne Pakis Pakis Pakis	jan jan gia sia sia sia pan tan non mar pal tan tan tan	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	
142 722 940 944 948 1050 1082 1086 1180 1184 1382 1386 1464 1468	Azerbai Azerbai Geor Indone Indone Ja Kazakhs Kazakhs Leba Leba Myan Ne Pakis Pakis	jan jan gia sia sia sia pan tan non mar pal tan tan nes	lement	5909 5909 5909 5909 5909 5909 5909 5909	Export	quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity quantity	2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0 2151.0	

1642	Republic of	Korea		59	909	Export	quantity	2151.0
1646	Republic of	Korea		59	909	Export	${\sf quantity}$	2151.0
1784	Sing	gapore		59	909	Export	${\sf quantity}$	2151.0
1788	Sing	gapore		59	909	Export	${\sf quantity}$	2151.0
1792	Sing	gapore		59	909	Export	quantity	2151.0
1896	Sri	Lanka		59	909	Export	quantity	2151.0
1900	Sri	Lanka		59	909	Export	quantity	2151.0
1904	Sri	Lanka		59	909	Export	quantity	2151.0
1984	Tha	ailand		59	909		quantity	2151.0
1988		ailand		59	909	•	quantity	2151.0
1992		ailand		59	909		quantity	2151.0
2048	United Arab Emi	irates		59	909		quantity	2151.0
2052	United Arab Emi	irates		59	909		quantity	2151.0
2056	United Arab Emi	irates		59	909	Export	quantity	2151.0
				_	_			
	Item Year		• • •	Value				
138	Chickens	2014	• • •	18		4		
142	Chickens	2016	• • •	2		(
722	Chickens	2014	• • •	204		Α		
940	Chickens	2014	• • •	2		Α		
944	Chickens	2015	• • •	11		Α		
948	Chickens	2016	• • •	6		4		
1050	Chickens	2016	• • •	34		Α		
1082	Chickens	2014	• • •	48		Ē		
1086	Chickens	2015	• • •	103		4		
1180	Chickens	2014	• • •	1935		4		
1184	Chickens	2015	• • •	19		4		
1382	Chickens	2016	• • •	0		A		
1386	Chickens	2016	• • •	0		Α		
1464	Chickens	2014	• • •	2469		Α		
1468	Chickens	2015	• • •	2147		Α		
1472	Chickens	2016	• • •	4747		Α		
1560	Chickens	2014	• • •	170		Α		
1562	Chickens	2015	• • •	159		4		
	Chickens	2016	• • •	161		4		
1642	Chickens	2015	• • •	6		4		
1646	Chickens	2016	• • •	8		A		
1784	Chickens	2014	• • •	0		Ξ		
1788	Chickens	2015	• • •	0		Ξ		
1792	Chickens	2016	• • •	0		Ξ		
1896	Chickens	2014	• • •	131	1	4		

1904 Chickens 2016 213 A 1984 Chickens 2014 3873 A 1988 Chickens 2015 4941 A 1992 Chickens 2016 8544 A 2048 Chickens 2014 3175 A 2052 Chickens 2015 1800 A 2056 Chickens 2016 958 A Flag Description \ 138	1000	Chickens	2015		292	۸	
1984 Chickens 2014 3873 A 1988 Chickens 2015 4941 A 1992 Chickens 2016 8544 A 2048 Chickens 2014 3175 A 2052 Chickens 2015 1800 A 2056 Chickens 2016 958 A Flag Description \ 138 Official figure 142 Figure from international organizations 722 Official figure 944 Official figure 944 Official figure 1050 Official figure 1082 Estimated value 1086 Official figure 1180 Official figure 1184 Official figure 1382 Official figure 1386 Official figure 1468 Official figure 1468 Official figure 1469 Official figure 1460 Official figure 1460 Official figure 1461 Official figure 1462 Official figure 1564 Official figure 1565 Official figure 1566 Official figure 1567 Official figure 1568 Official figure 1569 Official figure 1560 Official figure 1560 Official figure 1561 Official figure 1562 Official figure 1563 Official figure 1564 Official figure 1565 Official figure 1566 Official figure 1567 Official figure 1568 Official figure 1569 Official figure 1569 Official figure 1560 Official figure 1560 Official figure 1561 Official figure 1562 Official figure 1563 Official figure 1564 Official figure 1565 Official figure 1566 Official figure 1567 Official figure 1568 Official figure 1588 Official figure 1590 Official figure 1590 Official figure 1590 Official figure 1590 Official figure							
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1564 Official figure 1642 Official figure 1646 Official figure 1784 Estimated value 1788 Estimated value 1792 Estimated value 1896 Official figure 1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure	1562					_	
1642 Official figure 1646 Official figure 1784 Estimated value 1788 Estimated value 1792 Estimated value 1896 Official figure 1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure						_	
1646 Official figure 1784 Estimated value 1788 Estimated value 1792 Estimated value 1896 Official figure 1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure	1642					•	
1784 Estimated value 1788 Estimated value 1792 Estimated value 1896 Official figure 1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure						•	
1792 Estimated value 1896 Official figure 1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure	1784					_	
1896 Official figure 1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure	1788			Es	stimate	d value	
1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure	1792			Es	stimate	d value	
1900 Official figure 1904 Official figure 1984 Official figure 1988 Official figure 1992 Official figure	1896						
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1984 Official figure 1988 Official figure 1992 Official figure							
1988 Official figure 1992 Official figure	1984						
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2052			Offic	cial figu	re			
2056			Offic	cial figur	re			
					Note	Value Extended	Region	\
138					NaN	18000	Asia	
142	Estimated dat	ta using	trading	partners	database	2000	Asia	
722					NaN	204000	Asia	
940					NaN	2000	Asia	
944					NaN	11000	Asia	
948					NaN	6000	Asia	
1050					NaN	34000	Asia	
1082					NaN	48000	Asia	
1086					NaN	103000	Asia	
1180					NaN	1935000	Asia	
1184					NaN	19000	Asia	
1382					NaN	0	Asia	
1386					NaN	0	Asia	
1464					NaN	2469000	Asia	
1468					NaN	2147000	Asia	
1472					NaN	4747000	Asia	
1560					NaN	170000	Asia	
1562					NaN	159000	Asia	
1564					NaN	161000	Asia	
1642					NaN	6000	Asia	
1646					NaN	8000	Asia	
1784					NaN	0	Asia	
1788					NaN	0	Asia	
1792					NaN	0	Asia	
1896					NaN	131000	Asia	
1900					NaN	292000	Asia	
1904					NaN	213000	Asia	
1984					NaN	3873000	Asia	
1988					NaN	4941000	Asia	
1992					NaN	8544000	Asia	
2048					NaN	3175000	Asia	
2052					NaN	1800000	Asia	
2056					NaN	958000	Asia	
	Sub F	Region	Count	Rat	te	CCM		
138	Westerr	n Asia	5861	61.67025	57 105	5.498		
142	Westerr	n Asia	2407	24.77883	L2 4	4.814		

722	Western	Asia	9558	239.408107	1949.832		
940	South-Eastern	Asia	24538	9.617800	49.076		
944	${\sf South-Eastern}$	Asia	26298	10.186623	289.278		
948	${\sf South-Eastern}$	Asia	26636	10.206369	159.816		
1050	Eastern	Asia	374497	293.311131	12732.898		
1082	Central	Asia	207002	1183.695197	9936.096		
1086	Central	Asia	208907	1176.964185	21517.421		
1180	Western	Asia	28411	507.042394	54975.285		
1184	Western	Asia	25030	427.755103	475.570		
1382	South-Eastern	Asia	3125	5.909093	0.000		
1386	Southern	Asia	1274	4.396578	0.000		
1464	Southern	Asia	42747	23.038460	105542.343		
1468	Southern	Asia	38902	20.541712	83522.594		
1472	Southern	Asia	40388	20.907265	191721.836		
1560	South-Eastern	Asia	112857	112.741723	19185.690		
1562	South-Eastern	Asia	82751	81.354662	13157.409		
1564	South-Eastern	Asia	49634	48.041999	7991.074		
1642	Eastern	Asia	245853	485.936361	1475.118		
1646	Eastern	Asia	203037	399.865507	1624.296		
1784	South-Eastern	Asia	16182	297.007787	0.000		
1788	South-Eastern	Asia	15207	274.729543	0.000		
1792	South-Eastern	Asia	13665	243.356900	0.000		
1896	Southern	Asia	10980	53.240070	1438.380		
1900	Southern	Asia	6425	31.017609	1876.100		
1904	Southern	Asia	6163	29.646855	1312.719		
1984	South-Eastern	Asia	39898	58.316110	154524.954		
1988	South-Eastern	Asia	39371	57.343979	194532.111		
1992	South-Eastern	Asia	33042	48.020406	282310.848		
2048	Western	Asia	6541	72.109976	20767.675		
2052	Western	Asia	6211	67.847882	11179.800		
2056	Western	Asia	4803	51.722587	4601.274		
[33 rd	ows x 22 column	ns]					
	Unnamed: 0 Dor	main (Code		Domain	Area Code (M49)	\
22	152		TCL Cro	ps and livest	ock products	8	
110	1687			ps and livest		40	
114	1691			ps and livest		40	
118	1695		TCL Cro	ps and livest	ock products	40	
190	3099		TCL Cro	ps and livest	ock products	112	
	• • •				• • •		
1928	36963		TCL Cro	ps and livest	ock products	752	
					-		

1932	36967	TCL	Crops and	l livestock	products	752
1952	37275	TCL	Crops and	llivestock	products	756
1956	37279	TCL	Crops and	llivestock	products	756
1960	37283	TCL	Crops and	l livestock	products	756
	Country	v Element Co	, do	Element	Itam Cada (CDC)	Item
22	Country Albania				Item Code (CPC) 2151.0	
				quantity		
110	Austria		•	quantity	2151.0	
114	Austria		•	quantity	2151.0	
118	Austria		•	quantity	2151.0	
190	Belarus		•	quantity	2151.0	
1020	· · ·			•••	24.54	
1928	Sweden			quantity	2151.0	
1932	Sweden		•	quantity	2151.0	
1952	Switzerland		•	quantity	2151.0	
1956	Switzerland		•	quantity	2151.0	
1960	Switzerland	59	09 Export	quantity	2151.0) Chickens
	Vaan Cada	\/alua [lag Flag	Docenintion	Note Value Ext	andod \
22	Year Code	Value F	0 0		Note Value Ext	
22		115		cial figure		.15000
110		12669		cial figure		69000
114		14574		cial figure		74000
118	2016	16633		cial figure		33000
190	2014	139	A Offi	cial figure.	e NaN 1	.39000
• • •	• • •				• • •	• • •
1928	2015	3871		cial figure		371000
1932	2016	5883		cial figure		883000
1952	2014	1366		cial figure		66000
1956	2015	1374	A Offi	cial figure.	e NaN 13	74000
1960	2016	1659	A Offi	cial figure	e NaN 16	59000
		6 l D .	6 1	Б. 1	CCM	
	Region	Sub Region		Rate		
22		thern Europe		192.443703		
110	•	stern Europe		1717.354591		
114	•	stern Europe		1616.079539		
118	•	stern Europe		1649.900554	2387351.123	
190	Europe Ea	stern Europe	40528	427.291899	5633.392	
		=				
1928	•	thern Europe		4093.238484		
1932	•	thern Europe		3816.866696		
1952	Europe We	stern Europe	171872	2088.453805	234777.152	

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1956 Europe
                      Western Europe 155002 1863.056534
                                                           212972.748
       1960 Europe Western Europe 143671 1712.422446 238350.189
        [84 rows x 22 columns]
           Unnamed: 0 Domain Code
                                                        Domain Area Code (M49) \
        86
                 1426
                              TCL Crops and livestock products
                                                                             36
                 1428
        88
                              TCL Crops and livestock products
                                                                             36
        90
                 1430
                              TCL Crops and livestock products
                                                                             36
             Country Element Code
                                            Element Item Code (CPC)
                                                                         Item \
        86 Australia
                              5909
                                    Export quantity
                                                             2151.0 Chickens
        88 Australia
                              5909
                                    Export quantity
                                                             2151.0 Chickens
        90 Australia
                                    Export quantity
                                                             2151.0 Chickens
                              5909
           Year Code ... Value Flag Flag Description Note Value Extended
                                                                             Region \
                                       Official figure NaN
                2014
        86
                             106
                                                                    106000
                                                                            Oceania
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                2015
                             167
                                       Official figure NaN
                                                                    167000 Oceania
                                       Official figure NaN
        90
                2016
                             216
                                                                    216000 Oceania
                          Sub Region
                                       Count
                                                     Rate
                                                                 CCM
        86 Australia and New Zealand 535556 2281.420977
                                                           56768,936
        88 Australia and New Zealand 561174 2357.917938
                                                          93716,058
        90 Australia and New Zealand 593369 2460.144673 128167.704
        [3 rows x 22 columns]
In [80]: for name, group in agents: #qui creo cartelle con le singole regioni utilizzando la libreria os
             os.mkdir(name)
        #qualora volessi rimandare la precedente formula, mi restituirebbe errore inquanto qià essitenti;
In [82]:
         #pertanto creo la sequente formula per sovrascrivere semplicemnte le cartelle
         for name, group in agents:
             try:
                 os.mkdir(name)
             except:
                 print(f"Folder {name} already exist. Overwriting files")
```

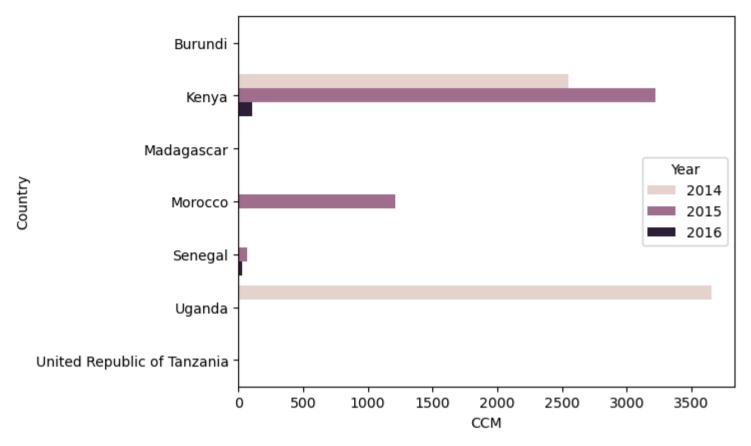
```
Folder Africa already exist. Overwriting files
Folder Americas already exist. Overwriting files
Folder Asia already exist. Overwriting files
Folder Europe already exist. Overwriting files
Folder Oceania already exist. Overwriting files
```

```
In [92]: for name, group in agents:
    try:
        os.mkdir(name)
    except:
        print(f"Folder {name} already exist. Overwriting files")

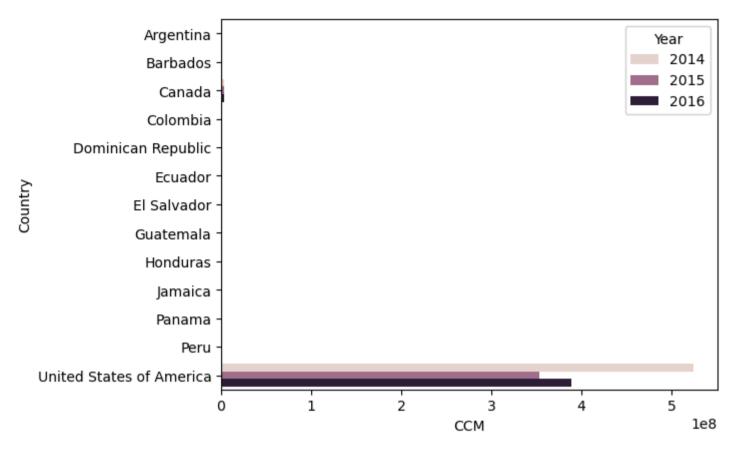
        group.to_csv(name + "/raw.csv")
        g_pivot = group.pivot_table(index=["Sub Region", "Country"], columns= "Year", values=["CCM", "Count", "Value Extended"], mg_pivot.to_excel(name + "/pivot.xlsx")

        sns.barplot(data=group, y="Country", x="CCM", hue="Year")
        plt.savefig(name + "/plot.png")
        plt.show()
```

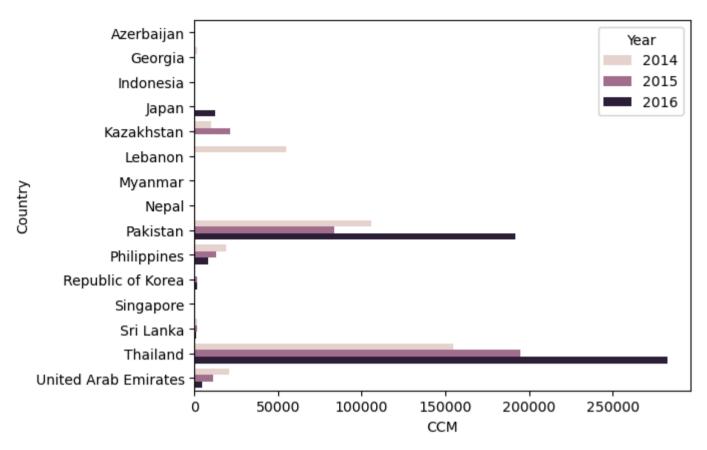
Folder Africa already exist. Overwriting files



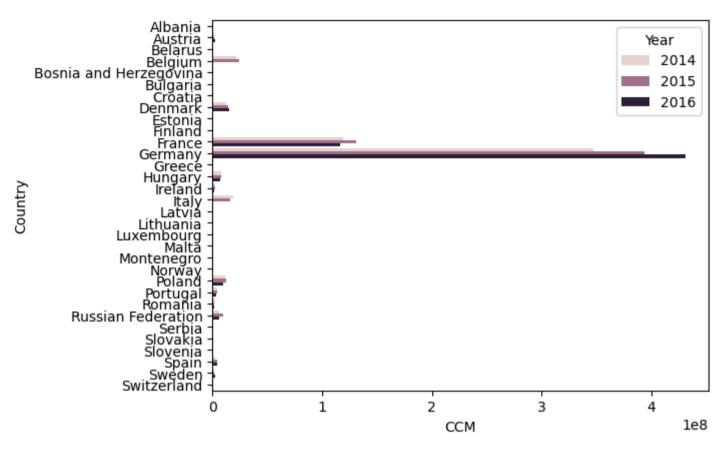
Folder Americas already exist. Overwriting files



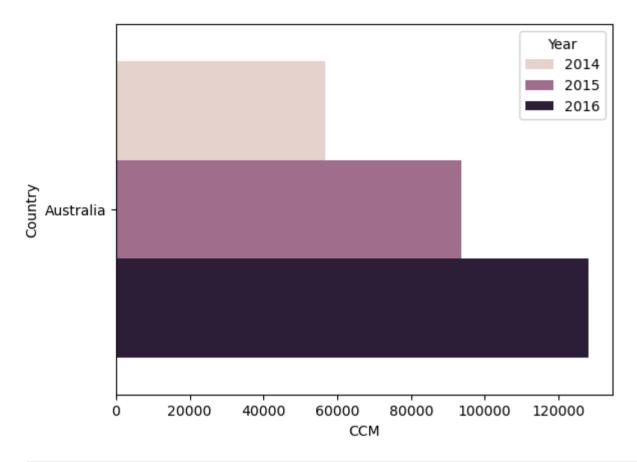
Folder Asia already exist. Overwriting files



Folder Europe already exist. Overwriting files



Folder Oceania already exist. Overwriting files



In []: