In [1]: import wbgapi as wb

In [3]:

#Data Frame-1 #Climate change indicators

indicator_ids1 = ['EG.ELC.ACCS.ZS','ER.H2O.FWTL.ZS','AG.LND.FRST.ZS','AG.LND.IRIG.AG
country_codes = ['USA','CAN','IND','JPN','CHN','THA','CRI','BAN','AUS','AFG']
my_dataframe1 = wb.data.DataFrame(indicator_ids1, country_codes, mrv=10)
print(my_dataframe1)

		YR2011	YR2012	YR2013	YR2014	\
economy	series					
AFG	AG.LND.FRST.ZS	1.850994	1.850994	1.850994	1.850994	
	AG.LND.IRIG.AG.ZS	5.391717	5.465576	5.518333	5.742548	
	EG.ELC.ACCS.ZS	43.222019	69.100000	68.982941	89.500000	
	ER.H2O.FWTL.ZS	NaN	43.015907	NaN	NaN	
AUS	AG.LND.FRST.ZS	16.955310	17.047689	17.140067	17.232446	
	AG.LND.IRIG.AG.ZS	0.495556	0.553121	0.639634	0.630650	
	EG.ELC.ACCS.ZS	100.000000	100.000000	100.000000	100.000000	
	ER.H2O.FWTL.ZS	NaN	3.133875	NaN	NaN	
CAN	AG.LND.FRST.ZS	38.734864	38.730258		38.721045	
	AG.LND.IRIG.AG.ZS	NaN	NaN	NaN	NaN	
	EG.ELC.ACCS.ZS	100.000000	100.000000	100.000000	100.000000	
	ER.H2O.FWTL.ZS	NaN	1.278596	NaN	NaN	
CHN		21.491096		21.902095	22.107595	
	AG.LND.IRIG.AG.ZS	10.206754	NaN	NaN	NaN	
	EG.ELC.ACCS.ZS	99.857224	99.964874	99.997009	100.000000	
	ER.H2O.FWTL.ZS	NaN	21.286882	NaN	NaN	
CRI	AG.LND.FRST.ZS	56.552409	56.872934	57.193459	57.513984	
	AG.LND.IRIG.AG.ZS	NaN	NaN	NaN	NaN	
	EG.ELC.ACCS.ZS	99.232348	99.503298	99.563517	99.359291	
	ER.H2O.FWTL.ZS	NaN	2.069912	NaN	NaN	
IND		23.463822	23.553422	23.643023	23.732624	
	AG.LND.IRIG.AG.ZS	35.398787	36.329478	36.785607	37.900969	
	EG.ELC.ACCS.ZS	67.600000	79.900000	80.738045	83.585213	
	ER.H2O.FWTL.ZS	NaN	44.778700	NaN	NaN	
JPN	AG.LND.FRST.ZS	68.481756	68.469684	68.457613	68.445542	
	AG.LND.IRIG.AG.ZS	34.509976	34.710925	35.191714	34.816290	
	EG.ELC.ACCS.ZS	100.000000	100.000000	100.000000	100.000000	
	ER.H2O.FWTL.ZS	NaN	18.888837	NaN	NaN	
THA	AG.LND.FRST.ZS	39.285560	39.280863	39.276165	39.271467	
	AG.LND.IRIG.AG.ZS	NaN	NaN	NaN	NaN	
	EG.ELC.ACCS.ZS	99.359283	99.108624	99.427063	99.483643	
	ER.H2O.FWTL.ZS	NaN	25.526503	NaN	NaN	
USA	AG.LND.FRST.ZS	33.779470	33.809533	33.839596	33.869659	
	AG.LND.IRIG.AG.ZS	NaN	5.604332	NaN	NaN	
	EG.ELC.ACCS.ZS	100.000000	100.000000	100.000000	100.000000	
	ER.H2O.FWTL.ZS	NaN	15.224927	NaN	NaN	
		YR2015	YR2016	YR2017	YR2018	\
economy	series					
AFG	AG.LND.FRST.ZS	1.850994	1.850994	1.850994	1.850994	
	AG.LND.IRIG.AG.ZS	5.710894	6.481140	5.990504	5.134629	
	EG.ELC.ACCS.ZS	71.500000	97.700000	97.700000	98.715622	
	ER.H2O.FWTL.ZS	NaN	NaN	43.015907	NaN	
AUS	AG.LND.FRST.ZS	17.324825	17.425488	17.422914	17.421315	
	AG.LND.IRIG.AG.ZS	0.617346	0.626675	0.603490	0.640299	
	EG.ELC.ACCS.ZS	100.000000	100.000000	100.000000	100.000000	
	ER.H2O.FWTL.ZS	NaN	NaN	3.240854	NaN	
CAN	AG.LND.FRST.ZS	38.716438	38.712013	38.707888	38.703763	
	AG.LND.IRIG.AG.ZS	1.559886	NaN	NaN	NaN	
	EG.ELC.ACCS.ZS	100.000000	100.000000	100.000000	100.000000	

	ER.H2O.FWTL.ZS	NaN	NaN	1.253684	NaN
CHN	AG.LND.FRST.ZS				
	AG.LND.IRIG.AG.ZS	NaN	NaN	NaN	NaN
	EG.ELC.ACCS.ZS		100.000000	100.000000	100.000000
	ER.H2O.FWTL.ZS	NaN		21.038038	NaN
CRI	AG.LND.FRST.ZS				
	AG.LND.IRIG.AG.ZS				
	EG.ELC.ACCS.ZS			99.600000	99.700000
	ER.H2O.FWTL.ZS	NaN			
IND	AG.LND.FRST.ZS	23.822225		24.001426	24.091027
	AG.LND.IRIG.AG.ZS				
	EG.ELC.ACCS.ZS	88.000000	89.534882	92.456833	95.193298
	ER.H2O.FWTL.ZS	NaN	NaN		
JPN	AG.LND.FRST.ZS				
	AG.LND.IRIG.AG.ZS		NaN	NaN	
	EG.ELC.ACCS.ZS		100.000000	100.000000	
	ER.H2O.FWTL.ZS	NaN		18.888837	
THA	AG.LND.FRST.ZS				
	AG.LND.IRIG.AG.ZS		NaN	NaN	
	EG.ELC.ACCS.ZS			99.900000	
	ER.H2O.FWTL.ZS	NaN		25.526503	
USA	AG.LND.FRST.ZS				
03/1	AG.LND.IRIG.AG.ZS			5.785517	
	EG.ELC.ACCS.ZS		100.000000	100.000000	
	ER.H2O.FWTL.ZS	NaN		15.769912	
	LIV.1120.1 WIL.25	IVAIV	IVAIV	13.703312	IVAIN
		VR2019	YR2020		
economy	series	TREOIS	1112020		
AFG	AG.LND.FRST.ZS	1.850994	1.850994		
7 0	AG.LND.IRIG.AG.ZS		NaN		
	EG.ELC.ACCS.ZS		NaN		
	ER.H2O.FWTL.ZS	NaN	NaN		
AUS	AG.LND.FRST.ZS				
703	AG.LND.IRIG.AG.ZS		NaN		
	EG.ELC.ACCS.ZS		NaN		
	ER.H2O.FWTL.ZS	NaN	NaN		
CAN	AG.LND.FRST.ZS		38.695513		
CAIT	AG.LND.IRIG.AG.ZS	NaN	NaN		
	EG.ELC.ACCS.ZS	100.000000	NaN		
	ER.H2O.FWTL.ZS	NaN	NaN		
CHN	AG.LND.FRST.ZS	23.141166	23.340596		
Cint	AG.LND.IRIG.AG.ZS	NaN	NaN		
	EG.ELC.ACCS.ZS	100.000000	NaN		
	ER.H2O.FWTL.ZS	NaN	NaN		
CRI	AG.LND.FRST.ZS	59.116725	59.437329		
CIVI	AG.LND.IRIG.AG.ZS	NaN	NaN		
	EG.ELC.ACCS.ZS	99.710000	NaN		
	ER.H2O.FWTL.ZS	NaN	NaN		
IND	AG.LND.FRST.ZS	24.180628	24.270228		
IND	AG.LND.IRIG.AG.ZS	NaN	NaN		
	EG.ELC.ACCS.ZS	97.815285	NaN		
	ER.H2O.FWTL.ZS	NaN	NaN		
JPN	AG.LND.FRST.ZS	68.408779	68.408779		
31 10	AG.LND.IRIG.AG.ZS	NaN	NaN		
	EG.ELC.ACCS.ZS	100.000000	NaN		
	ER.H20.FWTL.ZS	NaN	NaN		
THA	AG.LND.FRST.ZS	38.969250	38.898784		
1117	AG.LND.IRIG.AG.ZS	NaN	NaN		
	EG.ELC.ACCS.ZS	99.900000	NaN		
	ER.H20.FWTL.ZS	NaN	NaN NaN		
USA	AG.LND.FRST.ZS	33.866926	33.866926		
USA	AG.LND.FRS1.2S AG.LND.IRIG.AG.ZS	33.800920 NaN	33.800920 NaN		
	EG.ELC.ACCS.ZS ER.H2O.FWTL.ZS	100.000000 NaN	NaN NaN		
	LIV.1120.1 WIL. C3	ivaiv	ivaiv		

In [4]:

#Data Frame-2
#Agricultural and Rural Development indicators
indicator_ids1 = ['AG.LND.ARBL.ZS','AG.LND.AGRI.ZS','AG.LND.FRST.ZS','AG.LND.CROP.ZS
country_codes = ['USA','CAN','IND','JPN','CHN','THA','CRI','BAN','AUS','AFG']
my_dataframe2 = wb.data.DataFrame(indicator_ids1, country_codes, mrv=10)
print(my_dataframe2)

Ref			YR2011	YR2012	YR2013	YR2014	YR2015	\
AG.LND.ARBL.ZS	economy	series						
AG.LND.CROP.ZS	AFG	AG.LND.AGRI.ZS	58.067580	58.067580	58.067580	58.067580	58.067580	
AG. LND. FRST. ZS 1. 58.0994 1.85.0994 1.85.0994 1.85.0994 1.36.0916 4.04.0705 4.06.1916 4.04.0705 4.06.1916 4.06.19		AG.LND.ARBL.ZS	11.933646	11.932114	11.924455	11.903011	11.893821	
AGLIND_AGRI.ZS 51.562813 59.385431 48.393710 48.78399 45.314424 4.047056 AGLIND_AGRI.ZS 4.125705 4.118220 4.063991 4.160251 4.047056 4.047056 AGLIND_AGRI.ZS 6.495688 0.046288 0.050792 0.045130 0.039871 4.047056 AGLIND_AGRI.ZS 6.435684 6.443636 6.451555 6.459475 6.467055 AGLIND_AGRI.ZS 4.158678 4.186451 4.214223 4.241996 4.269881 4.269881 AGLIND_AGRI.ZS 38.734864 38.730253 38.725651 38.721045 38.716438 38.73025 38.721645 38.721645 38.716438 38.73025 38.7221645 38.716		AG.LND.CROP.ZS	0.182275	0.183807	0.191465	0.212909	0.222100	
AG.LND.ARBL.ZS		AG.LND.FRST.ZS	1.850994	1.850994	1.850994	1.850994	1.850994	
CALIND.CROP.ZS	AUS	AG.LND.AGRI.ZS	51.562813		48.393710	48.738399	45.314424	
CALIND.CROP.ZS		AG.LND.ARBL.ZS	4.125705	4.118220	4.063991	4.160251	4.047056	
CAN AG. LND. FRST. ZS 16.955310 17.047689 17.140667 17.232446 17.324825 CAN AG. LND. ARBIL. ZS 4.158678 4.186451 4.214223 4.241996 4.269881 AG. LND. CROP. ZS 4.0189678 4.186451 4.214223 4.241996 4.269881 CHN AG. LND. CROP. ZS 38.734864 38.730258 38.725651 38.721045 38.716438 CHN AG. LND. ARBIL. ZS 56.116911 56.107828 56.108938 56.096738 56.090201 AG. LND. CROP. ZS 16.35171 1.698303 1.719524 1.719524 1.719524 AG. LND. CROP. ZS 16.35171 1.698303 1.719524 1.719524 1.719524 AG. LND. ARRIL. ZS 15.624755 35.487662 35.272229 34.821778 34.811986 CRI AG. LND. AGRIL. ZS 15.624755 35.487662 35.272229 34.821778 34.811986 CRI AG. LND. ARRIL. ZS 15.624755 35.872693 57.193465 47.32486 AG. LND. ARRIL. ZS 16.69213 <td></td> <td>AG.LND.CROP.ZS</td> <td>0.049868</td> <td>0.046288</td> <td>0.050792</td> <td>0.045130</td> <td>0.039871</td> <td></td>		AG.LND.CROP.ZS	0.049868	0.046288	0.050792	0.045130	0.039871	
CAN AG, LND, AGRI, ZS AG, LND, CARBL, ZS AG, LND, CARBL, ZS AG, LND, CRD, ZS A								
AG.LND.CROP.ZS A.158678	CAN							
CHAINDAME AG.LND.FRST.2S 0.019932 0.01996S 0.01986S 0.01996S 0.01996S 0.01996S 0.01996S 0.01996S 0.01996S 0.01986 0.01996S 0.01996S 0.01986 0.01996S 0.01986								
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CHN AG.LND.AGRI.ZS 56.116911 56.107828 56.108038 56.096738 56.090201 AG.LND.CROP.ZS 12.808017 12.728202 12.707193 12.695893 12.69587 AG.LND.CROP.ZS 1.635171 1.698303 1.719524 1.718524 1.718524 1.718524 1.718524 1.718524 1.718524 1.718524 1.718524 1.718524 1.718524 1.718524 1.718524								
AG.LND.ARBL.ZS	CHN							
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CRI AG.LND.FRST.ZS 21.491096 21.696596 21.902095 22.107595 22.313094 CRI AG.LND.AGRI.ZS 35.624755 35.487662 35.272229 34.821778 34.811986 AG.LND.AGRI.ZS 4.543674 4.543674 4.405684 4.9664747 AG.LND.FRST.ZS 56.552409 56.872934 57.193459 57.513984 57.834508 AG.LND.FRST.ZS 56.552409 56.872934 57.193459 57.513984 57.834508 AG.LND.FRST.ZS 56.552409 56.872934 57.193459 57.513984 57.834508 AG.LND.AGRI.ZS 60.430043 60.420626 60.439461 60.447196 60.431389 AG.LND.CROP.ZS 4.167241 4.305140 4.372408 4.372408 4.372408 AG.LND.CROP.ZS 4.167241 4.305140 4.372408 4.372408 4.372408 AG.LND.FRST.ZS 23.463822 23.553422 23.643023 23.732624 23.822225 AG.LND.AGRI.ZS 12.513032 12.480110 12.449931 12.395662 12.334705 AG.LND.CROP.ZS 68.481756 68.469684 68.455761 68.456540 AG.LND.CROP.ZS 68.481756 68.469684 68.455761 68.456540 AG.LND.AGRI.ZS 30.848128 32.414023 32.993365 32.903365 32.903365 AG.LND.AGRI.ZS 30.848128 32.414023 32.993365 32.903365 32.903365 AG.LND.AGRI.ZS 41.222181 42.788876 43.277418 43.277418 43.277418 AG.LND.AGRI.ZS 41.222181 42.788876 43.277418 43.277418 43.277418 AG.LND.AGRI.ZS 41.22181 42.788876 43.277418 43.277418 AG.LND.AGRI.ZS 44.278758 AG.LND.AGRI.ZS 44.2592								
CRI AG.LND.AGRI.ZS 35.624755 35.487662 35.272229 34.821778 34.811986 4.946747 AG.LND.ARBL.ZS 4.543674 4.543674 4.4543674 4.46588 4.964747 AG.LND.FRST.ZS 6.169213 6.169213 6.247552 6.247552 5.973365 AG.LND.AGRI.ZS 66.430043 66.42626 66.439461 60.431389 57.513984 57.834508 AG.LND.CROP.ZS 4.167241 4.305140 4.372408								
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AFG	oconomy	conioc	11/2010	11/2017	11/2010	11/2019	11/2020	
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AG.LND.FRST.ZS 38.712013 38.707888 38.703763 38.699637 38.695513 CHN AG.LND.AGRI.ZS 56.081665 56.079351 56.079083 NaN NaN AG.LND.ARBL.ZS 12.680817 12.678503 12.678246 NaN NaN								
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AG.LND.ARBL.ZS 12.680817 12.678503 12.678246 NaN NaN	61.11.							
	CHN							
AG.LND.CROP.ZS 1./19524 1.719524 1.719524 NaN NaN								
		AG.LND.CROP.ZS	1./19524	1./19524	1./19524	NaN	NaN	

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AG.LND.FRST.ZS 22.542877
                                  22.742310 22.941735
                                                       23.141166 23.340596
CRI
       AG.LND.AGRI.ZS 34.811986
                                  34.851156 34.909910
                                                              NaN
                                                                         NaN
       AG.LND.ARBL.ZS
                        5.238935
                                   4.925578
                                              4.945163
                                                              NaN
                                                                         NaN
       AG.LND.CROP.ZS
                        6.071289
                                   6.423815
                                              6.462985
                                                              NaN
                                                                         NaN
       AG.LND.FRST.ZS
                       58.155112
                                  58.475715
                                             58.796122
                                                        59.116725
                                                                   59.437329
IND
       AG.LND.AGRI.ZS
                       60.431389
                                  60.431389
                                             60.431389
                                                              NaN
                                                                         NaN
       AG.LND.ARBL.ZS 52.608814 52.608814 52.608814
                                                              NaN
                                                                         NaN
       AG.LND.CROP.ZS
                        4.372408
                                  4.372408
                                              4.372408
                                                              NaN
                                                                         NaN
       AG.LND.FRST.ZS 23.911825 24.001426 24.091027
                                                        24.180628
                                                                   24.270228
JPN
       AG.LND.AGRI.ZS
                       12.266118 12.192044
                                             12.126200
                                                              NaN
                                                                         NaN
       AG.LND.ARBL.ZS 11.478738 11.415638 11.363512
                                                              NaN
                                                                         NaN
       AG.LND.CROP.ZS
                        0.787380
                                                              NaN
                                                                         NaN
                                  0.776406
                                              0.762689
       AG.LND.FRST.ZS 68.422497
                                  68.408779 68.408779
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THA
       AG.LND.AGRI.ZS 43.277418 43.277418 43.277418
                                                              NaN
       AG.LND.ARBL.ZS
                       32.903365
                                  32.903365
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                                                              NaN
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       AG.LND.CROP.ZS
                        8.808158
                                   8.808158
                                              8.808158
                                                              NaN
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       AG.LND.FRST.ZS
                       39.180646
                                  39.110180
                                             39.039715
                                                        38.969250
                                                                   38.898784
USA
                       44.303705
                                  44.363367
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       AG.LND.AGRI.ZS
                                            44.363367
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       AG.LND.ARBL.ZS 17.184190
                                  17.243857 17.243857
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       AG.LND.CROP.ZS
                        0.295165
                                   0.295165
                                              0.295165
                                                              NaN
                                                                         NaN
       AG.LND.FRST.ZS 33.899723 33.866926 33.866926 33.866926 33.866926
```

In [5]: #Computing s

#Computing statistics
#Transforming the data

my_dataframe1.groupby('economy').transform(lambda x : x.median())

Out[5]:			YR2011	YR2012	YR2013	YR2014	YR2015	YR2016	Y
	economy	series							
	AFG	AG.LND.FRST.ZS	5.391717	24.240742	5.518333	5.742548	5.710894	6.481140	24.!
		AG.LND.IRIG.AG.ZS	5.391717	24.240742	5.518333	5.742548	5.710894	6.481140	24.!
		EG.ELC.ACCS.ZS	5.391717	24.240742	5.518333	5.742548	5.710894	6.481140	24.!
		ER.H2O.FWTL.ZS	5.391717	24.240742	5.518333	5.742548	5.710894	6.481140	24.!
	AUS	AG.LND.FRST.ZS	16.955310	10.090782	17.140067	17.232446	17.324825	17.425488	10.3
		AG.LND.IRIG.AG.ZS	16.955310	10.090782	17.140067	17.232446	17.324825	17.425488	10.3
		EG.ELC.ACCS.ZS	16.955310	10.090782	17.140067	17.232446	17.324825	17.425488	10.3
		ER.H2O.FWTL.ZS	16.955310	10.090782	17.140067	17.232446	17.324825	17.425488	10.3
	CAN	AG.LND.FRST.ZS	69.367432	38.730258	69.362826	69.360522	38.716438	69.356007	38.
		AG.LND.IRIG.AG.ZS	69.367432	38.730258	69.362826	69.360522	38.716438	69.356007	38.
		EG.ELC.ACCS.ZS	69.367432	38.730258	69.362826	69.360522	38.716438	69.356007	38.
		ER.H2O.FWTL.ZS	69.367432	38.730258	69.362826	69.360522	38.716438	69.356007	38.
	CHN	AG.LND.FRST.ZS	21.491096	21.696596	60.949552	61.053797	61.156547	61.271439	22.
		AG.LND.IRIG.AG.ZS	21.491096	21.696596	60.949552	61.053797	61.156547	61.271439	22.
		EG.ELC.ACCS.ZS	21.491096	21.696596	60.949552	61.053797	61.156547	61.271439	22.
		ER.H2O.FWTL.ZS	21.491096	21.696596	60.949552	61.053797	61.156547	61.271439	22.
	CRI	AG.LND.FRST.ZS	77.892378	56.872934	78.378488	78.436637	78.622156	78.827556	58.4
		AG.LND.IRIG.AG.ZS	77.892378	56.872934	78.378488	78.436637	78.622156	78.827556	58.4

EG.ELC.ACCS.ZS 77.892378 56.872934 78.378488 78.436637 78.622156 78.827556

58.4

economy

YR2013

YR2014

YR2015

YR2016

Υ

YR2012

YR2011

series

### ### ### ### ### ### ### ### ### ##				77 802278	56.872934	78 378/88	70 426627	70 600456		F0
		ER.H2O.	FWTL.ZS	11.092310	30.0.233	70.570400	70.430037	78.622156	/8.82/556	58.4
FG.ELC.ACCS.ZS 35.98787 40.554089 36.785607 37.900969 38.059486 56.723353 44. FER.H2O.FWTL.ZS 35.398787 40.554089 36.785607 37.900969 38.059486 56.723353 44. JPN AG.IND.FRST.ZS 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.	IND	AG.LND	.FRST.ZS	35.398787	40.554089	36.785607	37.900969	38.059486	56.723353	44.
FR.H2O.FWTL.ZS 35.398787 40.554089 36.785607 37.900969 38.059486 56.723353 42.19736 43.11248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.481756 51.590305 68.457613 68.45542 84.216735 84.211248 68.481756 69.32422 39.28063 69.351614 69.377555 69.433385 69.516368 39.48176 69.377555 69.433385 69.516368 39.48176 69.377555 69.433385 69.516368 39.48176 69.377555 69.433385 69.516368 39.48176 69.377555 69.433385 69.516368 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.377555 69.433385 69.516386 39.48176 69.37856 69.34830 66.949861 66.949861 24.48176 69.49861 24.4817		AG.LND.IR	IG.AG.ZS	35.398787	40.554089	36.785607	37.900969	38.059486	56.723353	44.
AG.IND.IRIG.AG.ZS		EG.ELC.	.ACCS.ZS	35.398787	40.554089	36.785607	37.900969	38.059486	56.723353	44.
AG.IND.IRIG.AG.ZS 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.4 EG.ELC.ACCS.ZS 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.4 ER.H2O.FWTL.ZS 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.4 THA AG.IND.FRST.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39.5 EG.ELC.ACCS.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39.5 ER.H2O.FWTL.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39.5 ER.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.1 AG.IND.IRIG.AG.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.1 EG.ELC.ACCS.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.1 ER.H2O.FWTL.ZS 66.889735 24.517230 29.382550 93.832554 93.73325 93.96510 93.59701 8.1 ER.H2O.FWTL.ZS 67.249006 67.131947 87.649006 95.849006 95.849006 95.849006 96.864628 9.4 ER.H2O.FWTL.ZS 67.249006 67.131947 87.649006		ER.H2O.	FWTL.ZS	35.398787	40.554089	36.785607	37.900969	38.059486	56.723353	44.
FG.ELC.ACCS.ZS 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.4 FR.H2O.FWTL.ZS 68.481756 51.590305 68.457613 68.445542 84.216735 84.211248 68.4 FT.H4	JPN	AG.LND	.FRST.ZS	68.481756	51.590305	68.457613	68.445542	84.216735	84.211248	68.4
FR.H2O.FWTL.ZS		AG.LND.IR	IG.AG.ZS	68.481756	51.590305	68.457613	68.445542	84.216735	84.211248	68.4
THA AG.IND.FRST.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39. ### AG.IND.IRIG.AG.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39. ### EG.ELC.ACCS.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39. ### ER.H2O.FWTL.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39. ### USA AG.IND.IRIG.AG.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.ELC.ACCS.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.948810 66.949861 24.8 ### EG.H2O.FWTL.ZS 66.889735 24.517230 86.919798 66.934830 66.948810 66.949861 24.8		EG.ELC.	.ACCS.ZS	68.481756	51.590305	68.457613	68.445542	84.216735	84.211248	68.4
		ER.H2O.	FWTL.ZS	68.481756	51.590305	68.457613	68.445542	84.216735	84.211248	68.4
FG.ELC.ACCS.ZS 69.322422 39.280863 69.351614 69.377555 69.433385 69.516386 39.516386	THA	AG.LND	.FRST.ZS	69.322422	39.280863	69.351614	69.377555	69.433385	69.516386	39.
USA		AG.LND.IR	IG.AG.ZS	69.322422	39.280863	69.351614	69.377555	69.433385	69.516386	39.
MGLIND.FRST.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.1 AGLIND.IRIG.AG.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.1 EG.ELC.ACCS.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.1 ER.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.1 #Apply function to have idea about the range of values my_dataFrame1.groupby('economy').apply(lambda x: x.astype(float).max() - x.min()) WR2011 WR2012 WR2013 WR2014 WR2015 WR2016 WR2017 WR2018 Economy		EG.ELC.	.ACCS.ZS	69.322422	39.280863	69.351614	69.377555	69.433385	69.516386	39.
AG.LND.IRIG.AG.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 EG.ELC.ACCS.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ER.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 #Apply function to have idea about the range of values my_data=rame1.groupby('economy').apply(lambda x: x.astype(float).max() - x.min()) YR2011		ER.H2O.	FWTL.ZS	69.322422	39.280863	69.351614	69.377555	69.433385	69.516386	39.
EG.ELC.ACCS.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 ER.H2O.FWTL.ZS 66.889735 24.517230 66.919798 66.934830 66.949861 66.949861 24.8 #Apply function to have idea about the range of values my_dataframe1.groupby('economy').apply(lambda' x: x.astype(float).max() - x.min()) #RY2011 YR2012 YR2013 YR2014 YR2015 YR2016 YR2017 YR2018 ECONOMY AFG 41.371025 67.249006 67.131947 87.649006 69.649006 95.849006 95.849006 96.864628 9 AUS 99.504444 99.446879 99.360366 99.369350 99.382654 99.373325 99.396510 99.359701 8 CAN 61.265136 98.721404 61.274349 61.278955 98.440114 61.287987 98.746316 61.296237 6 CHN 89.650470 78.677992 78.094914 77.892405 77.686906 77.457123 78.961962 77.058265 7 CRI 42.679939 97.433386 42.370058 41.845307 41.575296 41.344888 96.773451 40.903878 4 IND 44.136178 56.346578 57.095022 59.852589 64.177775 65.623056 68.455407 71.102272 7 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 6 USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6	USA	AG.LND	.FRST.ZS	66.889735	24.517230	66.919798	66.934830	66.949861	66.949861	24.8
#Apply function to have idea about the range of values my_dataframe1.groupby('economy').apply(lambda x: x.astype(float).max() - x.min()) #RFQ 41.371025 67.249006 67.131947 87.649006 69.649006 95.849006 95.849006 96.864628 9 AUS 99.504444 99.446879 99.360366 99.369350 99.382654 99.373325 99.396510 99.359701 & CAN 61.265136 98.721404 61.274349 61.278955 98.440114 61.287987 98.746316 61.296237 & CHN 89.650470 78.677992 78.094914 77.892405 77.686906 77.457123 78.961962 77.058265 7 CRI 42.679939 97.433386 42.370058 41.845307 41.575296 41.344888 96.773451 40.903878 4 IND 44.136178 56.346578 57.095022 59.852589 64.177775 65.623056 68.455407 71.102272 7 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 & CUSA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6		AG.LND.IR	IG.AG.ZS	66.889735	24.517230	66.919798	66.934830	66.949861	66.949861	24.8
#Apply function to have idea about the range of values my_dataframe1.groupby('economy').apply(lambda x: x.astype(float).max() - x.min()) YR2011		FG FLC	.ACCS.ZS	66.889735	24.517230	66.919798	66.934830	66.949861	66.949861	24.8
#Apply function to have idea about the range of values my_dataframe1.groupby('economy').apply(lambda x: x.astype(float).max() - x.min()) YR2011 YR2012 YR2013 YR2014 YR2015 YR2016 YR2017 YR2018 economy AFG 41.371025 67.249006 67.131947 87.649006 69.649006 95.849006 95.849006 96.864628 9 AUS 99.504444 99.446879 99.360366 99.369350 99.382654 99.373325 99.396510 99.359701 8 CAN 61.265136 98.721404 61.274349 61.278955 98.440114 61.287987 98.746316 61.296237 6 CHN 89.650470 78.677992 78.094914 77.892405 77.686906 77.457123 78.961962 77.058265 7 CRI 42.679939 97.433386 42.370058 41.845307 41.575296 41.344888 96.773451 40.903878 4 IND 44.136178 56.346578 57.095022 59.852589 64.177775 65.623056 68.455407 71.102272 7 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 6 USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6		LO.LLC.							66.040064	244
my_dataframe1.groupby('economy').apply(lambda x: x.astype(float).max() - x.min()) YR2011 YR2012 YR2013 YR2014 YR2016 YR2017 YR2018 economy AFG 41.371025 67.249006 67.131947 87.649006 69.649006 95.849006 95.849006 96.864628 9 AUS 99.504444 99.360366 99.369350 99.382654 99.373325 99.396510 99.359701 8 CAN 61.265136 98.721404 61.274349 61.278955 98.440114 61.287987 98.746316 61.296237 6 CHN 89.650470 78.677992 78.094914 77.892405 77.686906 77.457123 78.961962 77.058265 7 LIND			FWTL.ZS	66.889735	24.517230	66.919798	66.934830	66.949861	66.949861	24.≀
AFG 41.371025 67.249006 67.131947 87.649006 69.649006 95.849006 95.849006 96.864628 9 AUS 99.504444 99.446879 99.360366 99.369350 99.382654 99.373325 99.396510 99.359701 8 CAN 61.265136 98.721404 61.274349 61.278955 98.440114 61.287987 98.746316 61.296237 6 CHN 89.650470 78.677992 78.094914 77.892405 77.686906 77.457123 78.961962 77.058265 7 CRI 42.679939 97.433386 42.370058 41.845307 41.575296 41.344888 96.773451 40.903878 4 IND 44.136178 56.346578 57.095022 59.852589 64.177775 65.623056 68.455407 71.102272 7 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898	4		FWTL.ZS	66.889735	24.517230	66.919798	66.934830	66.949861	66.949861	
AUS99.50444499.44687999.36036699.36935099.38265499.37332599.39651099.3597018CAN61.26513698.72140461.27434961.27895598.44011461.28798798.74631661.2962376CHN89.65047078.67799278.09491477.89240577.68690677.45712378.96196277.0582657CRI42.67993997.43338642.37005841.84530741.57529641.34488896.77345140.9038784IND44.13617856.34657857.09502259.85258964.17777565.62305668.45540771.1022727JPN65.49002481.11116364.80828665.18371031.56652931.57750381.11116331.5912213THA60.07372373.58212060.15089860.21217560.33323060.67148274.37349760.7802856USA66.22053094.39566866.16040466.13034166.10027766.10027794.21448366.1330746		ER.H2O. function tframe1.gro	co have ioupby('eco	dea about onomy').a	the range	e of value da x: x.as	es stype(floa	t).max()	- x.min())
CAN 61.265136 98.721404 61.274349 61.278955 98.440114 61.287987 98.746316 61.296237 6 CHN 89.650470 78.677992 78.094914 77.892405 77.686906 77.457123 78.961962 77.058265 7 CRI 42.679939 97.433386 42.370058 41.845307 41.575296 41.344888 96.773451 40.903878 4 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 6 USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6	my_data	ER.H2O. function tframe1.gro	co have ioupby('eco	dea about onomy').a	the range	e of value da x: x.as	es stype(floa	t).max()	- x.min())
CHN 89.650470 78.677992 78.094914 77.892405 77.686906 77.457123 78.961962 77.058265 7 CRI 42.679939 97.433386 42.370058 41.845307 41.575296 41.344888 96.773451 40.903878 4 IND 44.136178 56.346578 57.095022 59.852589 64.177775 65.623056 68.455407 71.102272 7 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 6 USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6	my_data-	Function tframe1.gro	oupby('eco	dea about onomy').a YR201	the range apply(lambo	e of value da x: x.as 4 YR201	es stype(floa 5 YR201	t).max() 6 YR201	- x.min())
CRI 42.679939 97.433386 42.370058 41.845307 41.575296 41.344888 96.773451 40.903878 4 IND 44.136178 56.346578 57.095022 59.852589 64.177775 65.623056 68.455407 71.102272 7 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 6 USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6	my_data- economy AFG	Function t frame1.gro YR2011	ro have in pupby('ecc. YR2012	dea about onomy').a YR201	the range apply (lambo	e of value da x: x.as 4 YR201 6 69.64900	es stype(floa 5 YR201 6 95.84900	t).max() 6 YR201 6 95.84900	- x.min(); 7 YR201 6 96.86462) 18
IND 44.136178 56.346578 57.095022 59.852589 64.177775 65.623056 68.455407 71.102272 7 JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 6 USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6	economy AFG AUS	Function to frame1.gro YR2011 41.371025 99.504444	on have in pupby ('ecc. YR2012 67.249006 99.446879	dea about onomy').a YR201	the range apply (lambo	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265	es stype(floa 5 YR201 6 95.84900 4 99.37332	t).max() 6 YR201 6 95.84900 5 99.39651	- x.min(); 7 YR201 6 96.86462 0 99.35970) 18 28 9 21 8
JPN 65.490024 81.111163 64.808286 65.183710 31.566529 31.577503 81.111163 31.591221 3 THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 6 USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 6	economy AFG AUS CAN	Function to frame1.gro YR2011 41.371025 99.504444 61.265136	on have in pupby ('ecc. YR2012 67.249006 99.446879 98.721404	dea about onomy').a YR201 6 67.13194 99.36036	the range apply (lambo 3 YR2014 7 87.649000 6 99.369350 9 61.27895	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011	25 Stype(fload 5 YR201 6 95.84900 4 99.37332 4 61.28798	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623) 18 28 9 21 8 37 6
THA 60.073723 73.582120 60.150898 60.212175 60.333230 60.671482 74.373497 60.780285 € USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 €	economy AFG AUS CAN CHN	Function to frame1.gro YR2011 41.371025 99.504444 61.265136 89.650470	67.249006 99.446879 98.721404	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491	7 87.649006 6 99.369356 9 61.27895	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690	25 Stype(fload 5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826) 18 28 9 21 8 37 6
USA 66.220530 94.395668 66.160404 66.130341 66.100277 66.100277 94.214483 66.133074 €	economy AFG AUS CAN CHN CRI	Function to frame1.grow YR2011 41.371025 99.504444 61.265136 89.650470 42.679939	67.249006 99.446879 98.721404 78.677992 97.433386	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491 6 42.37005	7 87.649000 6 99.369350 9 61.27895 4 77.892400 8 41.84530	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690 7 41.57529	25 Stype(fload 5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712 6 41.34488	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196 8 96.77345	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826 1 40.90387) 18 28 9 21 8 37 6 55 7 78 4
	economy AFG AUS CAN CHN CRI IND	Function to frame1.grow YR2011 41.371025 99.504444 61.265136 89.650470 42.679939 44.136178	67.249006 99.446879 98.721404 78.677992 97.433386 56.346578	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491 6 42.37005 5 57.09502	7 87.649000 6 99.369350 9 61.27895 4 77.892400 8 41.845300 2 59.85258	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690 7 41.57529 9 64.17777	25 Stype(fload 5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712 6 41.34488 5 65.62305	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196 8 96.77345 6 68.45540	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826 1 40.90387 7 71.10227	28 9 01 8 37 6 55 7 78 4
	economy AFG AUS CAN CHN CRI IND JPN	Function to frame1.grow YR2011 41.371025 99.504444 61.265136 89.650470 42.679939 44.136178 65.490024	67.249006 99.446879 98.721404 78.677992 97.433386 56.346578 81.111163	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491 6 42.37005 57.09502 64.80828	7 87.649000 6 99.369350 9 61.27895 4 77.892400 8 41.845300 2 59.852580 6 65.183710	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690 7 41.57529 9 64.17777 0 31.56652	stype(fload 5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712 6 41.34488 5 65.62305 9 31.57750	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196 8 96.77345 6 68.45540 3 81.11116	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826 1 40.90387 7 71.10227 3 31.59122	28 9 21 8 37 6 55 7 78 4 72 7
	economy AFG AUS CAN CHN CRI IND JPN THA	Function to frame1.grown YR2011 41.371025 99.504444 61.265136 89.650470 42.679939 44.136178 65.490024 60.073723	67.249006 99.446879 98.721404 78.677992 97.433386 56.346578 81.111163	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491 6 42.37005 6 57.09502 6 64.80828 6 60.15089	7 87.649000 6 99.369350 9 61.27895 4 77.892400 2 59.852580 6 65.183710 8 60.212170	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690 7 41.57529 9 64.17777 0 31.56652 5 60.33323	stype(fload 5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712 6 41.34488 5 65.62305 9 31.57750 0 60.67148	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196 8 96.77345 6 68.45540 3 81.11116 2 74.37349	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826 1 40.90387 7 71.10227 3 31.59122 7 60.78028	28 9 21 8 37 6 55 7 78 4 72 7 21 3
	economy AFG AUS CAN CHN CRI IND JPN THA	Function to frame1.grown YR2011 41.371025 99.504444 61.265136 89.650470 42.679939 44.136178 65.490024 60.073723	67.249006 99.446879 98.721404 78.677992 97.433386 56.346578 81.111163	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491 6 42.37005 6 57.09502 6 64.80828 6 60.15089	7 87.649000 6 99.369350 9 61.27895 4 77.892400 2 59.852580 6 65.183710 8 60.212170	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690 7 41.57529 9 64.17777 0 31.56652 5 60.33323	stype(fload 5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712 6 41.34488 5 65.62305 9 31.57750 0 60.67148	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196 8 96.77345 6 68.45540 3 81.11116 2 74.37349	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826 1 40.90387 7 71.10227 3 31.59122 7 60.78028	28 9 01 8 37 6 55 7 78 4 72 7 21 3 35 6
	economy AFG AUS CAN CHN CRI IND JPN THA USA	Function to frame1.grow YR2011 41.371025 99.504444 61.265136 89.650470 42.679939 44.136178 65.490024 60.073723 66.220530	78.677992 97.433386 56.346578 81.111163 73.582120 94.395668	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491 42.37005 6 57.09502 6 64.80828 6 60.15089 6 66.16040	the range apply (lambo apply (l	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690 7 41.57529 9 64.17777 0 31.56652 5 60.33323 1 66.10027	5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712 6 41.34488 5 65.62305 9 31.57750 0 60.67148 7 66.10027	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196 8 96.77345 6 68.45540 3 81.11116 2 74.37349	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826 1 40.90387 7 71.10227 3 31.59122 7 60.78028) 18 28 9 21 8 37 6 55 7 78 4 72 7 21 3 35 6 74 6
<pre>y = my_dataframe1.groupby('economy')['YR2017'].median()</pre>	economy AFG AUS CAN CHN CRI IND JPN THA USA	Function to frame1.grow YR2011 41.371025 99.504444 61.265136 89.650470 42.679939 44.136178 65.490024 60.073723 66.220530	78.677992 97.433386 56.346578 81.111163 73.582120 94.395668	dea about onomy').a YR201 6 67.13194 99.36036 61.27434 78.09491 42.37005 6 57.09502 6 64.80828 6 60.15089 6 66.16040	the range apply (lambo apply (l	e of value da x: x.as 4 YR201 6 69.64900 0 99.38265 5 98.44011 5 77.68690 7 41.57529 9 64.17777 0 31.56652 5 60.33323 1 66.10027	5 YR201 6 95.84900 4 99.37332 4 61.28798 6 77.45712 6 41.34488 5 65.62305 9 31.57750 0 60.67148 7 66.10027	t).max() 6 YR201 6 95.84900 5 99.39651 7 98.74631 3 78.96196 8 96.77345 6 68.45540 3 81.11116 2 74.37349	- x.min(); 7 YR201 6 96.86462 0 99.35970 6 61.29623 2 77.05826 1 40.90387 7 71.10227 3 31.59122 7 60.78028) 18 28 37 37 48 55 77 22 11

economy

```
z = my_dataframe1.groupby('economy')['YR2018'].median()
print(x,y,z)
```

```
AFG
        6.481140
AUS
       17.425488
CAN
       69.356007
CHN
       61.271439
CRI
       78.827556
IND
       56.723353
JPN
       84.211248
THA
      69.516386
USA
       66.949861
Name: YR2016, dtype: float64 economy
AFG
       24.503205
       10.331884
AUS
CAN
       38.707888
CHN
       22.742310
CRI
       58.475715
IND
       44.778700
JPN
       68.408779
THA
       39.110180
USA
       24.818419
Name: YR2017, dtype: float64 economy
AFG
       5.134629
AUS
       17.421315
CAN
       69.351881
CHN
      61.470868
CRI
      79.248061
IND
       59.642163
JPN
       84.204390
THA
       69.429858
USA
       66.933463
Name: YR2018, dtype: float64
```

In [8]: #Filtering the data my_dataframe2.groupby('economy').filter(lambda x : x['YR2014'].median() > 25)

Out[8]:			YR2011	YR2012	YR2013	YR2014	YR2015	YR2016	YR2
	economy	series							
	IND	AG.LND.AGRI.ZS	60.430043	60.420626	60.439461	60.447196	60.431389	60.431389	60.431
		AG.LND.ARBL.ZS	52.798173	52.652538	52.617559	52.624622	52.608814	52.608814	52.608
		AG.LND.CROP.ZS	4.167241	4.305140	4.372408	4.372408	4.372408	4.372408	4.372
		AG.LND.FRST.ZS	23.463822	23.553422	23.643023	23.732624	23.822225	23.911825	24.001
	THA	AG.LND.AGRI.ZS	41.222181	42.788076	43.277418	43.277418	43.277418	43.277418	43.277
		AG.LND.ARBL.ZS	30.848128	32.414023	32.903365	32.903365	32.903365	32.903365	32.903
		AG.LND.CROP.ZS	8.808158	8.808158	8.808158	8.808158	8.808158	8.808158	308.8
		AG.LND.FRST.ZS	39.285560	39.280863	39.276165	39.271467	39.266770	39.180646	39.11(
	USA	AG.LND.AGRI.ZS	44.278758	44.064999	44.124682	44.184360	44.244027	44.303705	44.363
		AG.LND.ARBL.ZS	17.093563	16.945488	17.005166	17.064845	17.124512	17.184190	17.243
		AG.LND.CROP.ZS	0.295165	0.295165	0.295165	0.295165	0.295165	0.295165	0.295
		AG.LND.FRST.ZS	33.779470	33.809533	33.839596	33.869659	33.899723	33.899723	33.866

```
In [9]: #Pivot Table
import numpy as np
x = my_dataframe1.pivot_table(index=['series'],aggfunc={'YR2015':np.mean})
y = my_dataframe2.pivot_table(index=['series'],aggfunc={'YR2015':np.mean})
print(x,y)
```

```
YR2015
series
AG.LND.FRST.ZS 33.718005
AG.LND.IRIG.AG.ZS 11.486903
EG.ELC.ACCS.ZS 95.389978 YR2015
series
AG.LND.AGRI.ZS 40.115471
AG.LND.ARBL.ZS 16.893100
AG.LND.CROP.ZS 2.472101
AG.LND.FRST.ZS 33.718005
```

STORY OF THE DATA

The primary objective of this assignment is to load the world bank data directly into Python IDE whereas the secondary objective is to use different python operations or functions that will help to compute the results or values. We have used four indicators each from climate change category and Agricultural and Rural development category. The time frame from which we have collected data is from 2011 to 2020. I have selected 10 countries. These 10 countries are Afghansitan, Australia, Canada, China, Costa Rica, India, Japan, Thailand, USA, and Bangladesh I have performed filtering based on the median condition. I have created pivot table to get the mean values of year 2015 for both of the data frames. I have used apply function to measure the spread of values of each year present in the data. I have also performed data transformation in terms of median. Similarly, groupby function alone has also been used to compute the median values of year 2016 to 2018 of data frame 1.