

Q1

	Rank	CCA3	...	Growth Rate	World Population Percentage
0	36	AFG	...	1.0257	0.52
1	138	ALB	...	0.9957	0.04
2	34	DZA	...	1.0164	0.56
3	213	ASM	...	0.9831	0.00
4	203	AND	...	1.0100	0.00
5	42	AGO	...	1.0315	0.45
6	224	ATA	...	1.0066	0.00
7	201	ATG	...	1.0058	0.00
8	33	ARG	...	1.0052	0.57
9	140	ARM	...	0.9962	0.03
10	198	ABW	...	0.9991	0.00
11	55	AUS	...	1.0099	0.33
12	99	AUT	...	1.0020	0.11
13	91	AZE	...	1.0044	0.13
14	176	BHS	...	1.0051	0.01
15	154	BHR	...	1.0061	0.02
16	8	BGD	...	1.0108	2.15
17	186	BRB	...	1.0015	0.00
18	96	BLR	...	0.9955	0.12
19	81	BEL	...	1.0038	0.15
20	177	BLZ	...	1.0131	0.01
21	77	BEN	...	1.0274	0.17
22	206	BMU	...	1.0000	0.00
23	165	BTN	...	1.0064	0.01
24	80	BOL	...	1.0120	0.15
25	137	BIH	...	0.9886	0.04
26	144	BWA	...	1.0162	0.03
27	7	BRA	...	1.0046	2.70
28	221	VGB	...	1.0059	0.00
29	175	BRN	...	1.0081	0.01
30	108	BGR	...	0.9849	0.09

Highest 5

	Country	2020 Population	1970 Population	Increase%
52	Djibouti	1090156	144379	655.07
215	Turks and Caicos Islands	44276	5665	681.57
130	Mayotte	305587	35383	763.65
167	Qatar	2760385	118007	2239.17
219	United Arab Emirates	9287289	298084	3015.66

Lowest 5

	Country	2020 Population	1970 Population	Increase%
150	Niue	1942	5185	-62.55
137	Montserrat	4500	11402	-60.53
226	Vatican City	520	752	-30.85
73	Georgia	3765912	4800426	-21.55
111	Latvia	1897052	2397414	-20.87

Highest 5

	Country	2020 Population	2010 Population	Increase%
108	Kuwait	4360444	2943356	48.15
215	Turks and Caicos Islands	44276	29726	48.95
155	Oman	4543399	2881914	57.65
104	Jordan	10928721	6931258	57.67
167	Qatar	2760385	1713504	61.10

Lowest 5

	Country	2020 Population	2010 Population	Increase%
126	Marshall Islands	43413	53416	-18.73
133	Moldova	3084847	3678186	-16.13
3	American Samoa	46189	54849	-15.79
25	Bosnia and Herzegovina	3318407	3811088	-12.93
226	Vatican City	520	596	-12.75

Not totally the same. Just Turks and Caicos Islands, Qatar and Vatican City appear twice

Q4

	Rank	CCA3	...	Growth Rate	World Population Percentage
41	1	CHN	...	1.0000	17.88
92	2	IND	...	1.0068	17.77
221	3	USA	...	1.0038	4.24
93	4	IDN	...	1.0064	3.45
156	5	PAK	...	1.0191	2.96

[5 rows x 17 columns]

	Rank	CCA3	...	Growth Rate	World Population Percentage
137	230	MSR	...	0.9939	0.0
64	231	FLK	...	1.0043	0.0
150	232	NIU	...	0.9985	0.0
209	233	TKL	...	1.0119	0.0
226	234	VAT	...	0.9980	0.0

Q5

1970

Highest

	Rank	CCA3	...	Growth Rate	World Population Percentage
41	1	CHN	...	1.0000	17.88
92	2	IND	...	1.0068	17.77
221	3	USA	...	1.0038	4.24
171	9	RUS	...	0.9973	1.81
93	4	IDN	...	1.0064	3.45

[5 rows x 17 columns]

Lowest

	Rank	CCA3	...	Growth Rate	World Population Percentage
150	232	NIU	...	0.9985	0.0
173	228	BLM	...	1.0098	0.0
64	231	FLK	...	1.0043	0.0
209	233	TKL	...	1.0119	0.0
226	234	VAT	...	0.9980	0.0

[5 rows x 17 columns]

2022

Highest

	Rank	CCA3	...	Growth Rate	World Population Percentage
41	1	CHN	...	1.0000	17.88
92	2	IND	...	1.0068	17.77
221	3	USA	...	1.0038	4.24
93	4	IDN	...	1.0064	3.45
156	5	PAK	...	1.0191	2.96

[5 rows x 17 columns]

Lowest

	Rank	CCA3	...	Growth Rate	World Population Percentage
137	230	MSR	...	0.9939	0.0
64	231	FLK	...	1.0043	0.0
150	232	NIU	...	0.9985	0.0
209	233	TKL	...	1.0119	0.0
226	234	VAT	...	0.9980	0.0

[5 rows x 17 columns]

Highest 5 remain: CHN, IND, USA, IDN

Lowest 5 remain: FLK, VAT, NIU, TKL

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Q6
The mean of 2020 population is 33501070.952991452
The Q1,Q2,Q3 of 2020 population are
0.25      415284.5
0.50     5493074.5
0.75     21447979.5
Name: 2020 Population, dtype: float64
#####
#####
Three countries around the mean are:Yemen,Malaysia and Ghana
Three countries around the Q1 are:Belize,Bahamas,Buadeloupe
Three countries around the M are:Norway,Lebanon,finland
Three countries caround the Q3 are:Sri Lanka,Syria and Mali
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The Q1,Q3 of 2020 population are
0.25      415284.5
0.75     21447979.5
Name: 2020 Population, dtype: float64

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The Q1,Q3 of 2010 population are
0.25      393149.0
0.75     19159567.5
Name: 2010 Population, dtype: float64

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The Q1,Q3 of 2000 population are
0.25      327242.0
0.75     15762301.0
Name: 2000 Population, dtype: float64

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The Q1,Q3 of 1990 population are
0.25      264115.75
0.75     11869231.00
Name: 1990 Population, dtype: float64

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The Q1,Q3 of 1980 population are
0.25      229614.25
0.75     9826053.75
Name: 1980 Population, dtype: float64

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Picture in pdf file
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Q9
They look very similar

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The rank of density is

	Country	Density (per km <sup>2</sup> )	Rank
78	Greenland	0.0261	1.0
64	Falkland Islands	0.3105	2.0
230	Western Sahara	2.1654	3.0
135	Mongolia	2.1727	4.0
141	Namibia	3.1092	5.0
11	Australia	3.4032	6.0
91	Iceland	3.6204	7.0
69	French Guiana	3.6459	8.0
86	Guyana	3.7621	9.0
199	Suriname	3.7727	10.0
35	Canada	3.8513	11.0
115	Libya	3.8717	12.0
26	Botswana	4.5194	13.0
128	Mauritania	4.5951	14.0
105	Kazakhstan	7.1188	15.0
150	Niue	7.4385	16.0
171	Russia	8.4636	17.0
71	Gabon	8.9252	18.0
38	Central African Republic	8.9555	19.0
24	Bolivia	11.1272	20.0
214	Turkmenistan	13.1751	21.0
39	Chad	13.8032	22.0
155	Oman	14.7861	23.0
145	New Caledonia	15.6097	24.0
8	Argentina	16.3683	25.0
67	Finland	16.3722	26.0
161	Paraguay	16.6705	27.0
154	Norway	16.7828	28.0
182	Saudi Arabia	16.9368	29.0
168	Republic of the Congo	17.4574	30.0
195	South Sudan	17.6091	31.0
20	Belize	17.6466	32.0
124	Mali	18.2178	33.0
2	Algeria	18.8531	34.0
223	Uruguay	18.9069	35.0
146	New Zealand	19.1716	36.0
23	Bhutan	20.3796	37.0
148	Niger	20.6851	38.0
160	Papua New Guinea	21.9139	39.0
200	Sweden	23.4276	40.0
177	Saint Pierre and Miquelon	24.2231	41.0

[234 rows x 4 columns]

Top 5 largest positive change

	Country	1970 Population	...	2020 Rank	Change
219	United Arab Emirates	298084	...	138.0	70.0
104	Jordan	1557374	...	150.0	49.0
167	Qatar	118007	...	93.0	40.0
182	Saudi Arabia	6106191	...	194.0	34.0
5	Angola	6029700	...	192.0	33.0

[5 rows x 6 columns]

Top 5 largest negative change

	Country	1970 Population	2020 Population	1970 Rank	2020 Rank	Change
73	Georgia	4800426	3765912	151.0	104.0	-47.0
30	Bulgaria	8582950	6979175	174.0	129.0	-45.0
90	Hungary	10315366	9750573	184.0	142.0	-42.0
46	Croatia	4492638	4096868	144.0	105.0	-39.0
18	Belarus	9170786	9633740	178.0	140.0	-38.0

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Q12

Digit 1 has 30.34 %

Digit 2 has 14.96 %

Digit 3 has 14.53 %

Digit 4 has 9.4 %

Digit 5 has 11.11 %

Digit 6 has 7.69 %

Digit 7 has 3.42 %

Digit 8 has 4.27 %

Digit 9 has 4.27 %

All answer round 2 decimal

Q11

The rank of 1970

	Country	...	1970 Rank
0	Afghanistan	...	186.0
1	Albania	...	111.0
2	Algeria	...	198.0
3	American Samoa	...	26.0
4	Andorra	...	20.0
5	Angola	...	159.0
6	Anguilla	...	11.0
7	Antigua and Barbuda	...	40.0
8	Argentina	...	207.0
9	Armenia	...	117.0
10	Aruba	...	38.0
11	Australia	...	194.0
12	Austria	...	170.0
13	Azerbaijan	...	155.0
14	Bahamas	...	61.0
15	Bahrain	...	63.0
16	Bangladesh	...	226.0
17	Barbados	...	64.0
18	Belarus	...	178.0
19	Belgium	...	179.0
20	Belize	...	54.0
21	Benin	...	128.0
22	Bermuda	...	32.0
23	Bhutan	...	69.0
24	Bolivia	...	146.0
25	Bosnia and Herzegovina	...	136.0
26	Botswana	...	83.0
27	Brazil	...	228.0
28	British Virgin Islands	...	14.0
29	Brunei	...	56.0
30	Bulgaria	...	174.0
31	Burkina Faso	...	158.0
32	Burundi	...	131.0
33	Cambodia	...	167.0
34	Cameroon	...	165.0
35	Canada	...	205.0