



World Population Analysis

Using SQL

Navigator.....

SCHEMAS

Filter objects

- ▶ spike_metric
- ▶ sys
- ▼ **worldpopulation**
 - ▼ Tables
 - ▼ pop_data
 - ▼ Columns
 - ◆ country
 - ▲ country_code

worldpopulationanalysis x

Limit to 2000 rows

```
1 • CREATE DATABASE worldpopulation;  
2  
3 • USE worldpopulation;  
4  
5  
6
```


Navigator

SCHEMAS

Filter objects

spike_metric

sys

worldpopulation

Tables

pop_data

Columns

country

country_code

cca3

pop1980

pop2000

pop2010

pop2022

pop2023

pop2030

pop2050

area

landAreaKm

Indexes

Foreign Keys

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Administration Schemas

Information

Connection Details

Name:Local instance MySQL80

Host: localhost

Port: 3306

Login

User: root

User: root@localhost

SSL

cipher: TLS_AES_256_GCM_SHA384

Server

MySQL Community Server

Proc - GPL

Ver8.0.31

Connector

VerC++ 8.0.31

worldpopulationanalysis

Limit to 2000 rows

Viewing Table

SELECT * FROM pop_data;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	country	country_code	cca3	pop1980	pop2000	pop2010	pop2022	pop2023	pop2030	pop2050	area	landAreaKm
▶	India	IN	IND	696828385	1059633675	1240613620	1417173173	1428627663	1514994080	1670490596	3287590	2973190
	China	CN	CHN	982372466	1264099069	1348191368	1425887337	1425671352	1415605906	1312636325	9706961	9424702.9
	United States	US	USA	223140018	282398554	311182845	338289857	339996563	352162301	375391963	9372610	9147420
	Indonesia	ID	IDN	148177096	214072421	244016173	275501339	277534122	292150100	317225213	1904569	1877519
	Pakistan	PK	PAK	80624057	154369924	194454498	235824862	240485658	274029836	367808468	881912	770880
	Nigeria	NG	NGA	72951439	122851984	160952853	218541212	223804632	262580426	377459883	923768	910770
	Brazil	BR	BRA	122288383	175873720	196353492	215313498	216422446	223908968	230885725	8515767	8358140
	Bangladesh	BD	BGD	83929765	129193327	148391139	171186372	172954319	184424144	203904900	147570	130170
	Russia	RU	RUS	138257420	146844839	143242599	144713314	144444359	141432741	133133035	17098242	16376870
	Mexico	MX	MEX	67705186	97873442	112532401	127504125	128455567	134534107	143772364	1964375	1943950
	Ethiopia	ET	ETH	34945469	67031867	89237791	123379924	126527060	149296378	214812309	1104300	1128571.3
	Japan	JP	JPN	117624196	126803861	128105431	123951692	123294513	118514802	103784357	377930	364500
	Philippines	PH	PHL	48419546	77958223	94636700	115559009	117337368	129453321	157891622	342353	298170
	Egypt	EG	EGY	43748556	71371371	87252413	110990103	112716598	125151725	160339889	1002450	995450
	DR Congo	CD	COD	26708686	48616317	66391257	99010212	102262808	127582053	217494003	2344858	2267050
	Vietnam	VN	VNM	52968270	79001142	87411012	98186856	98858950	102699905	107012939	331212	313429
	Iran	IR	IRN	38520664	65544383	75373855	88550570	89172767	92921017	99007204	1648195	1622500
	Turkey	TR	TUR	44089069	64113547	73195345	85341241	85816199	88879698	95829258	783562	783562
	Germany	DE	DEU	77786703	81551677	81325090	83369843	83294633	82762675	78932228	357114	349390
	Thailand	TH	THA	45737753	63066603	68270489	71697030	71801279	72060018	67880083	513120	510890
	United Kingdom	GB	GBR	56326328	58850043	62760039	67508936	67736802	69175770	71684966	242900	241930
	Tanzania	TZ	TZA	19297659	34463704	45110527	65497748	67438106	81885304	129931520	945087	885800
	France	FR	FRA	53713830	58665453	62444567	64626628	64756584	65543452	65827072	551695	547557
	South Africa	ZA	ZAF	29463549	46813266	51784921	59893885	60414495	64659278	73529753	1221037	1213090
	Italy	IT	ITA	56329482	56966397	59822450	59037474	58870762	57544258	52250484	301336	295717
	Kenya	KE	KEN	16187124	30851606	41517805	54027487	55100586	63103047	85211730	580367	560140

Navigator

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Administration Schemas

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worldpopulationanalysis

Limit to 2000 rows

```
28
29
30
31 #Checking for Duplicates
32 • SELECT * FROM
33 (
34 SELECT *,
35 ROW_NUMBER() OVER(PARTITION BY country ORDER BY country)
36 AS row_num
37 FROM pop_data
38 )X
39 WHERE row_num>1;
40 /*The Query Didn't returned any row Therefore there is no
41 Duplicate country in the Dataset*/
42
43
44
```

Result Grid

Filter Rows:

Export: Wrap Cell Content:

	country	country_code	cca3	pop1980	pop2000	pop2010	pop2022	pop2023	pop2030	pop2050	area	landAreaKm	row_num
--	---------	--------------	------	---------	---------	---------	---------	---------	---------	---------	------	------------	---------

Navigator

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SSL cipher: TLS_AES_256_GCM_SHA384

Server: MySQL Community Server

Protocol: GPL

Version: 8.0.31

Connector: VerC++ 8.0.31

worldpopulationanalysis

Limit to 2000 rows

```

46
47  #Checking % Increase In population From Previous Population census
48
49  WITH CTE1 AS
50  (
51  SELECT country, country_code, '1980' AS year, pop1980 AS population FROM pop_data
52  UNION
53  SELECT country, country_code, '2000' AS year, pop2000 AS population FROM pop_data
54  UNION
55  SELECT country, country_code, '2010' AS year, pop2010 AS population FROM pop_data
56  UNION
57  SELECT country, country_code, '2022' AS year, pop2022 AS population FROM pop_data
58  )

```

Result Grid Filter Rows: Export: Wrap Cell Content: [IA](#)

	country	country_code	year	population
▶	India	IN	1980	696828385
	China	CN	1980	982372466
	United States	US	1980	223140018
	Indonesia	ID	1980	148177096
	Pakistan	PK	1980	80624057
	Nigeria	NG	1980	72951439
	Brazil	BR	1980	122288383
	Bangladesh	BD	1980	83929765
	Russia	RU	1980	138257420
	Mexico	MX	1980	67705186
	Ethiopia	ET	1980	34945469
	Japan	JP	1980	117624196
	Philippines	PH	1980	48419546
	Egypt	EG	1980	43748556
	DR Congo	CD	1980	26708686
	Vietnam	VN	1980	52968270
	Iran	IR	1980	38520664
	Turkey	TR	1980	44089069
	Germany	DE	1980	77786703

Navigator

SCHEMAS

Filter objects

spike_metric

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worldpopulation

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Connector

Version: C++ 8.0.31

worldpopulationanalysis

Limit to 2000 rows

#Checking % Increase In population From Previous Population census

WITH CTE1 AS

(

SELECT country, country_code, '1980' AS year, pop1980 AS population FROM pop_data

UNION

SELECT country, country_code, '2000' AS year, pop2000 AS population FROM pop_data

UNION

SELECT country, country_code, '2010' AS year, pop2010 AS population FROM pop_data

UNION

SELECT country, country_code, '2022' AS year, pop2022 AS population FROM pop_data)

CTE2 AS

(

SELECT country, country_code, year,

LAG(year,1,0) OVER (PARTITION BY country ORDER BY year ASC) AS previous_yr, population ,

LAG(population,1,0) OVER (PARTITION BY country ORDER BY year ASC) AS previous_yr_pop

FROM CTE1 ORDER BY country

)

SELECT *,

CONCAT(

ROUND(IFNULL(((population-previous_yr_pop)*100.0/previous_yr_pop),""),2),

" % Increase/Decrease from year ",previous_yr

)

AS population_growth

FROM CTE2;

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Connector

worldpopulationanalysis

Limit to 2000 rows

```

70 ROUND(IFNULL(((population-previous_yr_pop)*100.0/previous_yr_pop),""),2),
71      " % Increase/Decrease from year ",previous_yr
72    )
73 AS population_growth

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	country	country_code	year	previous_yr	population	previous_yr_pop	population_growth
▶	Afghanistan	AF	1980	0	12486631	0	0 % Increase/Decrease from year 0
	Afghanistan	AF	2000	1980	19542982	12486631	56.51 % Increase/Decrease from year 1980
	Afghanistan	AF	2010	2000	28189672	19542982	44.24 % Increase/Decrease from year 2000
	Afghanistan	AF	2022	2010	41128771	28189672	45.9 % Increase/Decrease from year 2010
	Albania	AL	1980	0	2941651	0	0 % Increase/Decrease from year 0
	Albania	AL	2000	1980	3182021	2941651	8.17 % Increase/Decrease from year 1980
	Albania	AL	2010	2000	2913399	3182021	-8.44 % Increase/Decrease from year 2000
	Albania	AL	2022	2010	2842321	2913399	-2.44 % Increase/Decrease from year 2010
	Algeria	DZ	1980	0	18739378	0	0 % Increase/Decrease from year 0
	Algeria	DZ	2000	1980	30774621	18739378	64.22 % Increase/Decrease from year 1980
	Algeria	DZ	2010	2000	35856344	30774621	16.51 % Increase/Decrease from year 2000
	Algeria	DZ	2022	2010	44903225	35856344	25.23 % Increase/Decrease from year 2010
	American S...	AS	1980	0	32886	0	0 % Increase/Decrease from year 0
	American S...	AS	2000	1980	58230	32886	77.07 % Increase/Decrease from year 1980
	American S...	AS	2010	2000	54849	58230	-5.81 % Increase/Decrease from year 2000
	American S...	AS	2022	2010	44273	54849	-19.28 % Increase/Decrease from year 2010
	Andorra	AD	1980	0	35611	0	0 % Increase/Decrease from year 0
	Andorra	AD	2000	1980	66097	35611	85.61 % Increase/Decrease from year 1980
	Andorra	AD	2010	2000	71519	66097	8.2 % Increase/Decrease from year 2000
	Andorra	AD	2022	2010	79824	71519	11.61 % Increase/Decrease from year 2010
	Angola	AO	1980	0	8330047	0	0 % Increase/Decrease from year 0
	Angola	AO	2000	1980	16394062	8330047	96.81 % Increase/Decrease from year 1980
	Angola	AO	2010	2000	23364185	16394062	42.52 % Increase/Decrease from year 2000
	Angola	AO	2022	2010	35588987	23364185	52.32 % Increase/Decrease from year 2010
	Anguilla	AI	1980	0	6560	0	0 % Increase/Decrease from year 0
	Anguilla	AI	2000	1980	11047	6560	68.4 % Increase/Decrease from year 1980
	Anguilla	AI	2010	2000	13172	11047	19.24 % Increase/Decrease from year 2000
	Anguilla	AI	2022	2010	15857	13172	20.38 % Increase/Decrease from year 2010
	Antigua an...	AG	1980	0	64889	0	0 % Increase/Decrease from year 0
	Antigua an...	AG	2000	1980	75055	64889	15.67 % Increase/Decrease from year 1980
	Antigua an...	AG	2010	2000	85695	75055	14.18 % Increase/Decrease from year 2000

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SSL cipher: TLS_AES_256_GCM_SHA384

Limit to 2000 rows

```
79
80
81
82 #Top 3 Countries With Highest Population In 1980, 2000, 2010, 2022
83
84 WITH CTE1 AS
85 (SELECT '2022' AS year, country AS Top3_Most_Populated_country,
86  pop2022 AS population
87  FROM pop_data
88  ORDER BY pop2022 DESC LIMIT 3),
89
90 CTE2 AS
91 (SELECT '2010' AS year, country AS Top3_Most_Populated_country,
```

Result Grid

	year	Top3_Most_Populated_country	population
▶	2022	China	1425887337
	2022	India	1417173173
	2022	United States	338289857
	2010	China	1348191368
	2010	India	1240613620
	2010	United States	311182845
	2000	China	1264099069
	2000	India	1059633675
	2000	United States	282398554
	1980	China	982372466
	1980	India	696828385
	1980	United States	223140018

Navigator

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Filter objects

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Administration Schemas

Information

Connection Details

Name:Local instance MySQL80

Host: localhost

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Login

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SSL cipher: TLS_AES_256_GCM_SHA384

Server

MySQL Community Server

Protocol: TCP

Version: 8.0.31

Connector

Version: 8.0.31

worldpopulationanalysis

Limit to 2000 rows

#Top 3 Countries With Highest Population In 1980, 2000, 2010, 2022

WITH CTE1 AS

(SELECT '2022' AS year, country AS Top3_Most_Populated_country,

pop2022 AS population

FROM pop_data

ORDER BY pop2022 DESC LIMIT 3),

CTE2 AS

(SELECT '2010' AS year, country AS Top3_Most_Populated_country,

pop2010 AS population

FROM pop_data

ORDER BY pop2010 DESC LIMIT 3),

CTE3 AS

(SELECT '2000' AS year, country AS Top3_Most_Populated_country,

pop2000 AS population

FROM pop_data

ORDER BY pop2000 DESC LIMIT 3),

CTE4 AS

(SELECT '1980' AS year, country AS Top3_Most_Populated_country,

pop1980 AS population

FROM pop_data

ORDER BY pop1980 DESC LIMIT 3)

SELECT * FROM CTE1

UNION

SELECT * FROM CTE2

UNION

SELECT * FROM CTE3

UNION

SELECT * FROM CTE4;

CHEMAS

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User: root

Current User: root@localhost

SSL Cipher: TLS_AES_256_GCM_SHA384

Server: MySQL Community Server

Protocol: GPL

Version: 8.0.31

Connector

Limit to 2000 rows

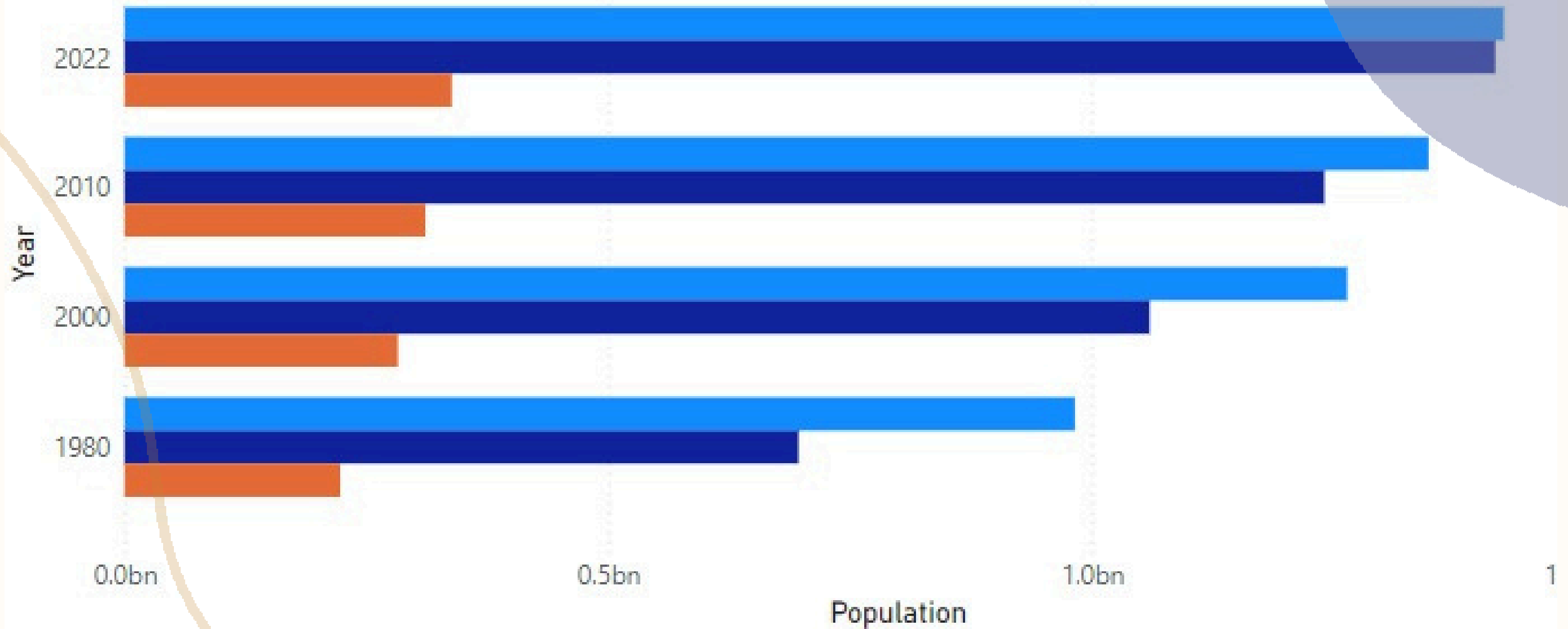
```
104 pop1980 AS population
105 FROM pop_data
106 ORDER BY pop1980 DESC LIMIT 3)
107
108 SELECT * FROM CTE1
109 UNION
110 SELECT * FROM CTE2
111 UNION
112 SELECT * FROM CTE3
113 UNION
114 SELECT * FROM CTE4;
115
116
117
118
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [A](#)

	year	Top3_Most_Populated_country	population
▶	2022	China	1425887337
	2022	India	1417173173
	2022	United States	338289857
	2010	China	1348191368
	2010	India	1240613620
	2010	United States	311182845
	2000	China	1264099069
	2000	India	1059633675
	2000	United States	282398554
	1980	China	982372466
	1980	India	696828385
	1980	United States	223140018

Top3_Most_Populated_country

Top3_Most_Populated_country ● China ● India ● United States



worldpopulationanalysis

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ulation

s

op_data

Columns

country

country_code

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pop1980

pop2000

pop2010

pop2022

pop2023

pop2030

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area

landAreaKm

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Schemas

tails

instance MySQL80

host

Limit to 2000 rows

#Showing World's Population In All Population Census Years

SELECT "World",

SUM(pop1980) as `population (in 1980)`,

SUM(pop2000) as `population (in 2000)`,

SUM(pop2010) as `population (in 2010)`,

SUM(pop2022) as `population (in 2022)`

FROM pop_data;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	World	population (in 1980)	population (in 2000)	population (in 2010)	population (in 2022)
▶	World	4442400374	6147055703	6983785000	7973413043

Total Population Of World By Years

A donut chart illustrating the growth of world population over time. The chart is divided into four segments, each representing a specific year. The segments are color-coded: light blue for 2022, dark blue for 2010, orange for 2000, and purple for 1980. The population values are labeled next to each segment: 4bn for 1980, 6bn for 2000, 7bn for 2010, and 8bn for 2022. A legend on the right side of the chart maps the colors to the years.

Year	Population (bn)
1980	4
2000	6
2010	7
2022	8

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SCHEMAS

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MySQL Community Server

Proc

GPL

Ver8.0.31

Connector

VerC++ 8.0.31

worldpopulationanalysis

Limit to 2000 rows

#Showing Growth Rate Of World Population In Each Census Year

WITH CTE AS

(SELECT

SUM(pop1980) as pop_1980,

SUM(pop2000) as pop_2000,

SUM(pop2010) as pop_2010,

SUM(pop2022) as pop_2022

FROM pop_data),

CTE2 AS(

SELECT "2022" AS year, pop_2022 AS population FROM CTE UNION

SELECT "2000" AS year, pop_2000 AS population FROM CTE UNION

SELECT "2010" AS year, pop_2010 AS population FROM CTE UNION

SELECT "1980" AS year, pop_1980 AS population FROM CTE),

CTE3 AS(

SELECT *,LEAD(population,1,0) OVER(ORDER BY year DESC) AS previous_yr_pop

FROM CTE2)

SELECT *,

CONCAT(ROUND((population-previous_yr_pop)*100.0/previous_yr_pop,2)," % Increase")

AS growth_rate

FROM CTE3;

Result Grid

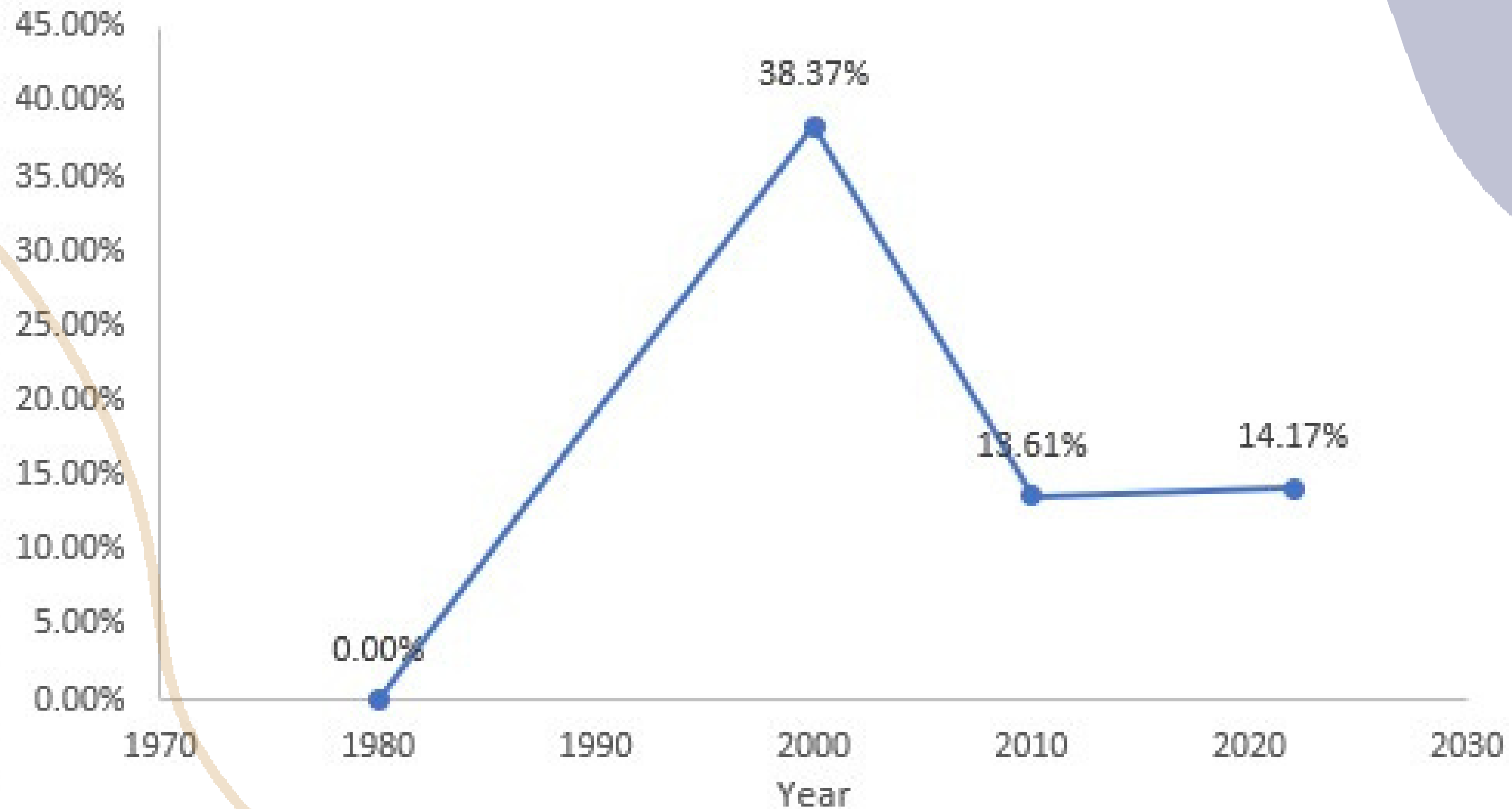
Filter Rows:

Export:

Wrap Cell Content:

	year	population	previous_yr_pop	growth_rate
▶	2022	7973413043	6983785000	14.17 % Increase
	2010	6983785000	6147055703	13.61 % Increase
	2000	6147055703	4442400374	38.37 % Increase
	1980	4442400374	0	NULL

% Growth Of World Population Over Years



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cipher:

Server MySQL Community Server

Protocol: GPL

Version: 8.0.31

Connector VerC++ 8.0.31

worldpopulationanalysis

Limit to 2000 rows

161

162 #Showing Population Density of All countries Over All Census Years

163

164 • SELECT country, country_code,

165 ROUND(pop1980/landAreaKm,2) as Density_1980,

166 ROUND(pop2000/landAreaKm,2) as Density_2000,

167 ROUND(pop2010/landAreaKm,2) as Density_2010,

168 ROUND(pop2022/landAreaKm,2) as Density_2022

169 FROM pop_data;

170

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	country	country_code	Density_1980	Density_2000	Density_2010	Density_2022
▶	India	IN	234.37	356.4	417.27	476.65
	China	CN	104.23	134.13	143.05	151.29
	United States	US	24.39	30.87	34.02	36.98
	Indonesia	ID	78.92	114.02	129.97	146.74
	Pakistan	PK	104.59	200.25	252.25	305.92
	Nigeria	NG	80.1	134.89	176.72	239.95
	Brazil	BR	14.63	21.04	23.49	25.76
	Bangladesh	BD	644.77	992.5	1139.98	1315.1
	Russia	RU	8.44	8.97	8.75	8.84
	Mexico	MX	34.83	50.35	57.89	65.59
	Ethiopia	ET	30.96	59.4	79.07	109.32
	Japan	JP	322.7	347.88	351.46	340.06
	Philippines	PH	162.39	261.46	317.39	387.56
	Egypt	EG	43.95	71.7	87.65	111.5
	DR Congo	CD	11.78	21.44	29.29	43.67
	Vietnam	VN	169	252.05	278.89	313.27
	Iran	IR	23.74	40.4	46.46	54.58
	Turkey	TR	56.27	81.82	93.41	108.91
	Germany	DE	222.64	233.41	232.76	238.62
	Thailand	TH	89.53	123.44	133.63	140.34
	United Kingdom	GB	232.82	243.25	259.41	279.04
	Tanzania	TZ	21.79	38.91	50.93	73.94
	France	FR	98.1	107.14	114.04	118.03
	South Africa	ZA	24.29	38.59	42.69	49.37
	Italy	IT	190.48	192.64	202.3	199.64
	Kenya	KE	28.44	54.21	72.95	94.93

Navigator

SCHEMAS

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pop2050

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landAreaKm

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Administration Schemas

Information

Connection Details

Name:Local instance MySQL80

Host: localhost

Port: 3306

Login

User: root

Cur

User: root@localhost

SSL

cipher: TLS_AES_256_GCM_SHA384

Server

MySQL Community Server

GPL

Ver8.0.31

Connector

VerC++ 8.0.31

worldpopulationanalysis

Limit to 2000 rows

#Predicting Growth Rate in 2030,2050 from 2022

WITH CTE AS(SELECT country, pop2022, pop2030, pop2050,
ROUND((pop2030-pop2022)*100.0/pop2022,2) AS growth_rate_by2030 ,
ROUND((pop2050-pop2022)*100.0/pop2022,2) AS growth_rate_by2050
FROM pop_data)

SELECT country, pop2022, pop2030, pop2050,
CASE
WHEN growth_rate_by2030>0
THEN concat('+',growth_rate_by2030,'%')
ELSE concat(growth_rate_by2030,'%')
END as Growth_Rate2030,
CASE
WHEN growth_rate_by2050>0
THEN concat('+',growth_rate_by2050,'%')
ELSE concat(growth_rate_by2050,'%')
END as growth_rate2050
FROM CTE;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	country	pop2022	pop2030	pop2050	Growth_Rate2030	growth_rate2050
▶	India	1417173173	1514994080	1670490596	+6.90%	+17.87%
	China	1425887337	1415605906	1312636325	-0.72%	-7.94%
	United States	338289857	352162301	375391963	+4.10%	+10.97%
	Indonesia	275501339	292150100	317225213	+6.04%	+15.14%
	Pakistan	235824862	274029836	367808468	+16.20%	+55.97%
	Nigeria	218541212	262580426	377459883	+20.15%	+72.72%
	Brazil	215313498	223908968	230885725	+3.99%	+7.23%
	Bangladesh	171186372	184424144	203904900	+7.73%	+19.11%
	Russia	144713314	141432741	133133035	-2.27%	-8.00%
	Mexico	127504125	134534107	143772364	+5.51%	+12.76%

Object Info Session Result 63

Navigator

SCHEMAS

Filter objects

- spike_metric
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- worldpopulation**
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 - pop2022
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Administration Schemas

Information

Connection Details

Name: Local instance MySQL80

Host: localhost

Port: 3306

Login User: root

Current User: root@localhost

SSL cipher: TLS_AES_256_GCM_SHA384

Server: MySQL Community Server

Protocol: GPL

Version: 8.0.31

Connector: C++ 8.0.31

worldpopulationanalysis

Limit to 2000 rows

```

197
198
199 #Showing Countries With Rapid Growth in years from 1980 to 2022
200
201 • SELECT country,pop1980,pop2022,
202 ROUND(100.0*(pop2022-pop1980)/pop1980,2) AS `growth_rate (in %)`
203 FROM pop_data
204 ORDER BY `growth_rate (in %)` DESC;
205

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content: ☐

	country	pop1980	pop2022	growth_rate (in %)
▶	Qatar	277450	2695122	871.39
	United Arab Emirates	1014048	9441129	831.03
	Mayotte	52233	326101	524.32
	Turks and Caicos Islands	7598	45703	501.51
	Equatorial Guinea	282509	1674908	492.87
	Jordan	2216903	11285869	409.08
	Western Sahara	116775	575986	393.24
	French Guiana	66825	304557	355.75
	Oman	1017462	4576298	349.78
	Angola	8330047	35588987	327.24
	Niger	6173177	26207977	324.55
	Saint Martin	7776	31791	308.83
	Bahrain	362595	1472233	306.03
	Chad	4408230	17723315	302.05
	Cayman Islands	17100	68706	301.79
	Gambia	718586	2705992	276.57
	DR Congo	26708686	99010212	270.70
	Saint Barthelemy	2983	10967	267.65
	Yemen	9204938	33696614	266.07
	Palestine	1453620	5250072	261.17
	Sint Maarten	12243	44175	260.82
	Saudi Arabia	10171710	36408820	257.94
	Uganda	13284026	47249585	255.69
	Ethiopia	34945469	123379924	253.06
	Zambia	5720438	20017675	249.93
	Benin	3833939	13352864	248.28
	Dominican Republic	714171	1170840	245.81

SCHEMAS

Filter objects

- spike_metric
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 - Tables
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 - Columns
 - country
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 - pop2022
 - pop2023
 - pop2030
 - pop2050
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Administration Schemas

Information

Connection Details
 Name: Local instance MySQL80
 Host: localhost
 Port: 3306
 Login User: root
 Current User: root@localhost
 SSL cipher: TLS_AES_256_GCM_SHA384
 Server: MySQL Community Server
 Protocol: GPL
 Version: 8.0.31
 Connector: VerC++ 8.0.31

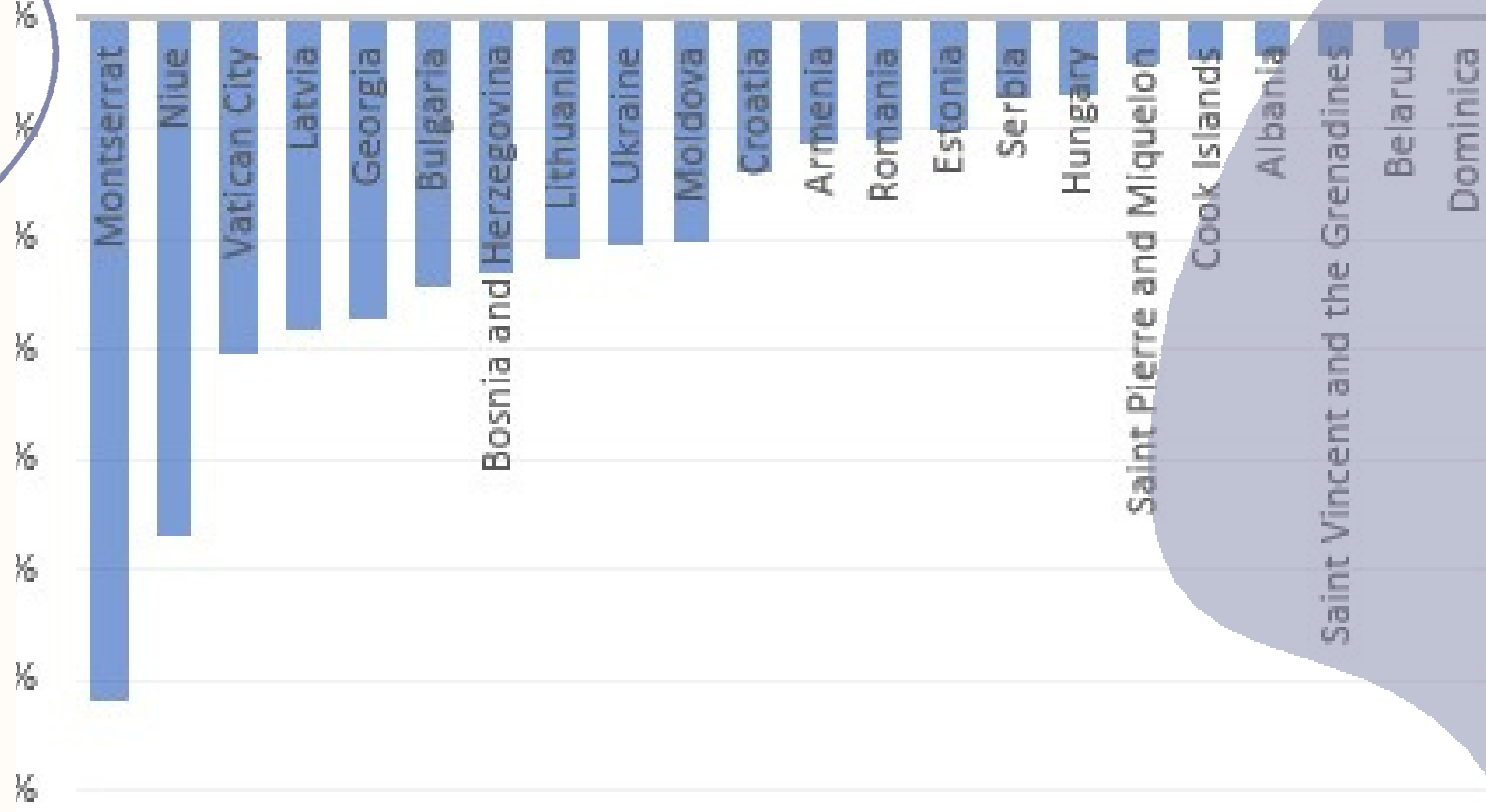
```

209
210
211 #Showing countries with Population Decline in years from 1980-2022
212
213 • SELECT * FROM
214 (
215 SELECT country, pop1980, pop2022,
216 ROUND(100.0*(pop2022-pop1980)/pop1980,2) AS `growth_rate (in %)`
217 FROM pop_data
218 ORDER BY `growth_rate (in %)` ASC
219 )X
220 WHERE `growth_rate (in %)` < 0;
221
222
  
```

Result Grid Filter Rows: Exports: Wrap Cell Content: [IA](#)

	country	pop1980	pop2022	growth_rate (in %)
▶	Montserrat	11452	4390	-61.67
	Niue	3637	1934	-46.82
	Vatican City	733	510	-30.42
	Latvia	2572037	1850651	-28.05
	Georgia	5145843	3744385	-27.23
	Bulgaria	8980606	6781953	-24.48
	Bosnia and Herzegovina	4199820	3233526	-23.01
	Lithuania	3521206	2750055	-21.90
	Ukraine	49973920	39701739	-20.56
	Moldova	4103240	3272996	-20.23
	Croatia	4680144	4030358	-13.88
	Armenia	3135123	2780469	-11.31
	Romania	22125224	19659267	-11.15
	Estonia	1476983	1326062	-10.22
	Serbia	7777010	7221365	-7.14
	Hungary	10698679	9967308	-6.84
	Saint Pierre and Miquelon	6106	5862	-4.00
	Cook Islands	17651	17011	-3.63
	Albania	2941651	2842321	-3.38
	Saint Vincent and the G...	107480	103948	-3.29
	Belarus	9817357	9534054	-3.00

Top10 Countries With Highest Decline From 1980-2022



SCHEMAS

Filter objects

- spike_metric
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 - pop2000
 - pop2010
 - pop2022
 - pop2023
 - pop2030
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Administration Schemas

```

224
225
226 #Showing Top 10 Countries Which are Expected to Grow Rapidly by 2050
227
228 with CTE AS
229 (
230 SELECT country, pop2022, pop2050,
231 ROUND((pop2050-pop2022)*100.0/pop2022,2) AS `growth_by_2050 (in %)`
232 FROM pop_data
233 )
234
235 SELECT * FROM CTE
236 WHERE `growth_by_2050 (in %)` >0
237 ORDER BY `growth_by_2050 (in %)` DESC LIMIT 10;
238

```

Information

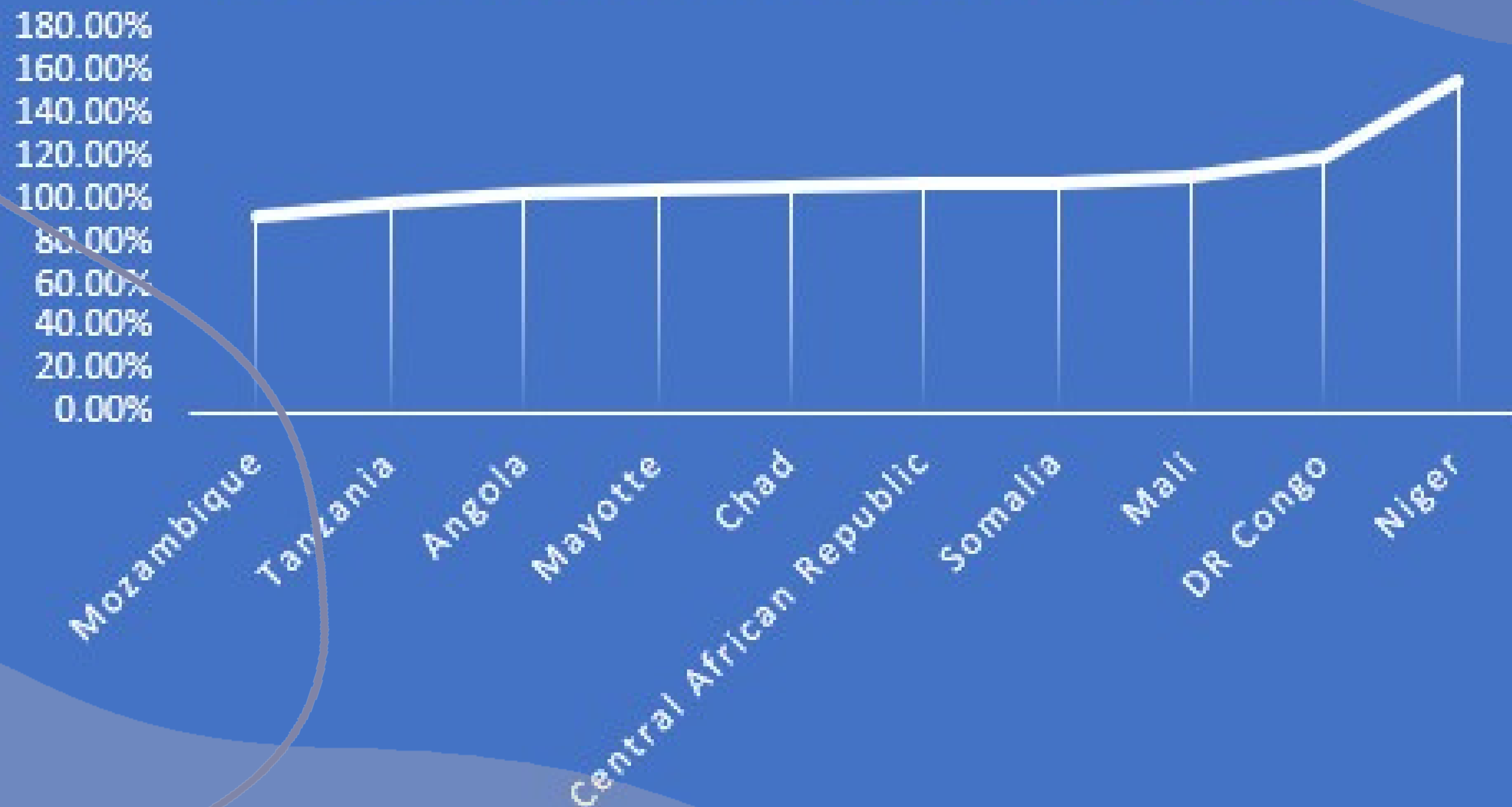
Connection Details

Name: Local instance MySQL80
 Host: localhost
 Port: 3306
 Login User: root
 Current User: root@localhost
 SSL cipher: TLS_AES_256_GCM_SHA384
 Server: MySQL Community Server
 Protocol: GPL
 Version: 8.0.31
 Connector: C++ 8.0.31

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	country	pop2022	pop2050	growth_by_2050 (in %)
▶	Niger	26207977	67043296	155.81
	DR Congo	99010212	217494003	119.67
	Mali	22593590	47439802	109.97
	Somalia	17597511	36462830	107.20
	Central African Republic	5579144	11533423	106.72
	Chad	17723315	36452035	105.67
	Mayotte	326101	664141	103.66
	Angola	35588987	72328068	103.23
	Tanzania	65497748	129931520	98.38
	Mozambique	32969518	63044497	91.22

TOP 10 COUNTRIES WITH HIGHEST GROWTH RATE (2022-2050)



SCHEMAS

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 - pop1980
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 - pop2010
 - pop2022
 - pop2023
 - pop2030
 - pop2050
 - area
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Information

Connection Details

Name: Local instance MySQL80
Host: localhost
Port: 3306
Login: root
User: root
Current User: root@localhost
SSL cipher: TLS_AES_256_GCM_SHA384
Server: MySQL Community Server
Protocol: GPL
Version: 8.0.31
Connector: VerC++ 8.0.31

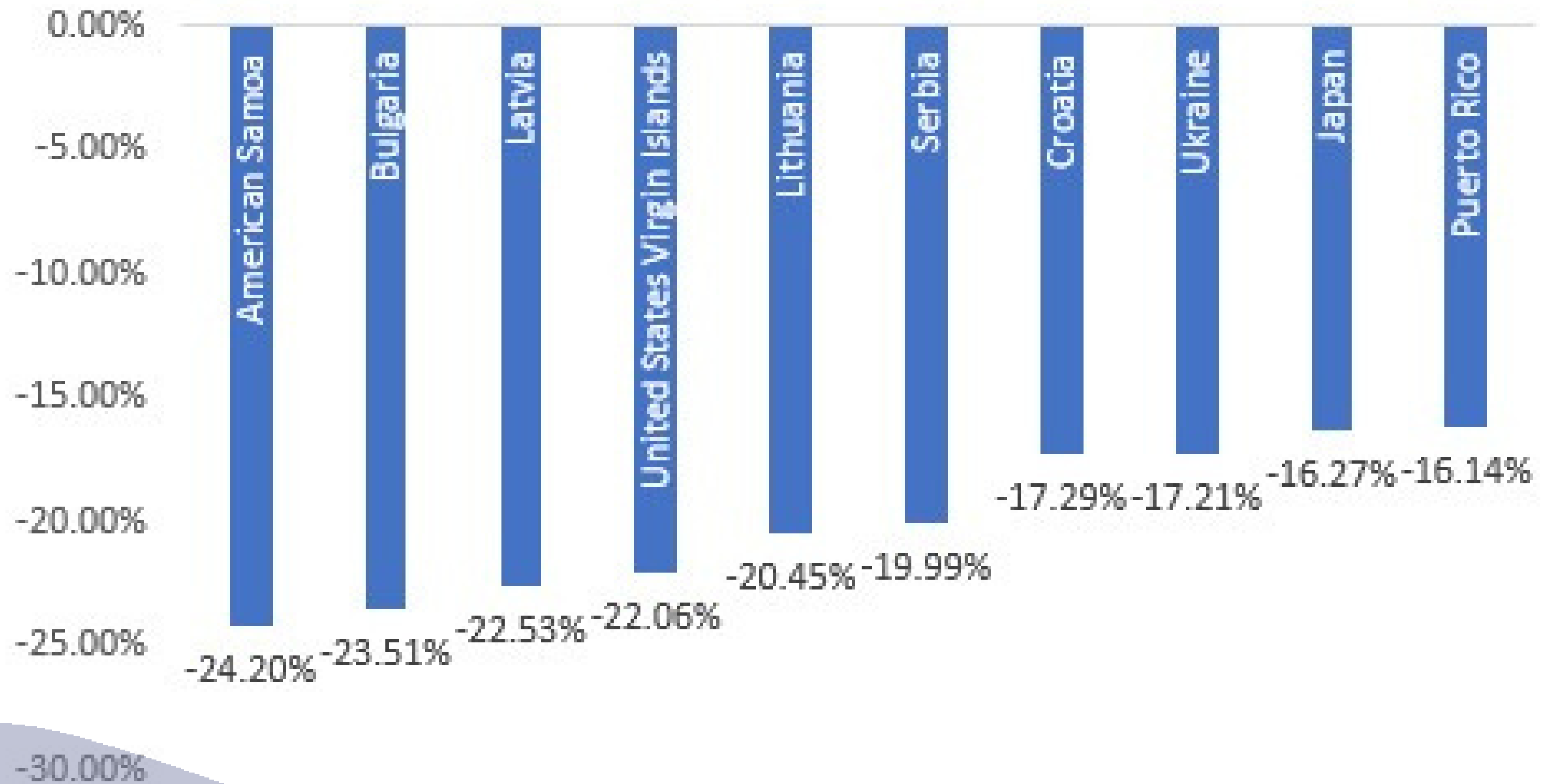
Limit to 2000 rows

```
242
243 #Showing Top 10 Countries Which are Expected to Decline Rapidly by 2050
244
245 WITH CTE AS
246 (
247     SELECT country, pop2022, pop2050,
248     ROUND((pop2050-pop2022)*100.0/pop2022,2) AS `growth_by_2050 (in %)`
249     FROM pop_data
250 )
251
252 SELECT * FROM CTE
253 WHERE `growth_by_2050 (in %)` < 0
254 ORDER BY `growth_by_2050 (in %)` LIMIT 10;
255
256
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	country	pop2022	pop2050	growth_by_2050 (in %)
▶	American Samoa	44273	33557	-24.20
	Bulgaria	6781953	5187392	-23.51
	Latvia	1850651	1433728	-22.53
	United States Virgin Islands	99465	77519	-22.06
	Lithuania	2750055	2187550	-20.45
	Serbia	7221365	5777806	-19.99
	Croatia	4030358	3333425	-17.29
	Ukraine	39701739	32867719	-17.21
	Japan	123951692	103784357	-16.27
	Puerto Rico	3252407	2727624	-16.14

Top 10 Countries With Highest Decline From 2022-2050



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Information

Connection Details

Name:Local instance MySQL80

Host: localhost

Port: 3306

Login

User: root

User: root@localhost

SSL

cipher: TLS_AES_256_GCM_SHA384

Server

MySQL Community Server

Proc

GPL

Ver8.0.31

Connector

VerC++ 8.0.31

Limit to 2000 rows

#Showing the Population Estimation of 3 Most Populous Country By 2030 & 2050 i.e. China, India, US

WITH CTE AS(SELECT country, pop2022, pop2030, pop2050,
ROUND((pop2030-pop2022)*100.0/pop2022,2) AS growth_rate_by2030 ,
ROUND((pop2050-pop2022)*100.0/pop2022,2) AS growth_rate_by2050
FROM pop_data
WHERE country_code IN ('IN','CN','US'))

SELECT country, pop2022, pop2030, pop2050,
CASE
WHEN growth_rate_by2030>0
THEN concat('+',growth_rate_by2030,'%')
ELSE concat(growth_rate_by2030,'%')
END as Growth_Rate2030,
CASE
WHEN growth_rate_by2050>0
THEN concat('+',growth_rate_by2050,'%')
ELSE concat(growth_rate_by2050,'%')
END as growth_rate2050
FROM CTE;

Result Grid

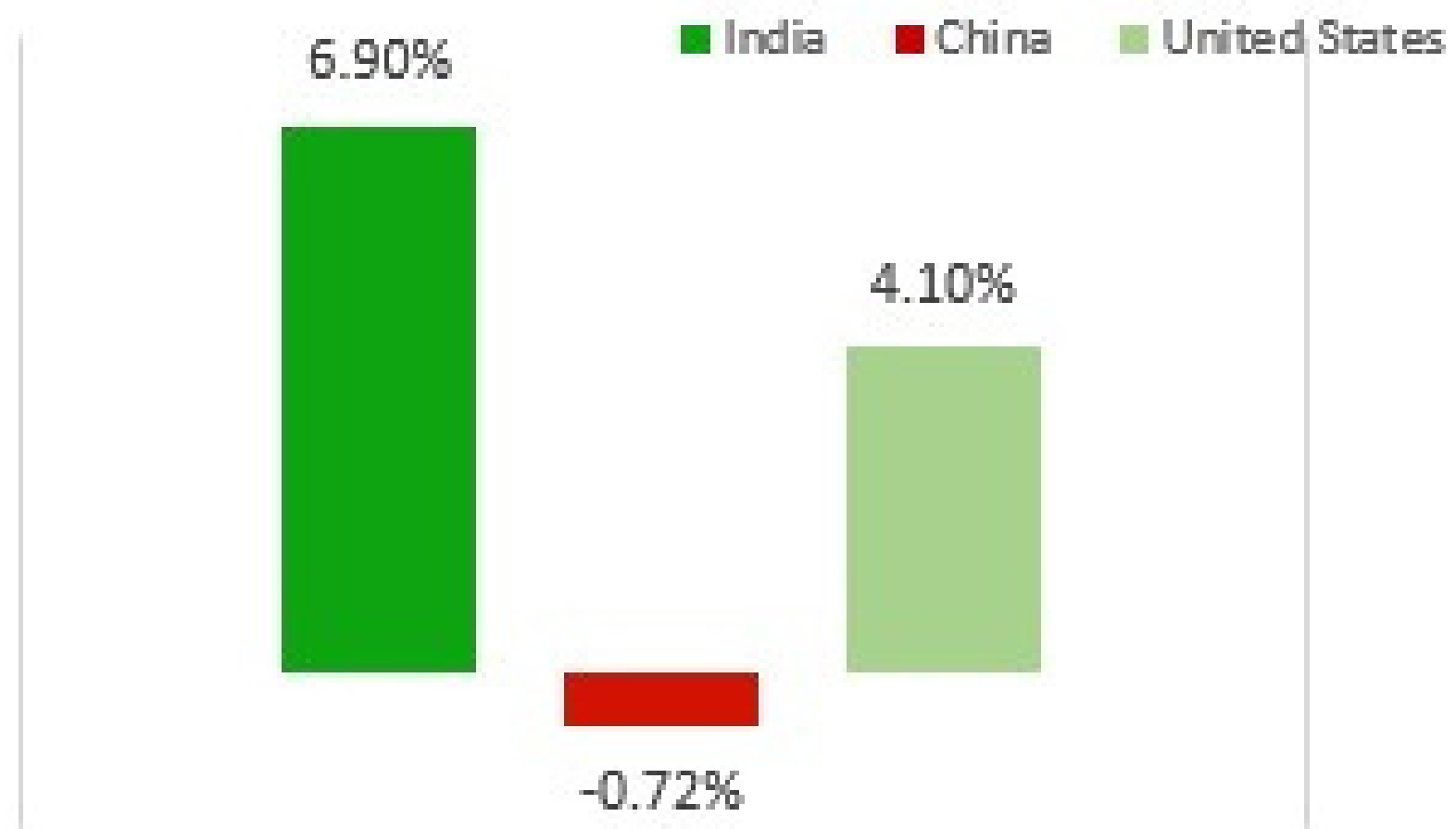
Filter Rows:

Export:

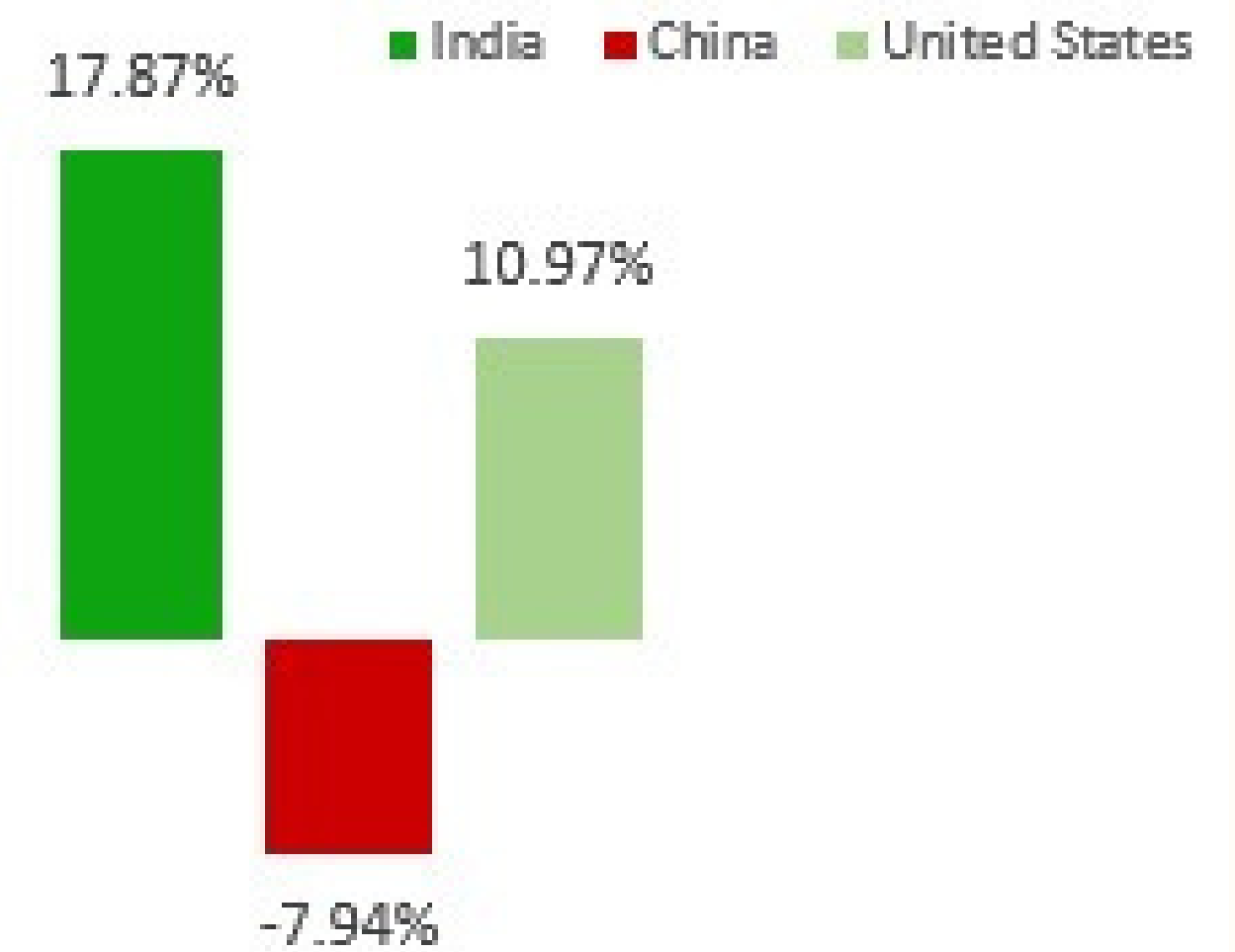
Wrap Cell Content:

	country	pop2022	pop2030	pop2050	Growth_Rate2030	growth_rate2050
▶	India	1417173173	1514994080	1670490596	+6.90%	+17.87%
	China	1425887337	1415605906	1312636325	-0.72%	-7.94%
	United States	338289857	352162301	375391963	+4.10%	+10.97%

Expected Growth Rate Of 3 Most Populous Country By 2030



Expected Growth Rate Of 3 Most Populous Country By 2050



SCHEMAS

Filter objects

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pop2030

pop2050

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Information

Connection Details

Name:Local instance MySQL80

Host: localhost

Port: 3306

Login: root

Limit to 2000 rows

#Showing 5 Most Populous Expected Countries By 2050

SELECT country, country_code, pop2050 AS population

FROM pop_data

ORDER BY pop2050 DESC LIMIT 5;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	country	country_code	population
▶	India	IN	1670490596
	China	CN	1312636325
	Nigeria	NG	377459883
	United States	US	375391963
	Pakistan	PK	367808468

Navigator

SCHEMAS

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Administration Schemas

Information

Connection Details

Name:Local instance MySQL80

Host: localhost

Port: 3306

Login

User: root

Current User: root@localhost

SSL cipher: TLS_AES_256_GCM_SHA384

Server

MySQL Community Server

Protocol: GPL

Version: 8.0.31

Connector

worldpopulationanalysis

Limit to 2000 rows

#Showing 10 Most Populous Countries In 2022

SELECT country, country_code, pop2022 AS population

FROM pop_data

ORDER BY pop2022 DESC LIMIT 10;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	country	country_code	population
▶	China	CN	1425887337
	India	IN	1417173173
	United States	US	338289857
	Indonesia	ID	275501339
	Pakistan	PK	235824862
	Nigeria	NG	218541212
	Brazil	BR	215313498
	Bangladesh	BD	171186372
	Russia	RU	144713314
	Mexico	MX	127504125

SCHEMAS

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Information

Connection Details

Name:Local instance MySQL80

Host: localhost

Port: 3306

Login

User: root

Cur

User: root@localhost

SSL

cipher: TLS_AES_256_GCM_SHA384

Server

Limit to 2000 rows

303

304

305

306

307

308

309

310

311

312

313

#Expected Population Of World By 2030 & 2050

•

SELECT "world", SUM(pop2022) AS`Population (in 2022)` , SUM(pop2030) AS`Population (in 2030)` ,

SUM(pop2050) AS `Population (in 2050)` ,

CONCAT(ROUND(100.0*(SUM(pop2030)-SUM(pop2022))/SUM(pop2022),2),'%') AS growthby2030,

CONCAT(ROUND(100.0*(SUM(pop2050)-SUM(pop2022))/SUM(pop2022),2),'%') AS growthby2050

FROM pop_data ;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	world	Population (in 2022)	Population (in 2030)	Population (in 2050)	growthby2030	growthby2050
▶	world	7973413043	8544417648	9707789237	7.16%	21.75%



Thank you!