

SQLQuery2.sql - I...AMING\Lenovo (54))*

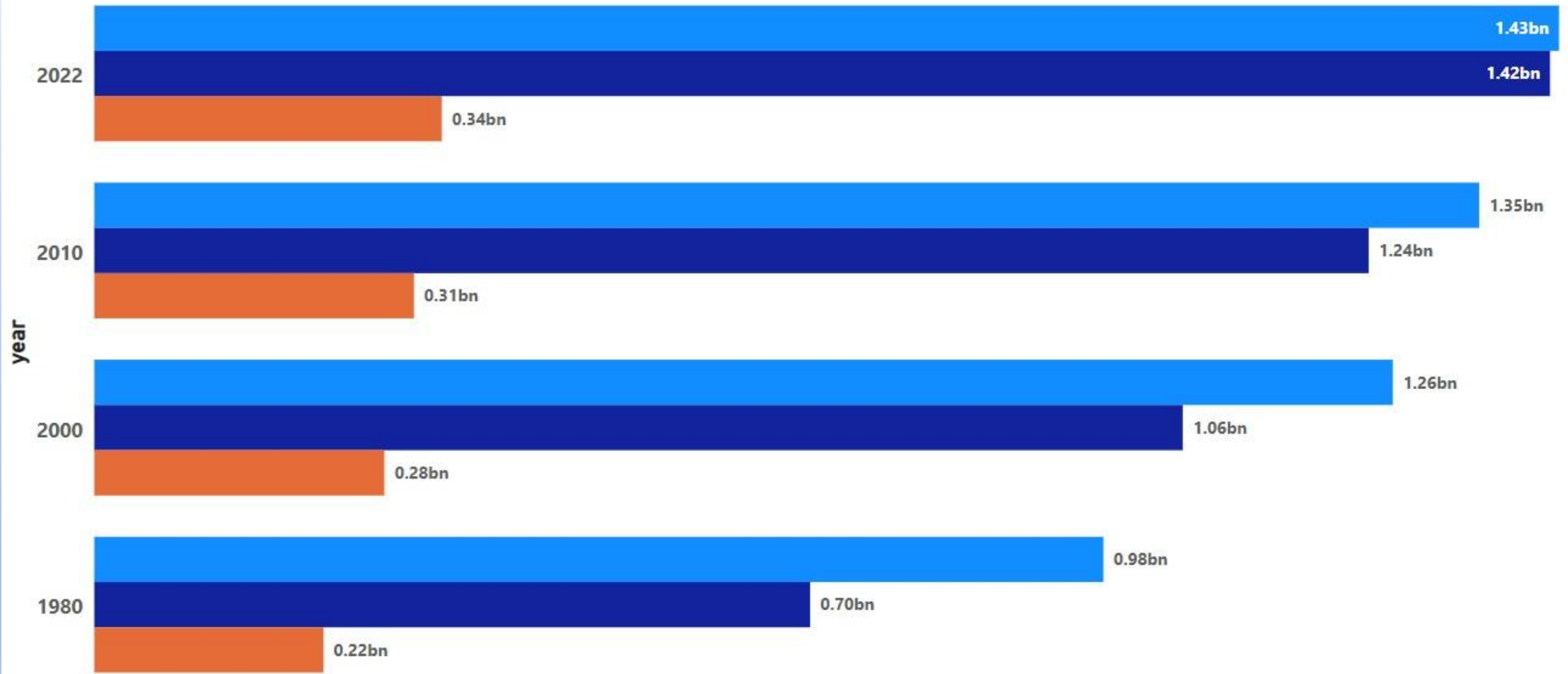
```
1  /* Top 3 Most Populated Countries in 1980, 2000, 2022
2     China, India, US */
3
4  SELECT
5     Country,
6     pop1980 AS YEAR_1980,
7     pop2000 AS YEAR_2000,
8     pop2022 AS YEAR_2022
9  FROM
10     WorldPopulation
11  WHERE
12     Country IN ('INDIA', 'CHINA', 'UNITED STATES')
13
```

Results Messages

	Country	YEAR_1980	YEAR_2000	YEAR_2022
1	India	696828385	1059633675	1417173173
2	China	982372466	1264099069	1425887337
3	United States	223140018	282398554	338289857

Population of Top 3 Countries by Year

Top3_Most_Populated_country ● China ● India ● United States





Solution1

SQLQuery1.sql - I...AMING\Lenovo (54))*

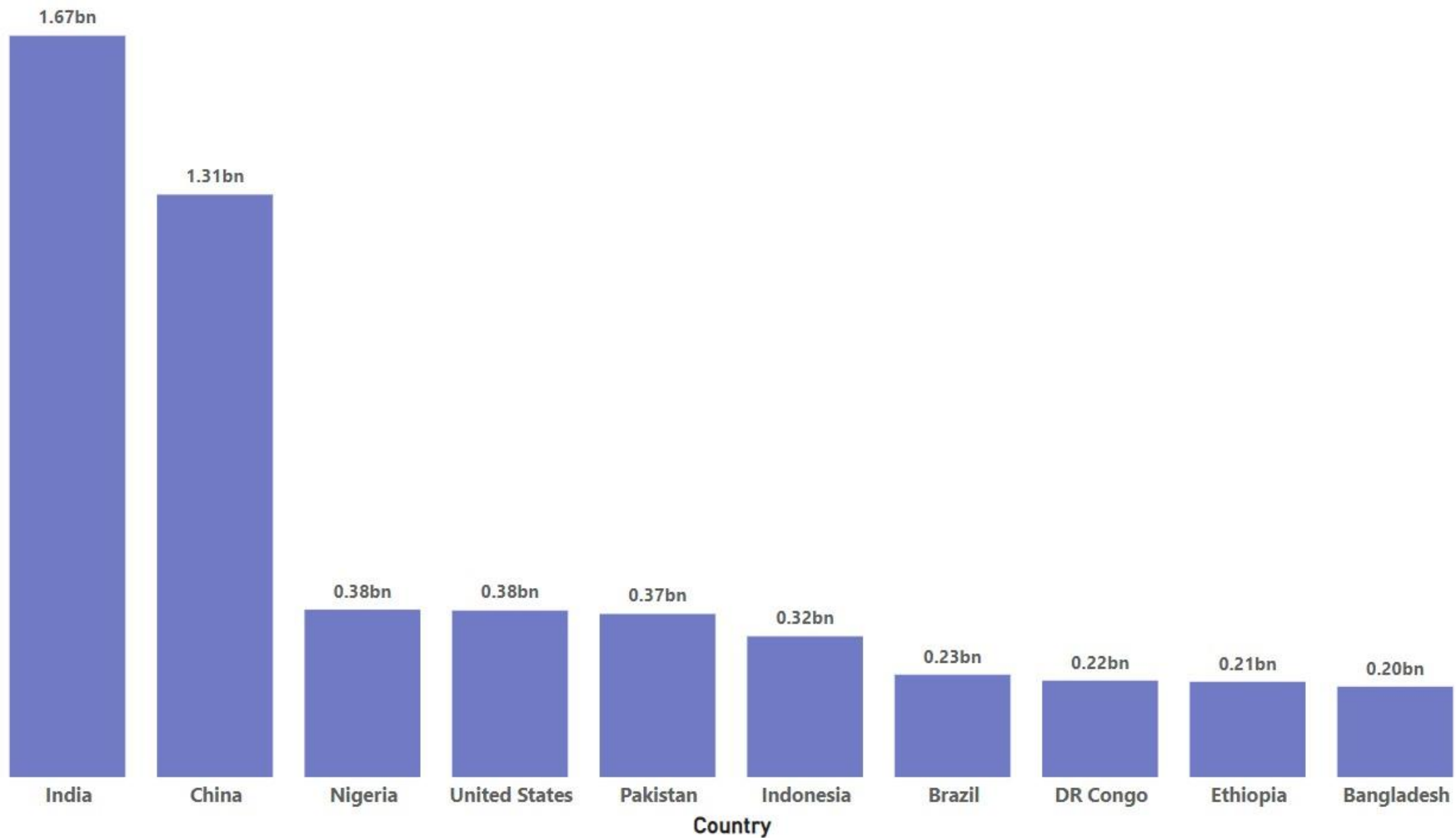
```
1      -- Showing 10 Most Populous Expected Countries By 2050
2
3      SELECT TOP 10
4          Country,
5          pop2050 AS POPULATION_BY_2050
6      FROM
7          WorldPopulation
8      ORDER BY
9          POPULATION_BY_2050 DESC
10
```

Results

Messages

	Country	EEXPECTED_POPULATION_BY_2050
1	India	1670490596
2	China	1312636325
3	Nigeria	377459883
4	United States	375391963
5	Pakistan	367808468
6	Indonesia	317225213
7	Brazil	230885725
8	DR Congo	217494003
9	Ethiopia	214812309
10	Bangladesh	203904900

Expected Population by 2050



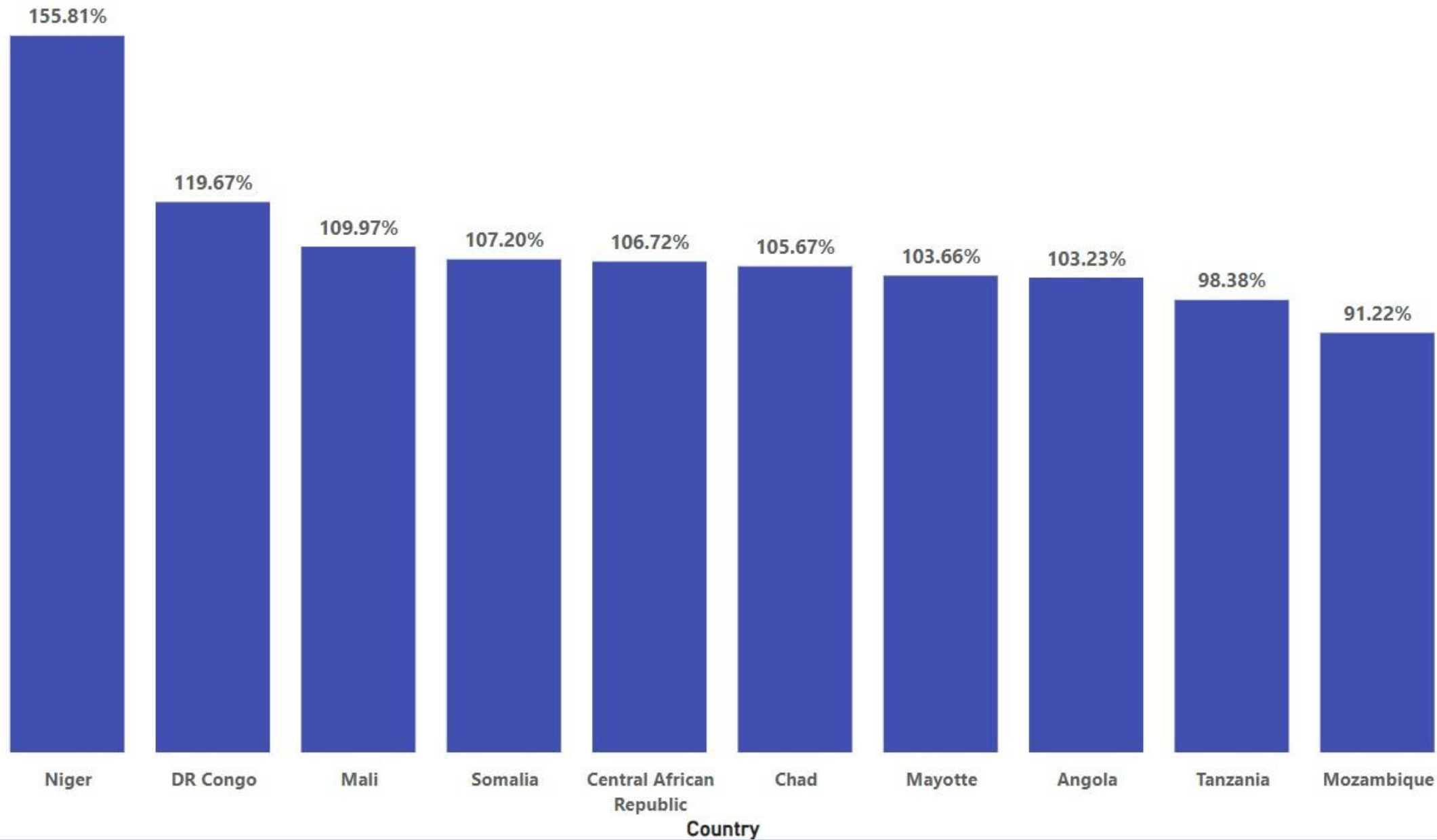


SQLQuery3.sql - I...AMING\Lenovo (57))*

```
1  -- Top 10 Countries Which are Expected to Grow Rapidly by 2050
2
3  SELECT
4      TOP 10
5      Country, pop2022 AS YEAR_2022, pop2050 AS YEAR_2050,
6      CAST( 100.0* (pop2050 - pop2022) / pop2022 AS decimal(18,2))
7      AS GROWTH_RATE_PERCENTAGE
8  FROM
9      WorldPopulation
10 ORDER BY
11     GROWTH_RATE_PERCENTAGE DESC
```

Results		Messages		
	Country	YEAR_2022	YEAR_2050	GROWTH_RATE_PERCENTAGE
1	Niger	26207977	67043296	155.81
2	DR Congo	99010212	217494003	119.67
3	Mali	22593590	47439802	109.97
4	Somalia	17597511	36462830	107.20
5	Central African Republic	5579144	11533423	106.72
6	Chad	17723315	36452035	105.67
7	Mayotte	326101	664141	103.66
8	Angola	35588987	72328068	103.23
9	Tanzania	65497748	129931520	98.38
10	Mozambique	32969518	63044497	91.22

Expected Growth Rate from 2022 to 2050





Solution1

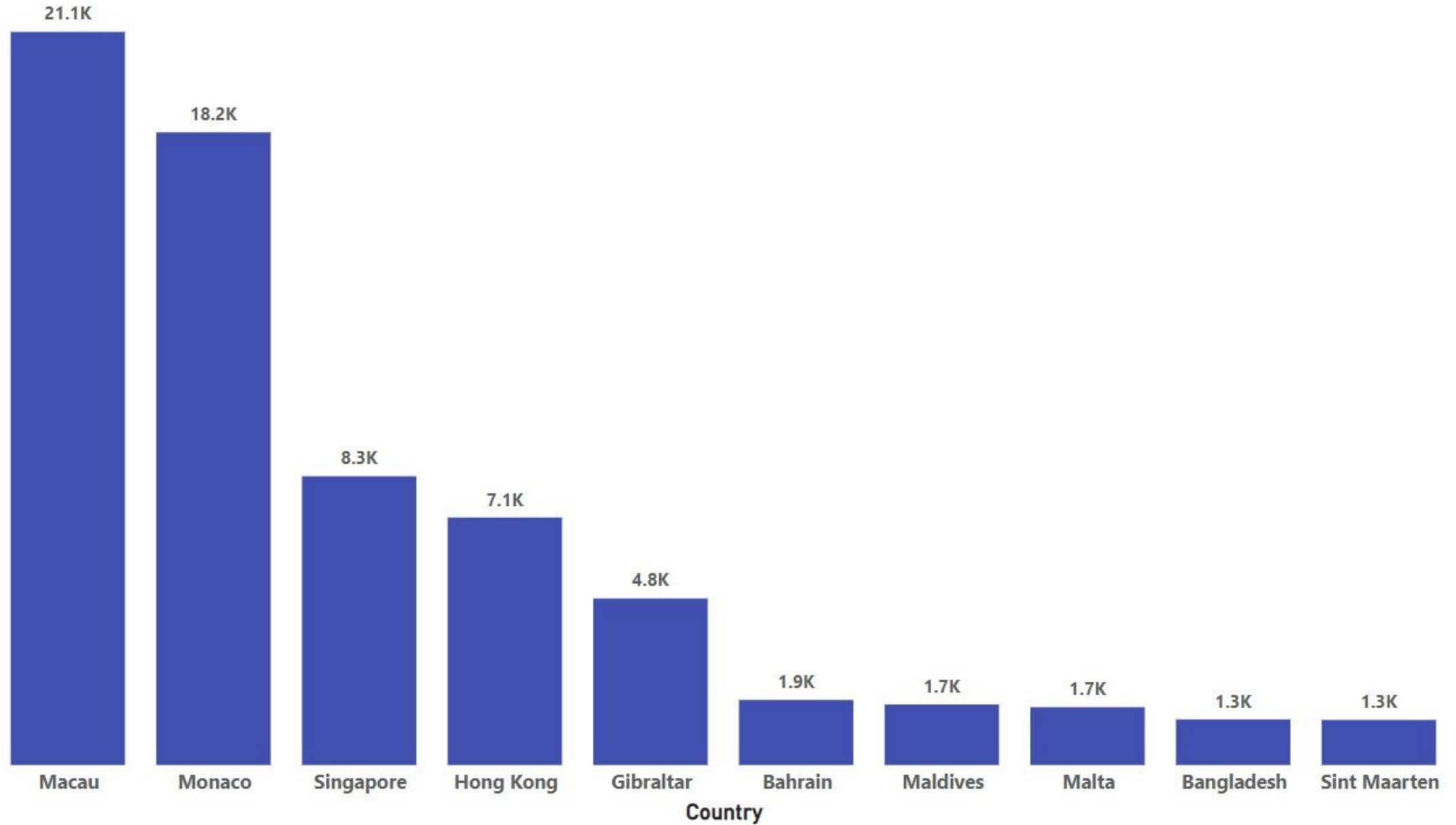
SQLQuery4.sql - I...AMING\Lenovo (52))*

```
1  -- Showing top 10 Densely Populated countries Over in 2022
2
3  SELECT
4      top 10
5      Country,
6      CAST(pop2022/landAreaKm AS decimal(18,2)) AS Population_Density_2022
7  FROM
8      WorldPopulation
9  order by
10     Population_Density_2022 desc
```

Results Messages

	Country	Population_Density_2022
1	Macau	21129.73
2	Monaco	18234.50
3	Singapore	8322.69
4	Hong Kong	7132.25
5	Gibraltar	4801.32
6	Bahrain	1875.46
7	Maldives	1745.96
8	Malta	1666.52
9	Bangladesh	1315.10
10	Sint Maarten	1299.26

Top10 Densely Populated Countries in 2022





Solution1

SQLQuery5.sql - I...AMING\Lenovo (52))*

```
1
2      /*Showing Growth Rate Of World Population In Each Census Year*/
3
4  with CTE as
5  (
6      SELECT
7          SUM(pop1980) AS POP_1980,
8          SUM(pop2000) AS POP_2000,
9          SUM(pop2010) AS POP_2010,
10         SUM(pop2022) AS POP_2022
11     FROM WorldPopulation),
12     CTE2 AS(
13         SELECT '2022' AS YEAR, POP_2022 AS POPULATION FROM CTE UNION
14         SELECT '2010' AS YEAR, POP_2010 AS POPULATION FROM CTE UNION
15         SELECT '2000' AS YEAR, POP_2000 AS POPULATION FROM CTE UNION
16         SELECT '1980' AS YEAR, POP_1980 AS POPULATION FROM CTE ),
17     CTE3 AS(
18         SELECT *,
19             LEAD(POPULATION,1,0) OVER(ORDER BY YEAR DESC) AS PREVIOUS_YEAR_POPULATION
20         FROM CTE2
21     )
22     SELECT *,
23     CASE
24         WHEN PREVIOUS_YEAR_POPULATION = 0 THEN NULL
25         ELSE CAST(100.0*(POPULATION - PREVIOUS_YEAR_POPULATION) / PREVIOUS_YEAR_POPULATION AS DECIMAL(18,2))
26     END AS GROWTH_RATE
27     FROM
28         CTE3
```



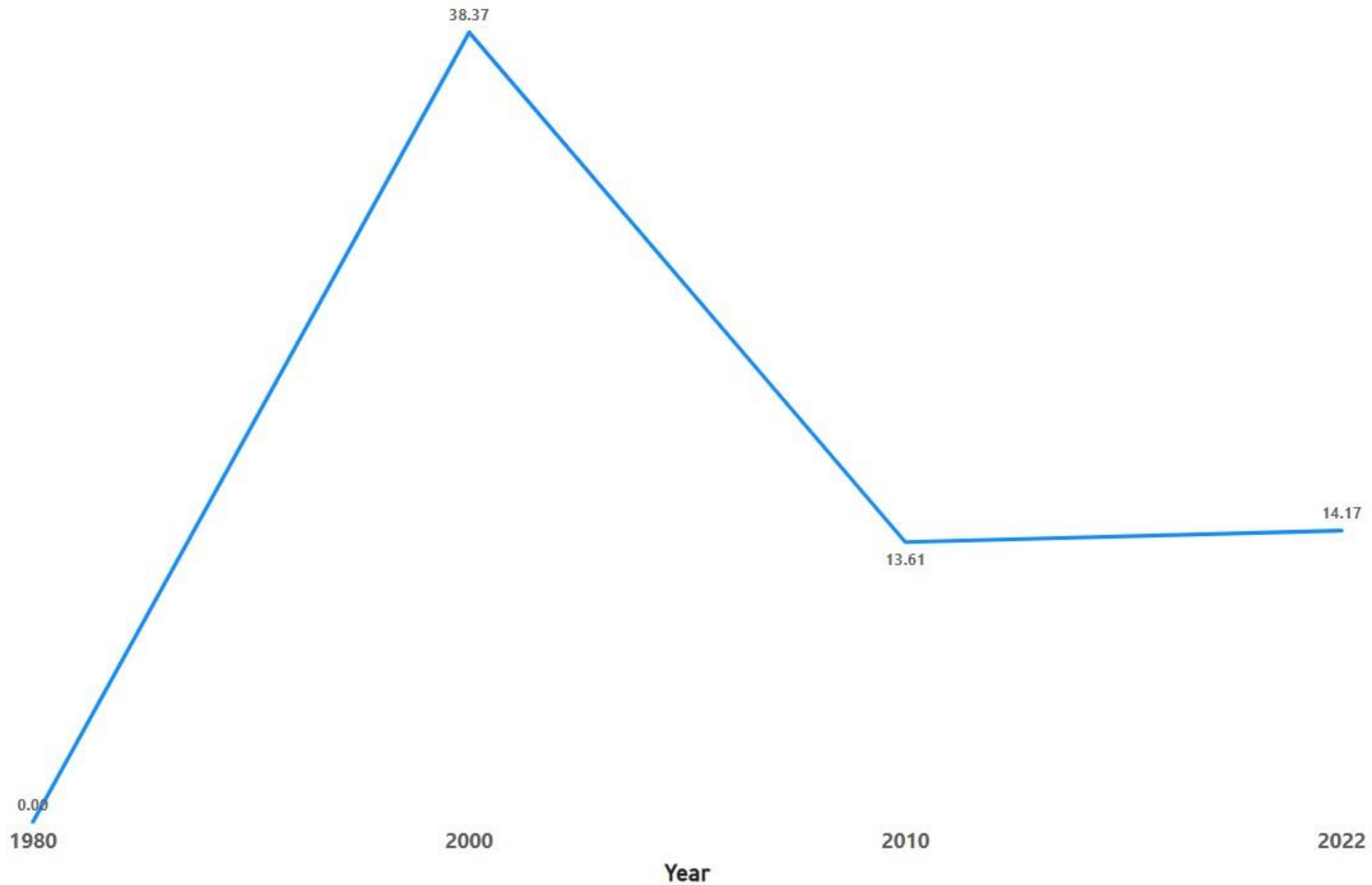
Results



Messages

	YEAR	POPULATION	PREVIOUS_YEAR_POPULATION	GROWTH_RATE
1	2022	7973413043	6983785000	14.17
2	2010	6983785000	6147055703	13.61
3	2000	6147055703	4442400374	38.37
4	1980	4442400374	0	NULL

World Population Change Percentage by Year



SQLQuery6.sql - I...AMING\Lenovo (56))* ✕

```
1  -- Top 10 Countries With Rapid Population Growth in years from 1980 to 2022
2
3  SELECT
4      TOP 10
5      Country,
6      pop1980,
7      pop2022,
8      cast(100.0 * (pop2022-pop1980)/pop1980 as decimal(18,2)) AS GROWTH_RATE_PERCENTAGE
9  FROM
10     WorldPopulation
11  ORDER BY
12     GROWTH_RATE_PERCENTAGE DESC
```

Results Messages

	Country	pop1980	pop2022	GROWTH_RATE_PERCENTAGE
1	Qatar	277450	2695122	871.39
2	United Arab Emirates	1014048	9441129	831.03
3	Mayotte	52233	326101	524.32
4	Turks and Caicos Islands	7598	45703	501.51
5	Equatorial Guinea	282509	1674908	492.87
6	Jordan	2216903	11285869	409.08
7	Western Sahara	116775	575986	393.24
8	French Guiana	66825	304557	355.75
9	Oman	1017462	4576298	349.78
10	Angola	8330047	35588987	327.24

Population Growth Rate of from 1980 to 2022

