# Data Analysis Report

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**Introduction**

This report presents an analysis of demographic data across various continents and years, addressing several key population-related questions. The data analysis was conducted using **SQL**, **Excel**, and **Power BI** to extract, process, and visualize the insights. The following questions have been analysed:

1. **How many entries in the database are from Africa?**
   * This query investigates the number of data entries related to countries from the African continent.
2. **What was the total population of Africa in 2010?**
   * This analysis summarizes the total population of African countries in the year 2010.
3. **What is the average population of countries in South America in 2000?**
   * A query of the average population across South American countries in the year 2000.
4. **What country had the smallest population in 2007?**
   * This analysis identifies the country with the smallest population in the year 2007.
5. **How much has the population of Europe grown from 2000 to 2010?**
   * This query evaluates the population growth of European countries from 2000 to 2010.

**How many entries in the database are from Africa?**

SELECT COUNT(\*) AS Entries\_From\_Africa

FROM countries

WHERE continent LIKE 'Africa';

**ANSWER:56**

**What was the total population of Africa in 2010?**

SELECT a.continent, p.year, SUM(p.population) AS total\_population

FROM countries AS a

INNER JOIN population\_years AS p

ON a.id = p.country\_id

WHERE a.continent = 'Africa' AND p.year = 2010

GROUP BY a.continent, p.year;

GO

**ANSWER: 991**

**What is the average population of countries in South America in 2000?**

SELECT a.continent, p.year, AVG(p.population) AS avg\_population

FROM countries AS a

INNER JOIN population\_years AS p

ON a.id = p.country\_id -- assuming `country\_id` is the joining column

WHERE a.continent = 'South America' AND p.year = 2000

GROUP BY a.continent, p.year

ORDER BY avg\_population;

GO

**ANSWER: 24**

**What country had the smallest population in 2007?**

SELECT Top 1 a.name, p.year, MIN(p.population) AS min\_population

FROM countries AS a

INNER JOIN population\_years AS p

ON a.id = p.country\_id

WHERE p.year = 2007

GROUP BY a.name, p.year

ORDER BY min\_population ASC;

GO

**ANSWER: Former Serbia and Montenegro**

**How much has the population of Europe grown from 2000 to 2010?**

SELECT

a.continent,

SUM(CASE WHEN p.year = 2010 THEN p.population ELSE 0 END) -

SUM(CASE WHEN p.year = 2000 THEN p.population ELSE 0 END) AS population\_growth

FROM countries AS a

INNER JOIN population\_years AS p

ON a.id = p.country\_id

WHERE a.continent = 'Europe'

AND p.year IN (2000, 2010)

GROUP BY a.continent;

GO

**ANSWER: -8**