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FSDA Assignment 2: - Factbook Project

USE for_practice;

Creating a table for the data

CREATE TABLE IF NOT EXISTS factbook

(

        country VARCHAR(150),

    area BIGINT,

    birth_rate DECIMAL(10,2),

    death_rate   DECIMAL(10,2),

    infant_mortality_rate BIGINT,

    internet_users DECIMAL(10,2),

    life_exp_at_birth INT,

    maternal_mortality_rate   DECIMAL(10,2),

    net_migration_rate DECIMAL(10,2),

    population BIGINT,

    population_growth_rate DECIMAL(10,2)

);

Loading the data into the table factbook

LOAD DATA INFILE "C:\\Notes\\Statistics\\Assignments\\FSDA_assignments\\Assignment2_SQL\\Project 2 Factbook Project\\cia_factbook.csv"

INTO TABLE factbook

FIELDS TERMINATED BY ','

ENCLOSED BY ''''

LINES TERMINATED BY "\n"

IGNORE 1 ROWS;

/***
***/

Answer to the question

1. Which country has the highest population?

```
WITH CTE AS
(
	SELECT
		country,
		DENSE_RANK() OVER(ORDER BY population DESC) AS "CountryRank",
		population
	FROM factbook
)
SELECT * FROM CTE
WHERE CountryRank = 1;
```


2. Which country has the least number of people?

```
WITH CTE AS
(
	SELECT
		country,
		DENSE_RANK() OVER(ORDER BY population ASC) AS "CountryRank",
		population
	FROM factbook
)
SELECT * FROM CTE
```

```
WHERE CountryRank = 1;
```

3. Which country is witnessing the highest population growth?

```
WITH CTE AS
(
        SELECT
                country,
                DENSE_RANK() OVER(ORDER BY population_growth_rate DESC) AS
"CountryRank",
                population_growth_rate
        FROM factbook
)
SELECT * FROM CTE
WHERE CountryRank = 1;
```

4. Which country has an extraordinary number for the population?

```
WITH CTE AS
(
        SELECT
                country,
                DENSE_RANK() OVER(ORDER BY population DESC) AS "CountryRank",
                population
        FROM factbook
)
SELECT * FROM CTE
WHERE CountryRank = 1;
```

5. Which is the most densely populated country in the world?

```
SELECT
        country, (population / area) AS 'Population Density',
```

```sql
    DENSE_RANK() OVER(ORDER BY (population / area) DESC)
FROM factbook
GROUP BY country
LIMIT 1;
/**************************************************************************
**************************************************************/
```