

Roshan Poudel - FEB 20

Sequence of commands executed to get to the answers are as follows:

```
mysql -h warren.sewanee.edu -u powder0 -p
show databases;
use cs284_spring23;
show tables;
describe countries;
select * from countries;
```

```
select count(country_name) from countries;
```

count(country_name)
194

1. There are 194 countries listed in the table.

```
select country_name, population
from countries
order by population desc
limit 7;
```

country_name	population
China	1397715000
India	1366417750
United States of America	328239520
Indonesia	270625570
Pakistan	216565320
Brazil	211049530
Nigeria	200963600

2. Nigeria is the 7th most populous country in the world.

```
select count(*) as "area between 1 mil and 10 mil"
from countries
where land_area >= 1000000 and land_area <= 10000000;
```

```
+-----+
| area between 1 mil and 10 mil |
+-----+
|                               28 |
+-----+
```

3. 28 countries have a land area between 1 million and 10 million square kilometers.

```
select count(*) as "Countries with 12 letters long name"
from countries
where length(country_name) = 12;
```

```
+-----+
| Countries with 12 letters long name |
+-----+
|                                     6 |
+-----+
```

4. There are 6 countries that have a name that is exactly 12 letters long.

```
select count(*)
from countries
where population < 100000000 and (country_name like 'e%' or country_name like 'a%' or
```

```
+-----+
| count(*) |
+-----+
|         30 |
+-----+
```

5. 30 countries

```
select country_name
from countries
order by population/land_area asc
limit 5;
```

```
+-----+
| country_name |
+-----+
| Mongolia     |
| Namibia      |
| Australia    |
| Iceland      |
| Suriname     |
+-----+
```

6. Mongolia, Namibia, Australia, Iceland, and Suriname are 5 countries that have the lowest population density in terms of people per square kilometer.