

1. What query would you run to get all the countries with a Surface Area below 501 and a Population greater than 100,000? Include the country name, surface area, and population in your results.

```
select * from countries;  
SELECT name, surface_area, population  
FROM countries  
WHERE surface_area < 501 AND population > 100000;
```

2. What query would you run to get countries with only a Constitutional Monarchy with a capital greater than 200 and a life expectancy greater than 75 years? Include the country name, form of government, and capital in your results.

```
SELECT name, government_form, capital  
FROM countries  
WHERE government_form = 'Constitutional Monarchy'  
AND capital > 200  
AND life_expectancy > 75;
```

3. What query would you run to summarize the number of countries in each region? The query should display the name of the region and the number of countries. Also, the query should arrange the result by the number of countries in descending order.

```
SELECT region, COUNT(*) as num_countries  
FROM countries  
GROUP BY region  
ORDER BY num_countries DESC;
```

4. What query would you run to get all the countries that speak Slovene? Your query should return the name of the country, language, and language percentage. Your query should arrange the result by language percentage in descending order.

```
SELECT countries.name, languages.language, languages.percentage  
FROM countries  
JOIN languages ON countries.id = languages.country_id  
WHERE languages.language = 'Slovene'  
ORDER BY languages.percentage DESC;
```

5. What query would you run to display the total number of cities for each country? Your query should return the name of the country and the total number of cities. Your query should arrange the result by the number of cities in descending order.

```
SELECT countries.name, COUNT(cities.id) as num_cities  
FROM countries  
JOIN cities ON countries.id = cities.country_id
```

```
GROUP BY countries.id  
ORDER BY num_cities DESC;
```

6. What query would you run to get all the cities in Mexico with a population of greater than 500,000? Your query should arrange the result by population in descending order.

```
SELECT name, population  
FROM cities  
WHERE country_code = 'MEX' AND population > 500000  
ORDER BY population DESC;
```

7. What query would you run to get all languages in each country with a percentage greater than 89%? Include the country name, language, and percentage. Your query should arrange the result by percentage in descending order.

```
SELECT countries.name, languages.language, languages.percentage  
FROM countries  
JOIN languages ON countries.id = languages.country_id  
WHERE languages.percentage > 89  
ORDER BY languages.percentage DESC;
```

8. What query would you run to get all the cities of Argentina inside the Buenos Aires district and have a population greater than 500,000? The query should return the Country Name, City Name, District, and Population.

```
SELECT countries.name, cities.name, cities.district, cities.population  
FROM countries  
JOIN cities ON countries.code = cities.country_code  
WHERE countries.name = 'Argentina'  
AND cities.district = 'Buenos Aires'  
AND cities.population > 500000;
```