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Queries:World(Practice)
12/13/22

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.

```
1 • SELECT name, surface_area, population
2 FROM countries AS c
3 WHERE c.surface_area < 501 AND c.population > 100000;
4
```

| Result Grid | Filter Rows: | Export: | Wrap Cell Content: |
|----------------------------------|--------------|------------|--------------------|
| name | surface_area | population | |
| Aruba | 193.00 | 103000 | |
| Barbados | 430.00 | 270000 | |
| Macao | 18.00 | 473000 | |
| Maldives | 298.00 | 286000 | |
| Malta | 316.00 | 380200 | |
| Mayotte | 373.00 | 149000 | |
| Saint Vincent and the Grenadines | 388.00 | 114000 | |

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.

```
4 • SELECT name, government_form, capital
5 FROM countries AS c
6 WHERE government_form = 'Constitutional monarchy' AND capital > 200 AND life_expectancy > 75;
7
```

| Result Grid | Filter Rows: | Export: | Wrap Cell Content: |
|----------------|-------------------------|---------|--------------------|
| name | government_form | capital | |
| Denmark | Constitutional Monarchy | 3315 | |
| Spain | Constitutional Monarchy | 653 | |
| United Kingdom | Constitutional Monarchy | 456 | |
| Jamaica | Constitutional Monarchy | 1530 | |
| Jordan | Constitutional Monarchy | 1786 | |
| Japan | Constitutional Monarchy | 1532 | |
| Liechtenstein | Constitutional Monarchy | 2446 | |
| Luxembourg | Constitutional Monarchy | 2452 | |
| Monaco | Constitutional Monarchy | 2695 | |
| Norway | Constitutional Monarchy | 2807 | |

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.

```
7 • SELECT region, COUNT(region) AS num_countries
8 FROM countries
9 GROUP BY region
10 ORDER BY num_countries DESC;
```

| region | num_countries |
|---------------------------|---------------|
| Caribbean | 24 |
| Eastern Africa | 20 |
| Middle East | 18 |
| Western Africa | 17 |
| Southern Europe | 15 |
| Southern and Central Asia | 14 |
| South America | 14 |
| Southeast Asia | 11 |
| Polynesia | 10 |
| Eastern Europe | 10 |

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.

```
11 • SELECT c.name, l.language, l.percentage
12 FROM countries AS c
13 JOIN languages AS l
14 ON c.id = l.country_id
15 WHERE l.language = 'Slovene'
16 ORDER BY l.percentage DESC;
```

| name | language | percentage |
|----------|----------|------------|
| Slovenia | Slovene | 87.9 |
| Austria | Slovene | 0.4 |
| Italy | Slovene | 0.2 |
| Croatia | Slovene | 0.0 |

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.

```
17 • SELECT c.name, COUNT(ci.name) AS num_cities
18 FROM countries AS c
19 JOIN cities AS ci
20 ON c.id = ci.country_id
21 GROUP BY c.name ORDER BY num_cities DESC;
```

| name | num_cities |
|--------------------|------------|
| China | 363 |
| India | 341 |
| United States | 274 |
| Brazil | 250 |
| Japan | 248 |
| Russian Federation | 189 |
| Mexico | 173 |
| Philippines | 136 |
| Germany | 93 |
| Indonesia | 85 |

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.

```
17 • SELECT c.name, COUNT(ci.name) AS num_cities
18 FROM countries AS c
19 JOIN cities AS ci
20 ON c.id = ci.country_id
21 GROUP BY c.name ORDER BY num_cities DESC;
22 • SELECT ci.name, ci.population
```

| name | population |
|---------------------|------------|
| Ciudad de México | 8591309 |
| Guadalajara | 1647720 |
| Ecatepec de Morelos | 1620303 |
| Puebla | 1346176 |
| Nezahualcóyotl | 1224924 |
| Juárez | 1217818 |
| Tijuana | 1212232 |
| León | 1133576 |
| Monterrey | 1108499 |
| 700000 | 1000000 |

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.

```
28 • SELECT c.name AS country, l.language, l.percentage
29 FROM countries AS c
30 JOIN languages AS l
31 ON c.id = l.country_id
32 WHERE l.percentage > 89
33 ORDER BY l.percentage DESC;
```

| country | language | percentage |
|-----------------------|----------------|------------|
| Bermuda | English | 100.0 |
| Faroe Islands | Faroese | 100.0 |
| Cape Verde | Crioulo | 100.0 |
| Cuba | Spanish | 100.0 |
| Saint Kitts and Nevis | Creole English | 100.0 |
| San Marino | Italian | 100.0 |
| Grenada | Creole English | 100.0 |
| El Salvador | Spanish | 100.0 |
| Rwanda | Rwanda | 100.0 |
| Reunion | Creole French | 100.0 |

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.

```
34 • SELECT c.name AS COUNTRY, ci.name AS CITY, ci.district AS DISTRICT, ci.population
35 FROM countries AS c
36 JOIN cities AS ci
37 ON c.id = ci.country_id
38 WHERE c.name = 'Argentina' AND ci.district = 'Buenos Aires' AND ci.population > 500000;
```

| COUNTRY | CITY | DISTRICT | population |
|-----------|-----------------|--------------|------------|
| Argentina | La Matanza | Buenos Aires | 1266461 |
| Argentina | Lomas de Zamora | Buenos Aires | 622013 |
| Argentina | Quilmes | Buenos Aires | 559249 |
| Argentina | Almirante Brown | Buenos Aires | 538918 |
| Argentina | La Plata | Buenos Aires | 521936 |
| Argentina | Mar del Plata | Buenos Aires | 512880 |