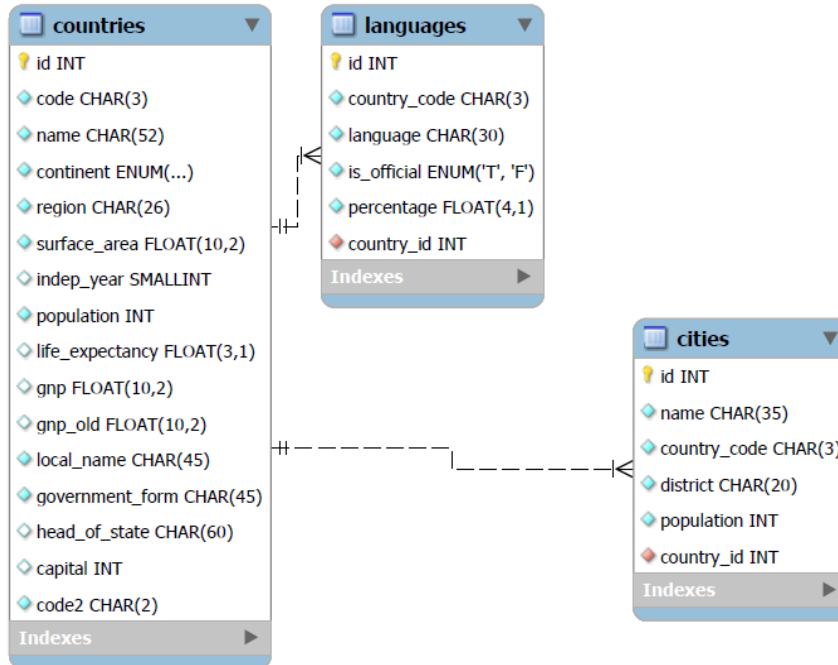


World Database

EER Diagram



MySQL Queries:

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

```
1 • SELECT c.continent, COUNT(c.name) as num_countries
2 FROM countries as c
3 GROUP BY c.continent
4 ORDER BY num_countries DESC;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Co
	continent	num_countries		
▶	Africa	58		
	Asia	51		
	Europe	46		
	North America	37		
	Oceania	28		
	South America	14		
	Antarctica	5		

2. What query would you run to get all the countries that speak Greek? 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.

```

1 • SELECT c.name, l.language, l.percentage
2 FROM countries as c
3 JOIN languages as l
4 ON c.id = l.country_id
5 WHERE l.language = 'Greek'
6 ORDER BY l.percentage DESC;

```

name	language	percentage
Greece	Greek	98.5
Cyprus	Greek	74.1
Albania	Greek	1.8
Australia	Greek	1.6
Germany	Greek	0.4

3. What query would you run to get all the countries with Surface Area less than 1000 OR a population greater than 100,000,000? Include the country name, surface area, and population in your results.

```

1 • SELECT c.name, c.surface_area, x.population
2 FROM countries as c
3 JOIN cities as x
4 ON c.id = x.country_id
5 WHERE c.surface_area < 1000 OR x.population > 100000000;

```

name	surface_area	population
Aruba	193.00	29034
Anguilla	96.00	961
Anguilla	96.00	595
Andorra	468.00	21189
Netherlands Antilles	800.00	2345
American Samoa	199.00	5200
American Samoa	199.00	2323
Antigua and Barbuda	442.00	24000
Bahrain	694.00	148000
Bermuda	53.00	1800
Bermuda	53.00	1200
Barbados	430.00	6070
Cocos (Keeling) Isla...	14.00	503
Cocos (Keeling) Isla...	14.00	167
Cook Islands	236.00	11900
Christmas Island	135.00	700
Cayman Islands	264.00	19600
Dominica	751.00	16243
Micronesia, Federat...	702.00	22000
Micronesia, Federat...	702.00	8600
Gibraltar	6.00	27025
Guatemala	334.00	4621

4. What query would you run to get countries with a government form of “Federal Republic” with a life expectancy of less than 75 years? Include the country name, form of government, and life expectancy in the results.

```
1 • SELECT c.name, c.government_form, c.life_expectancy
2 FROM countries as c
3 WHERE c.government_form = "Federal Republic" AND c.life_expectancy < 75;
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	name	government_form	life_expectancy
▶	Azerbaijan	Federal Republic	62.9
	Bosnia and Herzegovina	Federal Republic	71.5
	Brazil	Federal Republic	62.9
	Micronesia, Federated States of	Federal Republic	68.6
	India	Federal Republic	62.5
	Madagascar	Federal Republic	55.0
	Mexico	Federal Republic	71.5
	Nigeria	Federal Republic	51.6
	Russian Federation	Federal Republic	67.2
	Venezuela	Federal Republic	73.1
	Yugoslavia	Federal Republic	72.4

5. What query would you run to get all the cities of Mexico inside the Veracruz district and have a population greater than 100,000? The query should return the Country Name, City Name, District, and Population.

```
1 • SELECT c.name, x.name, x.district, x.population
2 FROM countries as c
3 JOIN cities as x
4 ON c.id = x.country_id
5 WHERE c.name = 'Mexico' AND x.district = 'Veracruz' AND x.population > 100000;
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: Wrap Cell Content:			
	name	name	district
▶	Mexico	Veracruz	Veracruz
	Mexico	Xalapa	Veracruz
	Mexico	Coatzacoalcos	Veracruz
	Mexico	Córdoba	Veracruz
	Mexico	Papantla	Veracruz
	Mexico	Minatitlán	Veracruz
	Mexico	Poza Rica de Hidalgo	Veracruz
	Mexico	San Andrés Tuxtla	Veracruz
	Mexico	Tampam	Veracruz
	Mexico	Martínez de la Torre	Veracruz
	Mexico	Orizaba	Veracruz
	Mexico	Temapache	Veracruz

6. What query would you run to get all the ten cities in Brazil with the smallest population? Your query should include the country name, city name, and population. Arrange the result by population in ascending order. Limit the result to the 10 cities with the smallest population.

```
1 • SELECT c.name, x.name, x.population
2 FROM countries as c
3 JOIN cities as x
4 ON c.id = x.country_id
5 WHERE c.name = 'Brazil'
6 ORDER BY x.population
7 LIMIT 10;
```

	name	name	population
►	Brazil	Águas Lindas de Goiás	89200
	Brazil	Poá	89236
	Brazil	Bento Gonçalves	89254
	Brazil	Barra do Piraí	89388
	Brazil	Palhoça	89465
	Brazil	Corumbá	90111
	Brazil	Ituiutaba	90507
	Brazil	Patos	90519
	Brazil	Campo Largo	91203
	Brazil	Votorantim	91777

7. What query would you run to get all languages spoken greater than 10% in Monaco? Display the country name, language, and percentage.

```
1 • SELECT c.name, l.language, l.percentage
2 FROM countries as c
3 JOIN languages as l
4 ON c.id = l.country_id
5 WHERE c.name = 'Monaco' AND l.percentage > 10
6 ORDER BY l.percentage;
7
```

	name	language	percentage
►	Monaco	Italian	16.1
	Monaco	Monegasque	16.1
	Monaco	French	41.9