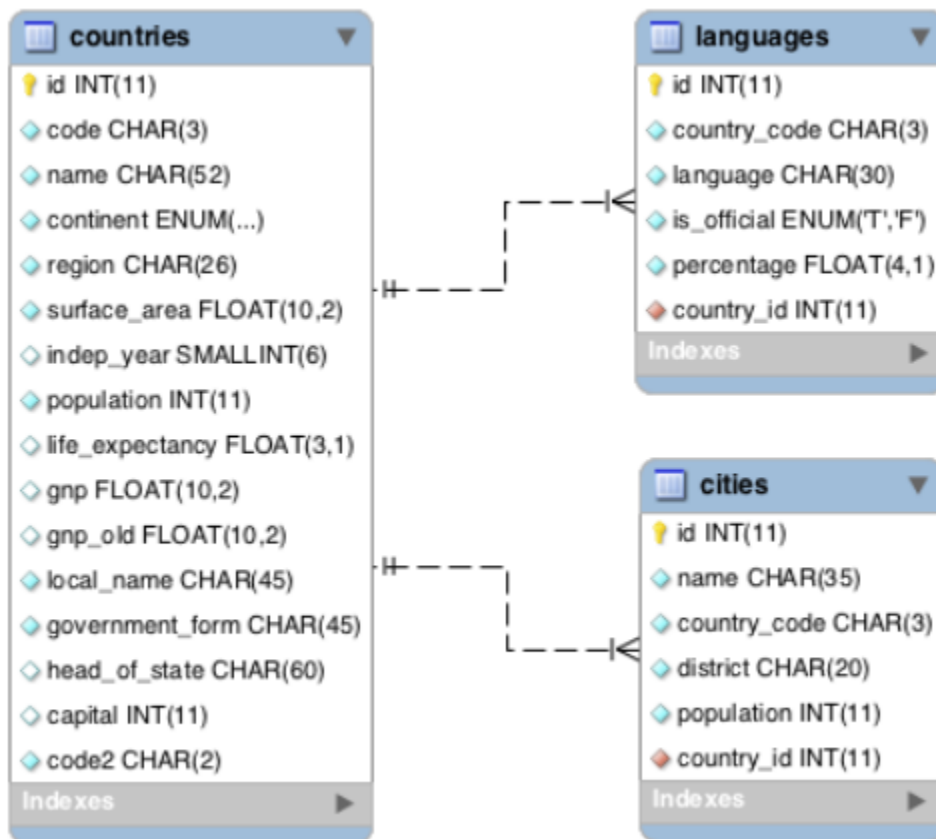


Queries: World (Practice)

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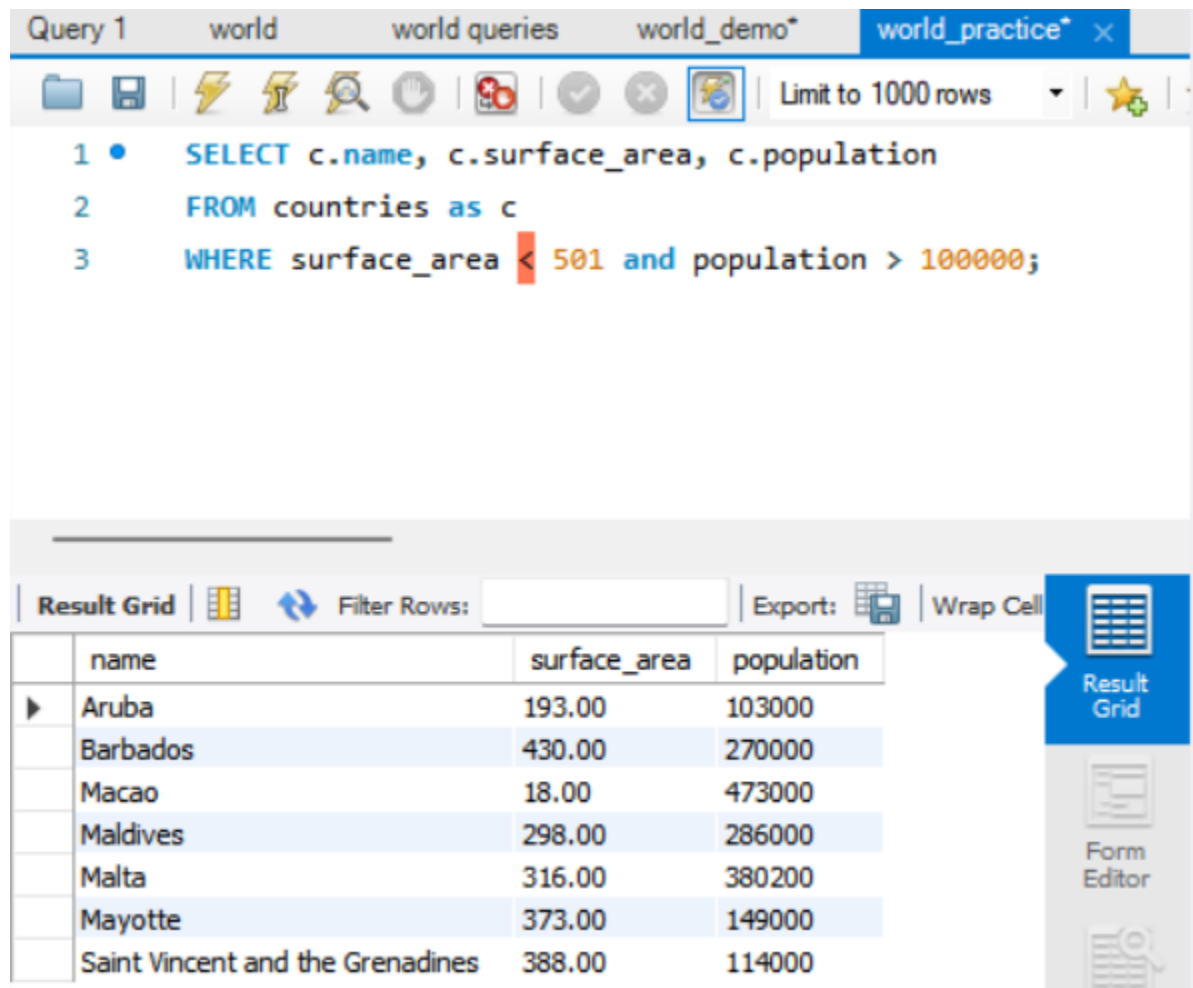
Assignment

Using the *world* database and the pictured ERD, complete all 8 of the below queries.



Queries

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.



The screenshot shows a database query interface with a tab labeled 'world_practice*'. The query editor displays the following SQL query:

```
1 SELECT c.name, c.surface_area, c.population
2 FROM countries as c
3 WHERE surface_area < 501 and population > 100000;
```

Below the query editor, the 'Result Grid' is visible, showing a table with the following data:

	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

On the right side of the interface, there are buttons for 'Result Grid' (highlighted in blue), 'Form Editor', and 'Export'.

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 c.name, c.government_form, c.capital
5 FROM countries as c
6 WHERE c.government_form = 'Constitutional Monarchy' and c.capital > 200
7 and c.life_expectancy > 75;
```

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
	New Zealand	Constitutional Monarchy	3499
	Sweden	Constitutional Monarchy	3048

Result Grid
Form Editor
Field Types
Query Stats

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.

```

8 • SELECT c.region, COUNT(c.id) AS num_countries
9 FROM countries as c
10 GROUP BY c.region
11 ORDER BY num_countries DESC;
12

```

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
Central Africa	9
Western Europe	9
Central America	8
Eastern Asia	8
Nordic Countries	7
Northern Africa	7
Micronesia	7
Antarctica	5
Australia and New Zealand	5
North America	5
Southern Africa	5
Melanesia	5
Baltic Countries	3
British Islands	2
Micronesia/Caribbean	1

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.

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

Result Grid	Filter Rows:	Export:	Wrap Cell Content:	Result Grid	Form Editor
	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.

```


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


```


Result Grid   Filter Rows: Export:  Wrap Cell Content: 


	name	Total_Cities
▶	China	363
	India	341
	United States	274
	Brazil	250
	Japan	248
	Russian Federation	189
	Mexico	173
	Philippines	136
	Germany	93
	Indonesia	85
	United Kingdom	81
	South Korea	70
	Iran	67
	Nigeria	64
	Turkey	62
	Spain	59
	Pakistan	59
	Italy	58


Result Grid


Form Editor



Field Types



Query Stats



Execution Plan


	name	Total_Cities
	Argentina	57
	Ukraine	57
	Canada	49
	Poland	44
	South Africa	44
	Taiwan	42
	Venezuela	41
	France	40
	Colombia	38
	Egypt	37
	Chile	29
	Romania	29
	Netherlands	28
	Bangladesh	24
	Saudi Arabia	24
	Morocco	22
	Peru	22
	Vietnam	22


Result Grid


Form Editor


Field Types


Query Stats


Execution Plan

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.

```
24 • SELECT ci.name, ci.population
25 FROM cities AS ci
26 JOIN countries AS c
27 ON ci.country_id = c.id
28 WHERE c.name = 'Mexico' and ci.population > 500000
29 ORDER BY ci.population DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	name	population
▶	Ciudad de México	8591309
	Guadalajara	1647720
	Ecatepec de Morelos	1620303
	Puebla	1346176
	Nezahualcóyotl	1224924
	Juárez	1217818
	Tijuana	1212232
	León	1133576
	Monterrey	1108499
	Zapopan	1002239
	Naucalpan de Juárez	857511
	Mexicali	764902
	Culiacán	744859
	Acapulco de Juárez	721011
	Tlalnepantla de Baz	720755
	Mérida	703324
	Chihuahua	670208
	San Luis Potosí	669353
	Guadalupe	668780
	Toluca	665617
	Aguascalientes	643360
	Querétaro	639839
	Morelia	619958
	Hermosillo	608697
	Saltillo	577352
	Torreón	529093
	Centro (Villahermosa)	519873

Result Grid
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Field Types
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Field Types
Query Stats
Execution Plan

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.


```

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

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	name	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
	Dominica	Creole English	100.0
	Western Sahara	Arabic	100.0
	Maldives	Dhivehi	100.0
	Haiti	Haiti Creole	100.0
	South Korea	Korean	99.9
	North Korea	Korean	99.9
	Yemen	Arabic	99.6
	Bosnia and Herzego...	Serbo-Croatian	99.2
	Saint Vincent and t...	Creole English	99.1

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	name	language	percentage
	Japan	Japanese	99.1
	Portugal	Portuguese	99.0
	Colombia	Spanish	99.0
	Madagascar	Malagasy	98.9
	Kiribati	Kiribati	98.9
	Egypt	Arabic	98.8
	Hungary	Hungarian	98.5
	Greece	Greek	98.5
	Ireland	English	98.4
	Tonga	Tongan	98.3
	Somalia	Somali	98.3
	Burundi	Kirundi	98.1
	Dominican Republic	Spanish	98.0
	Albania	Albaniana	97.9
	Jordan	Arabic	97.9
	Bangladesh	Bengali	97.7
	Nicaragua	Spanish	97.6
	Poland	Polish	97.6

Result Grid

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Query Stats

Execution Plan

	name	language	percentage	
	Brazil	Portuguese	97.5	
	Costa Rica	Spanish	97.5	
	United Kingdom	English	97.3	
	Honduras	Spanish	97.2	
	Venezuela	Spanish	96.9	
	Argentina	Spanish	96.8	
	Marshall Islands	Marshallese	96.8	
	Norway	Norwegian	96.6	
	Martinique	Creole French	96.6	
	Guyana	Creole English	96.4	
	Libyan Arab Jamahi...	Arabic	96.0	
	Palestine	Arabic	95.9	
	Croatia	Serbo-Croatian	95.9	
	Malta	Maltese	95.8	
	Antigua and Barbuda	Creole English	95.7	
	Iceland	Icelandic	95.7	
	Uruguay	Spanish	95.7	
	Netherlands	Dutch	95.6	

Result Grid

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Execution Plan

	name	language	percentage	
	Barbados	Bajan	95.1	
	Saudi Arabia	Arabic	95.0	
	Guadeloupe	Creole French	95.0	
	French Guiana	Creole French	94.3	
	Jamaica	Creole English	94.2	
	Italy	Italian	94.1	
	France	French	93.6	
	Denmark	Danish	93.5	
	Trinidad and Tobago	English	93.5	
	Armenia	Armenian	93.4	
	Lebanon	Arabic	93.0	
	Ecuador	Spanish	93.0	
	Finland	Finnish	92.7	
	Tuvalu	Tuvalu	92.5	
	Mexico	Spanish	92.1	
	China	Chinese	92.0	
	Austria	German	92.0	
	RÅ@union	Creole French	91.5	

Result Grid

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Execution Plan

	Seychelles	Seselwa	91.3	
	Germany	German	91.3	
	Romania	Romanian	90.7	
	American Samoa	Samoan	90.6	
	Syria	Arabic	90.0	
	Swaziland	Swazi	89.9	
	Chile	Spanish	89.7	
	Bahamas	Creole English	89.7	
	Sweden	Swedish	89.5	

Field Types

Query Stats

Execution Plan

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.

```
36 • SELECT c.name, ci.name, ci.district, ci.population
37 FROM countries AS c
38 JOIN cities AS ci
39 ON c.id = ci.country_id
40 WHERE c.name = 'Argentina' and ci.district = 'Buenos Aires'
41 and ci.population > 500000
--
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	name	name	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

Result Grid
Form Editor