

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.

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

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.

```
3 • SELECT c.name, c.government_form, c.capital
4 FROM countries AS c
5 WHERE c.government_form = 'Constitutional Monarchy' AND c.capital > 200 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

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.

```
3 • SELECT DISTINCT c.region, COUNT(c.name) AS Num_Countries
4   FROM countries AS c
5   GROUP BY c.region
6   ORDER BY Num_Countries DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	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			

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.

```
3 • SELECT c.name, l.language, l.percentage
4 FROM countries AS c, languages as l
5 WHERE l.language = 'Slovene'
6 ORDER BY l.percentage DESC;
```

Result Grid			
Filter Rows:			
Export:			
	name	language	percentage
▶	Aruba	Slovene	87.9
	Afghanistan	Slovene	87.9
	Angola	Slovene	87.9
	Anguilla	Slovene	87.9
	Albania	Slovene	87.9
	Andorra	Slovene	87.9
	Netherlands Antilles	Slovene	87.9
	United Arab Emirates	Slovene	87.9
	Argentina	Slovene	87.9
	Armenia	Slovene	87.9
	American Samoa	Slovene	87.9
	Antarctica	Slovene	87.9
	French Southern ter...	Slovene	87.9
	Antigua and Barbuda	Slovene	87.9
	Australia	Slovene	87.9
	Austria	Slovene	87.9
	Azerbaijan	Slovene	87.9
	Burundi	Slovene	87.9
	Belgium	Slovene	87.9
	Benin	Slovene	87.9
	Burkina Faso	Slovene	87.9
	Bangladesh	Slovene	87.9
	Bulgaria	Slovene	87.9
	Bahrain	Slovene	87.9
	Bahamas	Slovene	87.9
	Bosnia and Herzego...	Slovene	87.9
	Belarus	Slovene	87.9
	Belize	Slovene	87.9
	Bermuda	Slovene	87.9

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.

```
1 • USE world;
2
3 • SELECT countries.name, COUNT(cities.id) as num_cities
4 FROM countries
5 JOIN cities ON countries.id = cities.country_id
6 GROUP BY countries.id
7 ORDER BY num_cities DESC;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	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			
	United Kingdom	81			
	South Korea	70			
	Iran	67			
	Nigeria	64			
	Turkey	62			
	Spain	59			
	Pakistan	59			
	Italy	58			

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.

```
3 • SELECT cities.name
4 FROM cities
5 JOIN countries ON countries.id = cities.country_id
6 WHERE countries.name = 'Mexico' AND cities.population > 500000
7 ORDER BY cities.population DESC;
8
9
```

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

	name
▶	Ciudad de México
	Guadalajara
	Ecatepec de Morelos
	Puebla
	Nezahualcóyotl
	Juárez
	Tijuana
	León
	Monterrey
	Zapopan
	Naucalpan de Juárez
	Mexicali
	Culiacán
	Acapulco de Juárez
	Tlalnepantla de Baz
	Mérida
	Chihuahua
	San Luis Potosí
	Guadalupe
	Toluca
	Aguascalientes
	Querétaro
	Morelia
	Hermosillo
	Saltillo
	Torreón
	Centro (Villahermosa)

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.

```
3 • SELECT countries.name, languages.language, languages.percentage
4 FROM languages
5 JOIN countries ON countries.id = languages.country_id
6 WHERE languages.percentage > 89
7 ORDER BY languages.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
	Japan	Japanese	99.1
	Portugal	Portuguese	99.0

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.

es

```
3 • SELECT countries.name, cities.name, cities.district, cities.population
4 FROM cities
5 JOIN countries ON countries.id = cities.country_id
6 WHERE countries.name = 'Argentina' AND cities.district = 'Buenos Aires' AND cities.population > 500000;
```

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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