

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 SQL query editor window titled "Query 1". The query is as follows:

```
1 • USE world;
2 • SELECT name, surface_area, population
3 FROM countries
4 WHERE surface_area < 501 AND population > 100000;
5
6
7
```

Below the query editor, there is a "Result Grid" tab. The grid displays 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

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.

Query 1 x

Limit to 1000 rows

```

1 • SELECT name, government_form, capital, life_expectancy
2 FROM countries
3 WHERE government_form = 'Constitutional Monarchy' AND capital > 200 AND life_expectancy > 75;
4
5
6
7

```

Result Grid

Filter Rows:

Export: Wrap Cell Content:

	name	government_form	capital	life_expectancy
▶	Denmark	Constitutional Monarchy	3315	76.5
	Spain	Constitutional Monarchy	653	78.8
	United Kingdom	Constitutional Monarchy	456	77.7
	Jamaica	Constitutional Monarchy	1530	75.2
	Jordan	Constitutional Monarchy	1786	77.4
	Japan	Constitutional Monarchy	1532	80.7
	Liechtenstein	Constitutional Monarchy	2446	78.8
	Luxembourg	Constitutional Monarchy	2452	77.1
	Monaco	Constitutional Monarchy	2695	78.8
	Norway	Constitutional Monarchy	2807	78.7
	New Zealand	Constitutional Monarchy	3499	77.8
	Sweden	Constitutional Monarchy	3048	79.6

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.

Query 1 x

Limit to 1000 rows

```

1 • SELECT region, COUNT(name) AS num_countries
2 FROM countries
3 GROUP BY region
4 ORDER BY num_countries DESC;
5
6
7

```

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

	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.

Query 1 x

Limit to 1000 rows

```
1 • SELECT countries.name, languages.language, languages.percentage
2 FROM countries
3 JOIN languages ON countries.id = languages.country_id
4 WHERE languages.language = 'Slovene'
5 ORDER BY languages.percentage DESC;
6
7
```

Result Grid

	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.

Query 1



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



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
	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

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.

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

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

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;

```

name	language	percentage
ermuda	English	100.0
aroe Islands	Faroese	100.0
ape Verde	Crioulo	100.0
uba	Spanish	100.0
saint Kitts and Nevis	Creole English	100.0
an Marino	Italian	100.0
renada	Creole English	100.0
Salvador	Spanish	100.0
wanda	Rwanda	100.0
ominica	Creole English	100.0
Western Sahara	Arabic	100.0
Maldives	Dhivehi	100.0
aiti	Haiti Creole	100.0
South Korea	Korean	99.9
North Korea	Korean	99.9
emen	Arabic	99.6
osnia and Herzego...	Serbo-Croatian	99.2
saint Vincent and t...	Creole English	99.1
apan	Japanese	99.1
Portugal	Portuguese	99.0
Colombia	Spanish	99.0
Madagascar	Malagasy	98.9
Kiribati	Kiribati	98.9

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.

