

## World Database Exercise:

(MySQL Basic Assignment)

1. 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. You query should arrange the result by language percentage in descending order.

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

2. 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. You query should arrange the result by number of cities in descending order.

name	cities
China	363
India	341
United States	274
Brazil	250
Japan	248
Russian Federation	189
...	...

Result 2

Output

Action Output

	Time	Action	Message
✓	1 11:18:17	SELECT countries.name, languages.language, languages.percentage FROM languages LEFT ...	4 row(s) returned
✓	2 11:19:52	SELECT countries.name, count(*) as cities FROM cities LEFT JOIN countries on cities.country_...	232 row(s) returned

3. 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.

name	population
Ciudad de México	8591309
Guadalajara	1647720
Ecatepec de Morelos	1620303
Puebla	1346176
Nezahualcóyotl	1224924
Juárez	1217818
...	...

Result 3

Output

Action Output

	Time	Action	Message
✓	1 11:18:17	SELECT countries.name, languages.language, languages.percentage FROM languages LEFT ...	4 row(s) returned
✓	2 11:19:52	SELECT countries.name, count(*) as cities FROM cities LEFT JOIN countries on cities.country_...	232 row(s) returned
✓	3 11:26:29	SELECT cities.name, cities.population FROM cities LEFT JOIN countries on cities.country_cod...	27 row(s) returned

4. What query would you run to get all language in each country with a percentage greater than 89%. Your query should arrange the result by percentage in descending order.

	name	language	percentage
▶	Cuba	Spanish	100.0
	Rwanda	Rwanda	100.0
	San Marino	Italian	100.0
	Bermuda	English	100.0
	Cape Verde	Crioulo	100.0

Result 4

Output

Action Output

	Time	Action	Message
✓	3	11:26:29	SELECT cities.name, cities.population FROM cities LEFT JOIN countries on cities.country_co... 27 row(s) returned
✓	4	11:29:37	SELECT countries.name, languages.language, languages.percentage FROM languages LEF... 81 row(s) returned

5. What query would you run to get all the countries with Surface Area below 501 and Population greater than 100,000.

	name	surface_area	population
▶	Aruba	193.00	103000
	Barbados	430.00	270000
	Macao	18.00	473000
	Maldives	298.00	286000
	Malta	316.00	380200

countries 5

Output

Action Output

	Time	Action	Message
✓	4	11:29:37	SELECT countries.name, languages.language, languages.percentage FROM languages LEF... 81 row(s) returned
✓	5	11:31:10	SELECT name, surface_area, population FROM countries WHERE surface_area < 501 AND ... 7 row(s) returned

6. What query would you run to get all Constitutional Monarchy Countries with a capital greater than 200 and a life expectancy greater than 75 years.

	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

countries 6

Output

Action Output

	Time	Action	Message
✓	5	11:31:10	SELECT name, surface_area, population FROM countries WHERE surface_area < 501 AND ... 7 row(s) returned
✓	6	11:32:27	SELECT name, government_form, capital, life_expectancy FROM countries WHERE governm... 12 row(s) returned

7. What query would you run to get all the cities of Argentina inside the Buenos Aires district and have population greater than 500, 000. The query should return the Country Name, City Name, District and Population.

	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

Result 8

Output

Action Output

	Time	Action	Message
✓	13 11:36:22	SELECT countries.name, cities.name, cities.district, cities.population FROM cities LEFT JOIN ...	6 row(s) returned
✓	14 11:36:49	SELECT countries.name, cities.name, cities.district, cities.population FROM cities LEFT JOIN ...	6 row(s) returned

8. 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 number of countries in descending order.

	region	countries
▶	Caribbean	24
	Eastern Africa	20
	Middle East	18
	Western Africa	17
	Southern Europe	15

Result 9

Output

Action Output

	Time	Action	Message
✓	14 11:36:49	SELECT countries.name, cities.name, cities.district, cities.population FROM cities LEFT JOIN ...	6 row(s) returned
✓	15 11:37:52	SELECT region, count(*) AS countries FROM countries GROUP BY region ORDER BY countri...	25 row(s) returned