**WORLD exercise book sample solutions**

**1.Using COUNT, get the number of cities in the USA.**

SELECT COUNT(CountryCode) FROM city WHERE CountryCode='USA';

**2.Find out what the population and average life expectancy for people in Argentina (ARG) is.**

SELECT Name, Population, LifeExpectancy FROM country WHERE name='Argentina';

**3.Using IS NOT NULL, ORDER BY, LIMIT, what country has the highest life expectancy?**

SELECT Name, LifeExpectancy FROM country WHERE LifeExpectancy IS NOT NULL ORDER BY LifeExpectancy DESC LIMIT 1;

**4.Using JOIN … ON, what is the capital of Spain (ESP)?**

SELECT co.Name AS country, c.Name AS capital\_city FROM city c

JOIN country co ON co.Capital=c.ID WHERE co.Name='Spain';

**5.Using JOIN … ON, list all the languages spoken in the 'Southeast Asia' region.**

SELECT co.Region, cl.Language FROM countrylanguage cl

JOIN country co ON co.Code=cl.CountryCode

WHERE co.Region='Southeast Asia' ORDER BY cl.Language;

**6.Select 25 cities around the world that start with the letter 'F' in a single SQL query.**

SELECT Name FROM city WHERE name LIKE 'F%' LIMIT 25;

**7.Using COUNT, get the number of cities in China.**

SELECT COUNT(ID) FROM city c LEFT JOIN country co

ON co.Code = c.CountryCode WHERE co.Name = 'China';

**8.Using IS NOT NULL, ORDER BY, & LIMIT, what country has the lowest population?**

SELECT Name, Population FROM country WHERE Population!=0 ORDER BY Population LIMIT 1;

**9.Using aggregation, return the number of countries in the database.**

SELECT COUNT(DISTINCT Code) FROM country;

**10.What are the top ten largest countries by population?**

SELECT Name, Population FROM country ORDER BY Population DESC LIMIT 10;

**11.List the top five largest cities in Japan.**

SELECT c.Name, c.Population FROM city c

JOIN country co ON co.Code=c.CountryCode

WHERE co.name='Japan' ORDER BY c.Population DESC LIMIT 5;

**12.List the names and country codes of every country which has Elizabeth II as its Head of State. - have to type as Elisabeth**

SELECT Name, Code FROM country WHERE HeadOfState='Elisabeth II';

**13.List the top ten countries which have the smallest population-to-area ratio.**

SELECT \* FROM

(SELECT Name, Population, SurfaceArea, (Population/SurfaceArea)

AS Ratio FROM country WHERE Population IS NOT NULL AND Population!=0)

AS PopulationToAreaRatio ORDER BY Ratio LIMIT 10;

**14.List every unique world language, according to the World database.**

SELECT DISTINCT Language FROM countrylanguage ORDER BY Language;

**15.What are the top 10 richest countries by GDP? - GNP not GDP**

SELECT Name, GNP FROM country ORDER BY GNP DESC LIMIT 10;

**16.What are the top 10 largest countries by surface area?**

SELECT Name, SurfaceArea FROM country ORDER BY SurfaceArea DESC LIMIT 10;

**17.List every country where over 50% of its population can speak French.**

SELECT Name, cl.Percentage FROM countrylanguage cl

JOIN country co ON co.Code=cl.CountryCode

WHERE cl.Language='French' AND cl.Percentage>50 ORDER BY cl.Percentage DESC;

**18.Which country has the worst life expectancy?**

SELECT Name, LifeExpectancy FROM country WHERE LifeExpectancy=

(SELECT MIN(LifeExpectancy) FROM country WHERE LifeExpectancy!=0);

**19.What is the most common government form?**

SELECT GovernmentForm FROM country GROUP BY GovernmentForm

ORDER BY Count(GovernmentForm) DESC LIMIT 1;

**20.How many countries have gained independence since records began?**

SELECT COUNT(IndepYear) FROM country WHERE IndepYear IS NOT NULL;