**Challenge: World Database Queries**

1. **How many countries are in the world database?**
   1. SELECT COUNT(\*) FROM country;
   2. SELECT COUNT(Name) FROM country;
   3. 239
2. **What is the size of the population for the country with the largest population?**
   1. SELECT Name, Population FROM country;
   2. China 1,277,558,000
3. **Which country has the largest population and how big is the population?** 
   1. SELECT Name, Population FROM country ORDER BY Population DESC LIMIT 1;
   2. China; 1,277,558,000
4. **What is the population of Venezuela?**
   1. SELECT Name, Population FROM country WHERE Name = ‘Venezuela’;
   2. 24,170,000
5. **What is the life expectancy of the people in the United States?**
   1. SELECT LifeExpectancy FROM country WHERE Name = ‘United States’;
   2. 77.1
6. **What is the life expectancy of the people in China?**
   1. SELECT LifeExpectancy FROM country WHERE Name = ‘China’;
   2. 71.4
7. **What is the maximum life expectancy from all the countries?**
   1. SELECT MAX(LifeExpectancy) FROM country;
   2. 83.5
8. **What is the country that has the longest life expectancy and what is that life expectancy?**
   1. SELECT Name, LifeExpectancy FROM country ORDER BY LifeExpectancy ASC LIMIT 1;
   2. Andora, 83.5
9. **Provide a list of cities and their populations that have populations over 10 million with the list ordered from largest population to lowest. Display city name, country name for the city, and population of city**
   1. SELECT Name, CountryCode, Population FROM city WHERE Population > 10,000,000 ORDER BY Population DESC;
   2. Mumbai(Bombay) IND 10,500,000
10. **Provide a list of cities and their populations that have populations over 7 million with the list ordered from largest population to smallest. The result contains the city name, country name for the city, and the population of the city.**
    1. SELECT Name, CountryCode, Population FROM city WHERE Population > 7,000,000 ORDER BY Population DESC;

| **Name** | **CountryCode** | **Population** |
| --- | --- | --- |
| Mumbai (Bombay) | IND | 10500000 |
| Seoul | KOR | 9981619 |
| São Paulo | BRA | 9968485 |
| Shanghai | CHN | 9696300 |
| Jakarta | IDN | 9604900 |
| Karachi | PAK | 9269265 |
| Istanbul | TUR | 8787958 |
| Ciudad de México | MEX | 8591309 |
| Moscow | RUS | 8389200 |
| New York | USA | 8008278 |
| Tokyo | JPN | 7980230 |
| Peking | CHN | 7472000 |
| London | GBR | 7285000 |
| Delhi | IND | 7206704 |

1. **Provide a list of languages used in Brazil**
   1. SELECT Language FROM countrylanguage WHERE CountryCode = ‘BRA’;
   2. German, Indian Languages, Italian, Japanese, Portuguese.
2. **Provide a list of records that contain the country name and the language spoken in the county for countries whose name begins with the letter Z. Order alphabetically from A -> Z.**
   1. SELECT CountryCode, Language FROM countrylanguage WHERE CountryCode LIKE ‘z%’ ORDER BY CountryCode ASC, Language ASC;

| **CountryCode** | **Language** |
| --- | --- |
| ZAF | Afrikaans |
| ZAF | English |
| ZAF | Ndebele |
| ZAF | Northsotho |
| ZAF | Southsotho |
| ZAF | Swazi |
| ZAF | Tsonga |
| ZAF | Tswana |
| ZAF | Venda |
| ZAF | Xhosa |
| ZAF | Zulu |
| ZMB | Bemba |
| ZMB | Chewa |
| ZMB | Lozi |
| ZMB | Nsenga |
| ZMB | Nyanja |
| ZMB | Tongan |
| ZWE | English |
| ZWE | Ndebele |
| ZWE | Nyanja |
| ZWE | Shona |

1. **Provide a list of countries located in North America and order the result by the name of the country in alphabetical order**
   1. SELECT Name FROM country WHERE Continent = ‘North America’ ORDER BY Name ASC;

| **Name** |
| --- |
| Anguilla |
| Antigua and Barbuda |
| Aruba |
| Bahamas |
| Barbados |
| Belize |
| Bermuda |
| Canada |
| Cayman Islands |
| Costa Rica |
| Cuba |
| Dominica |
| Dominican Republic |
| El Salvador |
| Greenland |
| Grenada |
| Guadeloupe |
| Guatemala |
| Haiti |
| Honduras |
| Jamaica |
| Martinique |
| Mexico |
| Montserrat |
| Netherlands Antilles |
| Nicaragua |
| Panama |
| Puerto Rico |
| Saint Kitts and Nevis |
| Saint Lucia |

1. **Provide a list of countries located in Asia along with their populations, life expectancy, and surface area with the list ordered by population from largest to smallest. Limit the list to the top 10 results based on population.**
   1. SELECT Name, Population, LifeExpectancy, SurfaceArea FROM country WHERE Continent = ‘Asia’ ORDER BY Population DESC LIMIT 10;

| **Name** | **Population** | **LifeExpectancy** | **SurfaceArea** |
| --- | --- | --- | --- |
| China | 1277558000 | 71.4 | 9572900.00 |
| India | 1013662000 | 62.5 | 3287263.00 |
| Indonesia | 212107000 | 68.0 | 1904569.00 |
| Pakistan | 156483000 | 61.1 | 796095.00 |
| Bangladesh | 129155000 | 60.2 | 143998.00 |
| Japan | 126714000 | 80.7 | 377829.00 |
| Vietnam | 79832000 | 69.3 | 331689.00 |
| Philippines | 75967000 | 67.5 | 300000.00 |
| Iran | 67702000 | 69.7 | 1648195.00 |
| Turkey | 66591000 | 71.0 | 774815.00 |

1. **Who is the head of state for the countries with the top ten population sizes? The resulting records are to list the head of state and the name of the country.**
   1. SELECT HeadOfState, Name FROM country ORDER BY Population DESC LIMIT 10;

| **HeadOfState** | **Name** |
| --- | --- |
| Jiang Zemin | China |
| Kocheril Raman Narayanan | India |
| George W. Bush | United States |
| Abdurrahman Wahid | Indonesia |
| Fernando Henrique Cardoso | Brazil |
| Mohammad Rafiq Tarar | Pakistan |
| Vladimir Putin | Russian Federation |
| Shahabuddin Ahmad | Bangladesh |
| Akihito | Japan |
| Olusegun Obasanjo | Nigeria |