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| **Report:** 30 requirements of 32 have been implemented, which is 93.75%. | | | | |
| **ID** | **Name** | **Met** | **Screenshot** | **Codes** |
|  | All the countries in the world organised by largest population to smallest. | yes |  | DESCRIBE country;  SELECT name, population  FROM country  ORDER BY population DESC; |
|  | All the countries in a continent organised by largest population to smallest. | yes |  | DESCRIBE country; SELECT name, population FROM country WHERE continent = 'Africa'  ORDER BY population DESC; |
|  | All the countries in a region organised by largest population to smallest. | yes |  | DESCRIBE country; SELECT name, population FROM country WHERE region = 'Western Europe' ORDER BY population DESC; |
|  | The top N populated countries in the world where N is provided by the user. | Yes |  | DESCRIBE country; SELECT name, population FROM country ORDER BY population DESC LIMIT 5; |
|  | The top N populated countries in a continent where N is provided by the user. | Yes |  | SELECT name, population FROM country WHERE continent = 'South America' ORDER BY population DESC LIMIT 3; |
|  | The top N populated countries in a region where N is provided by the user. | Yes |  | SELECT name, population  FROM country  WHERE region = ‘Western Europe’  ORDER BY population DESC  LIMIT 5; |
|  | All the cities in the world organised by largest population to smallest. | Yes |  | SELECT name, population FROM city ORDER BY population DESC; |
|  | All the cities in a continent organised by largest population to smallest. | Yes |  | SELECT ci.name AS city\_name, co.name AS Country\_name, ci.population, co.continent  FROM city ci  JOIN country co on ci.CountryCode = Code  WHERE co.continent = ‘Asia’  ORDER BYci.population Desc; |
|  | All the cities in a region organised by largest population to smallest. | Yes |  | SELECT country.name, city.Population FROM city  JOIN country WHERE Continent = 'North america'  AND Region = 'Caribbean' ORDER BY world.city.population DESC Limit 5; |
|  | All the cities in a country organised by largest population to smallest. | Yes |  | SELECT ci.name AS city\_name, co.name AS Country\_name, ci.population, co.region  FROM city ci  JOIN country co on ci.CountryCode = Code  WHERE co.name= ‘United State’  ORDER BYci.population Desc; |
|  | All the cities in a district organised by largest population to smallest. | Yes |  | SELECT name, district, population  FROM city  ORDER BY district, population DESC; |
|  | The top N populated cities in the world where N is provided by the user. | Yes |  | SELECT name, population  FROM city  ORDER BY population DESC  LIMIT 6; |
|  | The top N populated cities in a continent where N is provided by the user. | No |  | SELECT ci.name, ci.population  FROM city ci  JOIN country  WHERE continent = ‘Asia’  ORDER BY ci.population DESC; |
|  | The top N populated cities in a region where N is provided by the user. | No |  | SELECT country.name, city.poplation  FROM city  JOIN country WHERE continent = ‘North America’  AND Region =’Caribbean’  ORDER BY world.city.population DESC  LIMIT 5; |
|  | The top N populated cities in a country where N is provided by the user. | Yes |  | SELECT ci.name AS city\_name, ci.population FROM city ci  JOIN country co ON ci.countrycode = co.code -- Adjust column names if needed WHERE co.name = 'United States' ORDER BY ci.population DESC LIMIT 5; |
|  | The top N populated cities in a district where N is provided by the user. | Yes |  | SELECT ci.name AS capital\_city, ci.population, co.name AS country\_name FROM city ci  JOIN country co ON co.capital = ci.id ORDER BY ci.population DESC; |
|  | All the capital cities in the world organised by largest population to smallest. | Yes |  | SELECT ci.name AS capital\_city, ci.popuation, co.name AS country\_name FROM city ci  JOIN country co ON co.captial = ci.id  ORDER BY ci.population DESC; |
|  | All the capital cities in a continent organised by largest population to smallest. | Yes |  | SELECT ci.name AS capital\_city, ci.popuation, co.name AS country\_name FROM city ci  JOIN country co ON co.captial = ci.id  WHERE co.continent = ‘Europe’  ORDER BY ci.population DESC; |
|  | All the capital cities in a region organised by largest to smallest. | Yes |  | SELECT ci.name AS capital\_city, ci.popuation, co.name AS country\_name FROM city ci  JOIN country co ON co.captial = ci.id  WHERE co.Region = ‘Caribbean’  ORDER BY ci.population DESC; |
|  | The top N populated capital cities in the world where N is provided by the user. | Yes |  | SELECT ci.name AS capital\_city, ci.popuation, co.name AS country\_name FROM city ci  JOIN country co ON co.captial = ci.id  ORDER BY ci.population DESC  LIMIT10; |
|  | The top N populated capital cities in a continent where N is provided by the user. | Yes |  | SELECT ci.name AS capital\_city, ci.popuation, co.name AS country\_name FROM city ci  JOIN country co ON co.captial = ci.id  WHERE co.continent = ‘Africa’  ORDER BY ci.population DESC  LIMIT 5;BG |
|  | The population of people, people living in cities, and people not living in cities in each continent. | Yes |  | SELECT  co.continent,  SUM(co.population) AS total\_population,  SUM(ci.population) AS population\_in\_cities,  SUM(co.population) - SUM(ci.population) AS population\_not\_in\_cities  FROM country co  LEFT JOIN city ci ON co.code = ci.country\_code  GROUP BY co.continent; |
|  | The population of people, people living in cities, and people not living in cities in each region. | Yes |  | SELECT  co.region,  SUM(co.population) AS total\_population,  SUM(ci.population) AS population\_in\_cities,  SUM(co.population) - SUM(IFNULL(ci.population, 0)) AS population\_not\_in\_cities  FROM country co  LEFT JOIN city ci ON co.name = ci.country  GROUP BY co.region; |
|  | The population of people, people living in cities, and people not living in cities in each country. | Yes |  | SELECT  co.region,  SUM(co.population) AS total\_population,  SUM(ci.population) AS population\_in\_cities,  SUM(co.population) - SUM(IFNULL(ci.population, 0)) AS population\_not\_in\_cities  FROM country co  LEFT JOIN city ci ON co.name = ci.country  GROUP BY co.name, co.population |
|  | Finally, the organisation has asked if it is possible to provide the number of people who speak the following the following languages from greatest number to smallest, including the percentage of the world population:  Chinese.  English.  Hindi.  Spanish.  Arabic. | Yes |  | SELECT cl.language,  SUM(co.population\* cl.percentage/100) AS speakers,  (SUM(co.population \*cl.percentage/100)/ (SELECT SUM(population) FROM country))\* 100 AS world\_percentage  FROM countrylanguage cl  JOIN country co ON countrycode.code  WHERE cl.language IN (‘Chinese’, ‘English’, ‘Hindi’, ‘Spanish’, ‘Arabic’)  GROUP BY cl.language  ORDER BY speakers DESC; |
|  | A country report requires the following columns:  Code.  Name.  Continent.  Region.  Population.  Capital. | Yes |  | SELECT co.code AS code,  Co.name AS name,  Co.continent AS continent,  Co.region AS region,  Co.population AS population,  ci.name AS capital  FROM country co  JOIN city ci ON co.capital = ci.id; |
|  | City Report  A city report requires the following columns:  Name.  Country.  District.  Population. | Yes |  | SELECT ci.name AS city\_name,  Co.name AS Country\_name  ci.district AS District,  ci.population AS Population  FROM city ci  JOIN country co ON countrycode = co.code; |
|  | A capital city report requires the following columns:   * Name. * Country. * Population. | Yes |  | SELECT ci.name AS capital\_name,  Co.name AS country\_name,  Ci.population AS Population  FROM country co  JOIN city ci ON ci.id =co.capital  ORDER BY ci.population DESC; |
|  | The name of the continent/region/country. | Yes |  | Select co.continent AS continent,  Co.region AS Region,  Co.name AS Country\_Name  FROM country co  ORDER BY co.continent, co.region, co.name; |
|  | The total population of the continent/region/country. |  |  | SELECT co. continent AS continent,  Co.region AS Region,  Co.name AS country\_Name,  Co.Population AS population  FROM country co  ORDER BY co.contient,co.region, co.name, co.population; |
|  | The total population of the continent/region/country living in cities (including a %). |  |  | SELECT co.continent AS Continent,  co.region AS Region,  co.name AS Country\_Name,  co.population AS percentage\_in\_cities,  SUM(co.population) AS Total\_Population,  (SUM(ci.population) / co.population \* 100) AS Percentage\_In\_Cities  FROM country co  JOIN city ci ON ci.countrycode = co.code  GROUP BY co.continent, co.region, co.name, co.population  ORDER BY co.continent, co.region, co.name; |
|  | The total population of the continent/region/country not living in cities (including a %). | Yes |  | SELECT co.continent AS Continent,  co.region AS Region,  co.name AS Country\_Name,  co.population AS percentage\_not\_in\_cities,  SUM(co.population) AS Total\_Population,  (SUM(ci.population) / co.population \* 100) AS Percentage\_Not\_In\_Cities  FROM country co  JOIN city ci ON ci.countrycode = co.code  GROUP BY co.continent, co.region, co.name, co.population  ORDER BY co.continent, co.region, co.name; |