DBT Problem Solving - Set - 013

***Consider the following relations***

***country {code, name, continent, region, area, indepyear, population, liveexpectance}***

***capital {id, countrycode, name}***

***city {id, name, countrycode, district, population}***

***countrylanguage {countrycode, language, isofficial, percentage}***

**Given the above relations solve the following queries.**

1. Write a query to display the name of the country whose official language is 'Hindi'.
2. Write a query to display the city name, and its population having the highest population for 'Afghanistan'.
3. Write a query to display all city names whose population is as same as 'Sunggal'.
4. Write a query to display languages spoken in the city 'Ajman'.
5. Write a query to display official languages of the city 'Ajman'.
6. Write a query to display countries who speaks 'Arabic'.
7. Write a query to display the country name whose official language is 'HINDI'.
8. Write a query to display the country name and its population whose population is more than 12878000.
9. Write a query to display the country with the highest population.
10. Write a query to display country name whose population is more than any of the country like 'Australia' or 'Belgium' in ascending order of country names.
11. Write a query to display the countries whose surfaceArea is more than 'Australia'.
12. Write the query to display the average LifeExpectancy.
13. Write a query to display the country name and count how many languages are spoken in every country.
14. Write a query to display country name, capital and official language for every country.

Answers Set – 013:

1. select country.name, language, IsOfficial from country, countrylanguage where country.Code = countrylanguage.CountryCode and language ='Hindi' and IsOfficial =True;
2. select city.name, max(city.population) from city, country where city.CountryCode=country.Code and country.name='Afghanistan'
3. select city.name, city.Population from city where population = (select city.population from city where city.name='Sunggal');
4. select language from city, countrylanguage where city.CountryCode = countrylanguage.CountryCode and city.name = 'Ajman';
5. select language from city, countrylanguage where city.CountryCode = countrylanguage.CountryCode and city.name ='Ajman' and countrylanguage.IsOfficial = true;
6. select country.name, language from country, countrylanguage where country.code = countrylanguage.CountryCode and IsOfficial = true;
7. select country.name from country, countrylanguage where country.code = countrylanguage.CountryCode and language = 'Arabic'
8. select country.name from country, countrylanguage where country.code = countrylanguage.CountryCode and language='Hindi' and isofficial = true;
9. select name, population from country where population > 12878000;
10. select name from country where population = (select max(population) from country);
11. select name, population from country where population >any(select population from country where name = 'Australia' or name = 'Belgium') order by name;
12. select name, surfacearea from country where surfacearea > (select surfacearea from country where name ='Australia');
13. select avg(LifeExpectancy) from country;
14. select country.name, count(\*) from country, countrylanguage where country.code = countrylanguage.CountryCode group by country.name;
15. select country.name, capital.name, countrylanguage.Language from country, countrylanguage, capital where country.code = countrylanguage.CountryCode and country.code = capital.countrycode and isofficial = true;