DBT Problem Solving - Set - 013

Feb19/ DBT-PS/ 013

Database Technologies

Diploma in Advance Computing

February 2019

**Country Table:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Name** | **Continent** | **Region** | **Area** | **IndepYear** | **Population** | **LifeExpectancy** |
| ABW | Aruba | North America | Caribbean | 193 | 0 | 103000 | 78.4 |
| AFG | Afghanistan | Asia | Southern and Central Asia | 652090 | 1919 | 22720000 | 45.9 |
| AGO | Angola | Africa | Central Africa | 1246700 | 1975 | 12878000 | 38.3 |
| AIA | Anguilla | North America | Caribbean | 96 | 0 | 8000 | 76.1 |
| ALB | Albania | Europe | Southern Europe | 28748 | 1912 | 3401200 | 71.6 |
| AND | Andorra | Europe | Southern Europe | 468 | 1278 | 78000 | 83.5 |
| ANT | Netherlands Antilles | North America | Caribbean | 800 | 0 | 217000 | 74.7 |
| ARE | United Arab Emirates | Asia | Middle East | 83600 | 1971 | 2441000 | 74.1 |
| ARG | Argentina | South America | South America | 2780400 | 1816 | 37032000 | 75.1 |
| ARM | Armenia | Asia | Middle East | 29800 | 1991 | 3520000 | 66.4 |
| ASM | American Samoa | Oceania | Polynesia | 199 | 0 | 68000 | 75.1 |
| ATA | Antarctica | Antarctica | Antarctica | 13120000 | 0 | 0 | 0 |
| ATF | French Southern territories | Antarctica | Antarctica | 7780 | 0 | 0 | 0 |
| ATG | Antigua and Barbuda | North America | Caribbean | 442 | 1981 | 68000 | 70.5 |
| AUS | Australia | Oceania | Australia and New Zealand | 7741220 | 1901 | 18886000 | 79.8 |
| AUT | Austria | Europe | Western Europe | 83859 | 1918 | 8091800 | 77.7 |
| AZE | Azerbaijan | Asia | Middle East | 86600 | 1991 | 7734000 | 62.9 |
| BDI | Burundi | Africa | Eastern Africa | 27834 | 1962 | 6695000 | 46.2 |
| BEL | Belgium | Europe | Western Europe | 30518 | 1830 | 10239000 | 77.8 |
| BEN | Benin | Africa | Western Africa | 112622 | 1960 | 6097000 | 50.2 |
| BFA | Burkina Faso | Africa | Western Africa | 274000 | 1960 | 11937000 | 46.7 |
| BGD | Bangladesh | Asia | Southern and Central Asia | 143998 | 1971 | 129155000 | 60.2 |
| BGR | Bulgaria | Europe | Eastern Europe | 110994 | 1908 | 8190900 | 70.9 |
| BHR | Bahrain | Asia | Middle East | 694 | 1971 | 617000 | 73 |
| BHS | Bahamas | North America | Caribbean | 13878 | 1973 | 307000 | 71.1 |
| BIH | Bosnia and Herzegovina | Europe | Southern Europe | 51197 | 1992 | 3972000 | 71.5 |
| BLR | Belarus | Europe | Eastern Europe | 207600 | 1991 | 10236000 | 68 |
| BLZ | Belize | North America | Central America | 22696 | 1981 | 241000 | 70.9 |
| BMU | Bermuda | North America | North America | 53 | 0 | 65000 | 76.9 |

**Capital Table:**

|  |  |  |
| --- | --- | --- |
| **ID** | **CountryCode** | **Name** |
| 1 | ABW | Oranjestad |
| 2 | AFG | Kabul |
| 3 | AGO | Luanda |
| 4 | AIA | The Valley |
| 5 | ALB | Tirana |
| 6 | AND | Andorra la Vella |
| 7 | ANT |  |
| 8 | ARE | Abu Dhabi |
| 9 | ARG | Buenos Aires |
| 10 | ARM | Yerevan |
| 11 | ASM | Pago Pago |
| 12 | ATA |  |
| 13 | ATF | Port-aux-FranÃ§ais |
| 14 | ATG | Saint John’s |
| 15 | AUS | Canberra |
| 16 | AUT | Vienna |
| 17 | AZE | Baku |
| 18 | BDI | Bujumbura |
| 19 | BEL | Brussels |
| 20 | BEN | Porto-Novo |
| 21 | BFA | Ouagadougou |
| 22 | BGD | Dhaka |
| 23 | BGR | Sofia |
| 24 | BHR | Manama |
| 25 | BHS | Nassau |
| 26 | BIH | Sarajevo |
| 27 | BLR | Minsk |
| 28 | BLZ | Belmopan |
| 29 | BMU | Hamilton |
| 30 | BOL | La Paz |
| 31 | BRA | Brasilia |
| 32 | BRB | Bridgetown |
| 33 | BRN | Bandar Seri Begawan |
| 34 | BTN | Thimphu |
| 35 | BVT |  |
| 36 | BWA | Gaborone |
| 37 | CAF | Bangui |
| 38 | CAN | Ottawa |
| 39 | CCK | West Island |
| 40 | CHE | Bern |
| 41 | CHL | Santiago |
| 42 | CHN | Beijing |
| 43 | CIV |  |
| 44 | CMR | Yaounde |
| 45 | COD | Kinshasa |
| 46 | COG | Brazzaville |
| 47 | COK | Avarua |
| 48 | COL | Bogota |
| 49 | COM | Moroni |
| 50 | CPV | Praia |
| 51 | CRI | San Jose |
| 52 | CUB | Havana |
| 53 | CXR | The Settlement |
| 54 | CYM | George Town |
| 55 | CYP | Nicosia |
| 56 | CZE | Prague |
| 57 | DEU | Berlin |
| 58 | DJI | Djibouti |
| 59 | DMA | Roseau |
| 60 | DNK | Copenhagen |

**City Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **CountryCode** | **District** | **Population** |
| 1 | Kabul | AFG | Kabol | 1780000 |
| 2 | Qandahar | AFG | Qandahar | 237500 |
| 3 | Herat | AFG | Herat | 186800 |
| 4 | Mazar-e-Sharif | AFG | Balkh | 127800 |
| 5 | Amsterdam | NLD | Noord-Holland | 731200 |
| 6 | Rotterdam | NLD | Zuid-Holland | 593321 |
| 7 | Haag | NLD | Zuid-Holland | 440900 |
| 8 | Utrecht | NLD | Utrecht | 234323 |
| 9 | Eindhoven | NLD | Noord-Brabant | 201843 |
| 10 | Tilburg | NLD | Noord-Brabant | 193238 |
| 11 | Groningen | NLD | Groningen | 172701 |
| 12 | Breda | NLD | Noord-Brabant | 160398 |
| 13 | Apeldoorn | NLD | Gelderland | 153491 |
| 14 | Nijmegen | NLD | Gelderland | 152463 |
| 15 | Enschede | NLD | Overijssel | 149544 |
| 16 | Haarlem | NLD | Noord-Holland | 148772 |
| 17 | Almere | NLD | Flevoland | 142465 |
| 18 | Arnhem | NLD | Gelderland | 138020 |
| 19 | Zaanstad | NLD | Noord-Holland | 135621 |
| 20 | Ã‚Â´s-Hertogenbosch | NLD | Noord-Brabant | 129170 |
| 21 | Amersfoort | NLD | Utrecht | 126270 |
| 22 | Maastricht | NLD | Limburg | 122087 |
| 23 | Dordrecht | NLD | Zuid-Holland | 119811 |
| 24 | Leiden | NLD | Zuid-Holland | 117196 |
| 25 | Haarlemmermeer | NLD | Noord-Holland | 110722 |
| 26 | Zoetermeer | NLD | Zuid-Holland | 110214 |
| 27 | Emmen | NLD | Drenthe | 105853 |
| 28 | Zwolle | NLD | Overijssel | 105819 |
| 29 | Ede | NLD | Gelderland | 101574 |
| 30 | Delft | NLD | Zuid-Holland | 95268 |
| 31 | Heerlen | NLD | Limburg | 95052 |
| 32 | Alkmaar | NLD | Noord-Holland | 92713 |
| 33 | Willemstad | ANT | CuraÃƒÂ§ao | 2345 |
| 34 | Tirana | ALB | Tirana | 270000 |
| 35 | Alger | DZA | Alger | 2168000 |
| 36 | Oran | DZA | Oran | 609823 |
| 37 | Constantine | DZA | Constantine | 443727 |
| 38 | Annaba | DZA | Annaba | 222518 |
| 39 | Batna | DZA | Batna | 183377 |
| 40 | SÃƒÂ©tif | DZA | SÃƒÂ©tif | 179055 |
| 41 | Sidi Bel AbbÃƒÂ¨s | DZA | Sidi Bel AbbÃƒÂ¨s | 153106 |
| 42 | Skikda | DZA | Skikda | 128747 |
| 43 | Biskra | DZA | Biskra | 128281 |
| 44 | Blida (el-Boulaida) | DZA | Blida | 127284 |
| 45 | BÃƒÂ©jaÃƒÂ¯a | DZA | BÃƒÂ©jaÃƒÂ¯a | 117162 |
| 46 | Mostaganem | DZA | Mostaganem | 115212 |
| 47 | TÃƒÂ©bessa | DZA | TÃƒÂ©bessa | 112007 |
| 48 | Tlemcen (Tilimsen) | DZA | Tlemcen | 110242 |
| 49 | BÃƒÂ©char | DZA | BÃƒÂ©char | 107311 |
| 50 | Tiaret | DZA | Tiaret | 100118 |

**CountryLanguage Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **CountryCode** | **Language** | **IsOfficial** | **Percentage** |
| ABW | Dutch | T | 5.3 |
| ABW | English | F | 9.5 |
| ABW | Papiamento | F | 76.7 |
| ABW | Spanish | F | 7.4 |
| AFG | Balochi | F | 0.9 |
| AFG | Dari | T | 32.1 |
| AFG | Pashto | T | 52.4 |
| AFG | Turkmenian | F | 1.9 |
| AFG | Uzbek | F | 8.8 |
| AGO | Ambo | F | 2.4 |
| AGO | Chokwe | F | 4.2 |
| AGO | Kongo | F | 13.2 |
| AGO | Luchazi | F | 2.4 |
| AGO | Luimbe-nganguela | F | 5.4 |
| AGO | Luvale | F | 3.6 |
| AGO | Mbundu | F | 21.6 |
| AGO | Nyaneka-nkhumbi | F | 5.4 |
| AGO | Ovimbundu | F | 37.2 |
| AIA | English | T | 0 |
| ALB | Albaniana | T | 97.9 |
| ALB | Greek | F | 1.8 |
| ALB | Macedonian | F | 0.1 |
| AND | Catalan | T | 32.3 |
| AND | French | F | 6.2 |
| AND | Portuguese | F | 10.8 |
| AND | Spanish | F | 44.6 |
| ANT | Dutch | T | 0 |
| ANT | English | F | 7.8 |
| ANT | Papiamento | T | 86.2 |
| ARE | Arabic | T | 42 |
| ARE | Hindi | F | 0 |
| ARG | Indian Languages | F | 0.3 |
| ARG | Italian | F | 1.7 |
| ARG | Spanish | T | 96.8 |
| ARM | Armenian | T | 93.4 |
| ARM | Azerbaijani | F | 2.6 |
| ASM | English | T | 3.1 |
| ASM | Samoan | T | 90.6 |
| ASM | Tongan | F | 3.1 |
| ATG | Creole English | F | 95.7 |
| ATG | English | T | 0 |
| AUS | Arabic | F | 1 |
| AUS | Canton Chinese | F | 1.1 |
| AUS | English | T | 81.2 |
| AUS | German | F | 0.6 |

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

1. **Write a query to display the name of the country whose official language is 'Hindi'.**

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1. **Write a query to display the city name, and its population having the highest population for 'Afghanistan'.**

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1. **Write a query to display all city names whose population is as same as 'Sunggal'.**

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1. **Write a query to display languages spoken in the city 'Ajman'.**

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1. **Write a query to display official languages of the city 'Ajman'.**

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1. **Write a query to display all the country names and official language of those countries.**

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1. **Write a query to display countries who speaks 'Arabic'.**

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1. **Write a query to display the country name whose official language is 'HINDI'.**

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1. **Write a query to display the country name and its population whose population is more than 12878000.**

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1. **Write a query to display the country with the highest population.**

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1. **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.**

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1. **Write a query to display the countries whose surfaceArea is more than 'Australia'.**

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1. **Write the query to display the average LifeExpectancy.**

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1. **Write a query to display the country name and count how many languages are spoken in every country.**

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1. **Write a query to display country name, capital and official language for every country.**

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ANSWERS

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;**