**DBMS. QUIZ ASSIGNMENT – 2 (Total Score: 5)**

November 2, 2023 (updated) / Assoc. Prof. Mahammad Sharifov

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **CONTINENTS**   |  | | --- | | **continent\_id** *(PK)* | | **continent\_name** | | **COUNTRIES**   |  | | --- | | **country\_code**  *(PK)* | | **country\_name** | | **continent\_id** *(FK)* | | **CITIES**   |  | | --- | | **city\_id**  *(PK)* | | **city\_name** | | **country\_code**  *(FK)* | | **population** | | **year** *INT(4)* | | **capital** *INT(1) DEFAULT '0'* | |

1. Create database: “**worldcountries**”
2. Create 3 tables with names: “**countries**”, “**cities**”, “**continents**”
3. ADD foreign key constraints like, { UPDATE RESTRICT AND DELETE NULL } and prove it by writing simple query.
4. Insert values into “**continents**” table like { Europe, Asia, Africa, America, Australia… }
5. Insert 15 Countries into “**countries**” table, example { “TR”, “Turkey”, 1 }
6. Insert 15 cities into “**cities**” table, example { “Istanbul”, “TR”, 954656, 1800, 0 }
7. Write a query: Show “continent names” and “country names”. Group by continents and put all country names in one row, adding separator sign by your choice.
8. Write a query: Show “country names” and “capital cities” only, using Left Join.
9. Write a query: Show “continent names”, “cities” and total population of each continent. Group by continents,and put all city names in one row, adding separator sign by your choice.
10. Write a query: Show “country names”, “city names”, “year”. Point out city like “**ANCIENT**” city if “year <= 1000”, “**OLD**” if year > 1000 && year <= 1900 and “**MODERN**” if city > 1900.
11. Write a query: Show “country names”, “country code”, “capital” and “count of cities”, “total population of cities”.

**continents**

(1,"Europe")

(2,"Asia")

(3,"Africa")

(4,"America")

(5,"Australia")

(6,"Antarctida")

**countries**

("TR","Turkey",1)

("AZ","Azerbaijan",2)

("Ru","Russia",1)

("AU","Australia",5)

("SW","Sweden",1)

("IR","Iran",2)

("FR","France",1)

("SP","Spain",2)

("ARG","Argentina",4)

("BR","Brasil",4)

("VE","Venesuela",4)

("JP","Japan",2)

("CO","Congo",3)

("NG","Nigeria",3)

("KO","Korea",2)

**cities**

("Istanbul","TR",100000,1800,0)

("Baku","AZ",3000000,1975,0)

("Moscow","RU",4000000,1050,1)

("Melburn","AU",5000000,300,0)

("Malmo","SW",7000000,1500,0)

("Tehran","IR",50000,1902,1)

("Paris","FR",500000,1450,1)

("Barcelona","SP",400000,1400,0)

("Karakas","VE",900000,1800,1)

("Buenos Aires","ARG",170000,1870,1)

("Rio","BR",900000,1700,0)

("Tokio","JP",8000000,1900,1)

("Bukavu","CO",80000,1600,0)

("Abuca","NG",100000,1500,0)

("Seul","KO",9154000,1940,1)