

Add Your Reg Number here: _____

Database Management Tools (DBMT)

27 March 2024

INDIVIDUAL ASSIGNMENT #1: /50 marks

Year 2 CS NYARUGENGE

Add Your Registration Number:

Question 1: /10 marks

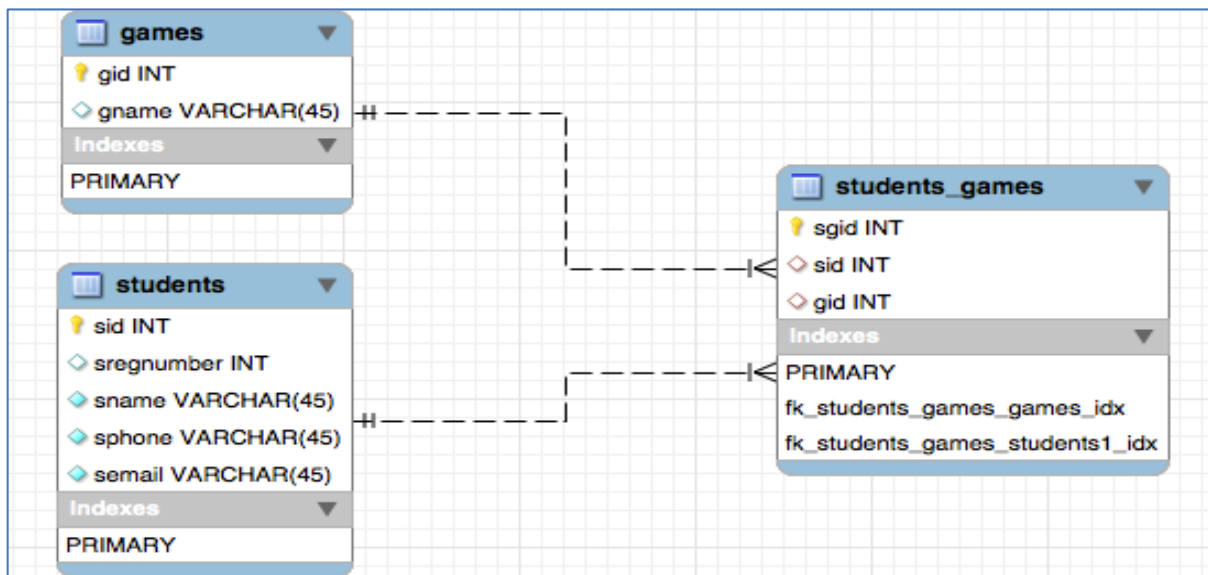
Here are staff information in the denormalized table.

1	Family name	7	Phone 1	13	Trainings
2	Given Name	8	Phone 2	14	Languages
3	DoB	9	Phone 3	15	Drinks
4	District	10	Watched Movies	16	Food
5	Working place	11	Favorite Colors	17	Hobbies
6	Studies	12	Visited Countries	18	Games

The above table not normalized. Use MySQL Workbench tool to normalize it. Remember to use the required data types, defining the Primary Keys and Foreign Keys as required. Create its EER Diagram and export the design in PDF format. [10 marks]

- How many entities/tables you have generated? _____
- How many relationships? _____

Question 2:/40 marks



2.1 Using MySQL Workbench tool installed on your computer, produce the above design and export the design to the MYSQL Server.?

[6 marks]

2.2 Enforce the constraints on the table containing the Foreign Keys, set RESTRICT on DELETE. Is it working?

[2 marks]

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2.3 Enforce the constraints on the table containing the Foreign Keys, set CASCADE on UPDATE. Is it working? _____ [2 marks]

Answer the next questions.

1. Export the design in MySQL server. Is working? _____ [2 marks]
2. Add Three games (1. Football, 2. Handball and 3. Volleyball) in “games” table. Is it working? _____ [2 marks]
3. Add two Students of your choice in the “students” table with 1 and 2 IDs. Is it working? _____ [2 marks]
4. Add records in “students_games” table to show that all 2 students play Football, the second student also plays Volleyball. Is it working? _____ [2 marks]
5. Add a record in “students_games” table to show that the student with ID “5” plays Handball. Is it working? _____ [2 marks]
6. Using Command line tool (CMD) or MySQL Workbench,
 - a. Show the list of games. How many? [2 marks]

 - b. Show the list of students. How many? [2 marks]

 - c. Show the students and the games they are playing. How many records? _____ [2 marks]
 - d. Update the game called Football and set its ID to 5. Is it possible? [2 marks]

 - e. Delete the game called Handball. What happen? [2 marks]

 - f. Delete the game called Volleyball. What happen? [2 marks]

 - g. Show the list of games. How many now? [2 marks]

 - h. Show the list of students. How many now? [2 marks]

 - i. Show the students and the games they are playing. How many records now? _____ [2 marks]
 - j. Add the students who plays Tennis. Remember Tennis is not in the games table. What happen.? Was added or Not? [2 marks]

Note:

- Make sure that everything is running on your laptop.
- Print this questionnaire, provide the answers, then submit it on **3rd/04/2014 at 9h00 am**. The physical verification on your laptop will be done on the same day.
- You have 7 days. There are no excuses for not submitting on time.