

Green University of Bangladesh Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering Semester: (Summer, Year:2022), B.Sc. in CSE (Day)

Course Title: Database Lab

Course Code: CSE 210 Section:203D3

Lab Project Name: Organization of GUB Sports Database Management System

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<u>Lab Project Status</u>				
Marks:	Signature:			
Comments:	Date:			

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Introduction

1.1 Introduction

All the information of a Sports club needed can be managed in this project. Information about the current students, alumni, current players, club fund, club events all of these can be managed in this project. Here we can able to see the information about the players, which sports he/she likes to play or we can know about the event details organized by GUB Sports.

1.2 Design Goals

The database consists of six tables and they are student_info, current_student, alumni, funds, players, events.

Student_info table has one to one relationship with alumni and current_student table. Current_student table has one to many relationship with event and players table. Alumni table has one to many relationship with funds.

Implementation of the Project

2.1 Schema Diagram:

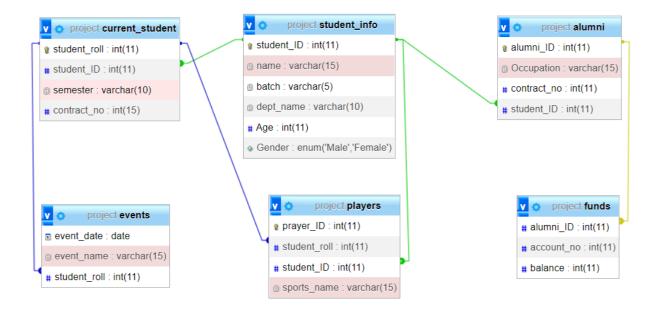
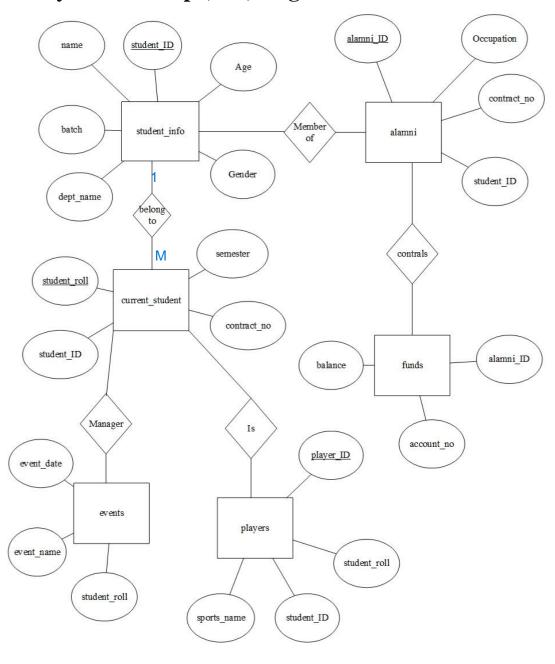


Figure 1: Schema Diagram

2.2 Entity Relationship (ER)Diagram:



Results and Discussions

3.1 Results/Queries

student_ID name batch & 1 dept_name Age Gender 151002001 Rafia 151 CSE 30 Female 153002002 Rifat 153 CSE 24 Male 161001048 Faisal 161 CSE 20 Male	update student_info set batch='162',name=' Hadi' where student_id ='153002002';	9 151002001 Rafia 9 161001048 Faisal 9 153002002 Hadi	batch a 1 de 151 CS 161 CS 162 CS	SE 30 Female SE 20 Male
Image: legion of the	ALTER TABLE alumni ADD COLUMN Email varchar(45); ALTER TABLE alumni DROP COLUMN Email;	e 1 Teacher e 2 GOVT E e 3 IT Engine	195621 mploye 176547	5485 151002001 NULL 8932 161001048 NULL
SELECT student_id,student_roll FROM current_student WHERE student_roll BETWEEN 11 AND 60; select student_ID from student_info union all select student_ID from alumni;	### student_id student	80 81 01 02 48		
SELECT name,dept_name FROM student_info WHERE name like '' AND dept_name='CSE'	Edit	y Delete	name Bijoy Rafia Shuvo Arnob jafor Rasul Misty	CSE CSE CSE CSE CSE CSE CSE CSE

SELECT							
student_info.name,players.prayer_ID,play		name	prayer_ID	sports_name	_	1	
ers.sports_name		Reyan	12	Cards			
FROM student_info		Ismail	9	Cards			
INNER JOIN current_student		jafor	14	Cards			
ON		Mustafiz		Cards			
student_info.student_ID=current_student.s		Muntajima		Chess			
tudent ID		Mustafiz		Chess			
INNER JOIN players		Rasul		Cricket			
ON		Ismail		Cricket			
players.student_roll=current_student.stude		ioman	O .	Oriende			
nt roll							
ORDER BY players.sports_name;							
	Н	_					
CREATE TRIGGER 'balance_Constraints'	Н	Error					
BEFORE INSERT ON funds	SQL query: <u>Copy</u>						
FOR EACH ROW	Н						
BEGIN IF NEW.balance < 1000 THEN SET	Н						
NEW.balance= 1000;	Н						
END IF;	CREATE TRIGGER 'balance_Constraints'						
END	BEFORE INSERT ON funds FOR FACH ROW						
	BEGIN IF NEW.balance < 1000 THEN SET NEW.balance= 1000;			G .			
	П						

3.2 Analysis and Outcome

The project was a learning experience for us and allowed us to improve upon our SQL skills. From this we learn about database management system, SQL query, function procedure, trigger, cursor etc. that help us for future database development. We developed a database system for managing the information of Organization of GUB Sports Database Management System

Conclusion

4.1 Introduction

Discuss the contents of this chapter and summarized description of the work and the results and observation. Generally, it should be in one paragraph. The objective of this project was to build a program for maintaining the details of all students and match details for a sports club. "GUB Sports Database Management System" project which helps students to save a lot of time in searching for games being conducted in various colleges. Our project provides students to get register from anywhere and anytime. The system developed is able to meet all the basic requirements. It will provide the facility to the user so that they can keep tracks of all the students performance. The management of the whole club and the student will be also benefited by the proposed system, as it will automate the whole supply procedure, which will reduce the workload.

4.1 Practical Implications

We have successfully finished our sports club management System. But we would like to improve our system in future. Our current system is website based. We want to turn this system into android application so that I will be more user friendly. Also now a days security is of major importance. So, we would like to tighten up the security of our system. Finally, we would like to add few options for editing the information that are already saved into our system. We sincerely hope that our System will help all to work effectively with their students and matches for their easy.

4.2 Scope of Future Work

- Improvement in Security
- Convert Same as android mobile Application
- Edit Option for available for stored match and student details

References

- https://www.w3schools.com/sql/
 https://www.tutorialspoint.com/sql/index.html

Current_student Student_info Alumni **Student_roll**(PK) $\underline{Student_Id}(PK)$ Alamni_ID(PK) Student_ID(FK) Name Occupation Semester Batch Contact_no $Contract_no$ Dept_name Student_ID(FK) Funds Players **Events** Alamni_ID(FK) Player_ID (PK) Event_date Account_no Student_roll (FK) Event_name balance Student_ID (FK) $Student_roll(FK)$ Sports_name

