Ahsanullah University of Science and Technology

Department of Computer Science and Engineering

Project Name : **Football Tournament System**

Couse Name: Database Lab
Couse ID: CSE 3104
Semester : FALL 2018

Student ID :	**Student Name**
160204022	Mustavi Islam
160204028	Mayisha Farzana

Introduction: Football Tournament Management System is a software where a tournament can be managed .Players can register themselves under a team .The aim of the project is to maintain records and make analysis based on reports generated . This system can store details of players ,teams , referee,venue and scores . This Project is based on mainly Database and Java.

Motivation and Objective: We have tried to figure it out in a short time. Although we have a plan to work with this in future. We want to make a website for this project where anyone can maintain a tournament by registering.

Database Tables:

Table 01: Player

Field	Type	Constraint
PlayerID	Int	P.K (IS: 10001)
Name	Varchar(50)	Not null
Age	Int	Not Null
Country	Varchar(50)	Not Null
Height	Float(5)	Not Null
Position	Varchar(50)	Not Null
Total Goal	int	Not Null
HoursPlayed	float	null
YellowCards	Int	nul
RedCards	Int	null
Ratings	Float(5)	Not null
TeamName	Varchar(50)	Not null

Table 02: Teams

Field	Type	Constraint
TeamID	Int	P.K (IS: 40001)
TeamName	Varchar(50)	Not null
HomeGround	Varchar(50)	Not null
HomeWin	Int	Not null
HomeLose	Int	Not Null
AwayWin	Int	Not null
AwayLose	Int	Not null

Table 03: Referee

Field	Type	Constraint
RefereeID	Int	P.K (IS: 3001)
RefereeName	Varchar(50)	Not null
RefereeCountry	Varchar(50)	Not null
MatchOperated	Int	Not null

Table 04: MatchSchedule

Field	Type	Constraint
Matchid	Int	P.K (IS: 20001)
HomeTeam	Varchar(50)	Not null
AwayTeam	Varchar(50)	Not null
Date	Datetime	Not null
RefereeName	Varchar(50)	Not Null
Venue	Varchar(50)	Not null

Table 05: Venue

Field	Type	Constraint
VenueID	Int	P.K (IS: 60001)
VenueName	Varchar(50)	Not null

Table 05: Scoree

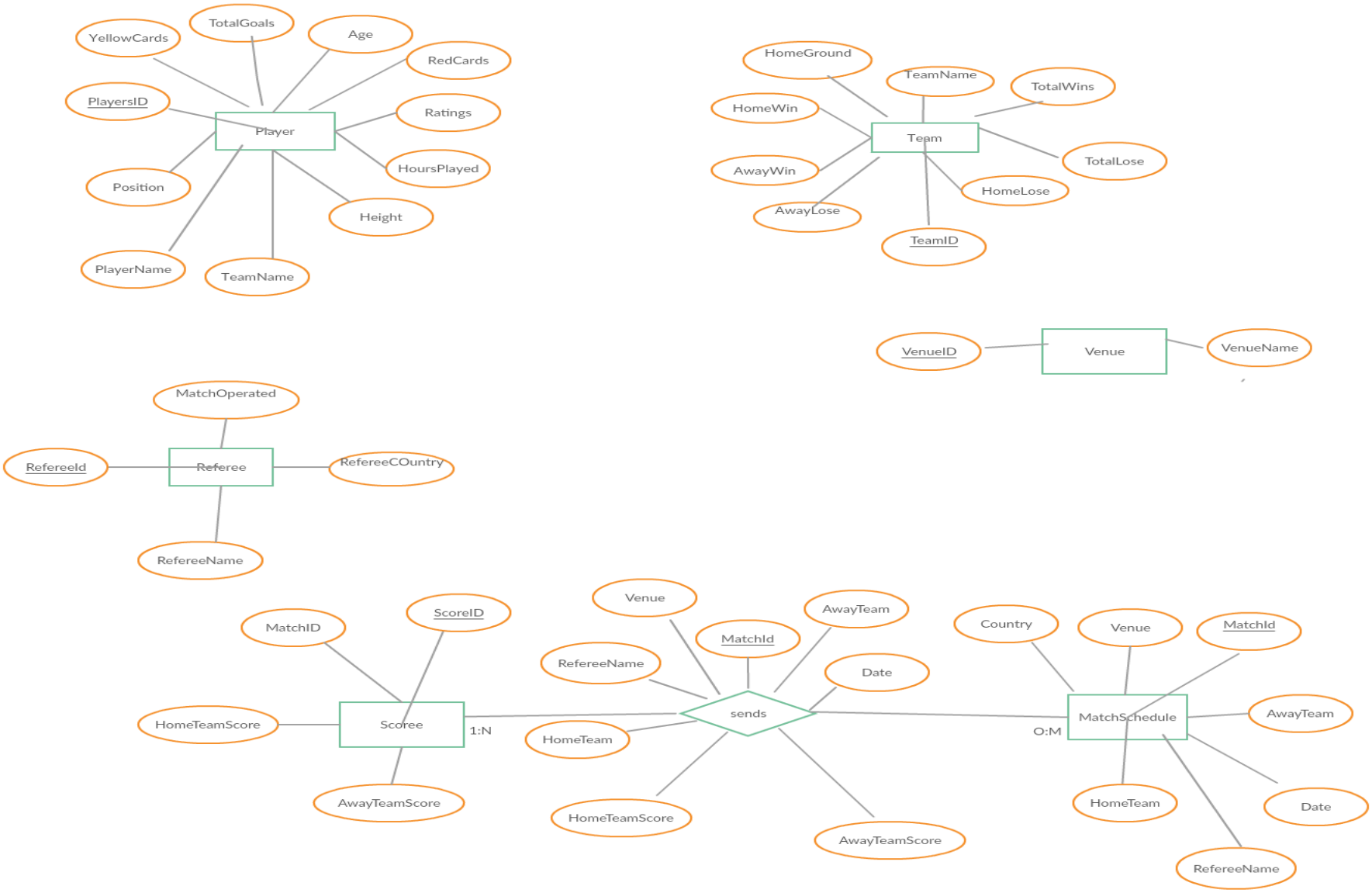
Field	Type	Constraint
ScoreID	Int	P.K (IS: 7001)
MatchID	Int	F.K(20001),Not null
Hometeamscore	Varchar(50)	Not null
Awayteamscore	Varchar(50)	Not null

Database Relations:

Relation 01:sends

Field	Type	Constraint
MatchID	Int	P.K (IS:20001,1)
Home Team	Varchar(50)	Not null
Away Team	Varchar(50)	Not Null
Referee Name	Varchar(50)	Not Null
Date	Datetime	Not null
Home Team Score	Varchar(50)	Not Null
Away Team Score	Varchar(50)	Not null

Entity Relationship Diagram:



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Query Tables Construction

```
--Players table
create table Players(
PlayerId int primary key identity(10001,1),
Age int not null,
Name varchar(50) not null,
Country varchar(50) not null,
Height float(5) not null,
Position varchar(50) not null,
TotalGoal int not null,
HoursPlayed float(50) Null,
Yellowcards int null,
RedCards int null,
Ratings float(5) Not null,
TeamName varchar(50) not null
);
--Referee table
create table Referee(
RefereeId int primary key identity(30001,1),
RefereeName varchar(50) not null,
RefereeCountry varchar(50) not null,
MatchOperated int not null
);

--Team table
create table Teams
(
 teamId int primary key identity(40001,1),
 teamName varchar(50) not null ,
 homeGround varchar(50) not null ,
 homeWin int not null,
 homeLoss int not null ,
 awayWin int not null ,
 awayLoss int not null ,
 totalWin int not null ,
 totalLose int not null

)
--Match Schedule
create table MatchSchedule(
Matchid int primary key identity(20001,1),
HomeTeam varchar(50)  not null,
AwayTeam varchar(50)not null,
Datee Datetime ,
RefereeName varchar(50) not null,
venue varchar(50) not null
);
--Venue table
```

```
create table venue(
venueid int primary key identity(60001,1),
venuename varchar(50) not null
);
--Score table
create table Scoree(
Scoreid int Primary key identity (70001,1),
Matchid int NOT NULL FOREIGN KEY REFERENCES MatchSchedule (Matchid),
Hometeamscore varchar(50) not null,
Awayteamscore varchar(50) not null
);
```

Query Insertion of Data

```
--data insert Player profile
Insert into Players
(Age,Name,Country,Height,Position,TotalGoal,HoursPlayed,Yellowcards,RedCards,Ratings,teamname)
values(?,?,?,?,?,?,?,?,?,?,?);
insert into Players values(21,'Mayisha','Bangladesh',160,'Midfielder',2,2,0,1,5,'araina' );
insert into Players values(22,'Mustavi','England',150,'Midfielder',3,2,0,1,5,'Los angeles' );

--data insert Referee profile

insert into Referee (RefereeName,RefereeCountry,MatchOperated) values(?,?,?)

insert into Referee values ('akash','Australia',2);
insert into Referee values ('Shimul','Australia',3);

--data insert Team Profile

insert into Teams (teamName,homeGround,homeWin,homeLoss,awayWin,awayLoss,totalWin,totalLose)
values(?,?,?,?,?,?,?,?);

insert into Teams values('los angeles','Bangladesh',2,3,1,2,3,5);
insert into Teams values('arina','UK',2,3,1,2,3,5);

--data insert into Match Schedule

insert into MatchSchedule(HomeTeam,AwayTeam,Datee,RefereeName,venue)values(?,?,?,?,?)

insert into MatchSchedule values('ariana','los angeles','2018-03-12','mayisha','Hongkong');

insert into MatchSchedule values('firanada','los angeles','2019-03-12','mustavi','Hongkong');

--data insert into venue profile

insert into venue (venuename) values(?);

insert into into venue values('uk');

insert into into venue values('USE');

--data insert into Score table

nsert into Scoree (Matchid,Hometeamscore,Awayteamscore) values(?,?,?);

insert into values Scoree(20001,2,3);

insert into values Scoree(20002,5,3);
```

Query for Value Update, Setting Constraints and Rules

```
"UPDATE Players SET
Position=?,TotalGoal=?,HoursPlayed=?,YellowCards=?,RedCards=?,TeamName=?"+" where
Playerid="

"UPDATE Referee SET RefereeName=?,refereeCountry=?,MatchOperated=?"
                + " where Refereeid="+refid.getText();

UPDATE Teams SET
teamName=?,homeGround=?,homeWin=?,homeLoss=?,awayWin=?,awayLoss=?,totalWin=?,totalLo
se=?"
                + " where teamId="+teamid.getText();
```

Query for the Join and Binary Operation (like Union,except) you have used

```
SELECT
MatchSchedule.Matchid,MatchSchedule.HomeTeam,MatchSchedule.AwayTeam,MatchSchedule.Datee,MatchSchedule.RefereeName,MatchSchedule.venue,Scoree.Hometeamscore,Scoree.Awayteamscore FROM
MatchSchedule Inner Join Scoree ON MatchSchedule.Matchid=Scoree.Matchid;
```

Screen Shots of your project interface design (min 6, max 10- per page 2 picture)

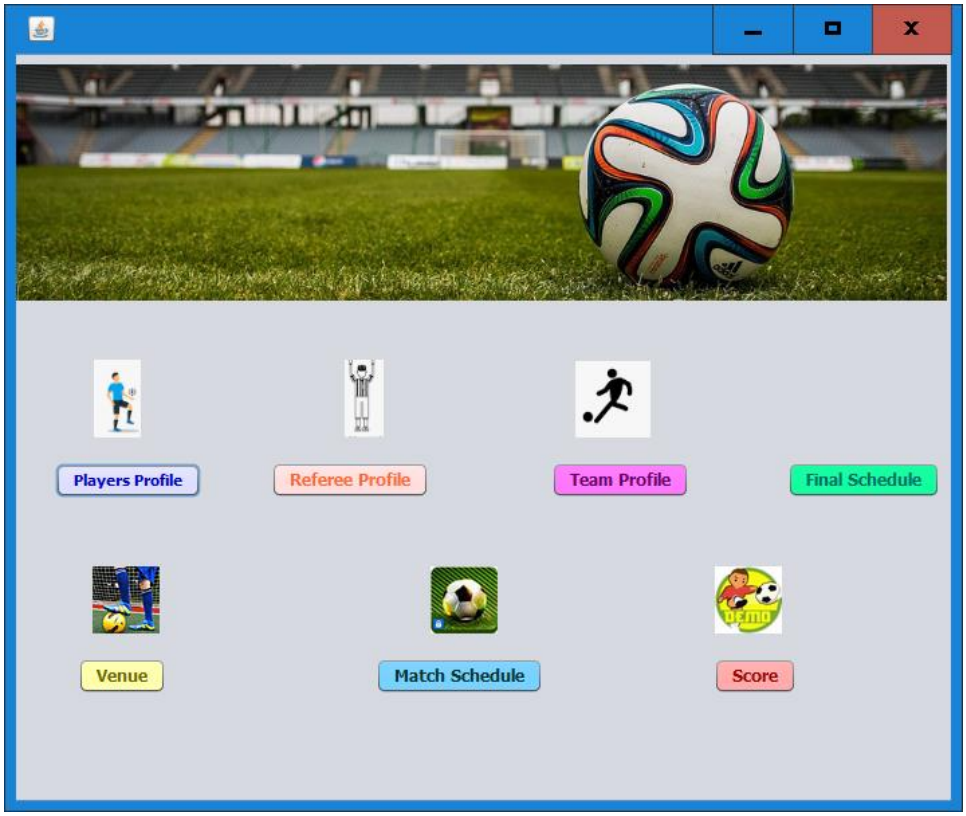

Image 01: Home Page

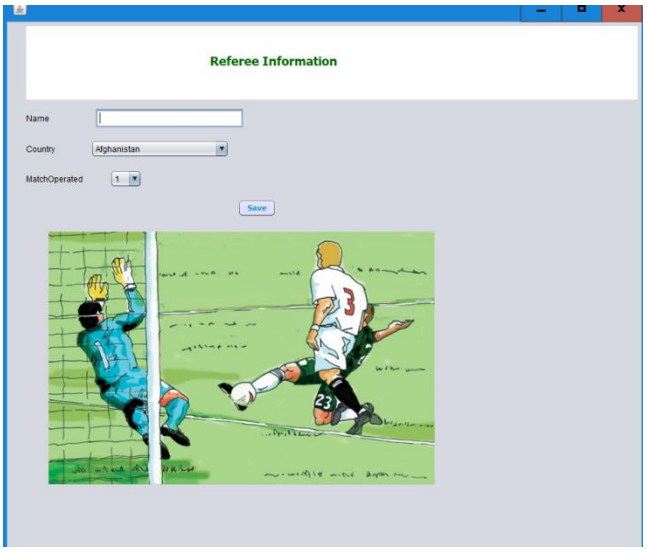

Image 02: Search panel

Image 03:Players table

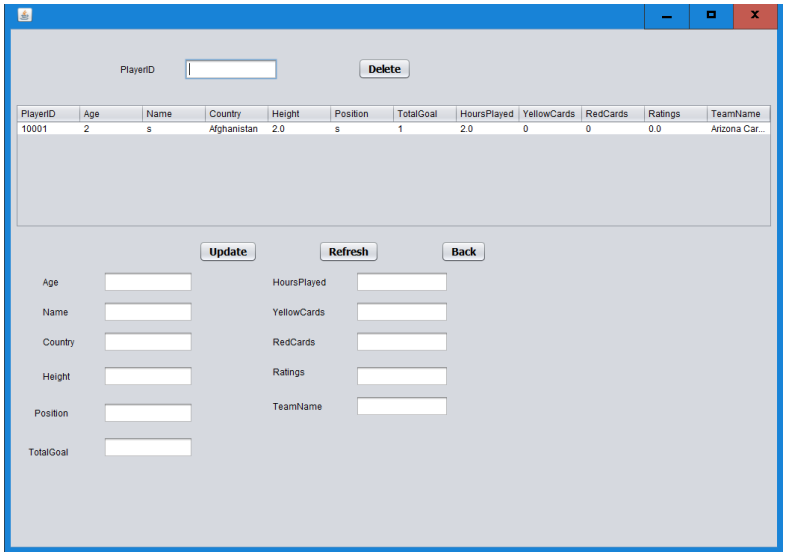

Image 4: Players Show Table

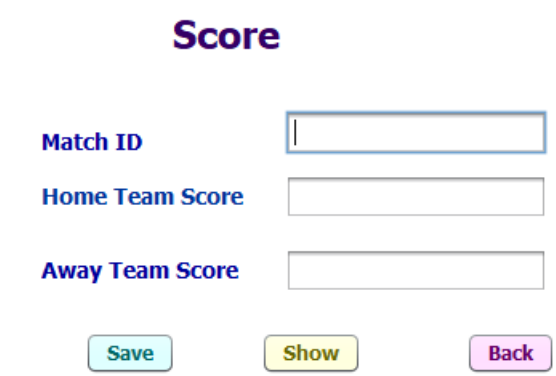

Image 05:Score Table

Image 06 : Venue Table

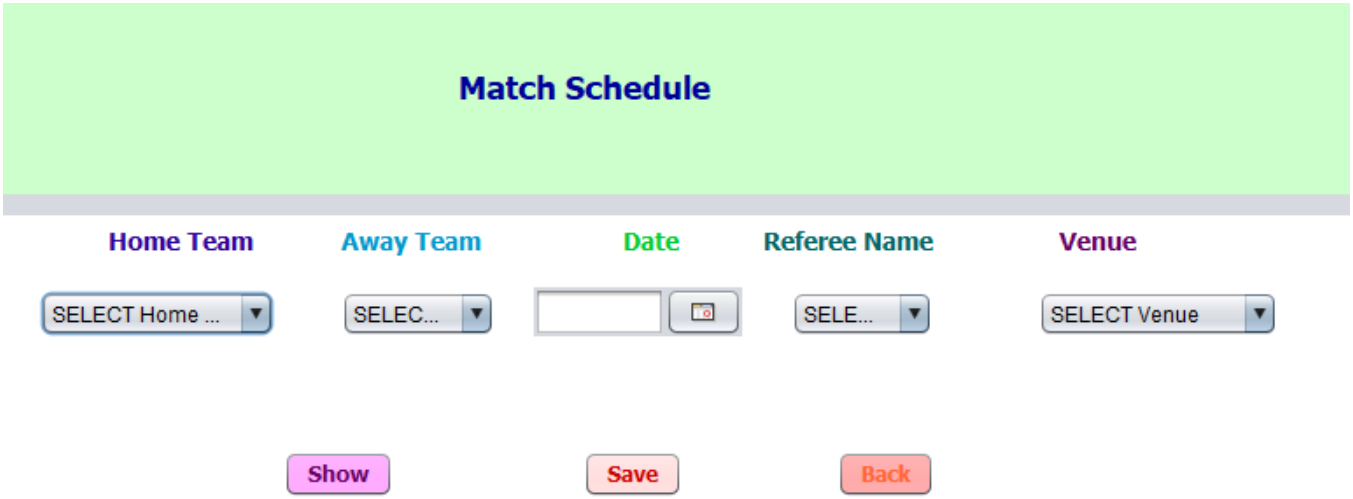

Image 07: Match Schedule

Image 08: Match Table All Schedule