School of Computer Science and Engineering

CSE2004 – Database Management System

Fall Sem 2019-2020

Project

Review 3

Submitted by:

Kushagra Singh – 18BCE0017

Adhil Mohammed – 18BCE0056

Abstract

Topic: Database for Football Clubs

The real-world application of the following Database Management System project is the database of football players and clubs. The database is prepared to store the data of different football players and coaches, the information of various football clubs along with the details of different matches and tournaments that the players and the clubs are participating in. Entities are created for each of the above-mentioned data to store the information we have in a systematic way so that the data can be accessed at any time in an efficient manner. The Entity-Relationship model that has been prepared consists of the entities along with the relationships between different entities.

The prepared ER model will then be converted to a relational schema diagram. Further, various operations like retrieval, insertion, deletion and updation will be performed by a front-end program with the help of an ODBC driver.

Database Requirements

The following are the requirements of the database application:

1. The database keeps track of the player details like Name, Age, Salary, position they play in, the club they belong to, etc.
2. We can get information on a particular football club like the club owner, club name, value, etc.
3. It also stores the details of different coaches i.e. their name, the position they play in, their salary, etc.
4. The date, location, the opponent, result and the tournament in which a football match is being played is stored in the database.
5. We can retrieve information regarding which player belongs to which club, or what all players are playing for a particular club.
6. The information of the sponsors sponsoring different clubs can be found out from the database.
7. If we want to know the names of players that are being coached by a particular coach, we can retrieve that information.
8. We can keep track of players leaving and joining a club during transfers.
9. We can keep track of the finances of a club.
10. We can find out which clubs are taking part in a tournament and what all clubs they have their matches against.

ER DIAGRAM
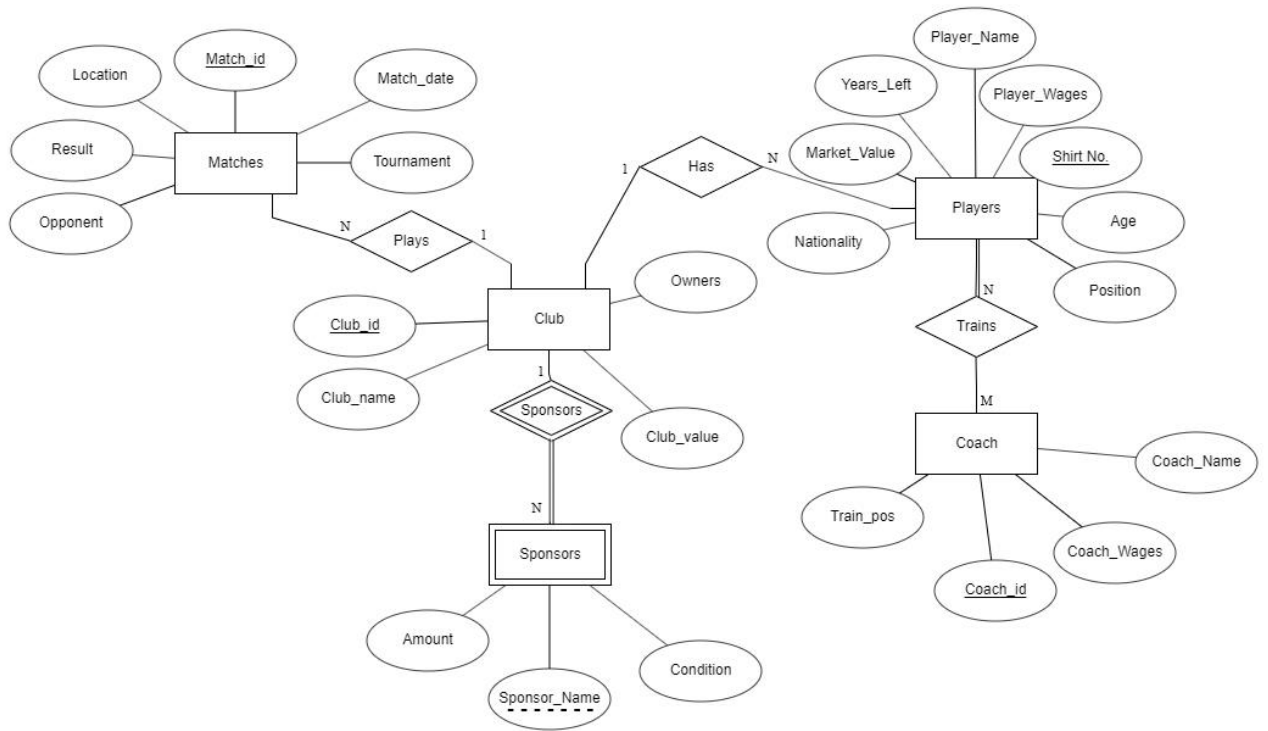
Schema Diagram

Club

Club_id	Club_name	Owners	Club_value

Players

Player_Name	Age	Position	Nationality	Shirt_no	Market_Value	Club_Id	Player_wages	Years_left

Coach

Coach_id	Train_pos	Coach_name	Coach_wages

Matches

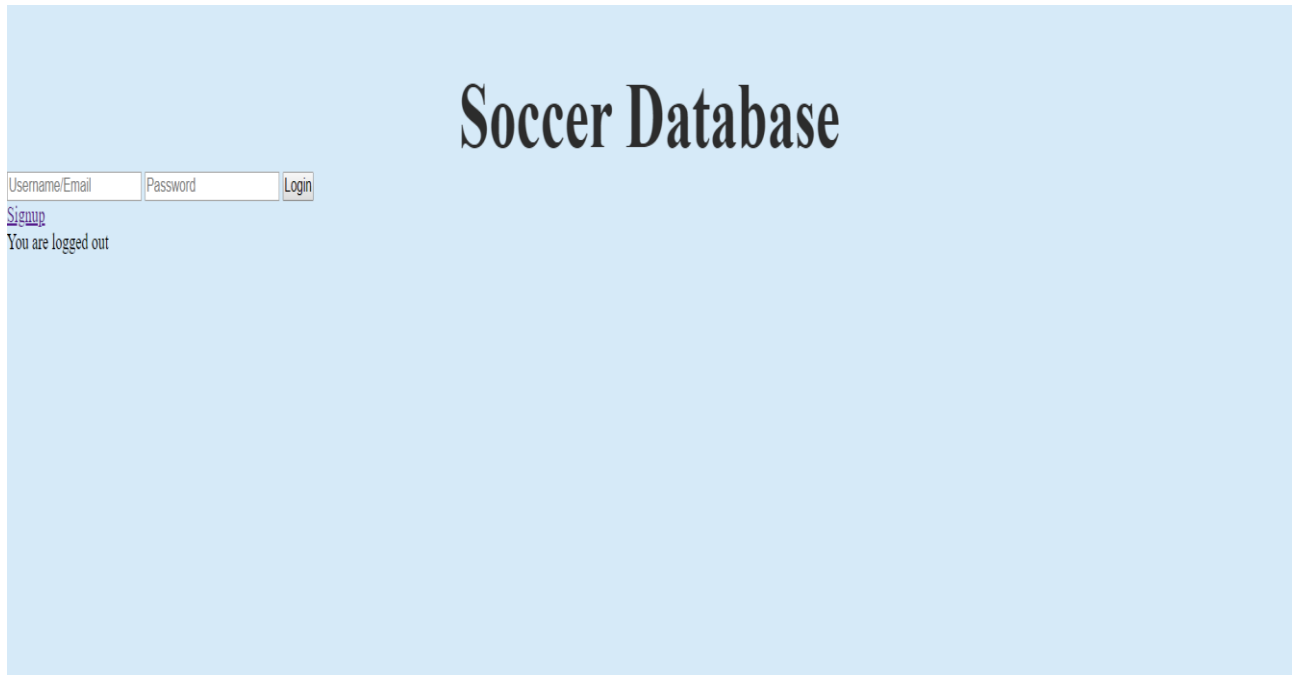| Match_id	Club_id	Opponent	Match_date	Location	Tournament	Result

Sponsors

Sponsor_name	Club_id	Amount	Condition

Trains
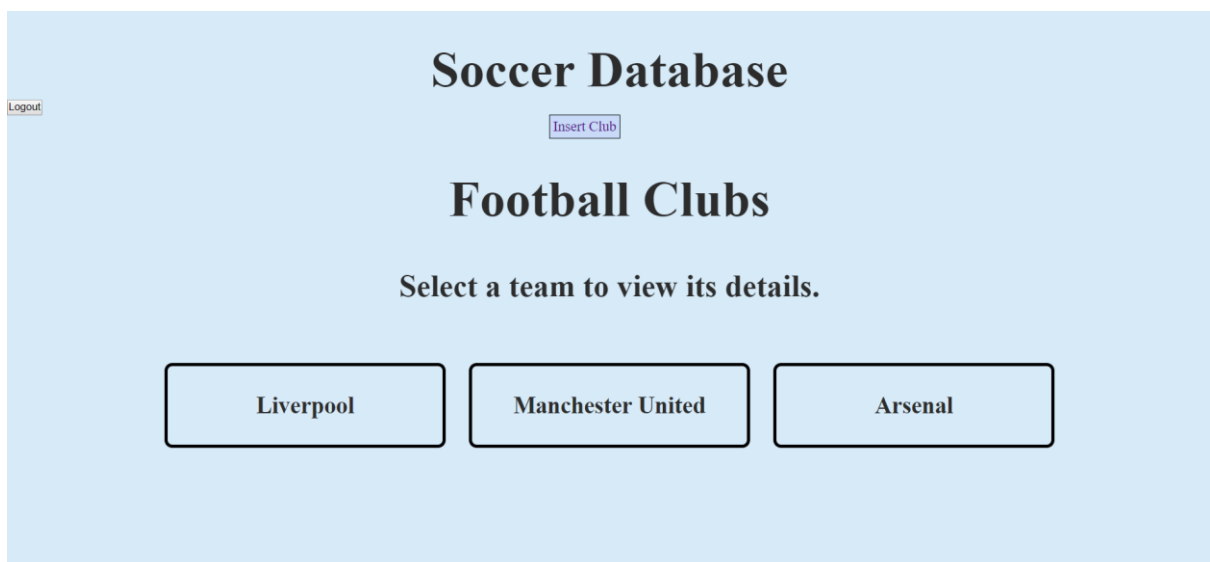
Coach_id	Shirt_no

Front end screenshots

Login page

Soccer Database

Update Club
Delete Club

Club

Club ID	Club Name	Owners	Club Value
1	Liverpool	Fenway Sports	900000

Insert players
Update players
Delete players

Players

Club ID	Player Name	Age	Position	Nationality	Shirt No.	Market Value	Player Wages	Years Left
1	Tom	21	Forward	France	9	50000	5000	2
1	Salah	26	Forward	Egypt	10	50000	8000	3
1	Mane	27	Winger	Senegal	23	43000	1000	1

Insert matches
Delete matches
Update matches

Matches

Match ID	Home Team ID	Away Team ID	Location	Match Date	Tournament	Result
1	1	3	Anfield	2019-11-02	Premier League	TBD
2	4	1	Emirates	2019-10-09	Premier League	2-1

Insert sponsors
Update sponsors
Delete sponsors

Sponsors

Club ID	Sponsor Name	Amount	Condition
1	Adidas	40000	Top 4

Insert trainers
Update trainers

Trains

Coach ID	Shirt No.
1	9
2	9

Insert coach
Update coach
Delete coach

Coach

Coach ID	Coach Name	Training Position	Coach Wages
1	Sam	Midfield	2000
2	John	Forward	1000

CODE:

DATABASE CONNECTION:

```php
<?php
$servername="localhost:3308";
$dBUsername="root";
$dBPassword="";
$dBName="football";
$conn= mysqli_connect($servername, $dBUsername, $dBPassword, $dBName);
if(!$conn)
{
    die("Connection failed:".mysqli_connect_error());
}
```

LOGIN:

```php
<?php
if(isset($_POST['login-submit']))
{
    require 'dbh.inc.php';
    $mailuid= $_POST['mailuid'];
    $password= $_POST['pwd'];

    $sql= "SELECT * FROM users WHERE username=? OR email=?;";
    $stmt=mysqli_stmt_init($conn);
    if(!mysqli_stmt_prepare($stmt,$sql))
    {
        header("Location: ../index.php?error=sqlerror");
        exit();
    }
    else
    {
        mysqli_stmt_bind_param($stmt,"ss",$mailuid,$mailuid);
        mysqli_stmt_execute($stmt);
        $result=mysqli_stmt_get_result($stmt);
```

```php
    if($row=mysqli_fetch_assoc($result))
    {

        $pwdCheck= password_verify($password,$row['pwd']);
        if($pwdCheck==false)
        {
            header("Location: ../index.php?error=wrongpwd");
            exit();
        }
        else if($pwdCheck==true)
        {

            session_start();
            $_SESSION['userId']=$row['userid'];
            $_SESSION['userName']=$row['username'];
            header("Location: ../index.php?login=success");
            exit();
        }
        else
        {

            header("Location: ../index.php?error=wrongpwd");
            exit();
        }
    }
    else
    {

        header("Location: ../index.php?error=nouser");
        exit();
    }
    }
}
else
{

    header("Location: ../index.php");
```

```php
    exit();
}
```

LOGOUT:

```php
<?php
    session_start();
    session_unset();
    session_destroy();
    header("Location:../index.php");
```

CLUB INSERTION:

```php
<?php
if(isset($_POST['clubin-submit']))
{
    require 'dbh.inc.php';
    $club_name=$_POST['clubname'];
    $owners=$_POST['owner'];
    $club_value=$_POST['clubvalue'];


    $sql= "SELECT club_name from club where club_name=?";
    $stmt=mysqli_stmt_init($conn);
    if(!mysqli_stmt_prepare($stmt,$sql))
    {
        header("Location: ../clubin.html?error=sqlerror");
        exit();
    }
    else
    {
        mysqli_stmt_bind_param($stmt,"s",$club_name);
        mysqli_stmt_execute($stmt);
        mysqli_stmt_store_result($stmt);
        $resultCheck=mysqli_stmt_num_rows($stmt);
        if($resultCheck>0)
        {
```

```php
        header("Location: ../clubin.html?error=usertaken&mail=".$owners);

        exit();

      }

    else

    {

      $sql="INSERT INTO club(club_name,owners,club_value) values(?,?,?)";

      $stmt = mysqli_stmt_init($conn);

      if(!mysqli_stmt_prepare($stmt,$sql))

      {

        header("Location: ../clubin.html?error=sqlerror");

        exit();

      }

      else

      {

        mysqli_stmt_bind_param($stmt,"sss",$club_name,$owners,$club_value);

        mysqli_stmt_execute($stmt);

        header("Location: ../clubin.html?insertion=success");

        exit();

      }

    }

  }

  mysqli_stmt_close($stmt);

  mysqli_close($conn);

}

else

{

  header("Location: ../clubin.html");

  exit();


}
```

CLUB DELETION:

```php
<?php
```

```php
require 'dbh.inc.php';


if(isset($_POST['submit']))
{

 $club_name = $_POST['club'];


 }
 $sql = "DELETE FROM club WHERE club_name='$club_name'";


 if (mysqli_query($conn, $sql)) {

    echo "Record deleted successfully";

 } else {

    echo "Error deleting record: " . mysqli_error($conn);

 }
```

CLUB UPDATION:

```php
<?php
 require 'dbh.inc.php';


 if(isset($_POST['submit'])){//if the submit button is clicked


  $clubid = $_POST['clubid'];


  $clubname = $_POST['clubname'];


  $clubowner = $_POST['owners'];


  $clubvalue = $_POST['clubvalue'];


 }


  $sql="UPDATE club SET club_name='$clubname',owners='$clubowner',
club_value='$clubvalue' WHERE clubid=$clubid";
```

```php
    $result = mysqli_query($conn,$sql );
    header("Location: ../clubupdate.html");
?>
```

DISPLAY OF ALL TABLES:

```php
<?php
    require 'header.php';


?>
```

```html
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <link rel="stylesheet" href="stylesheet.css">
    <title>DBMS Project</title>
    <style media="screen">
body {
  width: 95%;
  font-family: mons, sans-serif;
}
  table {
    width: 1000px;
    margin: 40px auto;
    border-collapse: collapse;
    border: 2px black solid;
    text-align: center;
    height: 80px;
    font-size: 18px;
  }
  h3 {
    text-align: center;
```

```css
  font-size: 25px;

  line-height: 50px;

  margin-bottom: 20px;

}

a {

  border-style: solid;

border-width : 1px 1px 1px 1px;

text-decoration : none;

padding : 4px;

border-color : #000000;

margin-left: 0;

margin-right:0;

margin: 0 45%;

  text-align: center;

  font-size: 18px;

  text-decoration: none;

  line-height: 30px;

  background: #00f2;

}
</style>
</head>
```

```php
<body>
 <?php
 require 'includes/dbh.inc.php';

 echo '<a href="clubupdate.html">Update Club   </a>';
 echo '<a href="clubdelete.php">Delete Club   </a>';
 $sql = "SELECT * FROM club where clubid=".$_GET['clubid'];
 $result = mysqli_query($conn,$sql);
 echo "<h3>Club</h3>
 <table border='1'>
 <tr>
```

```php
<th>Club ID</th>
<th>Club Name</th>
<th>Owners</th>
<th>Club Value</th>
</tr>";

while($row = mysqli_fetch_array($result))
{
  echo "<tr>";
  echo "<td>" . $row['clubid'] . "</td>";
  echo "<td>" . $row['club_name'] . "</td>";
  echo "<td>" . $row['owners'] . "</td>";
  echo "<td>" . $row['club_value'] . "</td>";
  echo "</tr>";
}
echo "</table>";

//Select from Players
echo '<a href="playersin.html">Insert players  </a>';
echo '<a href="playersupdate.html">Update players  </a>';
echo '<a href="playersdelete.php">Delete players   </a>';
$sql = "SELECT * FROM players where club_id=".$_GET['clubid'];
$result = mysqli_query($conn,$sql);

echo "<h3>Players</h3>
<table border='1'>
<tr>
<th>Club ID</th>
<th>Player Name</th>
<th>Age</th>
<th>Position</th>
<th>Nationality</th>
```

```php
<th>Shirt No.</th>
<th>Market Value</th>
<th>Player Wages</th>
<th>Years Left</th>
</tr>";

while($row = mysqli_fetch_array($result))
{
  echo "<tr>";
  echo "<td>" . $row['club_id'] . "</td>";
  echo "<td>" . $row['player_name'] . "</td>";
  echo "<td>" . $row['age'] . "</td>";
  echo "<td>" . $row['position'] . "</td>";
  echo "<td>" . $row['nationality'] . "</td>";
  echo "<td>" . $row['shirt_no'] . "</td>";
  echo "<td>" . $row['market_value'] . "</td>";
  echo "<td>" . $row['player_wages'] . "</td>";
  echo "<td>" . $row['years_left'] . "</td>";
  echo "</tr>";
}
echo "</table>";

//Select from MATCHES
echo '<a href="matchin.php">Insert matches   </a>';
echo '<a href="matchdelete.php">Delete matches   </a>';
echo '<a href="matchesupdate.html">Update matches   </a>';
$clubid=$_GET['clubid'];
$sql = "SELECT * FROM matches where home_id='$clubid' or away_id='$clubid'";
$result = mysqli_query($conn,$sql);

echo "<h3>Matches</h3>
<table border='1'>
```

```php
<tr>
<th>Match ID</th>
<th>Home Team ID</th>
<th>Away Team ID</th>
<th>Location</th>
<th>Match Date</th>
<th>Tournament</th>
<th>Result</th>
</tr>";

while($row = mysqli_fetch_array($result))
{
  echo "<tr>";
  echo "<td>" . $row['match_id'] . "</td>";
  echo "<td>" . $row['home_id'] . "</td>";
  echo "<td>" . $row['away_id'] . "</td>";
  echo "<td>" . $row['locations'] . "</td>";
  echo "<td>" . $row['match_date'] . "</td>";
  echo "<td>" . $row['tournament'] . "</td>";
  echo "<td>" . $row['result'] . "</td>";
  echo "</tr>";
}
echo "</table>";

//Select from SPONSORS
echo '<a href="sponsorsin.php">Insert sponsors   </a>';
echo '<a href="sponsorsupdate.html">Update sponsors  </a>';
echo '<a href="sponsorsdelete.php">Delete sponsors  </a>';
$sql = "SELECT * FROM sponsors where club_id=".$_GET['clubid'];
$result = mysqli_query($conn,$sql);

echo "<h3>Sponsors</h3>
```

```php
<table border='1'>
<tr>
<th>Club ID</th>
<th>Sponsor Name</th>
<th>Amount</th>
<th>Condition</th>
</tr>";

while($row = mysqli_fetch_array($result))
{
  echo "<tr>";
  echo "<td>" . $row['club_id'] . "</td>";
  echo "<td>" . $row['sponsor_name'] . "</td>";
  echo "<td>" . $row['amount'] . "</td>";
  echo "<td>" . $row['cond'] . "</td>";
  echo "</tr>";
}
echo "</table>";

//Select from TRAINS
echo '<a href="trainsin.php">Insert trainers </a>';
echo '<a href="trainsupdate.html">Update trainers </a>';
$arr="SELECT shirt_no FROM players where club_id=".$_GET['clubid'];
$arr1=mysqli_query($conn,$arr);
$resultcheck=mysqli_num_rows($arr1);
if($resultcheck>0)
{
$arr2=mysqli_fetch_array($arr1);
$sql = "SELECT * FROM trains where shirt_no IN (".implode(',',$arr2).")";
$result = mysqli_query($conn,$sql);
}
```

```php
echo "<h3>Trains</h3>
<table border='1'>
<tr>
<th>Coach ID</th>
<th>Shirt No.</th>
</tr>";

while($row = mysqli_fetch_array($result))
{
  echo "<tr>";
  echo "<td>" . $row['coach_id'] . "</td>";
  echo "<td>" . $row['shirt_no'] . "</td>";
  echo "</tr>";
}
echo "</table>";

//Select from COACH
echo '<a href="coachin.php">Insert coach  </a>';
echo '<a href="coachupdate.html">Update coach  </a>';
echo '<a href="coachdelete.php">Delete coach  </a>';
$sql = "SELECT * FROM coach where club_id=".$_GET['clubid'];
$result = mysqli_query($conn,$sql);

echo "<h3>Coach</h3>
<table border='1'>
<tr>
<th>Coach ID</th>
<th>Coach Name</th>
<th>Training Position</th>
<th>Coach Wages</th>
</tr>";
```

```php
    while($row = mysqli_fetch_array($result))
    {
     echo "<tr>";
     echo "<td>" . $row['coach_id'] . "</td>";
     echo "<td>" . $row['coach_name'] . "</td>";
     echo "<td>" . $row['train_pos'] . "</td>";
     echo "<td>" . $row['coach_wages'] . "</td>";
     echo "</tr>";
    }
    echo "</table>";
    ?>
  </body>
</html>
```

DISPLAY OF CLUBS

```php
<?php
   require 'header.php';


?>
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
   <meta charset="utf-8">
   <title>DBMS Project</title>
   <link rel="stylesheet" href="stylesheet.css">
   <style>
   .main {
   border-style: solid;
  border-width : 1px 1px 1px 1px;
  text-decoration : none;
  padding : 4px;
  border-color : #000000;
  margin-left: 0;
```

```
     margin-right:0;

   margin: 0 45%;

     text-align: center;

     font-size: 18px;

     text-decoration: none;

     line-height: 30px;

     background: #00f1;

   }

 </style>

 </head>

 <body>

   <?php echo '<a class="main" href="clubin.html">Insert Club </a>';?>

   <h1>Football Clubs</h1>

   <h2>Select a team to view its details.</h2>


   <div class="flex-container">

     <?php

       require 'includes/dbh.inc.php';

       $sql="SELECT * from club;";

       $result= mysqli_query($conn,$sql);

       $resultcheck=mysqli_num_rows($result);

       if($resultcheck>0)

       {

         while($row=mysqli_fetch_assoc($result))

         {

           echo '<div class="box"><a
href="players.php?clubid='.$row["clubid"].'">'.$row["club_name"].'</a></div>';

         }

       }

     ?>

   </div>

 </body>
```

</html>