Ahsanullah University of Science & Technology
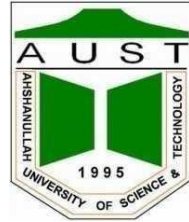Department of Computer Science & Engineering

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Soccer Club Management System

CSE 3104: Project Report

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1. Summary

Our project titled Soccer Club Management System is a desktop Application where all statistical and financial information of a club will be stored. A club need to record all statistical performances of players, coaches and all staffs for better performance in the future. There are many Soccer club in our society. Normally they maintain their club's statistical information without any proper database management system.
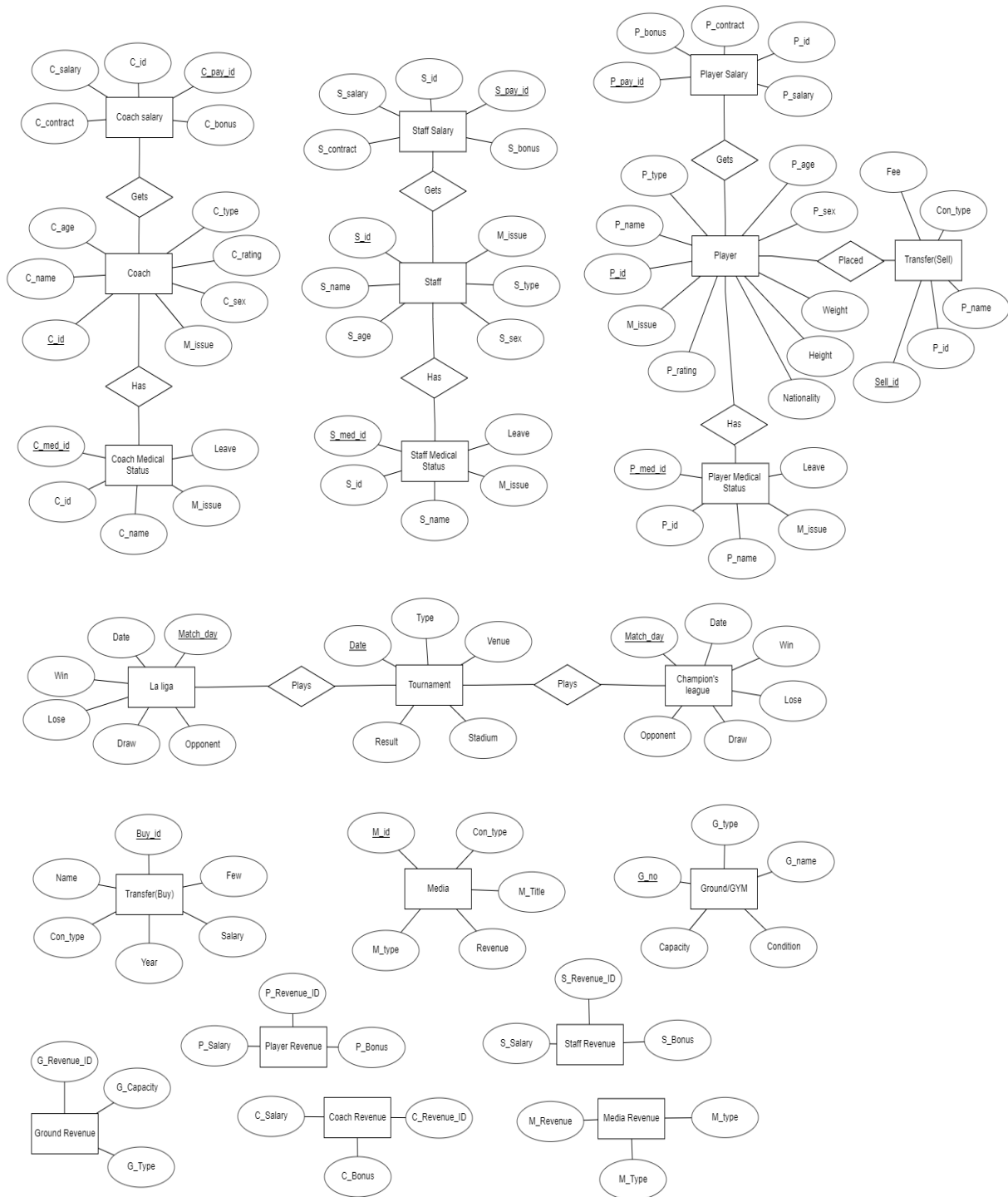
We plan to develop a desktop application enabled with Microsoft SQL Server where they can store, manage, and access all of their important data and information easily.

2. Target vs. Actual Accomplishments

The club Administrators will manage and track the club player's state, coaching state, financial conditions, player's transfer window etc. This is basically a Soccer club management software where all information of players, coaches and staffs will be stored. This application will record the all performing statistics of players and by that statistics coaches can guide players where they need to improve themselves. Coaches performance will also be recorded for the improvement of the club. . This Application also stores health condition of players, coaches, and staffs.

By using this software, a soccer club also can handle financial matters of a club. Here we will store monthly/annual salaries and bonuses of every player and coach and also how many revenue club incomes.

3. ERD

Coach salary
- C_salary
- C_id
- C_pay_id
- C_contract
- C_bonus

Gets

Coach
- C_age
- C_type
- C_rating
- C_name
- C_sex
- C_id
- M_issue

Has

Coach Medical Status
- C_med_id
- Leave
- C_id
- M_issue
- C_name

Staff Salary
- S_salary
- S_id
- S_pay_id
- S_contract
- S_bonus

Gets

Staff
- S_id
- M_issue
- S_name
- S_type
- S_age
- S_sex

Has

Staff Medical Status
- S_med_id
- Leave
- S_id
- M_issue
- S_name

Player Salary
- P_bonus
- P_contract
- P_id
- P_pay_id
- P_salary

Gets

Player
- P_type
- P_age
- P_name
- P_sex
- P_id
- M_issue
- Weight
- P_rating
- Height
- Nationality

Placed — **Transfer(Sell)**
- Fee
- Con_type
- P_name
- P_id
- Sell_id

Has

Player Medical Status
- P_med_id
- Leave
- P_id
- M_issue
- P_name

La liga
- Date
- Match_day
- Win
- Lose
- Draw
- Opponent

Plays

Tournament
- Type
- Date
- Venue
- Result
- Stadium

Plays

Champion's league
- Match_day
- Date
- Win
- Lose
- Opponent
- Draw

Transfer(Buy)
- Buy_id
- Name
- Few
- Con_type
- Salary
- Year

Media
- M_id
- Con_type
- M_Title
- M_type
- Revenue

Ground/GYM
- G_type
- G_name
- G_no
- Capacity
- Condition

Ground Revenue
- G_Revenue_ID
- G_Capacity
- G_Type

Player Revenue
- P_Revenue_ID
- P_Salary
- P_Bonus

Staff Revenue
- S_Revenue_ID
- S_Salary
- S_Bonus

Coach Revenue
- C_Salary
- C_Revenue_ID
- C_Bonus

Media Revenue
- M_Revenue
- M_type
- M_Type

4. Advanced Queries

1. "select P_PAY_ID,P_salary,leaving_date,P_bonus from Player right join [Player Salary] on Player.P_ID = [Player Salary].P_ID where Player.P_ID = " + value;

2. "select Top 1 Tournament.Match_Date,[Champions league].Match_Opponent,MIN (DATEDIFF(DD,GETDATE(),Tournament.Match_Date)) as DDays from Tournament Inner join [Champions league] on Tournament.Match_Date = [Champions league].Match_Date where GETDATE() <= Tournament.Match_Date group by Tournament.Match_Date,[Champions league].Match_Opponent order by DDays";

3. "select G_Capacity*.80*150*19 FROM \"Ground & Gym\" INNER JOIN \"Ground REVENUE\" ON \"Ground & Gym\".G_No = \"Ground REVENUE\".G_No where G_Type ='Home'";

4. "select Match_Opponent,(select Cast(Cast((Win/(win+loss+draw))*100 as \n" +

"decimal(18,2)) as varchar(50)) + ' %' as Percentage)\n" +

"from Tournament \n" +

"inner join [La Liga] on [La Liga].Match_Date = Tournament.Match_Date where Tournament.Match_Date = " + "'" + value +"'";

5. "insert into [Transfer Sell] (P_ID,P_NAME) select P_ID,P_NAME from Player where P_ID = " + value;

6. "select PLAYER_REVENUE_ID, P_SALARY,P_BONUS FROM \"PLAYER SALARY\" INNER JOIN \"PLAYER REVENUE\" ON \"PLAYER SALARY\".P_PAY_ID = \"PLAYER REVENUE\".P_PAY_ID";

7. "insert into [Player Revenue] ([P_PAY_ID]) select [P_PAY_ID] from [Player Salary] where P_ID = " +value;

8. "select P_MED_ID,LEAVE,M_Description,injured_date from Player right join [Player Medical Status] on Player.P_ID = [Player Medical Status].P_ID where Player.P_ID = " + value;

9. "select count(Result) from [Champions league]\n"

+ "inner join Tournament on Tournament.Match_Date=[Champions league].Match_Date \n"

+ "where Tournament.Match_date between '" + v1 + "' and '" + v2 + "'";

10. "Delete from [Player Revenue] where P_Pay_ID IN\n"

+ " (Select P_Pay_ID from [Player Salary] inner join Player\n"

+ " on Player.p_id=[Player Salary].P_ID where player.P_ID = " + value + ")";