CPSC 304 Project Cover Page

Milestone #: 3

Date: March 13, 2023

Group Number: 91

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia.

Readme

A brief (~2-3 sentences) summary of your project. Many of your TAs are managing multiple projects so this will help them remember details about your project. You can reuse the summary from milestone 2.

- Our project is a soccer league management database. You are able to query for teams and the games they will be playing, the players on teams, and injuries sustained by players, etc.

Entities to implement:

- Game(<u>gameID</u>: integer, gameDate: date, homeScore: integer, awayScore: integer)
- Team(<u>teamID</u>: integer, **stadiumID**: integer, teamName: varchar[30], city: varchar[85], ranking: integer)
- HomeStadium(<u>stadiumID</u>: integer, stadName: varchar[20], capacity: integer)
- Sponsor(<u>sponsorName</u>: varchar[30], fee: integer, **teamID**: integer)
- Referee(<u>refereeID</u>: integer, refName: varchar[30])
- Staff(<u>memberID</u>: integer, staffName: varchar[30], staffSalary: integer, role: varchar[20], **teamID**: integer)
- Player(<u>memberID</u>: integer, playerName: varchar[30], playerSalary: integer, position: varchar[20], goalNum: integer, number: integer, **teamID**: integer)
- InjuryReport(<u>injID</u>: integer, **memberID**: integer, injType: varchar[50], date: date)
- MedicalStaff(<u>mstaffID</u>: integer, mstaffName: varchar[20], mstaffRole: varchar[20])
- Employs(**<u>gameID</u>**: integer, **<u>refereeID</u>**: integer)
- Plays(**<u>gameID</u>**: integer, **<u>teamID1</u>**: integer, **<u>teamID2</u>**: integer)
- Receives(**<u>mstaffID</u>**: integer, **<u>memberID</u>**: integer, **<u>injID</u>**: integer)
- PlaysIn(**<u>gameID</u>**: integer, **<u>stadiumID</u>**: integer)

Description of challenges/things left to do:

The entity sets assigned are relatives isolated in function. However, since some databases that have functional dependencies will be worked on simultaneously, it is important to standardize the naming schema so other students can properly reference other entities.

We have assigned each person to work on creating the back end for 4-5 entity sets, with the division being grouped into three parts (**Game Relations**(Team,Game,Referee,Employs,Plays),**Member Relations**(Player,Injury Report,Medical Report,Receives),**Stadium Relations**(Home Stadium,Sponsor,Staff,PlaysIn))

Each group member is responsible for the backend and frontend for their attributed part. Although the relations of the backend are all linked, the frontend can be merged after the individual parts are done through hyperlinks etc. (We will be regularly communicating with each other about our individual process).

Initially only INSERT,DELETE,UPDATE,SELECTION queries will be implemented as those are basic operations needed to maintain a database. The rest of the queries (PROJECTION,JOIN,AGGREGATION WITH GROUP BY,AGGREGATION WITH HAVING,NESTED AGGREGATION WITH GROUP BY,DIVISION) will be worked on for selected few entities such as Game,Player, as those queries make more sense for the functionality of those entities.

Timeline (March 15 - April 5):

March 15

- Suyeon:
    - SQL script to create all the tables and data in the database relating to **Game Relations**
- Sunny:
    - SQL script to create all the tables and data in the database relating to **Stadium Relations**
- Ryoh:
    - SQL script to create all the tables and data in the database relating to **Member Relations**
- Will be worked on a shared document so all members will have the same tables when working on the backend

Suyeon:

- By March 18:
    - Create a table for Game and Referee entity sets in Oracle database.
    - Implement INSERT, DELETE, UPDATE, SELECTION for Game and Referee.
    - Create front end for queries above.
- By March 22:
    - Create a table for Team entity set in Oracle database.
    - Implement INSERT, DELETE, UPDATE, SELECTION for Team.
    - Create front end for queries above.
- By March 26:
    - Create a table for Employs entity set in Oracle database.
    - Implement INSERT, DELETE, UPDATE, SELECTION for Employs.
    - Create front end for queries above.
- By March 30:
    - Create a table for Plays entity set in Oracle database.
    - Implement INSERT, DELETE, UPDATE, SELECTION for Plays.
    - Create front end for queries above.

Sunny:

- March 16 - March 20
  - Create a table for Home Stadium entity sets in Oracle database.
  - Implement INSERT,DELETE,UPDATE,SELECTION for Home Stadium
  - Create front end that allows for queries
- By March 24:
  - Create a table for Sponsor entity set in Oracle database.
  - Implement INSERT, DELETE, UPDATE, SELECTION for Sponsor.
  - Create front end for queries above.
- By March 27:
  - Create a table for Staff entity set in Oracle database.
  - Implement INSERT, DELETE, UPDATE, SELECTION for Staff.
  - Create front end for queries above.
- By March 30:
  - Create a table for PlaysIn entity set in Oracle database.
  - Implement INSERT, DELETE, UPDATE, SELECTION for PlaysIn.
  - Create front end for queries above.

Ryoh:

- By March 20
  - Create a table for Player entity sets in Oracle database.
  - Implement INSERT, DELETE, UPDATE, SELECTION for Game and Referee.
  - Create front end for queries above.
- By March :
  - Create a table for Injury Report Entity set in Oracle database.
  - Implement INSERT, DELETE, UPDATE, SELECTION for Team.
  - Create front end for queries above.
- By March 27:
  - Create a table for Medical Staff entity set in Oracle database.
  - Implement INSERT, DELETE, UPDATE, SELECTION for Employs.
  - Create front end for queries above.
- By March 30:
  - Create a table for Recieves entity set in Oracle database.
  - Implement INSERT, DELETE, UPDATE, SELECTION for Plays.

April 1 - April 4

- Suyeon: PROJECTION,JOIN
- Sunny: AGGREGATION WITH GROUP BY,AGGREGATION WITH HAVING
- Ryoh: NESTED AGGREGATION WITH GROUP BY,DIVISION

April 5

- Testing implementation
- Screenshot working queries and compile deliverables for Milestone 4
- Submit