University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: 4

Date: Dec. 1st, 2023

Group Number: 152

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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

Repository:

a) Description of the final project:
The project involves developing a Sports Entertainment Information System catering to sports enthusiasts seeking information on specific teams, players, and leagues. The system aims to provide an accessible and user-friendly platform for accessing dynamic sports data, focusing on a limited number of leagues and relevant team information. It serves as a valuable resource for fans and sports analysts, enabling them to track team and player performances, compare achievements, and stay updated on the evolving landscape of sports entertainment. Timeline.

b) how the final schema differs:
- We added picture attributes to sports, leagues, sportsPeople, and players.
- Added link to news_1
- Moved homeTeam, away team attributes to play.

c) relational schema:
      Sports(SportName: char, Popularity: int, picture: char)

Leagues(LeagueName: char, Country: char, StartDate: char, EndDate: char, **SportName: Char,** picture: char)

News_1(title: char, Author: char, PublishingDate: char, link: char)
News_2(title: char, **Author: char, Publisher: char**)

Teams(TeamName: char, city: char, **LeagueName: Char,** picture: char)

Matches(MatchDate: char, Result: char, Score: char, Stadium: char, HomeTeam: char, AwayTeam: char, **LeagueName: char**)

      Matches_1(stadium: char, MatchDate: char, **LeagueName: Char**)

      Matches_2(MatchDate: char, Result: char, score: char, stadium: char, LeagueName: char)

Sponsors(SponsorName: char, startDate: char, endDate: char)

SponsoredBy(<u>**TeamName: char**</u>, <u>**SponsorName: char**</u>)

TeamStatistics(MatchDrew: int, AverageScored: double, MatchesWon: int, MatchesLost: int, AverageScoredAgainst: double, CurrentTableRanking: int, <u>year: int</u>, <u>**TeamName: char**</u>)

SportPeople(<u>Nationality: char</u>, <u>Name_: char</u>, Age: int, <u>TeamName: char,</u> birthdate: char)

Coaches(NumberOfSeasons: int, <u>**Name_: char**</u>, TeamName: char, <u>**birthDate: char,**</u> <u>**nationality: char**</u>)

Players(position: char, kitNum: int, <u>**Name_: char**</u>, <u>**teamtName: char,**</u> <u>**Nationality:**</u> <u>**char,**</u> <u>**Birthdate: char**</u>)

PlayerStatistics(Wins: int, <u>year: int</u>, Losses: int, AverageRating: double, Appearances: double, <u>**Name: char**</u>, <u>**SportName: char**</u>)

Covers(<u>LeagueName: char,</u> <u>**NewsTitle: char,**</u> <u>**NewsAuthor: char**</u>)

Play(<u>**MatchDate: char**</u>, <u>**Stadium: char**</u>, <u>**TeamName: char, awayTeam: char**</u>)

Screenshots of tables from myspl:
sports:

```
SQL> describe sports
 Name                                           Null?     Type
 ----------------------------------------- -------- ----------------------------
 SPORTNAME                                  NOT NULL CHAR(20)
 POPULARITY                                          NUMBER(38)
 PICTURE                                             CHAR(200)
```

Leagues:

```
 SQL> describe leagues
  Name                                          Null?     Type
  ---------------------------------------- -------- ----------------------------
  LEAGUENAME                                NOT NULL VARCHAR2(40)
  COUNTRY                                            VARCHAR2(40)
  STARTDATE                                          CHAR(15)
  ENDDATE                                            CHAR(15)
  PICTURE                                            CHAR(200)
  SPORTNAME                                 NOT NULL CHAR(20)
```

News_1:

```
SQL> describe news_1
 Name                                         Null?     Type
 -------------------------------------------- --------- ----------------------------
 TITLE                                        NOT NULL  VARCHAR2(300)
 AUTHOR                                       NOT NULL  VARCHAR2(30)
 PUBLISHINGDATE                                         DATE
 LINK                                                   VARCHAR2(300)
```

News_2:

```
SQL> describe news_2
 Name                                         Null?     Type
 -------------------------------------------- --------- ----------------------------
 TITLE                                                  VARCHAR2(300)
 AUTHOR                                       NOT NULL  VARCHAR2(30)
 PUBLISHER                                              VARCHAR2(35)
```

teams:

```
SQL> describe teams
 Name                                         Null?     Type
 -------------------------------------------- --------- ----------------------------
 TEAMNAME                                     NOT NULL  VARCHAR2(30)
 CITY                                                   VARCHAR2(40)
 LEAGUENAME                                             VARCHAR2(40)
 PICTURE                                                CHAR(200)
```

Matches_1:

```
SQL> describe teams
 Name                                         Null?     Type
 -------------------------------------------- --------- ----------------------------
 TEAMNAME                                     NOT NULL  VARCHAR2(30)
 CITY                                                   VARCHAR2(40)
 LEAGUENAME                                             VARCHAR2(40)
 PICTURE                                                CHAR(200)
```

Matches_2:

```
SQL> describe matches_2
 Name                                         Null?     Type
 -------------------------------------------- --------- ----------------------------
 STADIUM                                      NOT NULL  VARCHAR2(40)
 MATCHDATE                                    NOT NULL  CHAR(10)
 LEAGUENAME                                             VARCHAR2(40)
 RESULT                                                 CHAR(30)
 SCORE                                                  CHAR(15)
```

sponsors:

```
SQL> describe sponsors
 Name                                         Null?     Type
 -------------------------------------------- --------- ----------------------------
 SPONSORNAME                                  NOT NULL  VARCHAR2(30)
 STARTDATE                                              DATE
 ENDDATE                                                DATE
```

teamStatistics:

```
SQL> describe teamStats
Name                                          Null?      Type
--------------------------------------------- ---------- -------------------------------
MATCHESDREW                                              NUMBER(38)
MATCHESWON                                               NUMBER(38)
MATCHESLOST                                              NUMBER(38)
AVERAGESCORED                                            FLOAT(126)
AVERAGESCOREDAGAINST                                     FLOAT(126)
CURRENTTABLERANKING                                      NUMBER(38)
YEAR_                                         NOT NULL   NUMBER(38)
TEAMNAME                                      NOT NULL   VARCHAR2(30)
```

sportPeople:

```
SQL> describe sportPeople
Name                                          Null?      Type
--------------------------------------------- ---------- -------------------------------
NATIONALITY                                   NOT NULL   CHAR(20)
NAME_                                         NOT NULL   VARCHAR2(30)
BIRTHDATE                                     NOT NULL   CHAR(10)
TEAMNAME                                                 VARCHAR2(30)
PICTURE                                                  CHAR(200)
```

Coaches:

```
SQL> describe coaches
Name                                          Null?      Type
--------------------------------------------- ---------- -------------------------------
NUMOFSEASONS                                             NUMBER(38)
NAME_                                         NOT NULL   VARCHAR2(30)
TEAMNAME                                                 VARCHAR2(30)
BIRTHDATE                                     NOT NULL   CHAR(10)
NATIONALITY                                   NOT NULL   CHAR(20)
```

Players:

```
SQL> describe players
Name                                          Null?      Type
--------------------------------------------- ---------- -------------------------------
NATIONALITY                                   NOT NULL   CHAR(20)
NAME_                                         NOT NULL   VARCHAR2(30)
BIRTHDATE                                     NOT NULL   CHAR(10)
TEAMNAME                                      NOT NULL   CHAR(30)
POSITION                                                 CHAR(40)
KITNUM                                                   NUMBER(38)
```

playersStatistic:

```
SQL> describe playersStats
 Name                                          Null?     Type
 ------------------------------------------- --------- -----------------------------
 WINS                                                   NUMBER(38)
 LOSSES                                                 NUMBER(38)
 YEAR_                                         NOT NULL NUMBER(38)
 AVERAGERATING                                          FLOAT(126)
 APPEARANCES                                            FLOAT(126)
 NAME_                                         NOT NULL VARCHAR2(30)
 TEAMNAME                                               CHAR(30)
```

covers:

```
SQL> describe covers
 Name                                          Null?     Type
 ------------------------------------------- --------- -----------------------------
 LEAGUENAME                                    NOT NULL VARCHAR2(40)
 NEWSTITLE                                     NOT NULL VARCHAR2(300)
 NEWSAUTHOR                                    NOT NULL VARCHAR2(30)
```

sponsoredBy:

```
SQL> describe sponsoredBy
 Name                                          Null?     Type
 ------------------------------------------- --------- -----------------------------
 TEAMNAME                                      NOT NULL VARCHAR2(30)
 SPONSORNAME                                   NOT NULL VARCHAR2(30)
```

play:

```
SQL> describe play
 Name                                          Null?     Type
 ------------------------------------------- --------- -----------------------------
 STADIUM                                       NOT NULL VARCHAR2(40)
 MATCHDATE                                     NOT NULL CHAR(10)
 AWAYTEAMNAME                                            CHAR(30)
 TEAMNAME                                      NOT NULL VARCHAR2(30)
```

List of all SQL queries:
All the SQL queries are done in the team statistics of the basketball section of the project.

insert:
Insert into team statistics: basketball.php line 1023
(could be found in the code by looking up: "insert query for M4")

```
INSERT into teamstats values (". $tuple[0] .","". $tuple[1] .","".$tuple[2]
.","".$tuple[3] .","".$tuple[4] .","".$tuple[5] .","".$tuple[6].", '".$temp.);
```

Update:

Update a team statistics: basketball.php line 1016

(could be found in the code by looking up: "update query for M4")

If the users put in the same year (the primary key for team_statistics in the input, then that year's statistics will get updated):

```
UPDATE teamstats SET ".$atrb[$i]."=".$tuple[$i]." WHERE teamname='". $temp. "' AND
year_=" .$tuple[6].);
```

Delete:

Delete a team_stat from team statistics:

Can be found by searching for "deleete query for M4"

```
"DELETE FROM teamstats WHERE teamname='" . $temp  ."' AND year_=". $_POST['year']
```

Insert screenshots: insert a team statistic:
input:

Insert or Update Stats

Year: 2019

Games Tied: 2

Games Won: 3

Games Lost: 3

Average Scored: 231.4

Average Conceded: 111.2

Table Standing: 4

[Enter]

Before:

Year	Games Tied	Games Won	Games Lost	Average Scored	Average Conceded	Table Standing
2023 [Remove]	10	45	20	112	105	5
2022 [Remove]	0	30	52	110.3	115.8	24
2021 [Remove]	0	31	41	113.7	117.4	23

After:

Year	Games Tied	Games Won	Games Lost	Average Scored	Average Conceded	Table Standing
2023 Remove	10	45	20	112	105	5
2022 Remove	0	30	52	110.3	115.8	24
2021 Remove	0	31	41	113.7	117.4	23
2019 Remove	2	3	3	231.4	111.2	4

Update:
Input:

Insert or Update Stats

Year: 2023

Games Tied: 10

Games Won: 45

Games Lost: 20

Average Scored: 112

Average Conceded: 105

Table Standing: 5

Enter

Before:

Year	Games Tied	Games Won	Games Lost	Average Scored	Average Conceded	Table Standing
2023 Remove	23	3	34	5	3	3
2022 Remove	0	30	52	110.3	115.8	24
2021 Remove	0	31	41	113.7	117.4	23

After:

Year	Games Tied	Games Won	Games Lost	Average Scored	Average Conceded	Table Standing
2023 Remove	10	45	20	112	105	5
2022 Remove	0	30	52	110.3	115.8	24
2021 Remove	0	31	41	113.7	117.4	23

Delete:

Users can click on the remove button:

Before:

Year	Games Tied	Games Won	Games Lost	Average Scored	Average Conceded	Table Standing
2023 [Remove]	10	45	20	112	105	5
2022 [Remove]	0	30	52	110.3	115.8	24
2021 [Remove]	0	31	41	113.7	117.4	23
2019 [Remove]	2	3	3	231.4	111.2	4

After clicking on remove 2023:

Year	Games Tied	Games Won	Games Lost	Average Scored	Average Conceded	Table Standing
2022 [Remove]	0	30	52	110.3	115.8	24
2021 [Remove]	0	31	41	113.7	117.4	23
2019 [Remove]	2	3	3	231.4	111.2	4

Selection:

Users can click on a team and get their info.

Before:

After clicking on Arsenal:

Arsenal

Location: London, England   **League: Premier League**   PLAYERS   Coach

Year	Games Tied	Games Won	Games Lost	Average Scored	Average Conceded	Table Standing
2023	3	9	1	2.1	.8	1
2022	6	26	6	2.3	1.1	2
2021	3	22	13	1.6	1.3	5