DBMS - MINI PROJECT

FOOTBALL TEAM MANAGEMENT SYSTEM

Submitted By:

Name: Rohit Sulake

SRN: PES1UG20CS356

Vth Semester F Section

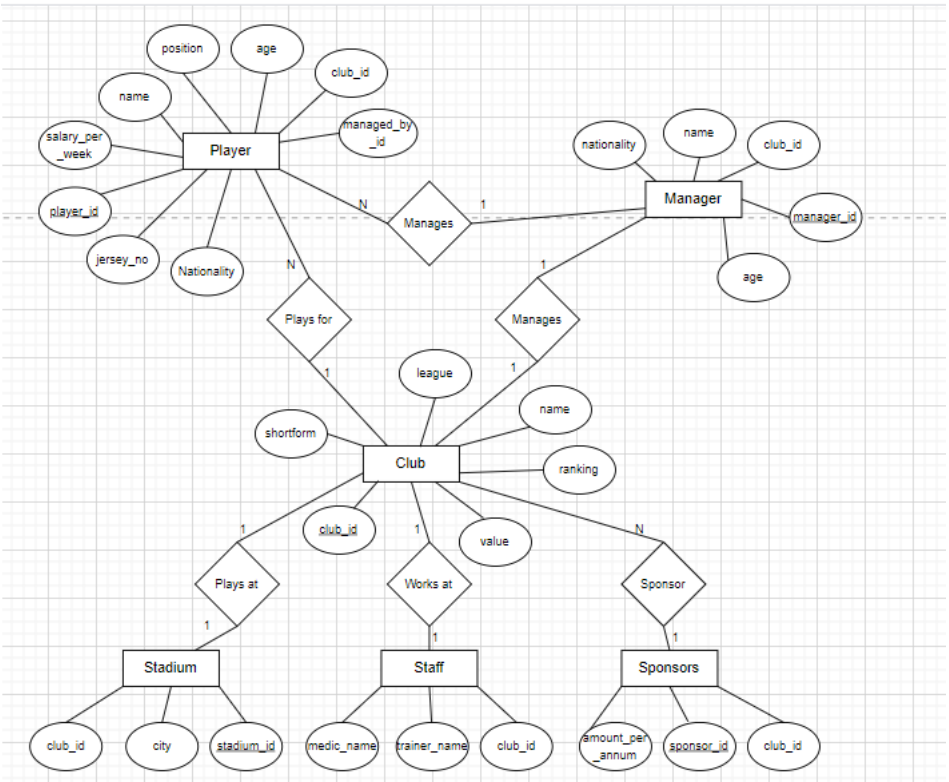
ABSTRACT:

The purpose of this project is to provide the user a simple way to manage teams that play in different leagues and a simple way to get information related to the players and the club they play for. It contains information about the club such as its current estimated value, the league it plays in and the ranking of the club in the league.

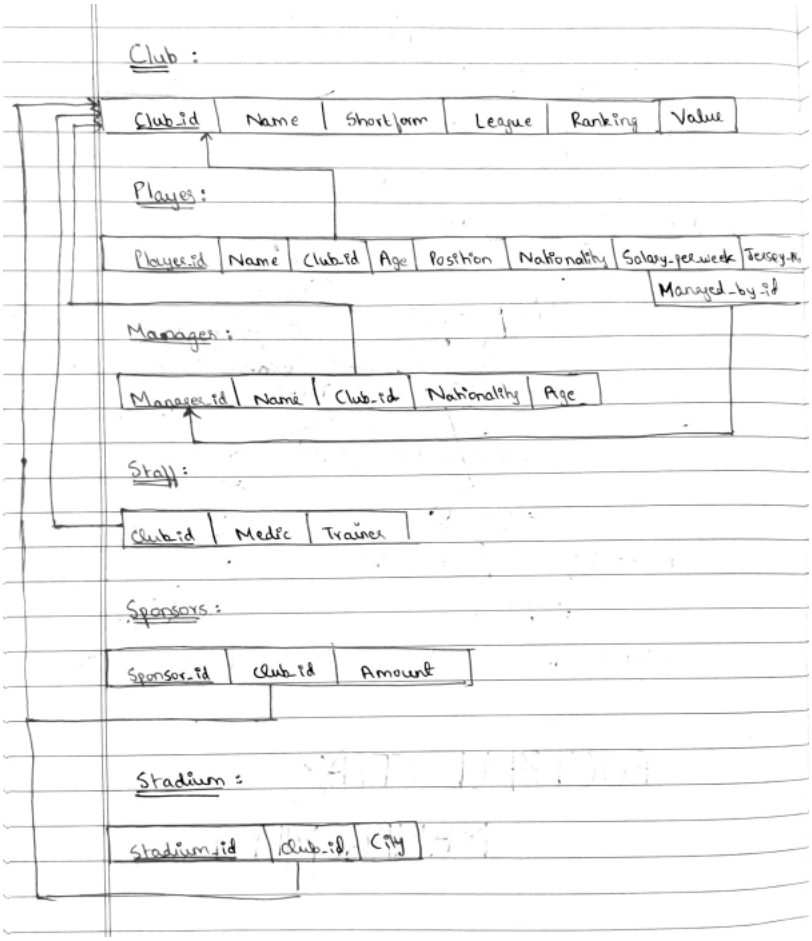
It also has the details of the mangers and the players and the salaries of each player and the position they play in. We also have information about the staff such as the medic and the trainer of the team. We see the sponsors related to this club and how much money they sponsor and the stadiums of each club.

We included an extra feature of the contract between a player and a club and we look into the transfer of players to different clubs under different scenarios relating to the expiration of the contract.

ER Diagram



Relational Schema



DDL statements - Building the database

Creating the database:

create DATABASE if not exists football_team_management;

```
MariaDB [(none)]> create database football_team_management
    -> ;
Query OK, 1 row affected (0.017 sec)
```

Using the created database:

use football_team_management;

```
MariaDB [(none)]> use football_team_management;
Database changed
MariaDB [football_team_management]>
```

CREATING TABLES:

```
MariaDB [football_team_management]> create table club(
    -> club_id int,
    -> name varchar(30),
    -> shortform char(5),
    -> league varchar(15),
    -> ranking int,
    -> value int,
    -> primary key(club_id)
    -> );
Query OK, 0 rows affected (0.092 sec)
```

```
MariaDB [football_team_management]> create table manager(
    -> manager_id int,
    -> name varchar(30),
    -> club_id int,
    -> nationality varchar(20),
    -> age int,
    -> primary key(manager_id),
    -> foreign key(club_id) references club(club_id)
    -> );
Query OK, 0 rows affected (0.045 sec)
```

```
MariaDB [football_team_management]> create table player(
    -> player_id int,
    -> name varchar(30),
    -> club_id int,
    -> age int,
    -> position char(5),
    -> nationality varchar(20),
    -> salary_per_week int,
    -> jersey_no int,
    -> managed_by_id int,
    -> primary key(player_id),
    -> foreign key(club_id) references club(club_id),
    -> foreign key(managed_by_id) references manager(manager_id)
    -> );
Query OK, 0 rows affected (0.047 sec)
```

```
MariaDB [football_team_management]> create table staff(
    -> club_id int,
    -> medic_name varchar(30),
    -> trainer_name varchar(30),
    -> foreign key(club_id) references club(club_id)
    -> );
Query OK, 0 rows affected (0.046 sec)
```

```
MariaDB [football_team_management]> create table sponsors(
    -> sponsor_id int,
    -> club_id int,
    -> amount_per_annum int,
    -> primary key(sponsor_id),
    -> foreign key(club_id) references club(club_id)
    -> );
Query OK, 0 rows affected (0.041 sec)
```

```
MariaDB [football_team_management]> create table stadium(
    -> stadium_id int,
    -> name varchar(30),
    -> club_id int,
    -> city varchar(20),
    -> primary key(stadium_id),
    -> foreign key(club_id) references club(club_id)
    -> );
Query OK, 0 rows affected (0.044 sec)
```

Using show tables command after creating tables:

```
MariaDB [football_team_management]> show tables;
+-------------------------------------+
| Tables_in_football_team_management |
+-------------------------------------+
| club                                |
| manager                             |
| player                              |
| sponsors                            |
| stadium                             |
| staff                               |
+-------------------------------------+
6 rows in set (0.014 sec)
```

Populating the Database:

Populating the table club:

```
MariaDB [football_team_management]> insert into club(club_id,name,shortform,league,ranking,value) values (001,"Real Madrid FC","RMA","La Liga",1,10000000);
Query OK, 1 row affected (0.017 sec)

MariaDB [football_team_management]> insert into club(club_id,name,shortform,league,ranking,value) values (002,"FC Barcelona","BAR","La Liga",2,10000000);
Query OK, 1 row affected (0.007 sec)

MariaDB [football_team_management]> select * from club;
+---------+---------------+-----------+---------+---------+----------+
| club_id | name          | shortform | league  | ranking | value    |
+---------+---------------+-----------+---------+---------+----------+
|       1 | Real Madrid FC | RMA       | La Liga |       1 | 10000000 |
|       2 | FC Barcelona   | BAR       | La Liga |       2 | 10000000 |
+---------+---------------+-----------+---------+---------+----------+
2 rows in set (0.004 sec)
```

Populating the table player:

```
MariaDB [football_team_management]> insert into player(player_id,name,club_id,age,position,nationality,salary_per_week,jersey_no,managed_by_id) values (007,"Cristiano Ronal
do",001,37,"LWF","Portugal",50000,7,100);
Query OK, 1 row affected (0.006 sec)

MariaDB [football_team_management]> insert into player(player_id,name,club_id,age,position,nationality,salary_per_week,jersey_no,managed_by_id) values (010,"Lionel Messi",0
02,34,"RWF","Argentina",50000,10,101);
Query OK, 1 row affected (0.004 sec)

MariaDB [football_team_management]> select * from player;
+-----------+------------------+---------+------+----------+-------------+----------------+----------+--------------+
| player_id | name             | club_id | age  | position | nationality | salary_per_week | jersey_no | managed_by_id |
+-----------+------------------+---------+------+----------+-------------+----------------+----------+--------------+
|         7 | Cristiano Ronaldo |       1 |   37 | LWF      | Portugal    |          50000 |         7 |          100 |
|        10 | Lionel Messi      |       2 |   34 | RWF      | Argentina   |          50000 |        10 |          101 |
+-----------+------------------+---------+------+----------+-------------+----------------+----------+--------------+
2 rows in set (0.001 sec)
```

Populating the table player using load data command:

```
MariaDB [football_team_management]> LOAD DATA INFILE "C:\\Users\\rohit\\Desktop\\PES UG\\Fifth Sem\\DBMS\\players.csv" INTO TABLE player
    ->     COLUMNS TERMINATED BY ','
    ->     OPTIONALLY ENCLOSED BY ""
    ->     ESCAPED BY ""
    ->     LINES TERMINATED BY "\n"
    ->     IGNORE 1 LINES
    ->     (player_id,name,club_id,age,position,nationality,salary_per_week,jersey_no,managed_by_id);
Query OK, 13 rows affected, 13 warnings (0.008 sec)
Records: 13  Deleted: 0  Skipped: 0  Warnings: 13

MariaDB [football_team_management]> select * from player;
+-----------+------------------+---------+------+----------+-------------+----------------+----------+--------------+
| player_id | name             | club_id | age  | position | nationality | salary_per_week | jersey_no | managed_by_id |
+-----------+------------------+---------+------+----------+-------------+----------------+----------+--------------+
|         1 | Luka Modric      |       1 |   36 | CMF      | Croatia     |          40000 |        10 |          100 |
|         2 | Xavi             |       2 |   39 | CMF      | Spain       |          40000 |        10 |          101 |
|         3 | Neymar Jr        |       2 |   32 | LWF      | Brazil      |          40000 |        11 |          101 |
|         4 | Kevin De Bruyne  |       3 |   32 | AMF      | Belgium     |          40000 |        14 |          102 |
|         5 | Karim Benzema    |       1 |   34 | CF       | France      |          40000 |         9 |          100 |
|         6 | Toni Kroos       |       1 |   35 | CMF      | Germany     |          40000 |         8 |          100 |
|         7 | Cristiano Ronaldo |       1 |   37 | LWF      | Portugal    |          50000 |         7 |          100 |
|         8 | Kaka             |       1 |   38 | AMF      | Brazil      |          40000 |         8 |          100 |
|         9 | Sergio Busquets  |       2 |   36 | DMF      | Spain       |          40000 |         9 |          101 |
|        10 | Lionel Messi     |       2 |   34 | RWF      | Argentina   |          50000 |        10 |          101 |
|        11 | Andres Iniesta   |       2 |   39 | CMF      | Spain       |          40000 |        11 |          101 |
|        12 | Sergio Ramos     |       1 |   34 | CB       | Spain       |          40000 |         4 |          100 |
|        13 | Eden Hazard      |       3 |   31 | LWF      | Belgium     |          30000 |        10 |          102 |
|        14 | Fernando Torres  |       3 |   39 | CF       | Spain       |          30000 |         9 |          102 |
|        15 | Didier Drogba    |       3 |   39 | CF       | Ivory Coast |          30000 |         9 |          102 |
+-----------+------------------+---------+------+----------+-------------+----------------+----------+--------------+
15 rows in set (0.001 sec)
```

Tools Used:

Backend: MariaDB

Frontend: STREAMLIT

JOIN QUERIES:

1)Display the list of managers and the players that they manage

```
MariaDB [football_team_management]> SELECT manager.name,player.name FROM manager LEFT JOIN player ON manager.club_id=player.club_id;
+-----------------+--------------------+
| name            | name               |
+-----------------+--------------------+
| Carlo Ancelotti | Luka Modric        |
| Carlo Ancelotti | Karim Benzema      |
| Carlo Ancelotti | Toni Kroos         |
| Carlo Ancelotti | Cristiano Ronaldo  |
| Carlo Ancelotti | Kaka               |
| Carlo Ancelotti | Sergio Ramos       |
| Pep Guardiola   | Xavi               |
| Pep Guardiola   | Neymar Jr          |
| Pep Guardiola   | Sergio Busquets    |
| Pep Guardiola   | Lionel Messi       |
| Pep Guardiola   | Andres Iniesta     |
| Jose Mourinho   | Kevin De Bruyne    |
| Jose Mourinho   | Eden Hazard        |
| Jose Mourinho   | Fernando Torres    |
| Jose Mourinho   | Didier Drogba      |
| Alex Ferguson   | NULL               |
| Arsene Wenger   | NULL               |
| Jurgen Klopp    | NULL               |
+-----------------+--------------------+
18 rows in set (0.028 sec)
```

2)Select managers and the players they manage who belong to the same country as them

```
MariaDB [football_team_management]> SELECT manager.name,player.name FROM manager INNER JOIN player ON manager.club_id=player.club_id and manager.nationality=player.national
ity;
+---------------+-----------------+
| name          | name            |
+---------------+-----------------+
| Pep Guardiola | Xavi            |
| Pep Guardiola | Sergio Busquets |
| Pep Guardiola | Andres Iniesta  |
+---------------+-----------------+
3 rows in set (0.002 sec)
```

3)Display team name, manager name and the player names of all clubs in ascending order of club name

```
MariaDB [football_team_management]> SELECT club.name,manager.name,player.name FROM ((club INNER JOIN manager ON club.club_id=manager.club_id) INNER JOIN player ON club.club
_id=player.club_id) order by club.name;
+---------------+-----------------+--------------------+
| name          | name            | name               |
+---------------+-----------------+--------------------+
| Chelsea       | Jose Mourinho   | Didier Drogba      |
| Chelsea       | Jose Mourinho   | Eden Hazard        |
| Chelsea       | Jose Mourinho   | Kevin De Bruyne    |
| Chelsea       | Jose Mourinho   | Fernando Torres    |
| FC Barcelona  | Pep Guardiola   | Lionel Messi       |
| FC Barcelona  | Pep Guardiola   | Andres Iniesta     |
| FC Barcelona  | Pep Guardiola   | Xavi               |
| FC Barcelona  | Pep Guardiola   | Sergio Busquets    |
| FC Barcelona  | Pep Guardiola   | Neymar Jr          |
| Real Madrid FC | Carlo Ancelotti | Luka Modric        |
| Real Madrid FC | Carlo Ancelotti | Kaka               |
| Real Madrid FC | Carlo Ancelotti | Toni Kroos         |
| Real Madrid FC | Carlo Ancelotti | Cristiano Ronaldo  |
| Real Madrid FC | Carlo Ancelotti | Karim Benzema      |
| Real Madrid FC | Carlo Ancelotti | Sergio Ramos       |
+---------------+-----------------+--------------------+
15 rows in set (0.007 sec)
```

4)Show details of club, the club manager, and the stadium they play in

```
MariaDB [football_team_management]> SELECT club.club_id,club.name,manager.name,stadium.name FROM ((club INNER JOIN manager ON club.club_id=manager.club_id) INNER JOIN stadi
um ON club.club_id=stadium.club_id);
+---------+------------------+----------------+-------------------+
| club_id | name             | name           | name              |
+---------+------------------+----------------+-------------------+
|       1 | Real Madrid FC   | Carlo Ancelotti | Santiago Bernabeu |
|       2 | FC Barcelona     | Pep Guardiola  | Camp Nou          |
|       3 | Chelsea          | Jose Mourinho  | Stamford Bridge   |
|       4 | Manchester United | Alex Ferguson  | Old Trafford      |
+---------+------------------+----------------+-------------------+
4 rows in set (0.001 sec)
```

AGGREGATE FUNCTIONS:

1) Calculate the number of players playing for each club

```
MariaDB [football_team_management]> SELECT club.name,count(player.player_id) from club,player where club.club_id=player.club_id group by club.name;
+---------------+------------------------+
| name          | count(player.player_id) |
+---------------+------------------------+
| Chelsea       |                      4 |
| FC Barcelona  |                      5 |
| Real Madrid FC |                      6 |
+---------------+------------------------+
3 rows in set (0.001 sec)
```

2) Select the maximum value of a club

```
MariaDB [football_team_management]> select max(value) from club;
+-------------+
| max(value) |
+-------------+
|   10000000 |
+-------------+
1 row in set (0.001 sec)
```

3) Select the minimum of the sum of a club's value and the money they receive from sponsors

```
MariaDB [football_team_management]> select min(club.value+sponsors.amount_per_annum) from club,sponsors where club.club_id=sponsors.club_id;
+-----------------------------------------+
| min(club.value+sponsors.amount_per_annum) |
+-----------------------------------------+
|                                  250000 |
+-----------------------------------------+
1 row in set (0.005 sec)
```

4) Select sum of the salary of players from club with club id=2

```
MariaDB [football_team_management]> select club.club_id,sum(player.salary_per_week) from club,player where club.club_id=player.club_id and club.club_id=2;
+---------+----------------------------+
| club_id | sum(player.salary_per_week) |
+---------+----------------------------+
|       2 |                     210000 |
+---------+----------------------------+
1 row in set (0.005 sec)
```

SET OPERATIONS:

1) Select the club and the manager of the club only if the age of the manager is less than 60 using set operation

```
MariaDB [football_team_management]> (select cl.club_id,cl.name,m.name from club as cl join manager as m where m.club_id=cl.club_id)
    -> except
    -> (select cl.club_id,cl.name,m.name from club as cl join manager as m where m.club_id=cl.club_id and m.age>60);
+---------+---------------+---------------+
| club_id | name          | name          |
+---------+---------------+---------------+
|       2 | FC Barcelona  | Pep Guardiola |
|       3 | Chelsea       | Jose Mourinho |
|       6 | Bayern Munich | Jurgen Klopp  |
+---------+---------------+---------------+
3 rows in set (0.011 sec)
```

2) Select the id and names of players who are above 30 years old and play in La Liga league

```
MariaDB [football_team_management]> (select p.player_id,p.name,cl.league from player as p join club as cl where p.club_id=cl.club_id and p.age>30)
    -> intersect
    -> (select p.player_id,p.name,cl.league from player as p join club as cl where p.club_id=cl.club_id and cl.league="La Liga");
+-----------+------------------+---------+
| player_id | name             | league  |
+-----------+------------------+---------+
|         1 | Luka Modric      | La Liga |
|         2 | Xavi             | La Liga |
|         3 | Neymar Jr        | La Liga |
|         5 | Karim Benzema    | La Liga |
|         7 | Cristiano Ronaldo | La Liga |
|         8 | Kaka             | La Liga |
|         9 | Sergio Busquets  | La Liga |
|        10 | Lionel Messi     | La Liga |
|        11 | Andres Iniesta   | La Liga |
|        12 | Sergio Ramos     | La Liga |
+-----------+------------------+---------+
10 rows in set (0.001 sec)
```

3) Select the club id, value, and the amount they receive from sponsors if amount they receive from sponsors is above 150000 or the club id is equal to 1 without duplicates

```
MariaDB [football_team_management]> (select cl.club_id,cl.value,sp.amount_per_annum from club as cl join sponsors as sp where cl.club_id=sp.club_id and sp.amount_per_annum>
150000)
    -> UNION
    -> (select cl.club_id,cl.value,sp.amount_per_annum from club as cl join sponsors as sp where cl.club_id=sp.club_id and cl.club_id=1);
+---------+----------+-----------------+
| club_id | value    | amount_per_annum |
+---------+----------+-----------------+
|       1 | 10000000 |          200000 |
|       2 | 10000000 |          200000 |
|       7 |  7000000 |         1000000 |
+---------+----------+-----------------+
3 rows in set (0.001 sec)
```

4)Select the club id, value, and the amount they receive from sponsors if amount they receive from sponsors is above 150000 or the club id is equal to 1. (This is different from union as union all even includes duplicates as seen below)

```
MariaDB [football_team_management]> (select cl.club_id,cl.value,sp.amount_per_annum from club as cl join sponsors as sp where cl.club_id=sp.club_id and sp.amount_per_annum>
150000)
    -> UNION ALL
    -> (select cl.club_id,cl.value,sp.amount_per_annum from club as cl join sponsors as sp where cl.club_id=sp.club_id and cl.club_id=1);
+---------+----------+-----------------+
| club_id | value    | amount_per_annum |
+---------+----------+-----------------+
|       1 | 10000000 |          200000 |
|       2 | 10000000 |          200000 |
|       7 |  7000000 |         1000000 |
|       1 | 10000000 |          200000 |
+---------+----------+-----------------+
4 rows in set (0.001 sec)
```

FUNCTION:

Here, we have designed a function that randomly assigns a contract end year for a player with a range from 2023 to 2028. We use the rand() function to randomize the years chosen. We store this in a separate column in player under the name contract_end.

```
MariaDB [football_team_management]> DELIMITER //
MariaDB [football_team_management]> CREATE FUNCTION contract_end_year_final(player_id int)
    -> RETURNS INT DETERMINISTIC
    -> BEGIN
    -> DECLARE contract_end int;
    -> SET contract_end=RAND()*(2028-2022)+2022;
    -> RETURN contract_end;
    -> END
    -> //
Query OK, 0 rows affected (0.009 sec)
```

```
MariaDB [football_team_management]> update player set contract_end=contract_end_year_final(player_id);
Query OK, 15 rows affected (0.006 sec)
Rows matched: 15  Changed: 15  Warnings: 0

MariaDB [football_team_management]> select * from player;
+-----------+-------------------+---------+------+----------+-------------+----------------+-----------+--------------+--------------+
| player_id | name              | club_id | age  | position | nationality | salary_per_week | jersey_no | managed_by_id | contract_end |
+-----------+-------------------+---------+------+----------+-------------+----------------+-----------+--------------+--------------+
|         1 | Luka Modric       |       1 |   36 | CMF      | Croatia     |           40000 |        10 |           100 |         2022 |
|         2 | Xavi              |       2 |   39 | CMF      | Spain       |           40000 |        10 |           101 |         2023 |
|         3 | Neymar Jr         |       2 |   32 | LWF      | Brazil      |           40000 |        11 |           101 |         2024 |
|         4 | Kevin De Bruyne   |       3 |   32 | AMF      | Belgium     |           40000 |        14 |           101 |         2024 |
|         5 | Karim Benzema     |       1 |   34 | CF       | France      |           40000 |         9 |           100 |         2024 |
|         6 | Toni Kroos        |       1 |   35 | CMF      | Germany     |           40000 |         8 |           100 |         2022 |
|         7 | Cristiano Ronaldo |       1 |   37 | LWF      | Portugal    |           50000 |         7 |           100 |         2023 |
|         8 | Kaka              |       1 |   38 | AMF      | Brazil      |           40000 |         8 |           100 |         2024 |
|         9 | Sergio Busquets   |       2 |   36 | DMF      | Spain       |           40000 |         9 |           101 |         2024 |
|        10 | Lionel Messi      |       2 |   34 | RWF      | Argentina   |           50000 |        10 |           101 |         2027 |
|        11 | Andres Iniesta    |       2 |   39 | CMF      | Spain       |           40000 |        11 |           101 |         2024 |
|        12 | Sergio Ramos      |       1 |   34 | CB       | Spain       |           40000 |         4 |           100 |         2027 |
|        13 | Eden Hazard       |       3 |   31 | LWF      | Belgium     |           30000 |        10 |           102 |         2024 |
|        14 | Fernando Torres   |       3 |   39 | CF       | Spain       |           30000 |         9 |           102 |         2028 |
|        15 | Didier Drogba     |       3 |   39 | CF       | Ivory Coast |           30000 |         9 |           102 |         2028 |
+-----------+-------------------+---------+------+----------+-------------+----------------+-----------+--------------+--------------+
15 rows in set (0.000 sec)
```

PROCEDURE:

Here, we have implemented a procedure which gives us the number of years left from a specific year that will be given as input by the user. This can be used to strategize the transfers a club is interested to make.

```
MariaDB [football_team_management]> DELIMITER $$
MariaDB [football_team_management]> CREATE PROCEDURE contract_years_left_test2( IN year1 int,IN playerid int,OUT years_left int)
    -> BEGIN
    -> DECLARE p int;
    -> SELECT contract_end INTO p FROM player where player_id=playerid;
    -> SET years_left=p-@year1;
    -> SELECT @years_left;
    -> END$$
Query OK, 0 rows affected (0.011 sec)

MariaDB [football_team_management]> DELIMITER ;
MariaDB [football_team_management]> call contract_years_left_test2(2025,12,@years_left);
+-------------+
| @years_left |
+-------------+
|           2 |
+-------------+
1 row in set (0.002 sec)

Query OK, 1 row affected (0.038 sec)
```

TRIGGER:

Trigger to be called when the user tries to update the player details. We do not let the update of a player's club id happen until his contract comes to an end. So we use the trigger to decide if the update of player id is possible (if contract_end not greater than 2022) else we display the message that the contract has not yet been terminated.

```
MariaDB [football_team_management]> DELIMITER $$
MariaDB [football_team_management]> CREATE TRIGGER NO_TRANSFER
    -> BEFORE UPDATE ON player
    -> FOR EACH ROW
    -> BEGIN
    -> IF NEW.club_id!=OLD.club_id and OLD.contract_end>2022 THEN
    -> SIGNAL SQLSTATE VALUE '45000' SET MESSAGE_TEXT="CONTRACT NOT YET TERMINATED!";
    -> END IF
    -> ;
    -> END$$
Query OK, 0 rows affected (0.046 sec)
```

```
MariaDB [football_team_management]> DELIMITER ;
MariaDB [football_team_management]> update player set club_id=3 where player_id=6;
Query OK, 1 row affected (0.020 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [football_team_management]> update player set club_id=3 where player_id=3;
ERROR 1644 (45000): CONTRACT NOT YET TERMINATED!
MariaDB [football_team_management]> update player set age=28 where player_id=6;
Query OK, 1 row affected (0.003 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

CURSOR:

The cursor implemented here is to update a player's salary based on the change in ranking of the team after a season. We increase their salary if the club ranking gets better else we decrease it.

```
MariaDB [football_team_management]> delimiter $$
MariaDB [football_team_management]> create procedure salary_change2(in club_id1 int,in old_ranking int,in new_ranking int)
    -> begin
    -> declare r int;
    -> declare finish int default 0;
    -> declare cur cursor for select salary_per_week from player where club_id1=club_id;
    -> declare continue handler for not found set finish=1;
    -> open cur;
    -> a:loop
    -> fetch cur into r;
    -> if finish!=1 then
    -> if old_ranking>new_ranking then
    -> update player set salary_per_week=r*1.1 where club_id1=club_id;
    -> elseif old_ranking<new_ranking then
    -> update player set salary_per_week=r div 1.1 where club_id1=club_id;
    -> end if;
    -> end if;
    -> if finish=1 then
    -> leave a;
    -> end if;
    -> end loop a;
    -> end$$
Query OK, 0 rows affected (0.011 sec)

MariaDB [football_team_management]> delimiter ;
```

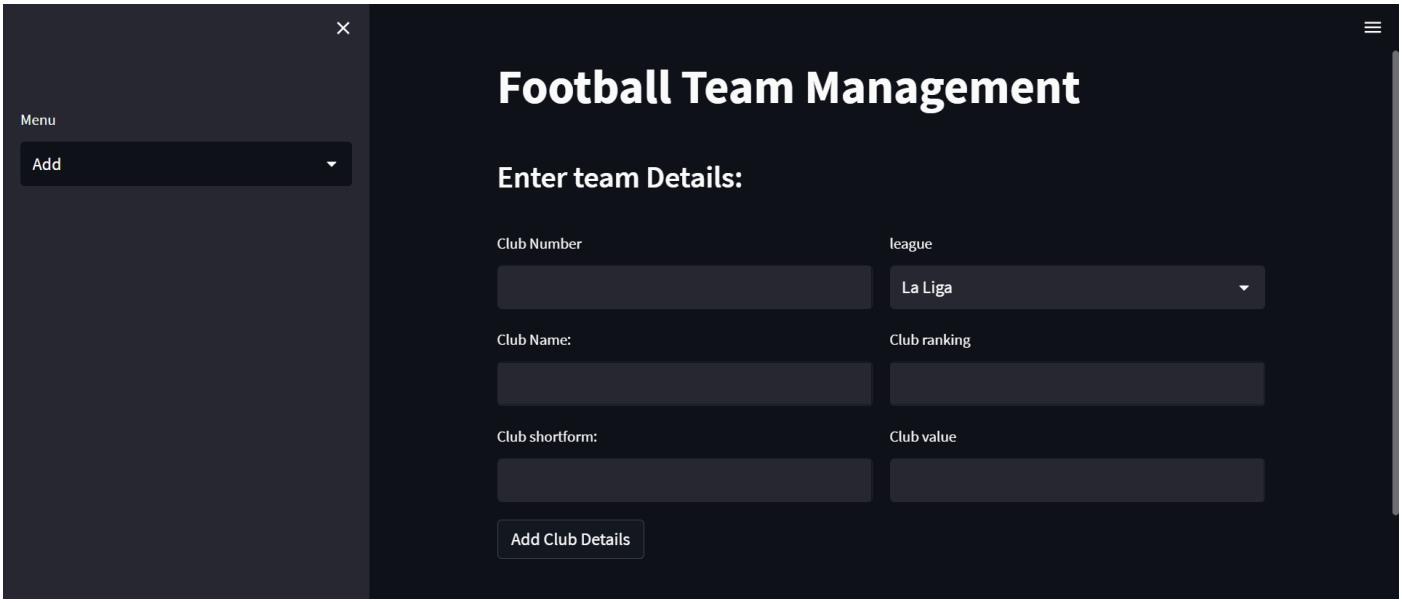
```
MariaDB [football_team_management]> select * from player;
+-----------+--------------------+---------+------+----------+-------------+----------------+----------+--------------+--------------+
| player_id | name               | club_id | age  | position | nationality | salary_per_week | jersey_no | managed_by_id | contract_end |
+-----------+--------------------+---------+------+----------+-------------+----------------+----------+--------------+--------------+
|         1 | Luka Modric        |       1 |   36 | CMF      | Croatia     |          33000 |       10 |          100 |         2022 |
|         2 | Xavi               |       2 |   39 | CMF      | Spain       |          33000 |       10 |          101 |         2023 |
|         3 | Neymar Jr          |       2 |   32 | LWF      | Brazil      |          33000 |       11 |          101 |         2024 |
|         4 | Kevin De Bruyne    |       3 |   32 | AMF      | Belgium     |          39930 |       14 |          101 |         2024 |
|         5 | Karim Benzema      |       1 |   34 | CF       | France      |          33000 |        9 |          100 |         2024 |
|         6 | Toni Kroos         |       3 |   28 | CMF      | Germany     |          39930 |        8 |          100 |         2022 |
|         7 | Cristiano Ronaldo  |       1 |   37 | LWF      | Portugal    |          33000 |        7 |          100 |         2023 |
|         8 | Kaka               |       1 |   38 | AMF      | Brazil      |          33000 |        8 |          100 |         2024 |
|         9 | Sergio Busquets    |       2 |   36 | DMF      | Spain       |          33000 |        9 |          101 |         2024 |
|        10 | Lionel Messi       |       2 |   34 | RWF      | Argentina   |          33000 |       10 |          101 |         2022 |
|        11 | Andres Iniesta     |       2 |   39 | CMF      | Spain       |          33000 |       11 |          101 |         2024 |
|        12 | Sergio Ramos       |       1 |   34 | CB       | Spain       |          33000 |        4 |          100 |         2027 |
|        13 | Eden Hazard        |       3 |   31 | LWF      | Belgium     |          39930 |       10 |          102 |         2024 |
|        14 | Fernando Torres    |       3 |   39 | CF       | Spain       |          39930 |        9 |          102 |         2028 |
|        15 | Didier Drogba      |       3 |   39 | CF       | Ivory Coast |          39930 |        9 |          102 |         2028 |
+-----------+--------------------+---------+------+----------+-------------+----------------+----------+--------------+--------------+
15 rows in set (0.000 sec)
```

```
MariaDB [football_team_management]> select * from player;
+-----------+--------------------+---------+------+----------+-------------+----------------+----------+--------------+--------------+
| player_id | name               | club_id | age  | position | nationality | salary_per_week | jersey_no | managed_by_id | contract_end |
+-----------+--------------------+---------+------+----------+-------------+----------------+----------+--------------+--------------+
|         1 | Luka Modric        |       1 |   36 | CMF      | Croatia     |          33000 |       10 |          100 |         2022 |
|         2 | Xavi               |       2 |   39 | CMF      | Spain       |          33000 |       10 |          101 |         2023 |
|         3 | Neymar Jr          |       2 |   32 | LWF      | Brazil      |          33000 |       11 |          101 |         2024 |
|         4 | Kevin De Bruyne    |       3 |   32 | AMF      | Belgium     |          43923 |       14 |          101 |         2024 |
|         5 | Karim Benzema      |       1 |   34 | CF       | France      |          33000 |        9 |          100 |         2024 |
|         6 | Toni Kroos         |       3 |   28 | CMF      | Germany     |          43923 |        8 |          100 |         2022 |
|         7 | Cristiano Ronaldo  |       1 |   37 | LWF      | Portugal    |          33000 |        7 |          100 |         2023 |
|         8 | Kaka               |       1 |   38 | AMF      | Brazil      |          33000 |        8 |          100 |         2024 |
|         9 | Sergio Busquets    |       2 |   36 | DMF      | Spain       |          33000 |        9 |          101 |         2024 |
|        10 | Lionel Messi       |       2 |   34 | RWF      | Argentina   |          33000 |       10 |          101 |         2022 |
|        11 | Andres Iniesta     |       2 |   39 | CMF      | Spain       |          33000 |       11 |          101 |         2024 |
|        12 | Sergio Ramos       |       1 |   34 | CB       | Spain       |          33000 |        4 |          100 |         2027 |
|        13 | Eden Hazard        |       3 |   31 | LWF      | Belgium     |          43923 |       10 |          102 |         2024 |
|        14 | Fernando Torres    |       3 |   39 | CF       | Spain       |          43923 |        9 |          102 |         2028 |
|        15 | Didier Drogba      |       3 |   39 | CF       | Ivory Coast |          43923 |        9 |          102 |         2028 |
+-----------+--------------------+---------+------+----------+-------------+----------------+----------+--------------+--------------+
15 rows in set (0.001 sec)
```

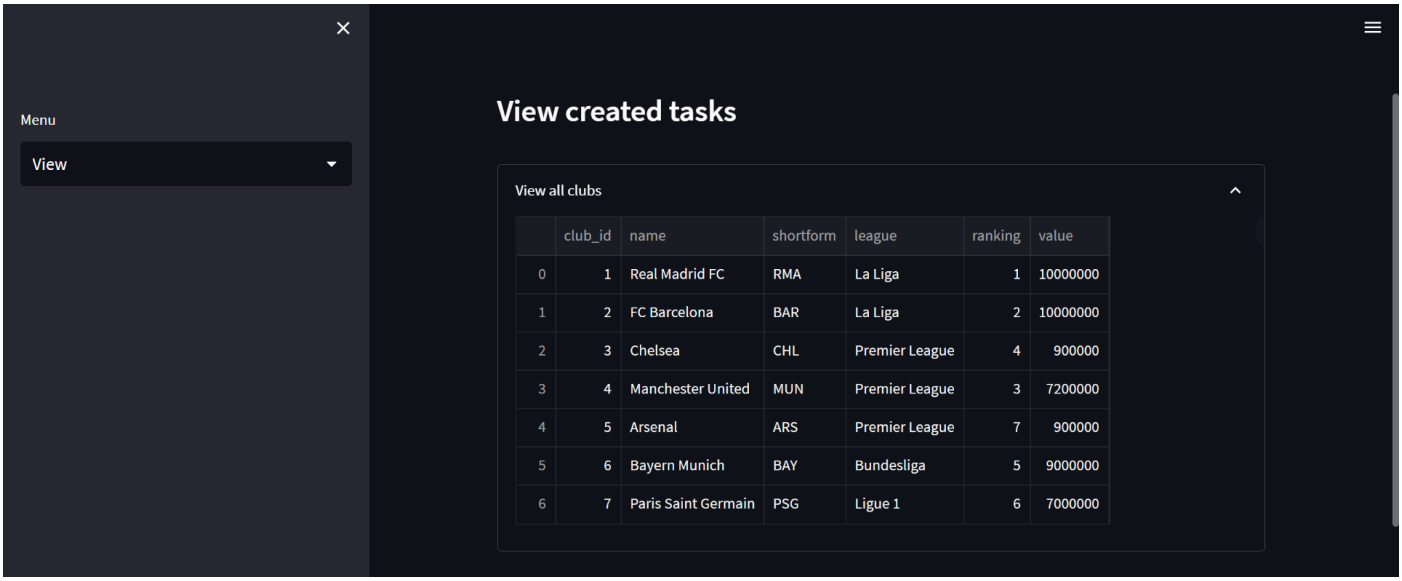
FRONT END:

```
C:\Users\rohit\Desktop\PES UG\Fifth Sem\DBMS\mini project>streamlit run app.py

  You can now view your Streamlit app in your browser.

  Local URL: http://localhost:8501
  Network URL: http://192.168.1.45:8501
```

Basic layout of the page:

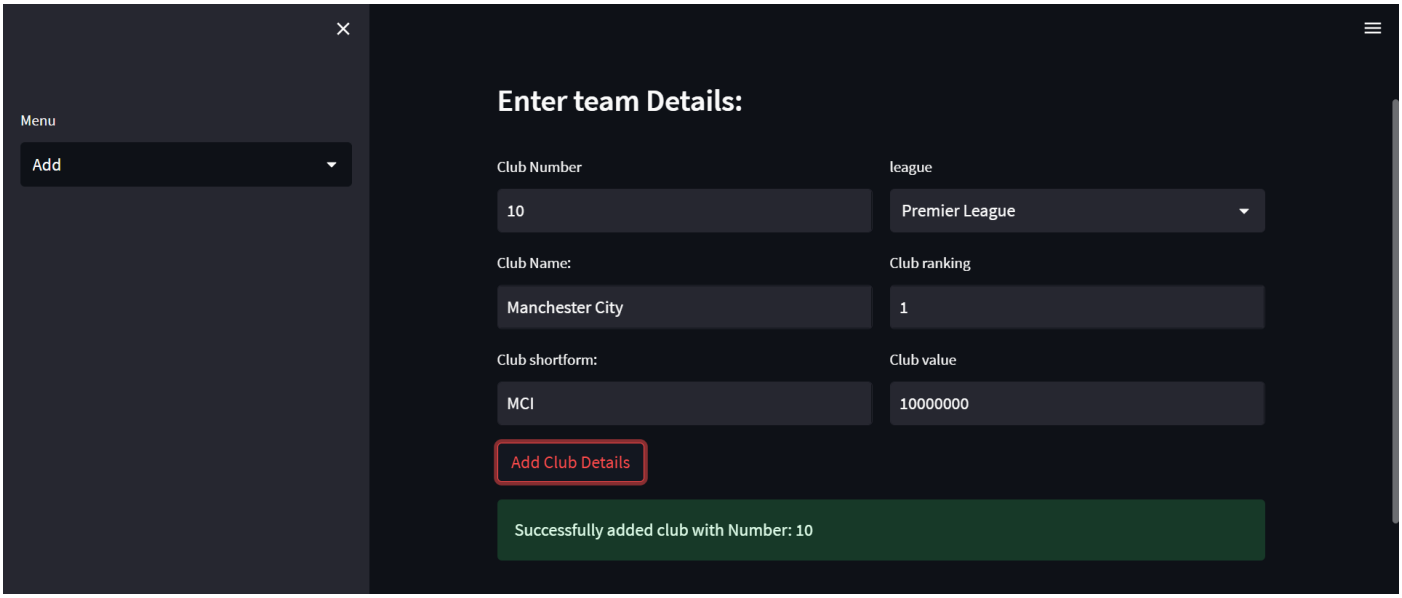


Initial values present:

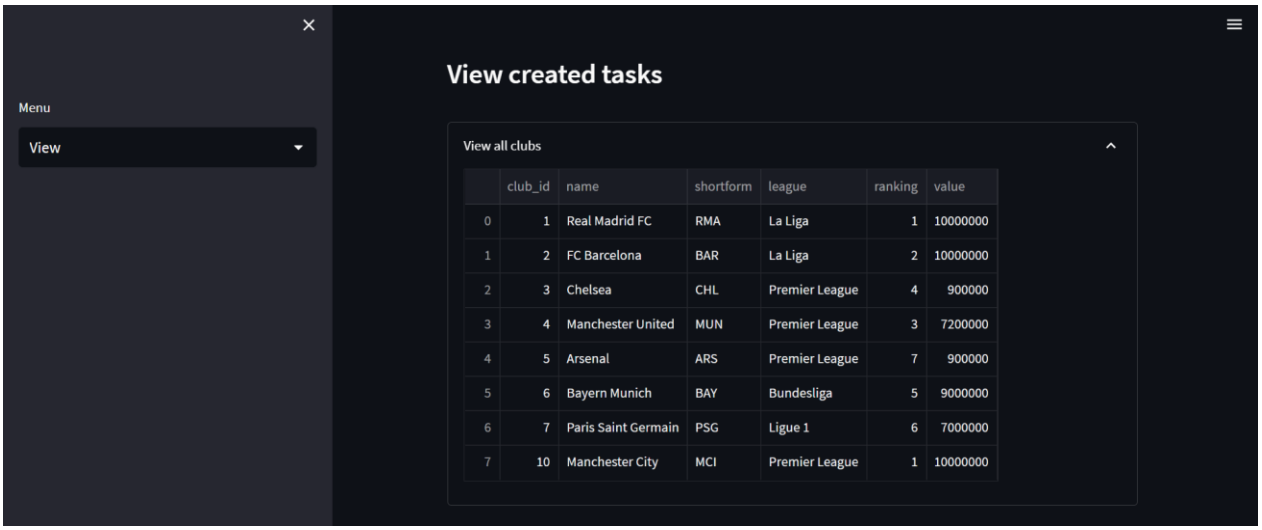


	club_id	name	shortform	league	ranking	value
0	1	Real Madrid FC	RMA	La Liga	1	10000000
1	2	FC Barcelona	BAR	La Liga	2	10000000
2	3	Chelsea	CHL	Premier League	4	900000
3	4	Manchester United	MUN	Premier League	3	7200000
4	5	Arsenal	ARS	Premier League	7	900000
5	6	Bayern Munich	BAY	Bundesliga	5	9000000
6	7	Paris Saint Germain	PSG	Ligue 1	6	7000000

Adding club data:

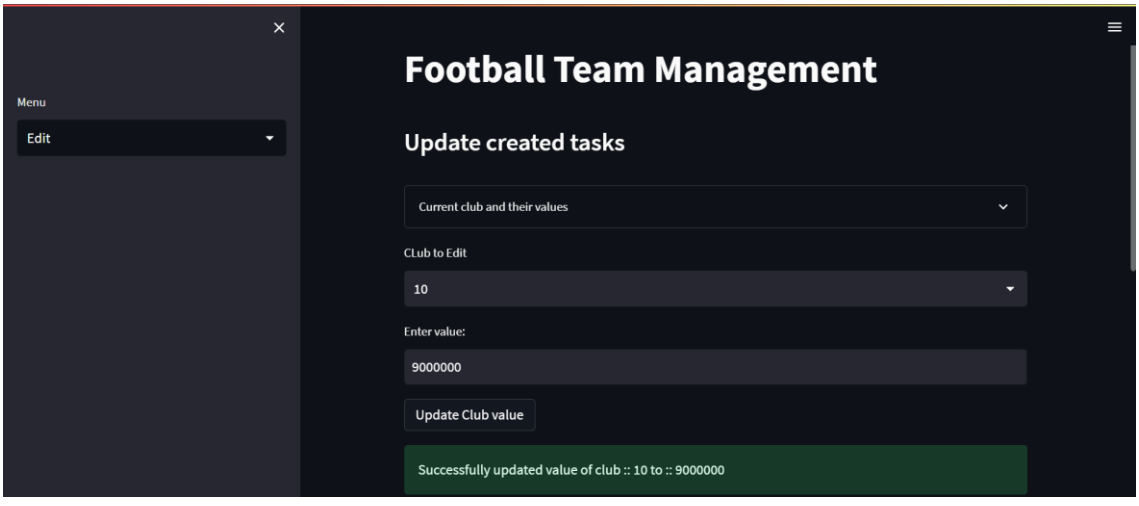


And if we view our table now

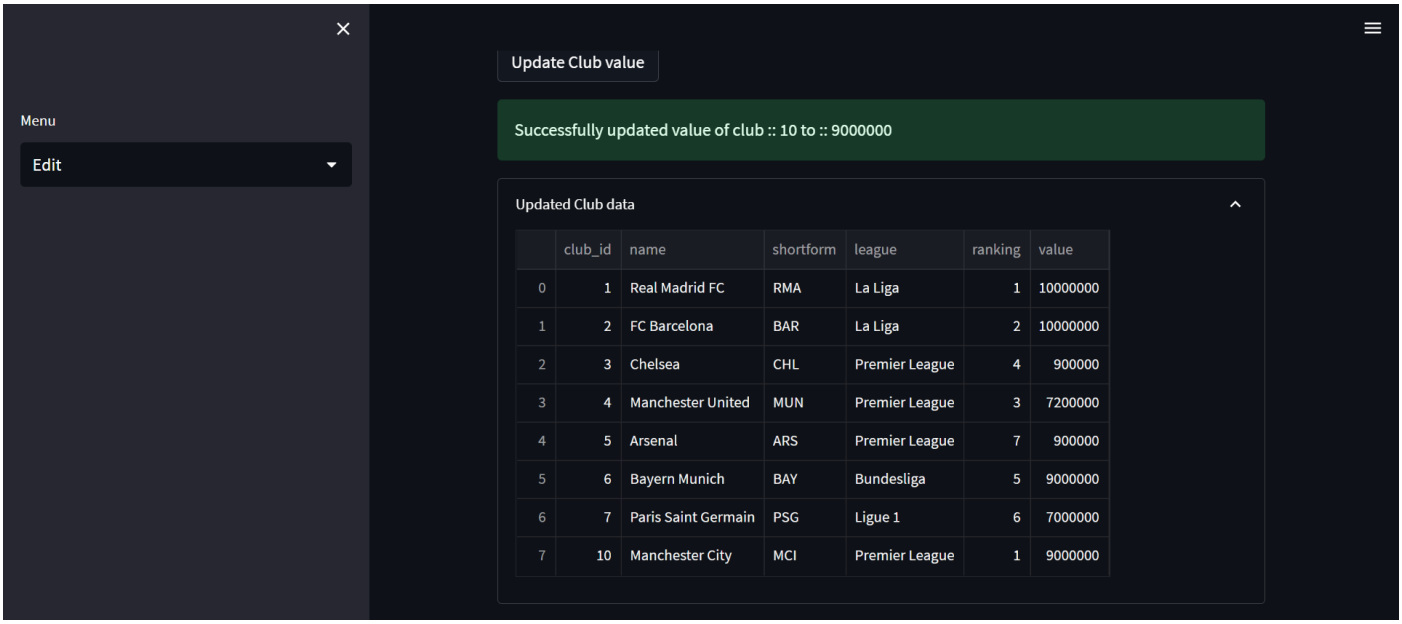


	club_id	name	shortform	league	ranking	value
0	1	Real Madrid FC	RMA	La Liga	1	10000000
1	2	FC Barcelona	BAR	La Liga	2	10000000
2	3	Chelsea	CHL	Premier League	4	900000
3	4	Manchester United	MUN	Premier League	3	7200000
4	5	Arsenal	ARS	Premier League	7	900000
5	6	Bayern Munich	BAY	Bundesliga	5	9000000
6	7	Paris Saint Germain	PSG	Ligue 1	6	7000000
7	10	Manchester City	MCI	Premier League	1	10000000

Edit table:

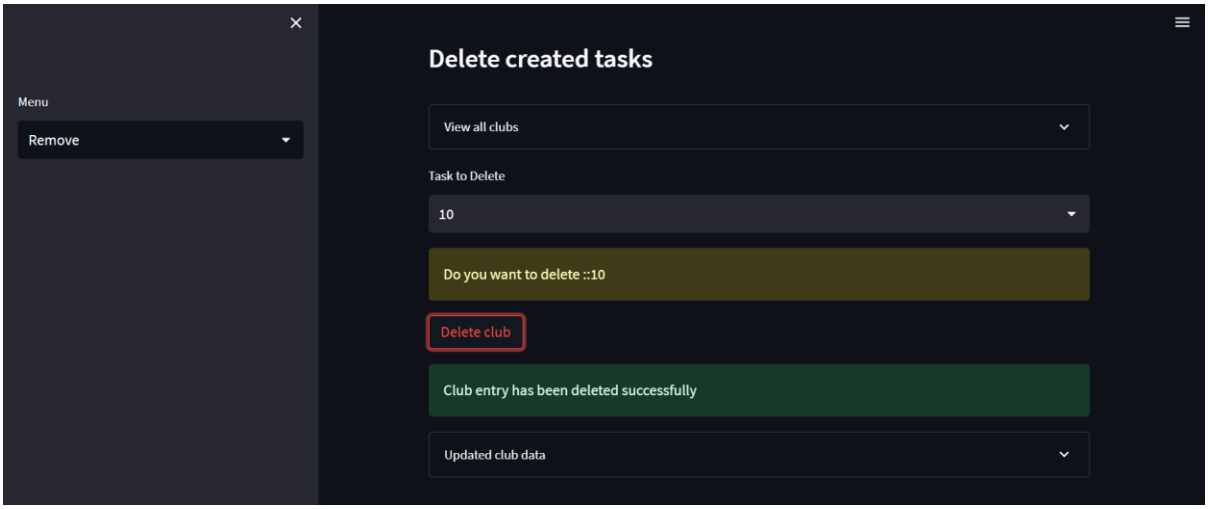


Now we view the table:



	club_id	name	shortform	league	ranking	value
0	1	Real Madrid FC	RMA	La Liga	1	10000000
1	2	FC Barcelona	BAR	La Liga	2	10000000
2	3	Chelsea	CHL	Premier League	4	900000
3	4	Manchester United	MUN	Premier League	3	7200000
4	5	Arsenal	ARS	Premier League	7	900000
5	6	Bayern Munich	BAY	Bundesliga	5	9000000
6	7	Paris Saint Germain	PSG	Ligue 1	6	7000000
7	10	Manchester City	MCI	Premier League	1	9000000

Deleting:



Now we view the table

	club_id	name	shortform	league	ranking	value
0	1	Real Madrid FC	RMA	La Liga	1	10000000
1	2	FC Barcelona	BAR	La Liga	2	10000000
2	3	Chelsea	CHL	Premier League	4	900000
3	4	Manchester United	MUN	Premier League	3	7200000
4	5	Arsenal	ARS	Premier League	7	900000
5	6	Bayern Munich	BAY	Bundesliga	5	9000000
6	7	Paris Saint Germain	PSG	Ligue 1	6	7000000