

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FIFA WORLD CUP DATABASE MANAGEMENT SYSTEM

GROUP MEMBERS

SHUBHAM SINGHA ROY(21CSB0B53)

KANISHKA RAHI(21CSB0B26)

-CSE 2ND YR(2022-2023)

PROBLEM STATEMENT:

In FIFA world cup the amount of data that we want to deal with is humongous. This database management system aims at building an efficient system to manage data tactfully.

The database contains information about players, venues, goals, matches and a lot more stuff.

This will help the FIFA committee to access various types of information and improve the quality of conduction of these games in the future. They can also keep track of the amount of resources required during the games and assess how many more will be needed.

CONTENTS:

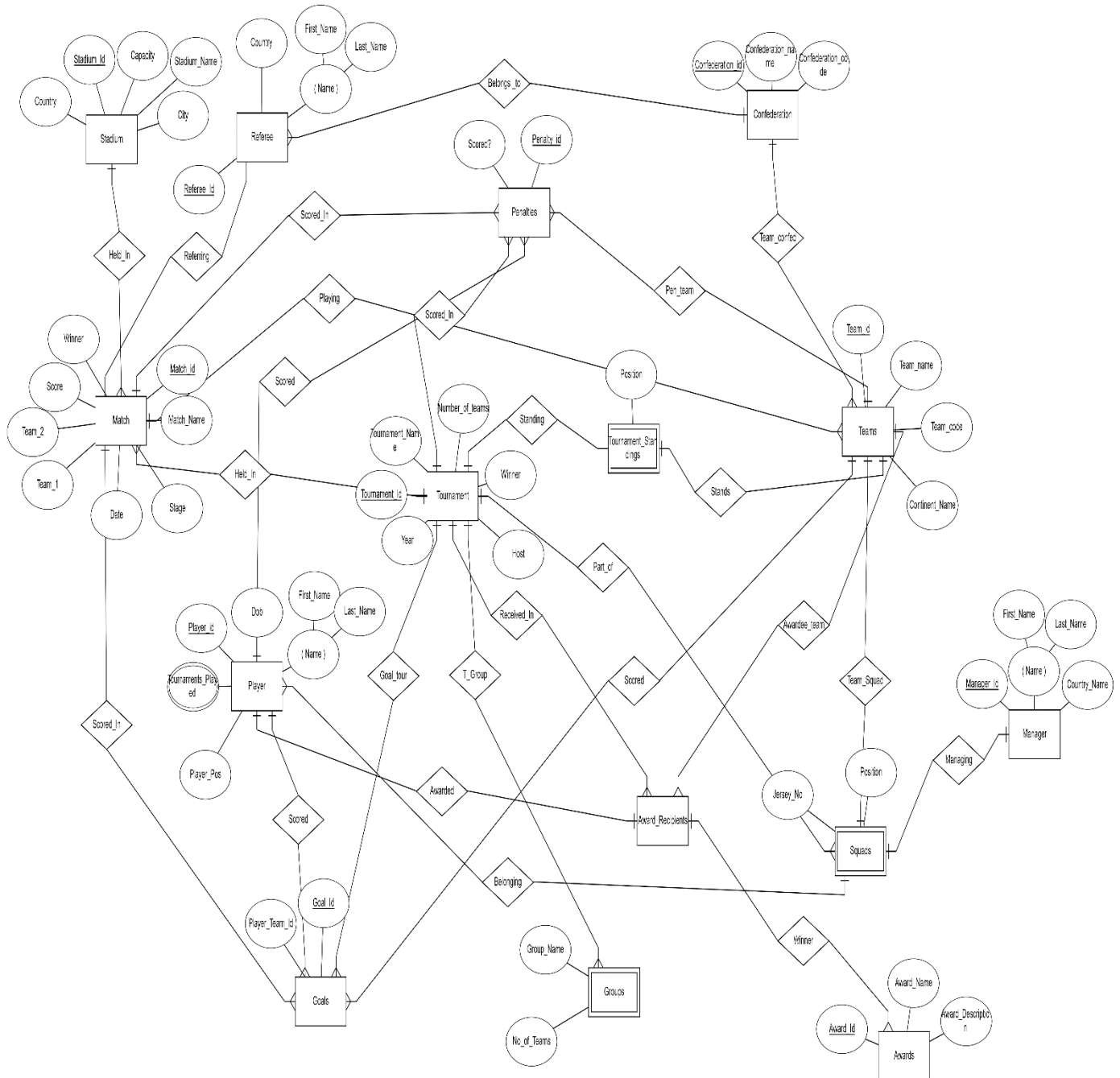
- 1) ER model assumptions
 - 2) ER Diagram
 - 3) Tables
 - 4) Functional Dependencies & Primary key
 - 5) Normalization
 - 6) Relational Schema
 - 7) SQL Code
-

1. ER MODEL ASSUMPTIONS

- i. There are two stages of the tournament which are Knockout and League stages.
- ii. Each match is officiated by only one referee.
- iii. Each country belongs to only one confederation.
- iv. Each player can be part of only one team.
- v. Each stadium can have only one match at a time.

PTO

2. ER DIAGRAM



3.TABLE STRUCTURE

TOURNAMENT

Field	Type	Null	Key	Default	Extra
tournament_id	varchar(20)	NO	PRI	NULL	
tournament_name	varchar(20)	YES		NULL	
year	int	YES		NULL	
No_teams	int	YES		NULL	
host	varchar(20)	YES		NULL	
winner	varchar(20)	YES		NULL	

CONFEDERATIONS

Field	Type	Null	Key	Default	Extra
confederation_id	varchar(20)	NO	PRI	NULL	
confederation_name	varchar(20)	YES		NULL	
confederation_code	varchar(20)	YES		NULL	

TEAMS

Field	Type	Null	Key	Default	Extra
team_id	varchar(20)	NO	PRI	NULL	
team_name	varchar(20)	YES		NULL	
team_code	varchar(20)	YES		NULL	
continent_name	varchar(20)	YES		NULL	
confederation_id	varchar(20)	NO	MUL	NULL	

PLAYERS

Field	Type	Null	Key	Default	Extra
player_id	varchar(20)	NO	PRI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
dob	date	YES		NULL	
player_pos	varchar(20)	YES		NULL	
tournaments_played	int	YES		NULL	

MANAGERS

Field	Type	Null	Key	Default	Extra
manager_id	varchar(20)	NO	PRI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
country_name	varchar(20)	YES		NULL	

REFEREES

Field	Type	Null	Key	Default	Extra
referee_id	varchar(20)	NO	PRI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
country_name	varchar(20)	YES		NULL	
confederation_id	varchar(20)	YES	MUL	NULL	

STADIUMS

Field	Type	Null	Key	Default	Extra
stadium_id	varchar(20)	NO	PRI	NULL	
stadium_name	varchar(20)	YES		NULL	
country_name	varchar(20)	YES		NULL	
stadium_capacity	int	YES		NULL	
city	varchar(20)	YES		NULL	

MATCHES

Field	Type	Null	Key	Default	Extra
tournament_id	varchar(20)	NO	MUL	NULL	
match_id	varchar(20)	NO	PRI	NULL	
match_name	varchar(20)	YES		NULL	
stage_name	varchar(20)	YES		NULL	
match_date	varchar(20)	YES		NULL	
home_team_id	varchar(20)	NO	MUL	NULL	
away_team_id	varchar(20)	NO	MUL	NULL	
score	varchar(20)	YES		NULL	
winner	varchar(20)	YES		NULL	
stadium_id	varchar(20)	NO	MUL	NULL	

AWARDS

Field	Type	Null	Key	Default	Extra
award_id	varchar(20)	NO	PRI	NULL	
award_name	varchar(20)	YES		NULL	
award_description	varchar(20)	YES		NULL	

SQUADS

Field	Type	Null	Key	Default	Extra
tournament_id	varchar(20)	NO	PRI	NULL	
team_id	varchar(20)	NO	PRI	NULL	
player_id	varchar(20)	NO	PRI	NULL	
jersey_number	int	YES		NULL	
position_name	varchar(20)	YES		NULL	

GOALS

Field	Type	Null	Key	Default	Extra
goal_id	varchar(20)	NO	PRI	NULL	
tournament_id	varchar(20)	NO	MUL	NULL	
match_id	varchar(20)	NO	MUL	NULL	
team_id	varchar(20)	NO	MUL	NULL	
player_id	varchar(20)	NO	MUL	NULL	
player_team_id	varchar(20)	NO	MUL	NULL	

AWARD RECEPIENTS

Field	Type	Null	Key	Default	Extra
tournament_id	varchar(20)	NO	PRI	NULL	
award_id	varchar(20)	NO	PRI	NULL	
player_id	varchar(20)	NO	PRI	NULL	
team_id	varchar(20)	NO	MUL	NULL	

PENALTIES

Field	Type	Null	Key	Default	Extra
penalty_kick_id	varchar(20)	NO	PRI	NULL	
tournament_id	varchar(20)	NO	MUL	NULL	
match_id	varchar(20)	NO	MUL	NULL	
team_id	varchar(20)	NO	MUL	NULL	
player_id	varchar(20)	NO	MUL	NULL	

GROOUPS

Field	Type	Null	Key	Default	Extra
tournament_id	varchar(20)	NO	PRI	NULL	
group_name	varchar(20)	NO	PRI	NULL	
no_teams	int	YES		NULL	

TOURNAMENT STANDINGS

Field	Type	Null	Key	Default	Extra
tournament_id	varchar(20)	NO	PRI	NULL	
position	int	NO	PRI	NULL	
team_id	varchar(20)	NO	MUL	NULL	

4.FUNCTIONAL DEPENDENCIES AND PRIMARY KEY

TOURNAMENT

Tournament_Id -> {Tournament_Id, Tournament_name, Year, Number_Of_Teams, Host, Winner}

Since all the fields depend on Tournament_Id, (Tournament_Id) + -> R. Hence, Tournament_Id is Primary Key.

CONFEDERATIONS

Confederation_Id -> {Confederation_Id, Confederation_name, Confederation_code }

Since all the fields depend on , Confederation_Id, , Confederation_Id) + -> R. Hence, Confederation_Id is Primary Key.

TEAMS

Teams_Id -> { Teams_Id, Teams_name, Teams_code, Continent_name, Confederation_id}

Since all the fields depend on Teams_Id, (Teams_Id) + -> R. Hence, Teams_Id is Primary Key.

PLAYERS

Player_Id -> { Player_Id, First_name, Last_name, DOB, Player_pos, Tournaments_played}

Since all the fields depend on Player_Id, (Player_Id) + -> R. Hence, Player_Id is Primary Key.

MANAGERS

Manager_Id -> { Manager_Id, First_name, Last_name, Country_name}

Since all the fields depend on Manager_Id, (Manager_Id) + -> R. Hence, Manager_Id is Primary Key.

REFEREES

Referee_Id -> { Referee_Id, First_name, Last_name, Country_name, Confederation_id}

Since all the fields depend on Referee_Id, (Referee_Id) + -> R. Hence, Referee_Id is Primary Key.

STADIUMS

Stadium_Id -> { Stadium_Id, Name, Country, Capacity, City }

Since all the fields depend on Stadium_Id, (Stadium_Id) + -> R. Hence, Stadium_Id is Primary Key.

MATCHES

Match_Id -> { Match_Id, Match_Name, Stage, Date, Score, Winner, Team_1, Team2, Tournament_id, Stadium_id }

Since all the fields depend on Match_Id, (Match_Id) + -> R. Hence, Match_Id is Primary Key.

AWARDS

Award_Id -> { Award_Id, Award_name, Award_Description }

Since all the fields depend on Award_Id, (Award_Id) + -> R. Hence, Award_Id is Primary Key.

SQUADS

{ Tournament_id, Team_id, Player_id } -> { Tournament_id, Team_id, Player_id, Jersey_no, Position, Manager_id } Since all the fields depend on { Tournament_id, Team_id, Player_id }, { Tournament_id, Team_id, Player_id } + -> R. Hence, { Tournament_id, Team_id, Player_id } is Primary Key

GOALS

Goal_Id -> { Goal_Id, Player_team_id, Tournament_id, Team_id, Match_id, Player_id }

Since all the fields depend on Goal_Id, (Goal_Id) + -> R. Hence,

AWARD RECIPIENTS

Award_Id -> { Award_Id, Tournament_id, Player_id, Team_id }

Since all the fields depend on Award_Id, (Award_Id) \rightarrow R. Hence, Award_Id is Primary Key.

PENALTIES

Penalty_id \rightarrow { Penalty_id, Scored,
Player_id, Team_id, Tournament_id, Match_id }

Since all the fields depend on Penalty_id, (Penalty_id) \rightarrow R. Hence, Penalty_id is Primary Key.

GROOUPS

{ Tournament_id, Group_name } \rightarrow {
Tournament_id, Group_name, no_of_teams}
Since all the fields depend on { Tournament_id, Group_name }, {
Tournament_id, Group_name } \rightarrow R. Hence, {
Tournament_id, Group_name } is Primary Key

TOURNAMENT STANDINGS

{ Tournament_id, Position } \rightarrow { Tournament_id, Position, Team_id }
Since all the fields depend on { Tournament_id, Position }, {
Tournament_id, Position } \rightarrow R. Hence, { Tournament_id, Position } is
Primary Key

5.NORMALISATION

TOURNAMENT

PRIMARY KEY:-TOURNAMENT_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

CONFEDERATIONS

PRIMARY KEY:- CONFEDERATION_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

TEAMS

PRIMARY KEY:-TEAM_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

PLAYERS

PRIMARY KEY:-PLAYER_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

MANAGERS

PRIMARY KEY:-MANAGER_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

REFEREES

PRIMARY KEY:-REFEREE_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

STADIUMS

PRIMARY KEY:-STADIUM_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

MATCHES

PRIMARY KEY:-MATCH_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

AWARDS

PRIMARY KEY:-AWARD_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

SQUADS

PRIMARY KEY:-TOURNAMENT_ID,TEAM_ID,PLAYER_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.

THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.

ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

GOALS

PRIMARY KEY:-GOAL_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.
THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.
ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

AWARD RECEPIENTS

PRIMARY KEY:-AWARD_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.
THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.
ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

PENALTIES

PRIMARY KEY:-PENALTY_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.
THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.
ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

GROOUPS

PRIMARY KEY:-TOURNAMENT_ID, GROUP_NAME

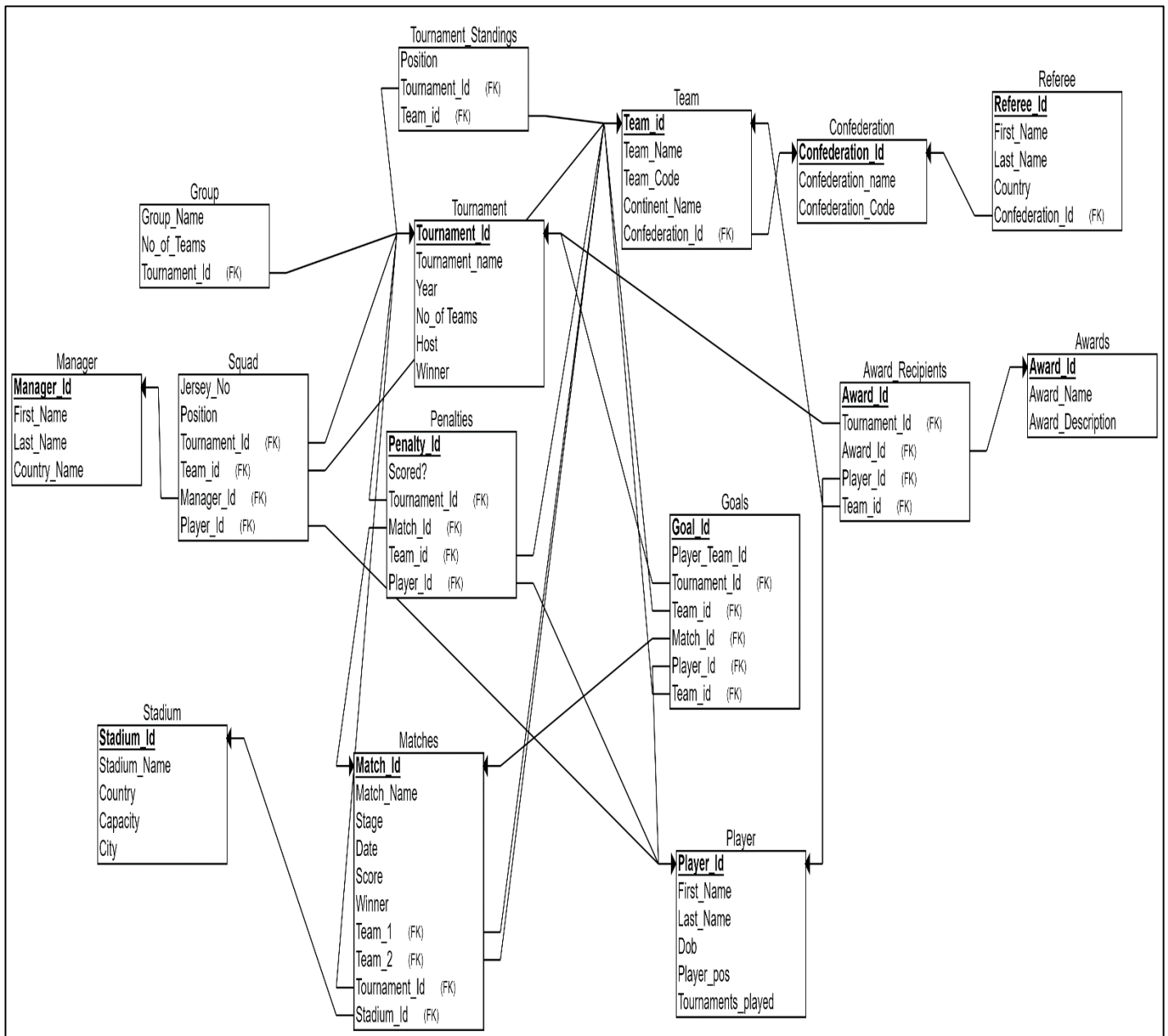
THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.
THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.
ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

TOURNAMENT STANDINGS

PRIMARY KEY:-TOURNAMENT_ID

THERE IS NO PARTIAL DEPENDENCY THEREFORE THE TABLE IS IN 2NF.
THERE IS NO TRANSITIVE DEPENDENCY THEREFORE THE TABLE IS IN 3NF.
ALL DEPENDENCIES ARE FROM CANDIDATE KEY THEREFORE THE TABLE IS BCNF.

6.RELATIONAL SCHEMA



7. SQL CODE

TABLE CREATION:-

```
CREATE DATABASE FIFA;
USE FIFA;
CREATE TABLE tournament(
    tournament_id VARCHAR(20) NOT NULL,
    tournament_name VARCHAR(20),
    year INTEGER,
    No_teams INTEGER,
    host VARCHAR(20),
    winner VARCHAR(20),
    PRIMARY KEY (tournament_id)
);
CREATE TABLE confederations(
    confederation_id VARCHAR(20) NOT NULL,
    confederation_name VARCHAR(20),
    confederation_code VARCHAR(20),
    PRIMARY KEY (confederation_id)
);
CREATE TABLE teams(
    team_id VARCHAR(20) NOT NULL,
    team_name VARCHAR(20),
    team_code VARCHAR(20),
    continent_name VARCHAR(20),
    confederation_id VARCHAR(20) NOT NULL,
    PRIMARY KEY (team_id),
    FOREIGN KEY (confederation_id) REFERENCES confederations
(confederation_id)
);
CREATE TABLE players(
    player_id VARCHAR(20) NOT NULL,
    first_name VARCHAR(20),
    last_name VARCHAR(20),
    dob DATE,
    player_pos VARCHAR(20),
    tournaments_played INTEGER,
```

```
PRIMARY KEY (player_id)
);
CREATE TABLE managers(
  manager_id VARCHAR(20) NOT NULL,
  first_name VARCHAR(20),
  last_name VARCHAR(20),
  country_name VARCHAR(20),
  PRIMARY KEY (manager_id)
);
CREATE TABLE referees(
  referee_id VARCHAR(20) NOT NULL,
  first_name VARCHAR(20),
  last_name VARCHAR(20),
  country_name VARCHAR(20),
  confederation_id VARCHAR(20),
  PRIMARY KEY (referee_id),
  FOREIGN KEY (confederation_id) REFERENCES confederations
(confederation_id)
);

CREATE TABLE stadiums(
  stadium_id VARCHAR(20) NOT NULL,
  stadium_name VARCHAR(20),
  country_name VARCHAR(20),
  stadium_capacity INTEGER,
  city VARCHAR(20),
  PRIMARY KEY (stadium_id)
);

CREATE TABLE matches(
  tournament_id VARCHAR(20) NOT NULL,
  match_id VARCHAR(20) NOT NULL,
  match_name VARCHAR(20),
  stage_name VARCHAR(20),
  match_date VARCHAR(20),
  home_team_id VARCHAR(20) NOT NULL,
  away_team_id VARCHAR(20) NOT NULL,
```

```
score VARCHAR(20),
winner VARCHAR(20),
stadium_id VARCHAR(20) NOT NULL,
PRIMARY KEY (match_id),
FOREIGN KEY (tournament_id) REFERENCES tournament
(tournament_id),
FOREIGN KEY (stadium_id) REFERENCES stadiums (stadium_id),
FOREIGN KEY (home_team_id) REFERENCES teams (team_id),
FOREIGN KEY (away_team_id) REFERENCES teams (team_id)
);
CREATE TABLE awards(
award_id VARCHAR(20) NOT NULL,
award_name VARCHAR(20),
award_description VARCHAR(20),
PRIMARY KEY (award_id)
);
CREATE TABLE squads(
tournament_id VARCHAR(20) NOT NULL,
team_id VARCHAR(20) NOT NULL,
player_id VARCHAR(20) NOT NULL,
jersey_number INTEGER,
position_name VARCHAR(20),
PRIMARY KEY (tournament_id, team_id, player_id),
FOREIGN KEY (tournament_id) REFERENCES tournament
(tournament_id),
FOREIGN KEY (team_id) REFERENCES teams (team_id),
FOREIGN KEY (player_id) REFERENCES players (player_id)
);
CREATE TABLE penalties(
penalty_kick_id VARCHAR(20) NOT NULL,
scored BOOLEAN,
tournament_id VARCHAR(20) NOT NULL,
match_id VARCHAR(20) NOT NULL,
team_id VARCHAR(20) NOT NULL,
player_id VARCHAR(20) NOT NULL,
PRIMARY KEY (penalty_kick_id),
```



```

FOREIGN KEY (tournament_id) REFERENCES tournament
(tournament_id),
FOREIGN KEY (match_id) REFERENCES matches (match_id),
FOREIGN KEY (team_id) REFERENCES teams (team_id),
FOREIGN KEY (player_id) REFERENCES players (player_id)
);
CREATE TABLE goals(
goal_id VARCHAR(20) NOT NULL,
tournament_id VARCHAR(20) NOT NULL,
match_id VARCHAR(20) NOT NULL,
team_id VARCHAR(20) NOT NULL,
player_id VARCHAR(20) NOT NULL,
player_team_id VARCHAR(20) NOT NULL,
PRIMARY KEY (goal_id),
FOREIGN KEY (tournament_id) REFERENCES tournament
(tournament_id),
FOREIGN KEY (match_id) REFERENCES matches (match_id),
FOREIGN KEY (team_id) REFERENCES teams (team_id),
FOREIGN KEY (player_id) REFERENCES players (player_id),
FOREIGN KEY (player_team_id) REFERENCES teams (team_id)
);
CREATE TABLE Groups(
tournament_id VARCHAR(20) NOT NULL,
group_name VARCHAR(20),
no_teams INTEGER,
PRIMARY KEY (tournament_id, group_name),
FOREIGN KEY (tournament_id) REFERENCES tournament
(tournament_id)
);
CREATE TABLE award_recipients(
tournament_id VARCHAR(20) NOT NULL,
award_id VARCHAR(20) NOT NULL,
player_id VARCHAR(20) NOT NULL,
team_id VARCHAR(20) NOT NULL,
PRIMARY KEY (tournament_id, award_id, player_id),
FOREIGN KEY (tournament_id) REFERENCES tournament
(tournament_id),

```

```
FOREIGN KEY (award_id) REFERENCES awards (award_id),
FOREIGN KEY (player_id) REFERENCES players (player_id),
FOREIGN KEY (team_id) REFERENCES teams (team_id)
);
CREATE TABLE tournament_standings(
    tournament_id VARCHAR(20) NOT NULL,
    position INTEGER,
    team_id VARCHAR(20) NOT NULL,
    PRIMARY KEY (tournament_id, position),
    FOREIGN KEY (tournament_id) REFERENCES tournament
(tournament_id),
    FOREIGN KEY (team_id) REFERENCES teams (team_id)
);
```

TABLE INSERTION:-

1.TOURNAMENT

```
INSERT INTO tournament VALUES ('WC-2010','2010 FIFA World
Cup',2010,32,'South Africa','Spain');
INSERT INTO tournament VALUES ('WC-1994','1994 FIFA World
Cup',1994,24,'United States','Brazil');
INSERT INTO tournament VALUES ('WC-2014','2014 FIFA World
Cup',2014,32,'Brazil','Germany');
INSERT INTO tournament VALUES ('WC-2018','2018 FIFA World
Cup',2018,32,'Russia','France');
INSERT INTO tournament VALUES ('WC-2022','2022 FIFA World
Cup',2022,32,'Qatar','Argentina');
```

2.CONFEDERATIONS

```
INSERT INTO confederations VALUES ('CF-1','Asian Football
Confederation','AFC');
INSERT INTO confederations VALUES ('CF-2','Confederation of African
Football','CAF');
INSERT INTO confederations VALUES ('CF-3','Confederation of North',
'Central American and Caribbean Association Football','CONCACAF');
INSERT INTO confederations VALUES ('CF-4','South American Football
Confederation','CONMEBOL');
INSERT INTO confederations VALUES ('CF-5','Oceania Football
Confederation','OFC');
```

INSERT INTO confederations VALUES ('CF-6','Union of European Football Associations','UEFA');

3.TEAMS

INSERT INTO teams VALUES('T-01','Argentina','ARG','South America','CF-4');

INSERT INTO teams VALUES('T-02','Germany','GER','Europe','CF-6');

INSERT INTO teams VALUES('T-03','Brazil','BRA','South America','CF-4');

INSERT INTO teams VALUES('T-04','Spain','ESP','Europe','CF-6');

INSERT INTO teams VALUES('T-05','Croatia','CRO','Europe','CF-6');

INSERT INTO teams VALUES('T-06','South Korea','KOR','Asia','CF-1');

INSERT INTO teams VALUES('T-07','France','FRA','Europe','CF-6');

INSERT INTO teams VALUES('T-08','Denmark','DEN','Europe','CF-6');

4.PLAYERS

INSERT INTO players VALUES('P-1','Lionel','Messi','1987-06-24','ATK',5);

INSERT INTO players VALUES('P-2','Luka','Modric','1985-09-09','MID',4);

INSERT INTO players VALUES('P-3','Heung','Son','1992-08-08','ATK',2);

INSERT INTO players VALUES('P-4','Toni','Kroos','1990-01-04','ATK',3);

INSERT INTO players VALUES('P-5','Vinicius','Jr','2000-07-12','ATK',1);

INSERT INTO players VALUES('P-6','Dani','Alves','1983-05-06','DEF',3);

INSERT INTO players VALUES('P-7','Pedri','Gonzalez','2002-11-25','MID',1);

INSERT INTO players VALUES('P-8','Pablo','Gavi','2004-08-05','MID',1);

INSERT INTO players VALUES('P-9','Angel','DiMaria','1988-02-14','ATK',4);

INSERT INTO players VALUES('P-10','Kylian','Mbappe','1988-12-20','ATK',2);

5. MANAGERS

INSERT INTO managers VALUES('M-1','Louis','Enrique','Spain');

INSERT INTO managers VALUES('M-2','Lionel','Scaloni','Argentina');

INSERT INTO managers VALUES('M-3','Adenor','Bachhi','Brazil');

INSERT INTO managers VALUES('M-4','Didier','Deschamps','France');

INSERT INTO managers VALUES('M-5','Joachim','Low','Germany');

6.REFEREES

INSERT INTO referees VALUES('R-1','Felix','Brych','Germany','CF-6');

INSERT INTO referees VALUES('R-2','Cuneyt','Sakir','Turkey','CF-1');

INSERT INTO referees VALUES('R-3','Bjorn','Kuipers','Netherlands','CF-6');

INSERT INTO referees VALUES('R-4','Daniele','Orsato','Italy','CF-6');

INSERT INTO referees VALUES('R-5','Mark','Geiger','America','CF-3');

7.STADIUMS

```
INSERT INTO stadiums VALUES('S-1','Estadio
Monumental','Argentina',75000);
INSERT INTO stadiums VALUES('S-2','Estádio do
Maracanã','Brazil',200000);
INSERT INTO stadiums VALUES('S-3','Parc des Princes','France',49000);
INSERT INTO stadiums VALUES('S-4','Waldstadion','Germany',62000);
INSERT INTO stadiums VALUES('S-5','Daegu World Cup Stadium','South
Korea',68000);
```

8.MATCHES

```
INSERT INTO matches VALUES('WC-2010','MA-1','France vs
Croatia','Group','2010-07-14','FRA','CRO','1-0','FRA','S-2');
INSERT INTO matches VALUES('WC-2022','MA-2','France vs
Argentina','Knockout','2022-12-18','FRA','ARG','3-3','ARG','S-3');
INSERT INTO matches VALUES('WC-2022','MA-3','South Korea vs
Croatia','Group','2022-12-08','KOR','CRO','2-0','KOR','S-1');
INSERT INTO matches VALUES('WC-2014','MA-4','Germany vs
Brazil','Group','2014-09-12','GER','BRA','7-1','GER','S-5');
INSERT INTO matches VALUES('WC-2022','MA-5','South Korea vs
Spain','Group','2022-11-20','KOR','ESP','1-2','ESP','S-4');
INSERT INTO matches VALUES('WC-2014','MA-6','Spain vs
France','Group','2014-07-14','ESP','FRA','1-3','FRA','S-3');
INSERT INTO matches VALUES('WC-2018','MA-7','Netherlands vs
Argentina','Knockout','2018-08-14','NED','ARG','0-1','ARG','S-2');
INSERT INTO matches VALUES('WC-2018','MA-8','Denmark vs
Croatia','Group','2018-07-16','DEN','CRO','1-1','draw','S-2');
INSERT INTO matches VALUES('WC-2018','MA-9','France vs
Spain','Knockout','2018-08-14','FRA','ESP','2-3','ESP','S-1');
INSERT INTO matches VALUES('WC-1994','MA-10','Argentina vs
Croatia','Knockout','1994-06-14','ARG','CRO','1-0','ARG','S-5');
INSERT INTO matches VALUES('WC-2014','MA-11','South Korea vs
Netherlands','Group','2014-07-17','KOR','NED','1-0','KOR','S-4');
INSERT INTO matches VALUES('WC-2022','MA-12','Brazil vs
Argentina','Group','2022-08-15','BRA','ARG','1-2','ARG','S-1');
INSERT INTO matches VALUES('WC-2010','MA-13','Spain vs
Netherlands','Knockout','2010-09-10','ESP','NED','1-0','ESP','S-2');
```

INSERT INTO matches VALUES('WC-2018','MA-14','Germany vs France','Knockout','2018-06-20','GERM','FRA','0-3','FRA','S-4');

9.AWARDS

INSERT INTO awards VALUES('A-1','Golden Ball','Best Player');

INSERT INTO awards VALUES('A-2','Golden Gloves','Best Goalkeeper');

INSERT INTO awards VALUES('A-3','Golden Boot','Best Goalscorer');

INSERT INTO awards VALUES('A-4','Young Player','Best Young Player');

10.SQUADS

INSERT INTO squads VALUES('WC-2018','T-1','P-1',10,'ATK');

INSERT INTO squads VALUES('WC-2018','T-1','P-2',08,'MID');

INSERT INTO squads VALUES('WC-2018','T-1','P-3',02,'DEF');

INSERT INTO squads VALUES('WC-2022','T-2','P-4',10,'ATK');

INSERT INTO squads VALUES('WC-2022','T-2','P-5',09,'ATK');

INSERT INTO squads VALUES('WC-2022','T-3','P-6',04,'DEF');

INSERT INTO squads VALUES('WC-2022','T-4','P-7',10,'ATK');

INSERT INTO squads VALUES('WC-2018','T-1','P-8',11,'ATK');

INSERT INTO squads VALUES('WC-2018','T-1','P-9',08,'MID');

11.PENALTIES

INSERT INTO penalties VALUES('PEN-1',YES,'WC-2022','MA-2','T-1','P-2');

INSERT INTO penalties VALUES('PEN-2',YES,'WC-2018','MA-8','T-3','P-5');

INSERT INTO penalties VALUES('PEN-3',YES,'WC-2014','MA-11','T-9','P-8');

12.GOALS

INSERT INTO goals VALUES('GO-1','WC-2014','M-1','T-2','P-1','T-2');

INSERT INTO goals VALUES('GO-2','WC-2018','M-2','T-2','P-3','T-2');

INSERT INTO goals VALUES('GO-3','WC-2022','M-8','T-3','P-6','T-3');

INSERT INTO goals VALUES('GO-4','WC-2022','M-3','T-5','P-9','T-5');

INSERT INTO goals VALUES('GO-5','WC-2022','M-6','T-3','P-8','T-3');

INSERT INTO goals VALUES('GO-6','WC-2014','M-7','T-1','P-8','T-1');

INSERT INTO goals VALUES('GO-7','WC-2018','M-6','T-2','P-2','T-2');

13.GROUPS

INSERT INTO Groups VALUES('WC-2010','GR-1',4);

INSERT INTO Groups VALUES('WC-2018','GR-2',4);

INSERT INTO Groups VALUES('WC-2018','GR-3',4);

INSERT INTO Groups VALUES('WC-2022','GR-5',4);

INSERT INTO Groups VALUES('WC-2022','GR-6',4);

14.AWARD_RECIPIENTS

```
INSERT INTO award_recipients VALUES('WC-2010','A-1','P-2','T-3');  
INSERT INTO award_recipients VALUES('WC-2010','A-2','P-6','T-4');  
INSERT INTO award_recipients VALUES('WC-2010','A-3','P-1','T-5');  
INSERT INTO award_recipients VALUES('WC-2022','A-1','P-2','T-3');  
INSERT INTO award_recipients VALUES('WC-2022','A-2','P-3','T-3');  
INSERT INTO award_recipients VALUES('WC-2022','A-3','P-8','T-1');  
INSERT INTO award_recipients VALUES('WC-2022','A-4','P-9','T-3');
```

15.TOURNAMENT_STANDINGS

```
INSERT INTO tournament_standings VALUES('WC-2018',1,'T-5');  
INSERT INTO tournament_standings VALUES('WC-2018',2,'T-2');  
INSERT INTO tournament_standings VALUES('WC-2022',1,'T-3');  
INSERT INTO tournament_standings VALUES('WC-2022',2,'T-1');  
INSERT INTO tournament_standings VALUES('WC-2022',3,'T-4');
```

THANK YOU