FOOTBALL MANAGEMENT DATABASE SYSTEM

We need a database which can show the database of football, which can show us the date of the match. Where the match is going to play and what are the name teams who are going to play. We could also find sponsor name of company who is sponsoring this match. Or we could find the coach name which he works for and which players he is coaching in which championship. Etc.

- ✓ COACH table have the data of coach which is connected to team by relation table works for. Works for table have foreign keys of TEAM and COACH.
- ✓ COACH is also connect to PLAYER with relation table COACHES, COACHES having foreign keys of player and COACH.
- ✓ PLAYER is connect with TEAM table with relation table of PLAYS FOR and PLAYER with CHAMPIONSHIP table with relation table PLAYS IN. it is also connect with MATCH table with relation of scores .
- ✓ TEAM table is connect with MATCH table with relation of PLAY table. IN table PLAY we have two foreign keys of TEAM because two teams plays a match.
- ✓ MATCH table is connected with championship and stadium directly and connect with COMPANY table with relation of SPONSER BY
- ✓ STADIUM TABLE is connect with audience with relation of contains

SO from above tables we can retrieve any kind of data like name of coach, audience name, and player name at a time from table.

This database contain 16 tables, some are entities while some are relation. Which have different user and with different privileges, some may just select the table mean they can only see the data they cannot change or update the data.

They there two type of role can is editor and other one is viewer. And editor only can edit and select while viewer can only see the data.

USERS:

Create user emp1 identified by 1111;

Grant create session to emp1;

Grant insert any table to emp1;

Create user edtr1 identified by 1111;

Grant insert any table to edtr1;

Create user emp2 identified by 1111;

Grant create session to emp2;

Create user emp3 identified by 1111;

Grant create session to emp3;

Create user edtr2 identified by 1111;

Grant create session to edtr2;

Create user edtr3 identified by 1111;

Grant create session to edtr3;

ROLE:

CREATE ROLE viewer;

GRANT select on any table to clerks;

Or

GRANT Select on system.audience, system.stadium, system.match, system.player, system.COACH;

Grant viewer to emp2, emp3;

CREATE ROLE editor;

GRANT Select, update, delete on system.audience, system.stadium, system.match, system.player, system.COACH;

Grant editor to emp2, emp3;

VIEWS:

```
CREATE VIEW v1 AS
SELECT c_name
FROM COACH;
```

Select * from v1;

```
CREATE VIEW v2 AS
SELECT p_name
FROM player;
```

Select * from v2;

TRIGER:

```
CREATE TRIGGER tg1

BEFORE

FOR each row

BEGIN

INSERT into player values (:old.p_id,:p_name);

END;

/

CREATE TRIGGER tg1
```

```
BEFORE

FOR each row

BEGIN

INSERT into player values (:old.p_id,:p_name);

END;

/
```

```
CREATE TRIGGER PERSON_UPDATE_S_BEFORE

BEFORE UPDATE ON Player

 BEGIN

DBMS_OUTPUT.PUT_LINE ('BEFORE UPDATING SOME
PERSON(S)',||:NEW.P_NAME ,:OLD.P_Name);

END; /
```

Tabales :

Table : Audience

```
create audience( au_id int NOT NULL PRIMARY KEY ,  au_name
varchar(20) NOT NULL, steat_no int NOT NULL UNIQUE, Gender char(1));

insert into audience values(5001,'Aafa',20,'M');

insert into audience values(5002,'Afak',25,'M');

insert into audience values(5003,'Aakil',27,'M');

insert into audience values(5004,'Aafa',29,'F');

insert into audience values(5005,'Aaina',30,'F');
```

insert into audience values(5006,'Aaisha',31,'F');

insert into audience values(5007,'Aaila',35,'F');

insert into audience values(5008,'Aakifa',38,'F');

insert into audience values(5009,'Abida',39,'F');

insert into audience values(5010,'Aani',34,'F');

insert into audience values(5011,'Abal',40,'M');

insert into audience values(5012,'Ali',41,'M');

insert into audience values(5013,'Ghulam',42,'M');

insert into audience values(5014,'Abdul',43,'M');

insert into audience values(5015,'Abal',44,'M');

Table : championship

create table championship(chm_id varchar(10) NOT NULL PRIMARY KEY , chm_name varchar(30) NOT NULL, no_of_matches int NOT NULL);

insert into championship values('BLA ','Balochistan league',20);

insert into championship values('PJB','Punjab league',25);

insert into championship values('KPK','khaber pakhtunkhwa league',27);

insert into championship values('SHD','Sinhd league',29);

insert into championship values('GIG','Gilgit Baldistan League',30);

insert into championship values('KSH','Azad khashmir league ',31);

insert into championship values('ISM','Islamabad league',35);

insert into championship values('KAR','Karachi league',38);

insert into championship values('LAH','Lahore league',39);

insert into championship values('QTA','Quetta league',34);

insert into championship values('PWR','Peshawar league',40);

insert into championship values('HZA','Hunza league',41);

insert into championship values('MAZ','Muzafirabad league',42);

insert into championship values('ALH','All hazara league',43);

insert into championship values('APL','All pakistan league',47);

Table : coach

reate table coach(C_id int NOT NULL PRIMARY KEY , C_name varchar(20) NOT NULL, C_Age int NOT NULL, C_club_Name varchar(20));

insert into coach values(2001,'Eddie Howe',42,'AFC Bournemouth');

insert into coach values(2002,'Arsène Wenger',25,'Arsenal');

insert into coach values(2003,'Eric Black',27,'Aston Villa');

insert into coach values(2004,'Guus Hiddink',29,'Chelsea');

insert into coach values(2005,'Alan Pardew',30,'Crystal Palace');

insert into coach values(2006,'Roberto Martinez',31,'Everton');

insert into coach values(2007,'Claudio Ranieri',35,'Leicester City');

insert into coach values(2008,'Jürgen Klopp',38,'Liverpool');

insert into coach values(2009,'Manuel Pellegrini',49,'Manchester City');

insert into coach values(2010,'Louis van Gaal',44,'Manchester United');

insert into coach values(2011,'Rafael Benitez',40,'Newcastle United');

insert into coach values(2012,'Alex Neil',41,'Norwich City');

insert into coach values(2013,'Ronald Koeman',42,'Southampton');

insert into coach values(2014,'Mark Hughes',43,'Stoke City');

insert into coach values(2015,'Sam Allardyce',44,'Sunderland');

Table : coaches

CREATE TABLE coaches(chs_id int PRIMARY KEY, C_id int CONSTRAINT fo3 REFERENCES coach(C_id) NOT NULL , P_id int CONSTRAINT fo4 REFERENCES player(P_id) NOT NULL);

insert into coaches values(1101,2001,9001);

insert into coaches   values(1102,2002,9002);

insert into coaches   values(1103,2003,9003);

insert into coaches values(1104,2006,9004);

insert into coaches   values(1105,2008,9005);

insert into coaches   values(1106,2012,9006);

insert into coaches   values(1107,2010,9007);

insert into coaches   values(1108,2014,9008);

insert into coaches   values(1109,2008,9009);

insert into coaches   values(1111,2010,9011);

insert into coaches   values(1112,2012,9012);

insert into coaches   values(1114,2002,9004);

insert into coaches   values(11115,2001,9005);

insert into coaches   values(1113,2008,9001);

insert into coaches   values(1110,2012,9011);

Table : company

create table company(Cp_id int NOT NULL PRIMARY KEY , Cp_name varchar(20) NOT NULL, Cp_sponsers int NOT NULL);

insert into company values(2001,'Wal-Mart Stores',482);

insert into company values(2002,'ExxonMobil',268);

insert into company values(2003,'Vitol',270);

insert into company values(2004,'Apple',234);

insert into company values(2005,'Toyota',227);

insert into company values(2006,'Berkshire Hathaway',211);

insert into company values(2007,'Daimler',157);

insert into company values(2008,'United Health',131);

insert into company values(2009,'Verizon',127);

insert into company values(2010,'Costco',113);

insert into company values(2011,'Hewlett-Packard',111);

insert into company values(2012,'Tata Group',108);

insert into company values(2013,'Samsung',305);

insert into company values(2014,'Total',212);

insert into company values(2015,'Nokia',123);

TABLE: contains

CREATE TABLE contains (CN_id int PRIMARY KEY, st_Id int CONSTRAINT f1 REFERENCES stadium(st_Id), au_Id int CONSTRAINT f2 REFERENCES audience(au_Id) NOT NULL);

insert into contains values(32,1002,5002);

insert into contains values(34,1001,5003);

insert into contains values(36,1001,5004);

insert into contains values(38,1001,5005);

insert into contains values(40,1004,5006);

insert into contains values(42,1010,5007);

insert into contains values(44,1001,5008);

insert into contains values(52,1002,5012);

insert into contains values(54,1002,5013);

insert into contains values(56,1002,5014);

insert into contains values(30,1001,5015);

insert into contains values(58,1002,5013);

insert into contains values(46,1002,5014);

insert into contains values(48,1004,5002);

Table: Match

create table Match(M_id int PRIMARY KEY NOT NULL, chm_id varchar(10) CONSTRAINT f01 REFERENCES championship(chm_Id) NOT NULL ,st_id int CONSTRAINT f02 REFERENCES stadium(st_Id) NOT NULL ,score int);

insert into Match values(1,'HZA',1001,2);

insert into Match values(2,'HZA',1002,3);

insert into Match values(3,'KSH',1002,2);

insert into Match values(4,'HZA',1002,5);

insert into Match values(5,'QTA',1010,4);

insert into Match values(6,'KSH',1012,5);

insert into Match values(7,'ISM',1012,3);

insert into Match values(8,'KSH',1012,2);

insert into Match values(9,'PWR',1012,2);

insert into Match values(10,'QTA',1010,5);

insert into Match values(11,'PWR',1001,3);

insert into Match values(12,'KSH',1002,5);

insert into Match values(13,'QTA',1006,4);

insert into Match values(14,'QTA',1008,2);

insert into Match values(15,'HZA',1010,0);

Table: play

create table play(pl_id int PRIMARY KEY, M_id int CONSTRAINT K1
REFERENCES match(M_Id) NOT NULL ,T1_id int CONSTRAINT K2
REFERENCES team(T_Id) NOT NULL,T2_id int CONSTRAINT K3
REFERENCES team(T_Id) NOT NULL , Date_time Date);

insert into play values(201,1,3001,3003,To_Date('2003/06/03 21:02:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(204,4,3002,3008,To_Date('2003/05/02 1:02:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(205,5,3010,3002,To_Date('2003/07/03 11:02:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(206,6,3015,3014,To_Date('2004/05/23 4:02:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(207,7,3015,3009,To_Date('2008/05/20 21:32:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(208,8,3015,3010,To_Date('2003/09/09 20:02:40',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(209,9,3012,3004,To_Date('2003/10/02 21:02:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(210,10,3010,3006,To_Date('2003/1/03 15:02:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(211,11,3001,3005,To_Date('2003/2/04 10:02:40',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(212,12,3007,3008,To_Date('2003/3/05 21:02:44',
'yyyy/mm/dd hh24:mi:ss'));

insert into play values(213,13,3006,3005,To_Date('2003/4/03 21:02:44', 'yyyy/mm/dd hh24:mi:ss'));

insert into play values(214,14,3008,3011,To_Date('2003/5/10 21:02:44', 'yyyy/mm/dd hh24:mi:ss'));

insert into play values(215,15,3010,3001 ,To_Date('2003/5/07 21:02:44', 'yyyy/mm/dd hh24:mi:ss'));

insert into play values(202,2,3001,3009,To_Date('2003/06/03 21:02:44', 'yyyy/mm/dd hh24:mi:ss'));

insert into play values(203,3,3007,3010,To_Date('2003/07/07 2:02:44', 'yyyy/mm/dd hh24:mi:ss'));

Table: player

create table player(P_id int NOT NULL PRIMARY KEY , P_name varchar(20) NOT NULL, P_age int NOT NULL , P_weekly_wage int);

insert into player values(9001,'Thibaut Courtois',22,60000);

insert into player values(9002,'Mark Schwarzer',32,120000);

insert into player values(9003,'Iker Casillas',33,165000);

insert into player values(9004,'Diego Lopez',32,40000);

insert into player values(9005,'Pepe',31,110000);

insert into player values(9006,'Isco',22,60000);

insert into player values(9007,'Angel di María',26,95000);

insert into player values(9008,'John Terry',33,175000);

insert into player values(9009,'Ramires',27,65000);

insert into player values(9011,'Fernando Torres',30,175000);

insert into player values(9010,' Aziz ullah',30,175000);

insert into player values(9012,'Diego Costa',25,200000);

Table : plays_for

create table plays_for(plf_id int PRIMARY KEY ,T_id int CONSTRAINT K4 REFERENCES team(T_Id) NOT NULL , P_id int CONSTRAINT K5 REFERENCES player(P_Id) NOT NULL);

insert into plays_for values(401,3001,9010);

insert into plays_for values(402,3015,9002);

insert into plays_for values(403,3012,9003);

insert into plays_for values(404,3012,9004);

insert into plays_for values(405,3009,9005);

Insert into plays_for values(406,3011,9006);

insert into plays_for values(407,3011,9007);

insert into plays_for values(408,3011,9008);

insert into plays_for values(409,3012,9009);

insert into plays_for values(411,3015,9011);

insert into plays_for values(412,3012,9012);

insert into plays_for values(410,3012,9001);

Table : plays_in

create table plays_in(pl_in_id int PRIMARY KEY, chm_id varchar(10) CONSTRAINT K6 REFERENCES championship(chm_Id) NOT NULL , P_id int CONSTRAINT K7 REFERENCES player(P_Id) NOT NULL);

insert into plays_in values(501,'HZA',9001);

insert into plays_in values(502,'KSH',9002);

insert into plays_in values(503,'KSH',9002);

insert into plays_in values(504,'HZA',9002);

insert into plays_in values(505,'QTA',9010);

insert into plays_in values(506,'KSH',9008);

insert into plays_in values(507,'ISM',9007);

insert into plays_in values(508,'KSH',9006);

insert into plays_in values(509,'LAH',9010);

insert into plays_in values(510,'QTA',9010);

insert into plays_in values(511,'PWR',9001);

insert into plays_in values(512,'HZA',9007);

insert into plays_in values(513,'QTA',9006);

insert into plays_in values(514,'QTA',9008);

insert into plays_in values(515,'HZA',9010);

TABLE : Scores

CREATE TABLE scores (Sc_ID int PRIMARY KEY , M_Id int CONSTRAINT key1 REFERENCES match(M_Id), P_Id int CONSTRAINT key2 REFERENCES player(P_Id));

insert into scores values(40,2,9011);

insert into scores   values(42,7,9012);

insert into scores   values(44,8,9007);

insert into scores   values(46,9,9008);

insert into scores   values(48,10,9005);

insert into scores   values(20,1,9001);

insert into scores   values(22,2,9002);

insert into scores   values(24,3,9003);

insert into scores values(26,4,9004);

insert into scores   values(28,5,9005);

insert into scores   values(30,6,9006);

insert into scores   values(32,15,9007);

insert into scores   values(34,14,9008);

insert into scores   values(36,13,9009);

insert into scores   values(38,7,9007);

TABLE : Sponsered_by

CREATE TABLE sponsered_by (sp_id char(1) PRIMARY KEY,M_Id int
CONSTRAINT K8 REFERENCES match(M_Id) NOT NULL , Cp_Id int
CONSTRAINT K9 REFERENCES company(Cp_Id) NOT NULL);

insert into sponsered_by   values('A',1,2001);

insert into sponsered_by   values('B',2,2002);

insert into sponsered_by   values('C',3,2003);

insert into sponsered_by values('D',4,2004);

insert into sponsered_by   values('E',5,2005);

insert into sponsered_by   values('F',6,2006);

insert into sponsered_by   values('G',15,2007);

insert into sponsered_by   values('I',14,2008);

insert into sponsered_by   values('J',13,2009);

insert into sponsered_by   values('K',12,2010);

insert into sponsered_by values('Z',11,2011);

insert into sponsered_by   values('L',7,2012);

insert into sponsered_by   values('M',8,2013);

insert into sponsered_by   values('N',9,2014);

insert into sponsered_by values('O',10,2015);

Table : stadium

create table stadium(st_id int NOT NULL PRIMARY KEY , st_name varchar(20) NOT NULL, capicity int NOT NULL ,state varchar(20));

insert into stadium values(1001,'Wembley Stadium',90000,'London');

insert into stadium values(1002,'Old Trafford',75653,'Manchester');

insert into stadium values(1004,'Emirates Stadium',60260,'London');

insert into stadium values(1006,'Manchester Stadium',55097,'Manchester');

insert into stadium values(1008,'St James Park',52338,'Newcastle-upon-Tyne');

insert into stadium values(1010,'Stadium of Light',48707,'Sunderland');

insert into stadium values(1012,'Anfield',45522,'Liverpool');

insert into stadium values(1014,'Villa Park',27010,'Birmingham');

insert into stadium values(1016,'Stamford Bridge',41798 ,'London');

insert into stadium values(1018,'Hillsborough St',39732,'Sheffield');

insert into stadium values(1020,'Goodison Park',39571,'Liverpool');

insert into stadium values(1022,'Elland Road',39460,'Leeds');

insert into stadium values(1024,'White Hart Lane',36284,'London');

insert into stadium values(1026,'Boleyn Ground',35345,'London');

insert into stadium values(1028,'Riverside Stadium',34988,'Middlesbrough');

Table : Team

create table Team(T_id int NOT NULL PRIMARY KEY , T_name varchar(20) NOT NULL, no_players int NOT NULL);

insert into Team values(3001,'Manchester United',20);

insert into Team values(3002,'Arsenal F.C.',25);

insert into Team values(3003,'Newcastle United',24);

insert into Team values(3004,'Manchester City',29);

insert into Team values(3005,'Liverpool F.C.',13);

insert into Team values(3006,'Aston Villa',31);

insert into Team values(3007,'Chelsea F.C.',35);

insert into Team values(3008,'Everton F.C.',30);

insert into Team values(3009,'Tottenham Hotspur',31);

insert into Team values(3010,'West Ham Unitedi',23);

insert into Team values(3011,'Southampton F.C.',34);

insert into Team values(3012,'Leicester City',41);

insert into Team values(3013,'Stoke City',42);

insert into Team values(3014,'Swansea City',34);

insert into Team values(3015,'Norwich City',44);

TABLE: Works_for

CREATE TABLE Works_for (Wf_id int PRIMARY KEY ,C_id int CONSTRAINT f11 REFERENCES coach(C_id),T_id int CONSTRAINT f12 REFERENCES team(T_id));

insert into Works_for values(100,2001,3001);

insert into Works_for values(101,2002,3002);

insert into Works_for values(102,2001,3003);

insert into Works_for values(103,2001,3004);

insert into Works_for values(104,2001,3005);

insert into Works_for values(105,2004,3006);

insert into Works_for values(106,2010,3007);

insert into Works_for values(107,2001,3008);

insert into Works_for values(108,2015,3009);

insert into Works_for values(109,2003,3010);

insert into Works_for values(110,2003,3011);

insert into Works_for values(1111,2002,3012);

insert into Works_for values(112,2002,3013);

insert into Works_for values(113,2002,3014);

insert into Works_for values(114,2001,3015);

ERD: