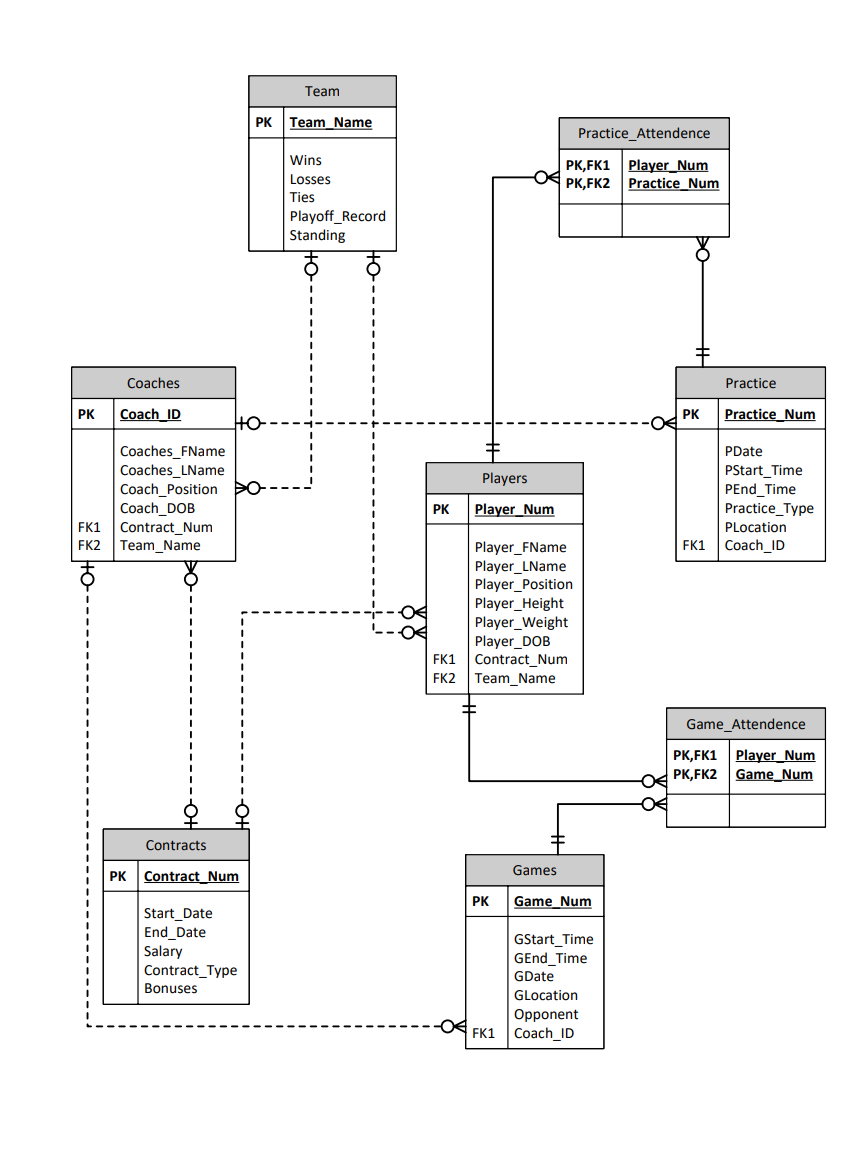
**Paragraph:**

Our project has been designed for a sports team. There are no specifics about which sport, but it cannot be an individual sport, like tennis or golf. For data entries, we used data from the NBA. This database could be used by organizations like high-schools, universities and more. The rules for the database are as follows: A Coach has many practices and games. The team has many coaches and players. Every player and coach have a contract. Players must attend games and practices.

**ERD:**



**SQL:**

create database Project1

go

-- New Query --

use Project1

go

create table Team

(

    Team\_Name       char(20) primary key,

    Wins            int,

    Losses          int,

    Ties            int,

    Playoff\_Record  int,

    Standing        int

)

create table Contracts

(

    Contract\_Num    char(10) primary key,

    Start\_Date      date,

    End\_Date        date,

    Salary          money,

    Contract\_Type   char(20),

    Bonuses         char(20)

)

create table Coaches

(

    Coach\_ID        char(10) primary key,

    Coaches\_FName   char(20),

    Coaches\_LName   char(20),

    Coach\_Position  char(20),

    Coach\_DOB       date,

    Contract\_Num    char(10)

        foreign key references Contracts,

    Team\_Name       char(20)

        foreign key references Team

)

create table Players

(

    Player\_Num      int primary key,

    Player\_FName    char(20),

    Player\_LName    char(20),

    Player\_Position char(20),

    Player\_Height   int,

    Player\_Weight   int,

    Player\_DOB      date,

    Contract\_Num    char(10)

        foreign key references Contracts,

    Team\_Name       char(20)

        foreign key references Team

)

create table Practice

(

    Practice\_Num    char(10) primary key,

    PDate           date,

    PStart\_Time     time,

    PEnd\_Time       time,

    Practice\_Type   char(20),

    PLocation       char(50),

    Coach\_ID        char(10)

        foreign key references Coaches

)

create table Games

(

    Game\_Num        char(20) primary key,

    GStart\_Time     time,

    GEnd\_Time       time,

    GLocation       char(30),

    Opponent        char(20),

    Coach\_ID        char(10)

        foreign key references Coaches

)

create table Game\_Attendence

(

    Player\_Num      int

        foreign key references Players,

    Game\_Num        char(20)

        foreign key references Games,

    primary key (Player\_Num, Game\_Num)

)

create table Practice\_Attendence

(

    Player\_Num      int

        foreign key references Players,

    Practice\_Num    char(10)

        foreign key references Practice,

    primary key (Player\_Num, Practice\_Num)

)

-- New Query --

use Project1

go

INSERT INTO Team VALUES

    ('Warriors',53,29,10,32,1),

    ('Mavericks',52,30,5,24,3),

    ('Lakers',52,19,10,60,2),

    ('Celtics',51,31,7,72,4),

    ('Cavaliers',44,38,9,22,5)

INSERT INTO Contracts VALUES

    (574,'04-04-2020','04-04-2022',75000000,'Two-Years','None'),

    (676,'02-08-2020','02-08-2022',70000000,'Two-Years','Yes'),

    (476,'01-27-2018','01-27-2022',140000000,'Four-Years','Yes'),

    (342,'07-15-2020','07-15-2022',90000000,'Two-Years','None'),

    (290,'05-03-2018','05-03-2022',1700000000,'Four-Years','Yes')

INSERT INTO Coaches VALUES

    ('200','Steve','Kerr','Head Coach','09-27-1965','342','Warriors'),

    ('201','Jason','Kid','Head Coach','03-23-1973','342','Mavericks'),

    ('202','Darvin','Ham','Head Coach','07-23-1973','574','Lakers'),

    ('203','Joe','Mazzulla','Head Coach','06-30-1988','574','Celtics'),

    ('204','John-Blair','Bickerstaff','Head Coach','03-19-1979','676','Cavaliers')

INSERT INTO Players VALUES

    (30,'Stephen','Curry','Point Guard',190,185,'03-14-1988','290','Warriors'),

    (77,'Luka','Dončić','Point Guard',200,230,'02-28-1999','290','Mavericks'),

    (06,'LeBron','James','Small Forward',205,250,'12-30-1984','290','Lakers'),

    (00,'Jayson','Tatum','Small Forward',203,210,'03-03-1998','342','Celtics'),

    (31,'Jarret','Allen','Center',210,243,'04-21-1998','574','Cavaliers')

INSERT INTO Practice VALUES

    ('01','05-23-2022','13:30:00','16:30:00','Conditioning','1011 Broadway, Oakland',200),

    ('02','06-01-2022','08:00:00','10:30:00','Shooting','1520 Inspiration Dr, Dallas',201),

    ('03','05-10-2022','16:00:00','18:00:00','Dribbling','2275 East Mariposa Ave, El Segundo',202),

    ('04','06-10-2022','09:30:00','11:30:00','Scrimmage','840 Winter St, Waltham',203),

    ('05','06-01-2022','13:30:00','16:30:00','Shooting','6101 Brecksville Road, Independence',204)

INSERT INTO Games VALUES

    ('30000','16:00:00','18:00:00','Chase Centre','Nets',200),

    ('30060','18:30:00','20:30:00','American Airlines Center','Knicks',201),

    ('30070','10:00:00','12:00:00','Crypto.com Arena','Heat', 202),

    ('30080','12:00:00','14:00:00','TD Garden','Nuggets', 203),

    ('30090','14:00:00','16:00:00','Rocket Mortgage FieldHouse','Spurs', 204)

INSERT INTO Game\_Attendence VALUES

    ('30','30000'),

    ('77','30060'),

    ('06','30070'),

    ('00','30080'),

    ('31','30090')

INSERT INTO Practice\_Attendence VALUES

    ('30','01'),

    ('77','02'),

    ('06','03'),

    ('00','04'),

    ('31','05')