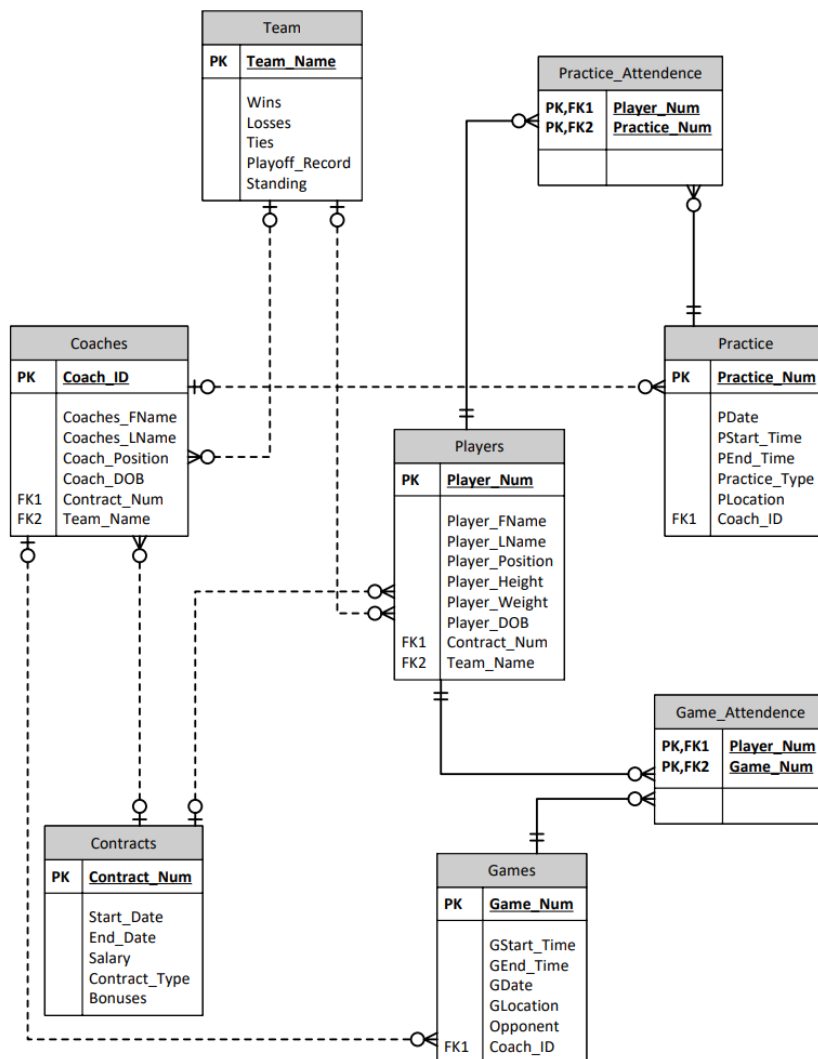


Our project has been designed for a sports team. There are no specifics about which sport, but it cannot be an individual sport, like tennis or golf. For data entries, we used data from the NBA. This database could be used by organizations like high-schools, universities and more. The rules for the database are as follows: A Coach has many practices. 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_Attendance
(
    Player_Num      int
        foreign key references Players,
    Game_Num        char(20)
        foreign key references Games,
    primary key (Player_Num, Game_Num)
```

```

)

create table Practice_Attendance
(
    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',170000000,'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_Attendance VALUES
```

```
    ('30','30000'),
    ('77','30060'),
    ('06','30070'),
    ('00','30080'),
    ('31','30090')
```

```
INSERT INTO Practice_Attendance VALUES
```

```
    ('30','01'),
    ('77','02'),
    ('06','03'),
    ('00','04'),
    ('31','05')
```