```
Table: Player
 CREAT
 TABLE
 Players (
                    Player
             varchar(128),
                    Height float(8),
                    Weight float(8),
                    College
             varchar(128),
                    Born int(8),
                    Birth_City
             varchar(128),
                    Birth State
             varchar(128),
                    PRIMARY KEY
             (Player)
             );
Candidate Keys: {Player}
F: {Player -> Height, Weight, College, Born, Birth_City, Birth_State}
Left-hand side is a superkey, strictly in 3NF
(Birth State is not considered to be dependent on Birth City since two cities may have same
name but different State)
```

Table: Team

```
CREAT
 Е
 TABLE
 Team (
                   ID int(64),
                   Full Name varchar(128),
                   Abbreviation
            varchar(128),
                   Nickname varchar(128),
                   City varchar(128),
                   State varchar(128),
                   Year Founded int(8),
                   PRIMARY KEY
            (Abbreviation)
            );
Candidate Keys: {Abbreviation}, {ID}, {Full Name}, { Nickname }
```

F: {Abbreviation\_-> ID, Full\_Name, Abbreviation, Nickname, City, State, Year\_Founded, ID\_-> Abbreviation, Full\_Name, Abbreviation, Nickname, City, State, Year\_Founded, Full Name -> Abbreviation, ID, Abbreviation, Nickname, City, State, Year\_Founded Nickname -> Abbreviation, ID, Abbreviation, Nickname, City, State, Year\_Founded Vickname -> Abbreviation, ID, Abbreviation, Nickname, City, State, Year\_Founded Use Unique to specify other candidate keys

Each left-hand side is a superkey, strictly in 3NF

Table: Seasons Stats

```
CREATE
TABLE
Seasons\_Stat
s (
                       Year int(8),
                       Player varchar(128),
                       Pos varchar(128),
                       Age int(8),
                       Tm varchar(256),
                       G int(8),
                       MP int(8),
                       PER float(8),
                       TS_Percentage float(8),
                       FTr float(8),
                       OWS float(8),
                       DWS float(8),
                       FG int(8),
                       FGA int(8),
                       2P int(8),
```

2PA int(8),

eFG\_Percentage float(8),

```
FT int(8),
                       FTA int(8),
                       TRB int(8),
                       AST int(8),
                       PF int(8),
                       PTS int(8),
                       PRIMARY KEY (Player, Year, Tm, Pos),
                       FOREIGN KEY (Player) REFERENCES
                 Players(Player),
                       FOREIGN KEY (Tm) REFERENCES
                 Team(Abbreviation)
                 );
Candidate Keys: {Player, Year, Tm, Pos }
F { Player, Year, Tm, Pos -> all others,
OWS, DWS -> WS,
WS -> WS_Divide_48,
FG, FGA -> FG_Percentage,
2P, 2PA -> 2P_Percentage,
FT, FTA -> FT_Percentage
Delete WS,WS_Divide_48,FG_Percentage,2P_Percentage,FT_Percentage
```

```
Table: Game
 CREATE
 TABLE
 Game (
               Game_ID int(64),
               Season_ID int(64),
               Game_Date varchar(128),
               Team_Abbreviation_Home varchar(128),
               WL_Home varchar(128),
               Min_Home int(8),
               Fgm_Home int(8),
               Ftm_Home int(8),
               Pts_Home int(8),
               Video_Available_Home int(8),
               Team_Abbreviation_Away varchar(128),
               Min_Away int(8),
               Fgm_Away int(8),
               Ftm_Away int(8),
               Pts_Away int(8),
```

```
PRIMARY KEY (Game ID),
              FOREIGN KEY (Team Abbreviation Away) REFERENCES
              Team(Abbreviation),
              FOREIGN KEY (Team Abbreviation Home) REFERENCES
              Team(Abbreviation)
              );
Candidate Key: {Game ID}
F:{Game ID->all others
Team Abbreviation Home-> Team ID Home, Team Name Home,
Team Nickname Home, Team City Name Home, Home Team ID
Team Abbreviation Away-> Team ID Away, Team Name Away, Team Nickname Away,
Team City Name Away, Visitor Team ID
Team Abbreviation Home, Team Abbreviation Away-> Matchup Home, Matchup Away
Pts Home, Pts Away -> Plus Minus Home, Plus Minus Away,
Season ID->Season
Game Date-> Game Date EST, Game Date Day
WL Home->WL Away}
Delete Team ID Home, Team_Name_Home,, Team_Nickname_Home,
Team City Name Home, Home Team ID
Delete Team ID Away, Team Name Away, Team Nickname Away, Team Nickname Away,
Team City Name Away, Visitor Team ID
```

Video Available Away int(8),

Series Leader varchar(128),

Delete Matchup\_Home, Matchup\_Away

Delete Plus\_Minus\_Home, Plus\_Minus\_Away

Delete Season

Delete Pts Home y, Team Wins Losses Home, Team Wins Losses Away(redundant column)

Delete Game\_Date\_EST ,Game\_Date\_Day

Delete WL\_Away

Delete Game Status ID

Delete GameCode (redundant column)

Delete Live\_Period, Live\_Period\_Time\_BCAST, WH Status, Home\_Team\_Wins,

Home\_Team\_Losses, Video\_Available\_Flag int(8), Hustle\_Status, Historical\_Status,

PT AVAILABLE, PT XYZ AVAIABLE