Entity Dictionary

Entity: Broadcast Team

- **Description:**
  - The team responsible for transmitting the game on TV.
- **Attributes**:
  - Name: VarChar(80), the name of the broadcasting team
  - TaxID: Integer, the tax ID for the broadcast team
  - Primary Key: TaxID

Entity: Cable

- **Description:**
  - A type of service that transmits the game live to a TV.
- **Attributes**:
  - Channel Name: VarChar(40), the name of the channel that the NBA game is being shown on
  - Primary Key: TaxID, inherits from Service

Entity: Camera Operator

- **Description:**
  - An operator of the cameras which broadcast the game
- **Attributes**:
  - Camera_Type: VarChar(40), the camera equipment used by the operator
  - Primary Key: TaxID, inherits from Broadcast Team

Entity: Coach

- **Description:**
  - Person responsible for creating strategies and instructing players.
- **Attributes**:
  - Experience: Integer, the number of year a coach has been a coach
  - Primary Key: employee_ID, inherits from Employee

Entity: Commentator

- **Description:**
  - Person responsible for providing live commentary of a game.
- **Attributes**:
  - Mic_Type: VarChar(40), the microphone equipment used by the commentator
  - Primary Key: TaxID, inherits from Broadcast Team

Entity: Employee

- **Description:**
  - The person that will be employed by a franchise or the NBA league
- **Attributes**:
  - Date_Of_Birth: Date, the date of birth of an employee
  - employee_ID: Integer, the unique ID number for an employee
  - Name: Compound attribute, legal name consisting of first and last name
    - First: VarChar(40), the legal first name of an employee
    - Last: VarChar(40), the legal last name of an employee
  - Sex: VarChar(6), the gender of the employee
  - Primary Key: employee_ID

Entity: Franchise

- **Description:**
  - The team competing in the NBA.
- **Attributes**:
  - Location: Compound attribute, the location of the NBA franchise consisting of a city and state
    - City: VarChar(40), the city that the NBA franchise is located in
    - State: VarChar(40), the state that the NBA franchise is located in
  - Num_Championships: Integer, the number of championships won by an NBA franchise
  - Team_Name: VarChar(40), the name of an NBA franchise
  - Primary Key: Team_Name

Entity: NBA

- **Description:**
  - The league which comprises the franchises and by which the tournament will be played.
- **Attributes**:
  - TaxID: the tax ID for the National Basketball Association
  - Primary Key: TaxID

Entity: Owner

- **Description:**
  - A person that owns an NBA franchise and has control over who is hired.

- **Attributes**:
  - Ownership_years: Integer, the number of years the owner has maintained ownership of a franchise
  - Primary Key: employeeID, inherits from Employee

Entity: Player

- **Description:**
  - Person that is part of a franchise and plays in games.
- **Attributes**:
  - Height- Integer, the height of a player in inches
  - Name- VarChar(80), the name of the player
  - Rating- Integer, the rating of a player, out of 99
  - Rings- Integer, the number of rings a player has
  - Primary Key: employeeID, inherits from Employee

Entity: Production Crew

- **Description:**
  - Group of people responsible for filming, editing, commentating, and broadcasting an NBA game.
- **Attributes**:
  - Production_Software: VarChar(40), the software used by the production crew to broadcast the game
  - Primary Key: TaxID, inherits from Broadcast Team

Entity: Referee

- **Description:**
  - Person responsible for inspecting equipment before the game, enforcing rules of the game in real-time.
- **Attributes**:
  - Number_of_games: Integer, the number of games a referee officiates
  - Primary Key: employeeID, inherits from Employee

Entity: Staff

- **Description:**
  - A person employed by a franchise other than player or coach.
- **Attributes**:
  - Role- VarChar(80)

○ Primary Key: employeeID, inherits from Employee

Entity: Season Pass

- **Description:**
  - A subscription that gives access to live and on-demand games on their phones and TVs.
- **Attributes**:
  - Video Quality: Integer, the quality of the video being shown to viewers
  - Primary Key: TaxID, inherits from Service

Entity: Seasons

- **Description:**
  - A collection of regular season and postseason games that are played to determine the champion.
- **Attributes**:
  - Playoffs: Compound Attribute, postseason elimination tournament to determine the champion
    - Finals: VarChar(40), the annual championship series to determine the winner of the NBA playoffs
    - Tournament: VarChar(40), an elimination tournament that occurs after the regular season
  - Regular Season: Compound Attribute, a collection of games to determine playoff rankings
    - Game: VarChar(80), a single game before the postseason between two NBA franchises.
  - Season_Num: Integer, chronological order identifying each NBA season
  - Primary Key: Season_Num

Entity: Service

- **Description:**
  - A method of televising NBA games.
- **Attributes**:
  - Length_Of_Contract: Integer, the number of years a service has a contract with the NBA
  - Price: Integer, the cost of buying one service for one year
  - TaxID: Integer, the tax ID for the service

○ Primary Key: TaxID

Entity: Streaming Service

- **Description:**
  - An online provider of NBA game streams that are available on a yearly plan.
- **Attributes**:
  - Service Name: VarChar(40), the name of the streaming service where fans can watch games
  - Primary Key: TaxID, inherits from Service

Entity: Ticket

- **Description:**
  - A ticket to enter a venue to watch a game live
- **Attributes**:
  - Service Name: VarChar(40), the name of the streaming service where fans can watch games
  - Primary Key: TaxID, inherits from Service

Relationship Dictionary

Relationship: Consists Of

- **Description:**
  - The NBA consists of many franchises. All of the franchises make up the NBA.
- **Entities:** Franchise, NBA
- **Cardinality:** M:1 (Many to 1)
- **Participation:** Partial to Partial

Relationship: Contracts

- **Description:**
  - The NBA has a contract with a service provider. The service provider is contracted by the NBA.
- **Entities:** NBA, Service
- **Cardinality:** M:1 (Many to 1)
- **Participation:** Partial to Partial

Relationship: Fran_Employs

- **Description:**
  - The franchise employs an employee. The employees are employed by the NBA.
- **Entities:** Employee, Franchise
- **Cardinality:** M:1 (Many to 1)
- **Participation:** Partial to Partial

Relationship: Hosts

- **Description:**
  - The NBA hosts many seasons. Each season is hosted by the NBA.
- **Entities:** NBA, Seasons
- **Cardinality:** M:1 (Many to 1)
- **Participation:** Partial to Partial

Relationship: NBA_Employs

- **Description:**
  - The NBA employs an employee. The employees are employed by the NBA.
- **Entities:** Employee, NBA
- **Cardinality:** M:1 (Many to 1)
- **Participation:** Partial to Partial

Relationship: Sponsors

- **Description:**
  - A company sponsors a franchise. A franchise is sponsored by a company.
- **Entities:** Company, Franchise
- **Cardinality:** M:N (Many to Many)
- **Participation:** Partial to Partial

Relationship: Televises

- **Description:**
  - The broadcasting team televises/transmits the game.
- **Entities:** Broadcasting Team, Franchise
- **Cardinality:** M:1 (Many to 1)
- **Participation:** Total Participation to Partial