



CHAMPIONSHIP_TEAMS

Primary Key

- ID

Foreign Key(s)

- COACH_SSN
 - o Pulls Coach Ssn from COACH table. Each team must have a single coach
- ASSISTANT_COACH_SSN
 - o Pulls assistant coach Ssn from ASSISTANT_COACH table. Can be null as a team may not have an assistant coach

COACH

Primary Key

- Ssn

Foreign Key(s)

- None

PLAYERS

Primary Key

- Ssn

Foreign Key(s)

- CHAMPIONSHIP_TEAMS_ID
 - o Each player must be a member of a championship team

ALLSTAR_NOMINEES

Primary Key

- Ssn, Date, Location

Foreign Key(s)

- PLAYERS_SSN (PLAYERS)
 - o If a player is nominated to the Allstar team, their Ssn is taken as a foreign key
- ALLSTAR_GAME_DATE, ALLSTAR_GAME_LOCATION (ALLSTAR_GAME)
 - o Date and Location is taken from the ALLSTAR_GAME table to keep track of what games the nominee has played in

```
# Create and use schema if it does not already exist
CREATE SCHEMA IF NOT EXISTS Allstar_Team;
USE Allstar_Team;
```

```
# Create table COACH if it does not already exist
CREATE TABLE IF NOT EXISTS COACH
```

```
(
  SSN          INT UNIQUE   NOT NULL,
  Name         VARCHAR(45)  NOT NULL,
  Address      VARCHAR(60),
  Birth_date   DATE         NOT NULL,
  University   VARCHAR(45)  NOT NULL,
  Years_uni    INT DEFAULT 0 NOT NULL,
  Years_total  INT DEFAULT 0 NOT NULL,
  Champs_wins  INT DEFAULT 0 NOT NULL,
  Semifinals   INT DEFAULT 0 NOT NULL,
  CONSTRAINT PK_COACH_SSN
    PRIMARY KEY (SSN)
);
```

```
# Create table ASSISTANT_COACH if it does not already exist
CREATE TABLE IF NOT EXISTS ASSISTANT_COACH
```

```
(
  SSN          INT UNIQUE   NOT NULL,
  Name         VARCHAR(45)  NOT NULL,
  Address      VARCHAR(60),
  Birth_date   DATE         NOT NULL,
  University   VARCHAR(45)  NOT NULL,
  Years_uni    INT DEFAULT 0 NOT NULL,
  Years_total  INT DEFAULT 0 NOT NULL,
  Specialization VARCHAR(45) NOT NULL,
  CONSTRAINT PK_ASSISTANT_COACH_SSN
    PRIMARY KEY (SSN)
);
```

```
# Create table CHAMPIONSHIP_TEAM if it does not already exist
CREATE TABLE IF NOT EXISTS CHAMPIONSHIP_TEAM
```

```
(
  ID           INT UNIQUE   NOT NULL,
  Team_name    VARCHAR(45)  NOT NULL,
  COACH_SSN    INT UNIQUE   NOT NULL,
  ASSISTANT_COACH_SSN INT UNIQUE,
  University   VARCHAR(45)  NOT NULL,
  Team_rank    INT UNIQUE   NOT NULL,
  Win          INT DEFAULT 0 NOT NULL,
  Lost         INT DEFAULT 0 NOT NULL,
  Tie          INT DEFAULT 0 NOT NULL,
  CONSTRAINT PK_TEAM_ID
    PRIMARY KEY (ID),
  CONSTRAINT FK_TEAM_COACH_SSN
    FOREIGN KEY (COACH_SSN)
      REFERENCES COACH (SSN)
      ON DELETE RESTRICT
      ON UPDATE CASCADE,
  CONSTRAINT FK_TEAM_ASSISTANT_COACH_SSN
    FOREIGN KEY (ASSISTANT_COACH_SSN)
      REFERENCES ASSISTANT_COACH (SSN)
      ON DELETE RESTRICT
      ON UPDATE CASCADE
);
```

```
# Create table PLAYERS if it does not already exist
CREATE TABLE IF NOT EXISTS PLAYERS
```

```
(
  SSN          INT UNIQUE   NOT NULL,
  CHAMPIONSHIP_TEAMS_ID INT UNIQUE   NOT NULL,
  Name         VARCHAR(45)  NOT NULL,
  Address      VARCHAR(60)  NOT NULL,
  Birth_date   DATE         NOT NULL,
  Position     VARCHAR(45)  NOT NULL,
  University   VARCHAR(45)  NOT NULL,
  Years_team   INT DEFAULT 0 NOT NULL,
  Class        VARCHAR(45)  NOT NULL,
  Time_allstar INT DEFAULT 0 NOT NULL,
  Player_rank  INT DEFAULT 0 NOT NULL,
  CONSTRAINT PK_Player_Rank
    CHECK (Player_rank BETWEEN 0 AND 10),
  CONSTRAINT PK_PLAYERS_SSN
    PRIMARY KEY (SSN),
  CONSTRAINT FK_PLAYERS_TEAM_ID
    FOREIGN KEY (CHAMPIONSHIP_TEAMS_ID)
      REFERENCES CHAMPIONSHIP_TEAM (ID)
      ON DELETE RESTRICT
      ON UPDATE CASCADE
);
```

```
# Create table ALLSTAR_GAME if it does not already exist
CREATE TABLE IF NOT EXISTS ALLSTAR_GAME
```

```
(
  Date         DATE         NOT NULL,
  Location     VARCHAR(60)  NOT NULL,
  CHAMPIONSHIP_TEAMS_ID INT UNIQUE   NOT NULL,
  COACH_SSN    INT UNIQUE   NOT NULL,
  ASSISTANT_COACH_SSN INT UNIQUE,
  Score        VARCHAR(10) DEFAULT '0 - 0' NOT NULL,
  CONSTRAINT PK_GAME_Date_Location
    PRIMARY KEY (Date, Location),
  CONSTRAINT FK_GAME_TEAM_ID
    FOREIGN KEY (CHAMPIONSHIP_TEAM_ID)
      REFERENCES CHAMPIONSHIP_TEAM (ID)
      ON DELETE RESTRICT
      ON UPDATE CASCADE,
  CONSTRAINT FK_GAME_COACH_SSN
    FOREIGN KEY (COACH_SSN)
      REFERENCES COACH (SSN)
      ON DELETE RESTRICT
      ON UPDATE CASCADE,
  CONSTRAINT FK_GAME_ASSISTANT_COACH_SSN
    FOREIGN KEY (ASSISTANT_COACH_SSN)
      REFERENCES ASSISTANT_COACH (SSN)
      ON DELETE RESTRICT
      ON UPDATE CASCADE
);
```

ALLSTAR_GAME

Primary Key

- Date, Location

Foreign Key(s)

- CHAMPIONSHIP_TEAMS_ID
 - o The winning team's ID must be stored
- COACH_SSN
 - o The coach of the winning team must be stored
- ASSISTANT_COACH_SSN
 - o If the winning team has an assistant coach, their ssn is included

ASSISTANT_COACH

Primary Key

- Ssn

Foreign Key(s)