

## CHAMPIONSHIP TEAMS - ID Foreign Key(s) - COACH SSN Pulls Coach Ssn from COACH table. Each team must have a single coach On updating, it cascades, as the coach for a team can change Restricts deletion as there must be a 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 On update, cascades as the assistant coach can change On delete, cascades as there can be a team without assistant coaches COACH Primary Key Foreign Key(s) Primary Key - Sen Foreign Key(s) - CHAMPIONSHIP TEAMS ID Each player must be a member of a championship team On update, cascades as players can change teams Restricts deletion, as we are assuming that players will not be removed from a team outright at this stage # Ereate and use schema if it does not already exist # Create table CHAMPIONSHIP TEAM if it does not already exist CREATE TABLE IF NOT EXISTS CHAMPIONSHIP\_TEAM EATE SCHEMA IF NOT EXISTS Allstar\_Team; HEE Alletan Team

VAROUR(45) NOT NULL,

University VAKOWAR(45) NOT NULL,

Years\_uni INT DEFAULT 8 NOT NULL,

Years total INT DEFAULT @ NOT NULL.

Champs\_wins INT DEFAULT @ NOT NULL,

Somificals INT DEFAULT # NOT NULL,

EATE TABLE IF NOT EXISTS ASSISTANT\_COACH

Address WARDHAR(W),

Birth\_date DATE NOT MULL,

University WARDHAR(%) NOT MULL,

YORNS, uni 2NT DEFAULT 0 NOT MULL,

Years\_total INT DEFRUIT @ NOT MULL Specialization WARCHAR(45) NOT MULL, CONSTRAINT PK ASSISTANT COACH SSN

VARCHAR(45) NOT NULL.

CONSTRAINT PK\_COACH\_SSN

PRIMARY KEY (SSN)

VAROHAR(45) NOT NULL COACH\_SSN INT UNIQUE NOT NULL, ASSISTANT\_COACH SSN INT UNIQUE, Teat rank INT UNIQUE NOT NULL INT DEFAULT O NOT MULL INT DEFAULT 8 NOT NULL THE DESCRIPT OF NOT MILE PRIMARY KEY (10). FOREIGN KEY (CONCH\_SSN) REFERENCES COACH (SSN) ON DELETE RESTRICT ON UPDATE CASCAGE CONSTRAINT FK\_TEAM\_ASSISTANT\_COACH\_SSN FORETON KEY (ASSISTANT COACH SSN) RENCES ASSISTANT\_COACH (SSN) ON DELETE CASCADE

# Create table PLAYERS if it does not already exist CREATE TABLE IF NOT EXISTS ALISTAR GAME OP\_TERMS\_ID INT UNIQUE NOT NULL, CHAMPIONSHIP\_TEAMS\_ID\_INT\_UNIQUE VARCHAR(45) NOT NULL. COACH SSN INT UNIQUE VARCHAR(68) NOT NULL, Mirth date NOT NULL. ASSISTANT\_COACH\_SSN INT UNIQUE, VARCHAR(45) NOT NULL, CONSTRAINT PK GAME Date Location University VARCHAR(45) NOT NULL, INT DEFAULT IS NOT NULL PRIMARY KEY (Onto, Location) VARDURE(45) NOT NULL, INT DEFAULT @ NOT NULL, INT DEFAULT @ NOT NULL, Time\_allstar FOREIGN KEY (CHAMPIONSHIP TEAMS 10) Player\_rank ON DELETE RESTRICT CONSTRAINT CHK Player Rank ON UPDATE CASCADE CHECK (Player\_rank SETWEEN 0 AND 10), CONSTRAINT PK PLAYERS SSN STRAINT FK GAME COACH SIN DOBETON MEY (COMON SON) REFERENCES COACH (SSN) CONSTRAINT FX\_PLAYERS\_TEAM\_ID FOREIGN KEY (CHAMPIONSHIP\_TEAMS\_ID) ON DELETE RESTRICT ON UPDATE RESTRICT, REFERENCES CHAMPIONSHIP TEAM (10) ON DELETE RESTRICT CONSTRAINT FK GAME ASSISTANT COACH SSN FOREIGN KEY (ASSISTANT COACH SSN)
REFERENCES ASSISTANT COACH (SSN) ON UPDATE CASCADE ON DELETE RESTRICT ON UPDATE RESTRICT

ALLSTAR\_NOMINEES

- Ssn. Date, Location

- PLAYERS SSN (PLAYERS)

the nominee has played in

o If a player is nominated to the Alistar team, their Ssn is taken as a foreign key

If a piayer is nominated to the glass, ream, their san is taken as a torigin key
 on update, restrict as a player's san does not change
 o Cascades deletions, as a player may need to be removed from the nominees
 ALISTAR\_GAME\_DATE, ALISTAR\_GAME\_LOCATION (ALI\_STAR\_GAME)
 o Date and Location is taken from the ALISTAR\_GAME table to keep track of what games

The winning team's ID must be stored
 On update, cascades, if team id changes (moves cities gtg), should update their previous

On delete, restricts as there must be a coach of a winning team
 Restricts updates, as the coach of the game at the time they won cannot be changed
 ASSISTANT\_COACH\_SSN

On delete, restricts as the assistant coach of previous games should not be changed
 Restricts updates, as the coach of the game at the time they won cannot be changed

games
Restricts deletion, as there must be a winning team's ID

If the winning team has an assistant coach, their ssn is included

The coach of the winning team must be stored

On update, cascades as the time and location may change
 Restricts delete, assuming that games are not cancelled, but rescheduled

Primary Key

ALLSTAR GAME

Foreign Key(s)

- Date Location

COACH SSN

ASSISTANT COACH

- Ssn

- CHAMPIONSHIP TEAMS ID

2 Create table 4115TAR NORINGES if it does not already exist NOT NULL, ALLSTAR GAME Date DATE NOT NULL. ALLSTAR GAME Location VARDWAR(GO) NOT NULL, CONSTRAINT PK\_NOMINEES\_SSN\_Date\_Location PRIMARY KEY (PLAYERS\_SSN, ALLSTAR\_GAME\_Date, ALLSTAR\_GAME\_Location) CONSTRAINT FK\_NOMINEES\_GAME\_Date\_Location FOREIGN KEY (ALISTAR GAME Date, ALISTAR GAME Location REFERENCES ALLSTAR\_GAME (Date, Location) ON DELETE RESTRICT CONSTRAINT FK NOMINEES PLAYERS SSN FOREIGN KEY (PLAYERS\_SSN) REFERENCES PLAYERS (San) ON DELETE CASCADE ON UPDATE RESTRICT # Grop statements for tables and schoma DROP TABLE ALLSTAR NOMENIES; DROF TABLE ALLSTAR\_GAME; DROP TABLE ASSISTANT\_COACH; DROP TABLE COACH; DROP SCHEMA Allstar Team: SET FOREIGN\_KEY\_CHECKS = 1;