Database Logical Schema Translated From ER Diagram

Legend

```
    PRIMARY KEY = Bold
    FOREIGN KEY = Italics
    PRIMARY KEY and FOREIGN KEY = Bold Italics
```

Schemas

Division

Division(divisionName: VARCHAR(10))

```
CREATE TABLE `Division` (
    `divisionName` VARCHAR(10),
    PRIMARY KEY (`divisionName`)
);
```

Venue

Venue(venueName: VARCHAR(30), city: VARCHAR(30), address: VARCHAR(50))

```
CREATE TABLE `Venue` (
    `venueName` VARCHAR(30),
    `city` VARCHAR(30),
    `address` VARCHAR(50),
    PRIMARY KEY (`venueName`, `city`)
);
```

NBATeam_BelongsTo

NBATeam_BelongsTo(abbreviation: CHAR(3), city: VARCHAR(30), teamName: VARCHAR(30), divisionName: VARCHAR(10))

- divisionName NOT NULL
- divisionName References Division

```
CREATE TABLE `NBATeam_BelongsTo` (
    `abbreviation` CHAR(3),
    `city` VARCHAR(30),
    `teamName` VARCHAR(30),
    `divisionName` VARCHAR(10) NOT NULL,
    PRIMARY KEY (`abbreviation`),
    FOREIGN KEY (`divisionName`) REFERENCES `Division` (`divisionName`)
);
```

NBAPlayer_PlaysFor

NBAPlayer_PlaysFor(**number**: INT, position: CHAR(2), firstName: VARCHAR(30), lastName: VARCHAR(30), height: INT, weight: INT, draftYear: YEAR(4), *team*: CHAR(3))

- ullet team NOT NULL
- team REFERENCES NBATeam BelongsTo(abbreviation) ON DELETE CASCADE
- height in inches
- weight in pounds

NBAStaff WorksFor

NBAStaff_WorksFor(firstName: VARCHAR(30), lastName: VARCHAR(30), job: VARCHAR(30), team: CHAR(3))

- team NOT NULL
- team References NBATeam_BelongsTo(abbreviation) ON DELETE CASCADE

Sponsor Endorses

Sponsor Endorses(company: VARCHAR(30), team: CHAR(3))

- team NOT NULL
- team REFERENCES NBATeam_BelongsTo(abbreviation) ON DELETE CASCADE

NBAGame_Plays_PlayedAt

NBAGame_Plays_PlayedAt(gameDate: DATE, homeScore: INT, awayScore: INT, homeTeam: CHAR(3), awayTeam: CHAR(3), venueName: VARCHAR(30), city: VARCHAR(30))

- home Team NOT NULL
- awayTeam NOT NULL
- venueName NOT NULL
- city NOT NULL
- home Team REFERENCES NBATeam_Belongs To(abbreviation) ON DELETE CASCADE
- awayTeam REFERENCES NBATeam BelongsTo(abbreviation) ON DELETE CASCADE
- venueName REFERENCES Venue
- city references Venue

NBAReferee

NBAReferee(number: INT, firstName: VARCHAR(30), lastName: VARCHAR(30))

Referees

Referees(refNumber: INT, gameDate: DATE, homeTeam: CHAR(3), awayTeam: CHAR(3))

- refNumber References NBAReferee(number)
- gameDate, homeTeam, awayTeam REFERENCES NBAGame_Plays_PlayedAt(gameDate, homeTeam, awayTeam)