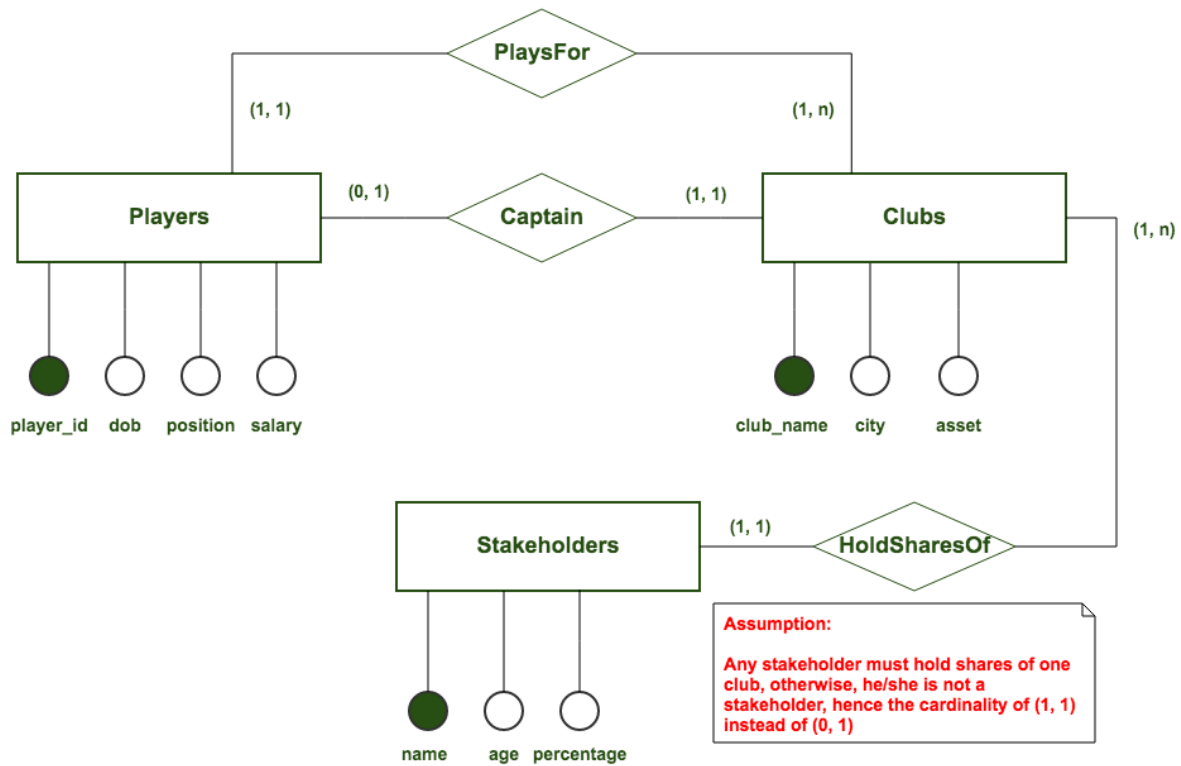


Assignment

Part 1: ER Diagram



Part 2: SQL Statements

For the three entities, I've created three tables each, namely **Players**, **Clubs** and **Stakeholders**. For the three relationships, I've made the following decisions,

Relationship	Decision Made
PlaysFor	Created PlaysFor Table
Captain	Didn't create table, added FK(captain_id) to Clubs table
HoldSharesOf	Didn't create table, added FK(club_name) to Stakeholders table

Players Table:

```
CREATE TABLE Players
(
  player_id INT PRIMARY KEY,
  dob DATE NOT NULL,
  position VARCHAR(64) NOT NULL,
  salary FLOAT NOT NULL,
  CHECK (salary > 0)
);
```

Clubs Table:

```
CREATE TABLE Clubs
(
  club_name VARCHAR(255) PRIMARY KEY,
  city VARCHAR(255) NOT NULL,
  asset FLOAT NOT NULL,
  captain_id INT NOT NULL,
  CHECK (asset > 0),
  FOREIGN KEY(captain_id) REFERENCES Players(player_id)
);
```

PlaysFor Table:

```
CREATE TABLE PlaysFor
(
  player_id INT PRIMARY KEY,
  club_name VARCHAR(255) NOT NULL,
  FOREIGN KEY(player_id) REFERENCES Players(player_id),
  FOREIGN KEY(club_name) REFERENCES Clubs(club_name)
);
```

Stakeholders Table:

```
CREATE TABLE Stakeholders
(
  name VARCHAR(255) PRIMARY KEY,
  age INT NOT NULL,
  club_name VARCHAR(255) NOT NULL,
  percentage FLOAT NOT NULL,
  FOREIGN KEY(club_name) REFERENCES Clubs(club_name),
  CHECK (age > 0),
  CHECK (percentage > 0 AND percentage <=1)
);
```