



SQL COMMANDS:

//entity: player table

```
CREATE TABLE Player (  
    PlayerID INT PRIMARY KEY,  
    Name VARCHAR(100),  
    EloRating INT  
);
```

//entity: event table

```
CREATE TABLE Event (  
    EventID INT PRIMARY KEY,  
    Name VARCHAR(100),  
    Site VARCHAR(100),  
    Date DATE,  
    UNIQUE (Name, Date) //no two events with the same name on the same date  
);
```

// entity: game table

```
CREATE TABLE Game (  
    GameID INT PRIMARY KEY,  
    Round INT,  
    Result CHAR(5) CHECK (Result IN ('1-0', '0-1', '1/2-1/2')),  
    Moves VARCHAR(1000),  
    EventID INT,  
    WhitePlayerID INT,  
    BlackPlayerID INT,  
    FOREIGN KEY (EventID) REFERENCES Event(EventID),  
    FOREIGN KEY (WhitePlayerID) REFERENCES Player(PlayerID),  
    FOREIGN KEY (BlackPlayerID) REFERENCES Player(PlayerID),  
    UNIQUE (EventID, Round, WhitePlayerID, BlackPlayerID)  
    //no round can b played with players in the same roles as another game  
);
```

//create relationship between event and game

```
CREATE TABLE Event_Game (  
    EventID INT,  
    GameID INT,  
    PRIMARY KEY (EventID, GameID),  
    FOREIGN KEY (EventID) REFERENCES Event(EventID),  
    FOREIGN KEY (GameID) REFERENCES Game(GameID)  
);
```

//create weak entity of player\_game

```
CREATE TABLE Player_Game (  

```

```
GameID INT,  
PlayerID INT,  
Role VARCHAR(5) CHECK (Role IN ('White', 'Black')),  
PRIMARY KEY (GameID, PlayerID),  
FOREIGN KEY (GameID) REFERENCES Game(GameID),  
FOREIGN KEY (PlayerID) REFERENCES Player(PlayerID)  
);
```