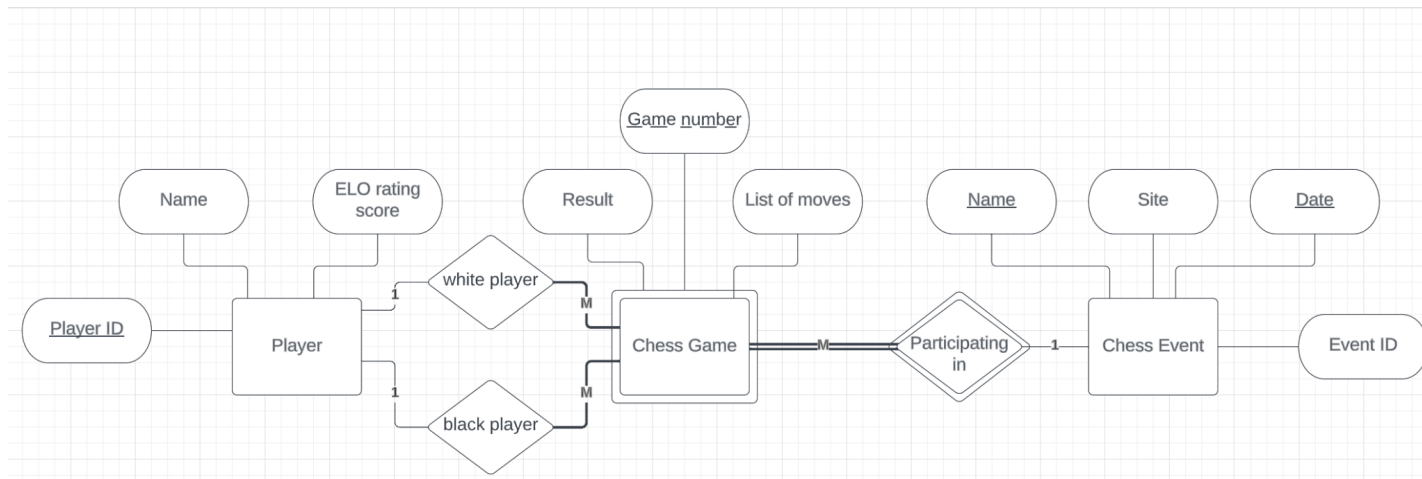


Lab 2: ER Model

Part 1 - ER Diagram for Chess Database



Part 2 - SQL Tables

Players		
PID	Name	ELO score rating

```
CREATE TABLE Players (  
    PID int unsigned auto_increment,  
    Name varchar(255) not null,  
    ELO score rating varchar(255) not null,  
    PRIMARY KEY (Player ID)  
);
```

Table [PID (int unsigned), Name (varchar), ELO score rating (varchar)]

Chess Event			
Name	Date	Site	Event ID

```
CREATE TABLE Chess Event (  
    Name varchar(255) not null,  
    Date date not null,  
    Site varchar(255) not null,
```

Event ID integer unsigned auto increment,
PRIMARY KEY (Name, Date),
UNIQUE (Event ID)

);

Chess Event [Name (varchar), Date (date), Site (varchar), Event ID (integer)]

Chess Game					
Game Number	Event ID	List of moves	Result	White player	Black player

CREATE TABLE Chess Game (
Game number int unsigned auto_increment,
Event ID varchar(255) not null,
List of moves text,
Result varchar (7),
White player int unsigned not null,
Black player int unsigned not null,
Foreign key (Event ID) references Chess Event (Event ID),
Foreign key (White player) references Player (PID),
Foreign key (Black player) references Player (PID),
Primary key (Game ID, Event ID)
);

Chess Game [Game ID (int unsigned), Event ID (varchar), List of moves (text), Result (varchar), White player (int unsigned), Black player (int unsigned)]