6016 Lab 2: ER Model

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Part 1
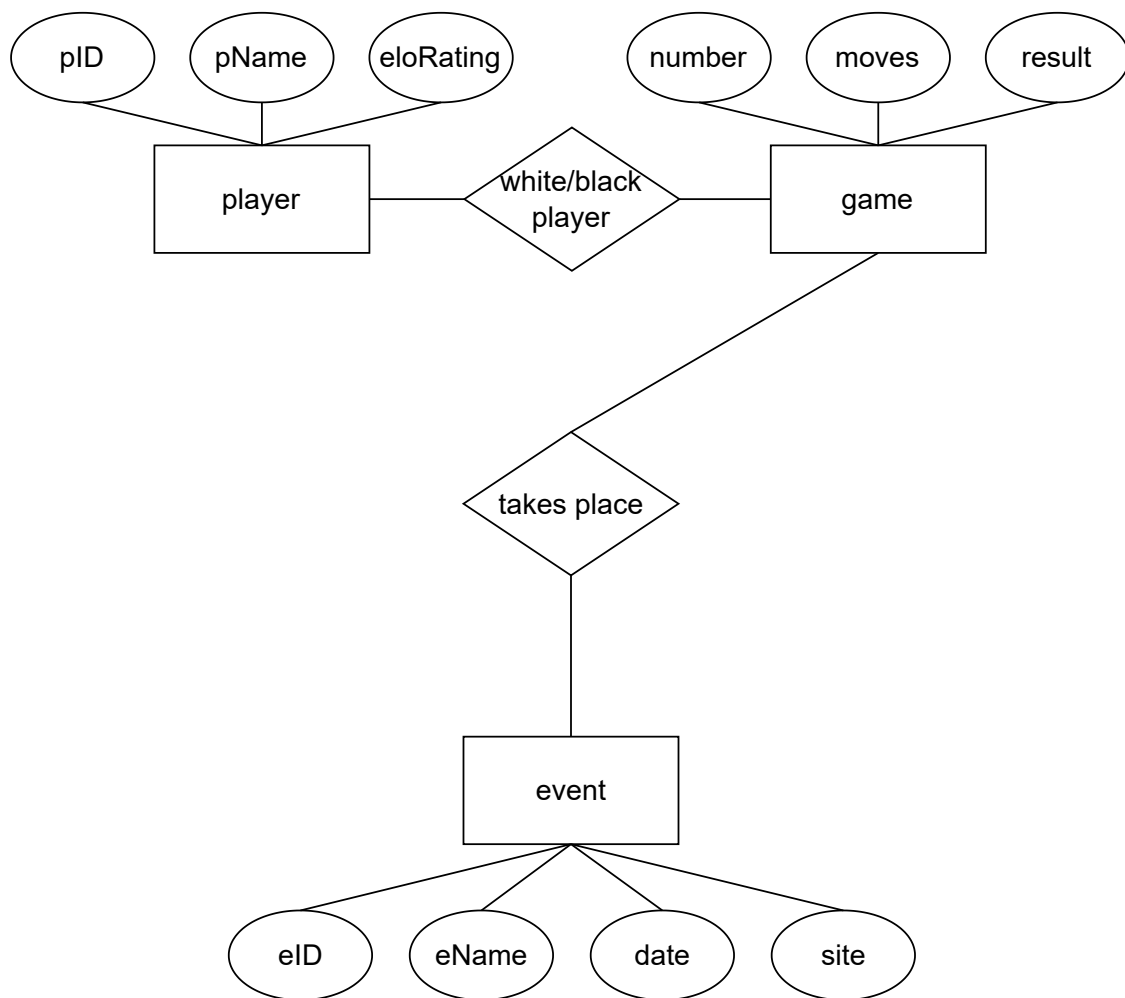

Figure 1: ER Diagram for Chess Database

Part 2

Players [pID (Int), pName (String), eloRating (Int)]

```
CREATE TABLE Players (
    pID UNSIGNED INT,
    pName VARCHAR(127),
    eloRating UNSIGNED INT,
    PRIMARY KEY (pID)
)
```

Games [number (int), moves (String), result (String), eID (int), blackPID (int), whitePID (int)]

```
CREATE TABLE Games (
    number UNSIGNED INT,
    moves VARCHAR(1000),
    result VARCHAR(7),
    eID UNSIGNED INT,
    blackPID UNSIGNED INT,
    whitePID UNSIGNED INT,
    PRIMARY KEY (number),
    FOREIGN KEY (eID) REFERENCES Events(eID),
    FOREIGN KEY (blackPID) REFERENCES Players(pID),
    FOREIGN KEY (whitePID) REFERENCES Players(pID)
)
```

Events [eID (int), eName (String), date (Datetime), site (String)]

```
CREATE TABLE Events (
    eID UNSIGNED INT,
    eName VARCHAR(127),
    date DATETIME,
    site VARCHAR(127),
    PRIMARY KEY (eID)
    UNIQUE (eName, date)
)
```