UEFA CHAMPIONS LEAGUE STATISTICS
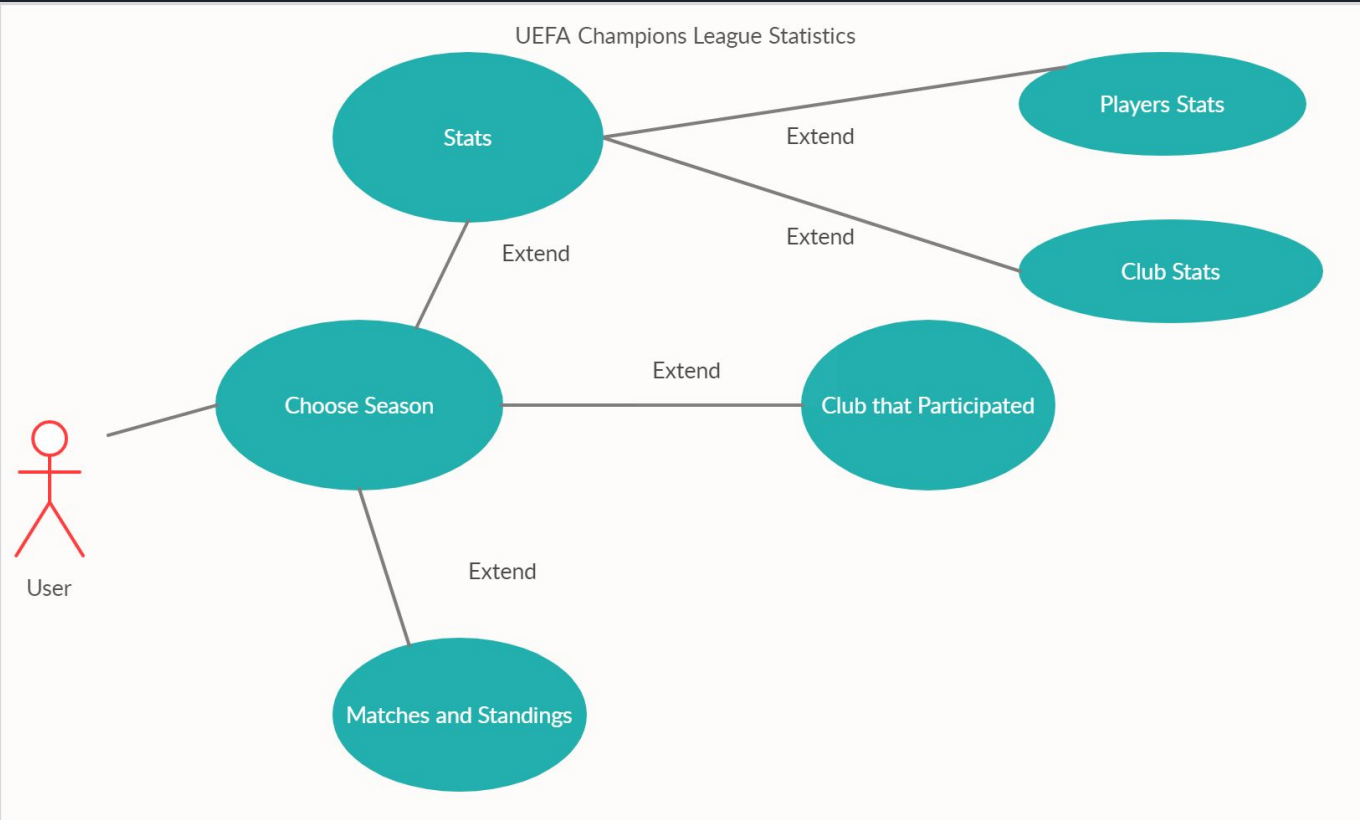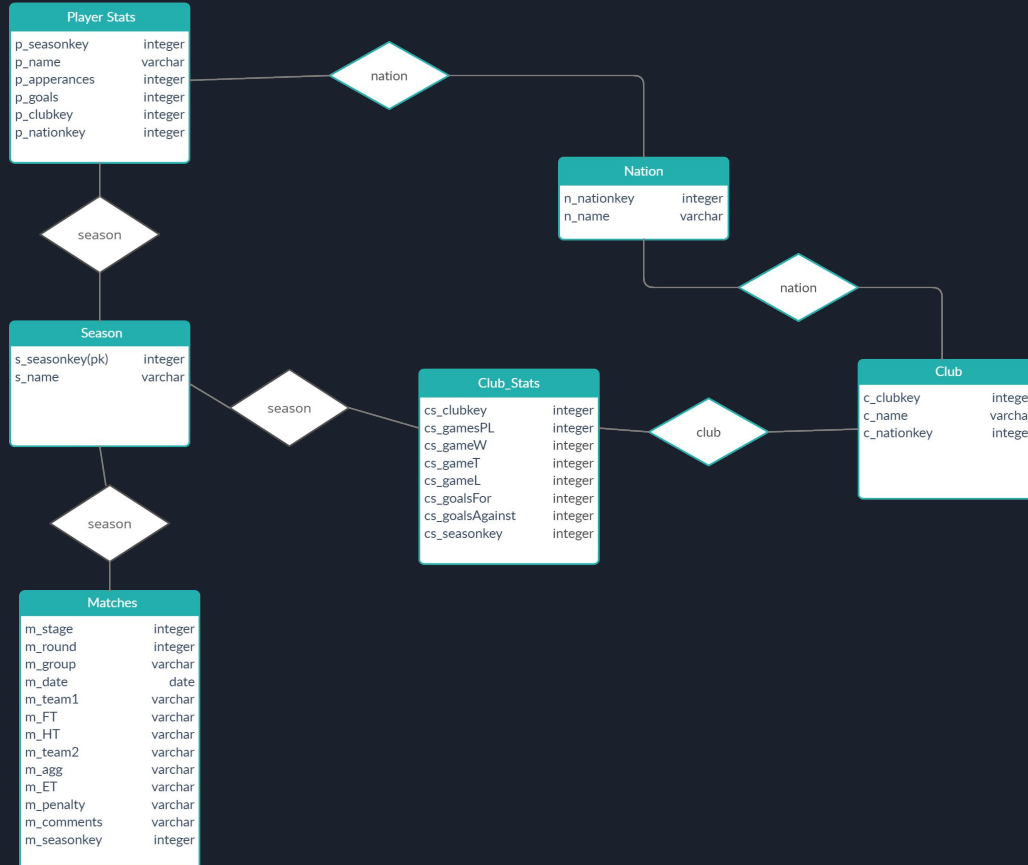
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SYSTEM DESCRIPTION

- Our project is a command line interface where the user inputs certain commands to view UEFA Champions League Statistics from 2010-2016.
- Users can select the season they want to view the statistics for.
- From the selected season they will be able to look at the matches and their results.
  - Standings from the whole competition
  - Clubs that participated in the competition
  - Top players that were part of the clubs in the competition
  - This includes Clubs stats and Player Stats

USE-CASE DIAGRAM

E/R DIAGRAM AND SCHEMA

SCHEMA

```sql
CREATE TABLE seasons (
    s_seasonkey INT PRIMARY KEY,
    s_name VARCHAR(25) not null
);

CREATE TABLE matches (
    m_stage VARCHAR(25),
    m_round VARCHAR(40),
    m_group CHAR(5),
    m_date VARCHAR(50),
    m_team1 VARCHAR (50),
    m_FT VARCHAR (10),
    m_HT VARCHAR (10),
    m_team2 VARCHAR (50),
    m_agg VARCHAR (20),
    m_ET VARCHAR (20),
    m_penalties VARCHAR (20),
    m_comments VARCHAR (30),
    m_seasonkey INT
);
```

```sql
CREATE TABLE club (
    c_clubkey INT NOT NULL,
    c_name VARCHAR(50) NOT NULL,
    c_nationkey INT NOT NULL
);

CREATE TABLE clubStats (
    cs_clubkey INT NOT NULL,
    cs_name VARCHAR(50),
    cs_gamesPL INT NOT NULL,
    cs_gameW INT NOT NULL,
    cs_gameT INT NOT NULL,
    cs_gameL INT NOT NULL,
    cs_goalsFor INT NOT NULL,
    cs_goalsAgainst INT NOT NULL,
    cs_seasonkey INT NOT NULL
);
```

```sql
CREATE TABLE playerStats (
    p_seasonkey INT,
    p_name VARCHAR(20),
    p_apperances INT,
    p_goals INT,
    p_clubkey INT,
    p_nationkey INT
);

CREATE TABLE nation (
    n_nationkey INT NOT NULL,
    n_name INT NOT NULL
);
```

IMPLEMENTATION DETAILS

- We used MySql and Java

- We linked MySql with our Java file using sqlite-jdbc.jar file.

  - With the use of this jar file it allowed us to implement our sql queries in the java file.

- Users can then run the java file with the make run command and input commands to get their desired UEFA Champions League Statistics