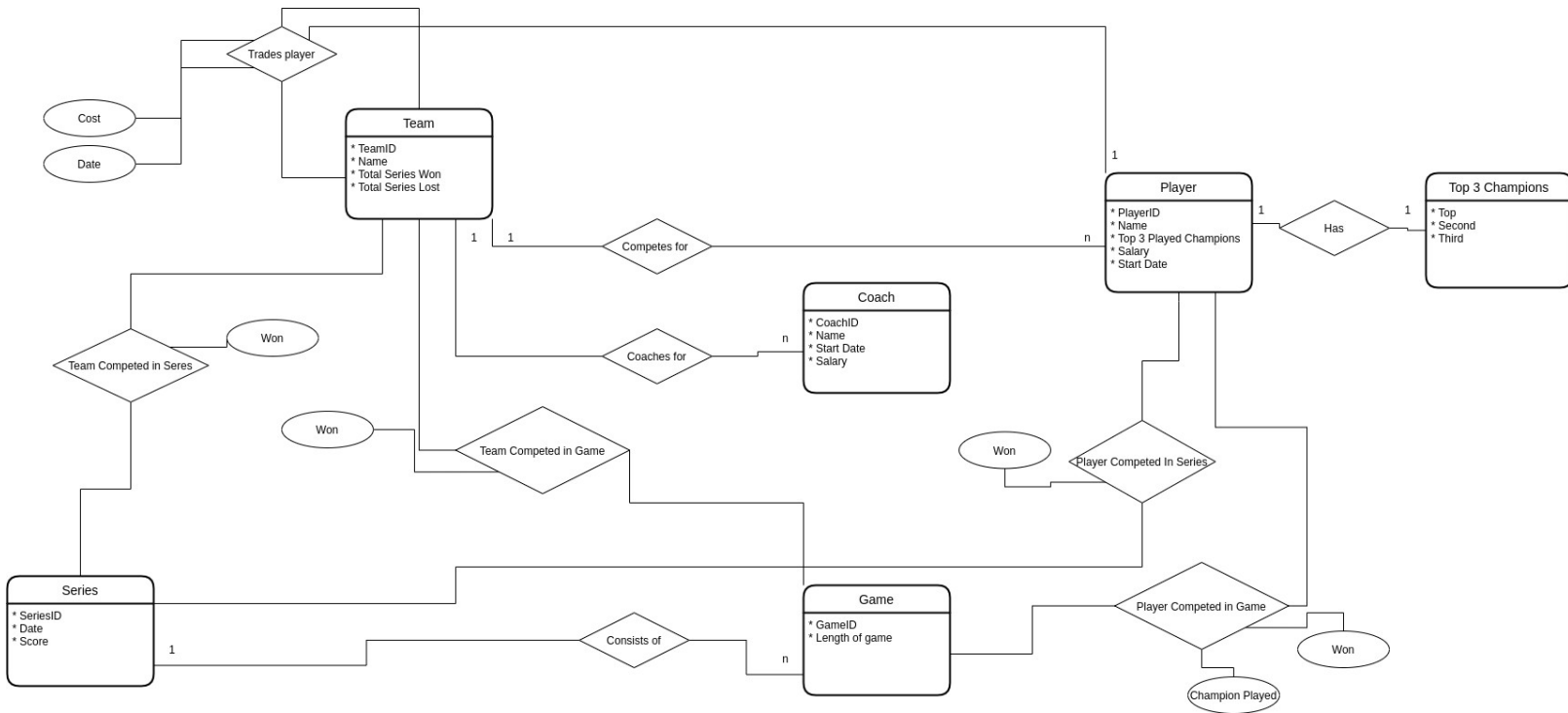


A) E/R Diagram:



Relational Model:

- Team(**TeamID**, Name, Total Series Won, Total Series Lost)
- Player(**PlayerID**, Name, Salary, Start Date, **TeamID**)
- Top3Champions(**PlayerID**, Top, Second, Third)
- Coach(**CoachID**, Name, Start Date, Salary, **TeamID**)
- Game(**GameID**, Length, **SeriesID**)
- Series (**SeriesID**, Date, Score)
- TradesPlayer(**Team1.TeamID**, **Team2.TeamID**, **PlayerID**, Cost, Date)
- TeamCompetedInSeries(**TeamID**, **SeriesID**, Won)
- TeamCompetedInGame(**TeamID**, **GameID**, Won)
- PlayerCompetedInSeries(**TeamID**, **SeriesID**, Won)
- PlayerCompetedInGame(**TeamID**, **GameID**, Champion Played, Won)

B: Schema File:

```

1 Use LCS;
2
3 drop table if exists Teams;
4 drop table if exists TopThree;
5 drop table if exists Players;
6 drop table if exists Coaches;
7 drop table if exists Games;
8 drop table if exists Series;
9 drop table if exists TradedPlayers;
10 drop table if exists TeamCompetesInSeries;
11 drop table if exists TeamCompetesInGames;
12 drop table if exists PlayerCompetesInSeries;
13 drop table if exists PlayerCompetesInGame;
14
15 create table Teams (
16     teamID varchar(5) primary key,
17     name varchar(30),
18     seriesWon int,
19     seriesLost int
20 );
21
22 create table TopThree (
23     playerID int primary key,
24     top varchar(20),
25     second varchar(20),
26     third varchar(20)
27 );
28
29 create table Players (
30     playerID int primary key,
31     name varchar(30),
32     salary int,
33     startDate date,
34     teamID varchar(5),
35     team2ID varchar(5),
36     playerID int,
37     cost int,
38     date date
39 );
40
41 create table TeamCompetesInSeries(
42     teamID varchar(5),
43     seriesID int,
44     won int
45 );
46
47 create table TeamCompetesInGames(
48     teamID varchar(5),
49     gameID int,
50     won int
51 );
52
53 create table PlayerCompetesInSeries(
54     playerID int,
55     seriesID int,
56     won int
57 );
58
59 create table PlayerCompetesInGame(
60     playerID int,
61     gameID int,
62     won int
63 );
64
65
66
67
68
69
70
71
72
73
74
75
76
77
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```

MySQL Output:

```
Script started on 2021-01-25 21:14:39-07:00 [TERM="xterm-256color" TTY="/dev/pts/2"
COLUMNS="80" LINES="24"]
#]0;jbrooksbank@ubuntuDesk:
~/databases##[01;32mjbrooksbank@ubuntuDesk#[00m:#[01;34m~/databases#[00m$ sudo
mysql
[sudo] password for jbrooksbank:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 8.0.22-0ubuntu0.20.04.3 (Ubuntu)
```

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> source schje#[19G#[K#[18G#[Kema.sql
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

```
Database changed
Query OK, 0 rows affected (0.00 sec)
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
. . .
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> show tables;
```

```
+-----+
| Tables_in_LCS |
+-----+
| Coaches        |
| Games          |
| PlayerCompetesInGame |
| PlayerCompetesInSeries |
| Players        |
| Series         |
| TeamCompetesInGames |
| TeamCompetesInSeries |
| Teams          |
| TopThree       |
| TradedPlayers  |
+-----+
```

```
11 rows in set (0.00 sec)
```

```
mysql> describe *;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '*' at line 1
```

```
mysql> worth a try
```

```
mysql> describe Coaches;
```

```
+-----+-----+-----+-----+-----+-----+
```

Field	Type	Null	Key	Default	Extra
coachID	int	NO	PRI	NULL	
name	varchar(30)	YES		NULL	
startDate	date	YES		NULL	
salary	int	YES		NULL	
teamID	varchar(5)	YES		NULL	

5 rows in set (0.01 sec)

mysql> describe Games;

Field	Type	Null	Key	Default	Extra
gameID	int	NO	PRI	NULL	
lengthGame	time	YES		NULL	
seriesID	int	YES		NULL	

3 rows in set (0.00 sec)

mysql> describe PlayerCompetesInGame;

Field	Type	Null	Key	Default	Extra
playerID	int	YES		NULL	
gameID	int	YES		NULL	
won	int	YES		NULL	

3 rows in set (0.00 sec)

mysql> describe PlayerCompetesInSeries;

Field	Type	Null	Key	Default	Extra
playerID	int	YES		NULL	
seriesID	int	YES		NULL	
won	int	YES		NULL	

3 rows in set (0.01 sec)

mysql> describe Players;

Field	Type	Null	Key	Default	Extra
playerID	int	NO	PRI	NULL	
name	varchar(30)	YES		NULL	
salary	int	YES		NULL	
startDate	date	YES		NULL	
teamID	varchar(5)	YES		NULL	

5 rows in set (0.00 sec)

mysql> describe Series;

Field	Type	Null	Key	Default	Extra
seriesID	int	NO	PRI	NULL	
seriesDate	date	YES		NULL	
score	varchar(20)	YES		NULL	

3 rows in set (0.00 sec)

mysql> describe TeamCompetesInGames;

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

teamID	varchar(5)	YES		NULL	
gameID	int	YES		NULL	
won	int	YES		NULL	

3 rows in set (0.00 sec)

mysql> describe TeamCompetesInSeries;

Field	Type	Null	Key	Default	Extra
teamID	varchar(5)	YES		NULL	
seriesID	int	YES		NULL	
won	int	YES		NULL	

3 rows in set (0.00 sec)

mysql> describe Teams;

Field	Type	Null	Key	Default	Extra
teamID	varchar(5)	NO	PRI	NULL	
name	varchar(30)	YES		NULL	
seriesWon	int	YES		NULL	
seriesLost	int	YES		NULL	

4 rows in set (0.01 sec)

mysql> describe TopThree;

Field	Type	Null	Key	Default	Extra
playerID	int	NO	PRI	NULL	
top	varchar(20)	YES		NULL	
second	varchar(20)	YES		NULL	
third	varchar(20)	YES		NULL	

4 rows in set (0.01 sec)

mysql> describe TradedPlayers;

Field	Type	Null	Key	Default	Extra
team1ID	varchar(5)	YES		NULL	
team2ID	varchar(5)	YES		NULL	
playerID	int	YES		NULL	
cost	int	YES		NULL	
date	date	YES		NULL	

5 rows in set (0.00 sec)

mysql> insert into Players VALUES("1", "Doublelift", 120000, DATE '2020-05-01', "TSM");

Query OK, 1 row affected (0.01 sec)

mysql> insert into Players VALUES("2", "Meteos", 120000, DATE '2020-07-02', "100T");

Query OK, 1 row affected (0.01 sec)

mysql> insert into Players VALUES("3", "Pobelter", 120000, DATE '2020-11-23', "CLG");

Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Players;

playerID	name	salary	startDate	teamID
1	Doublelift	120000	2020-05-01	TSM
2	Meteos	120000	2020-07-02	100T
3	Pobelter	120000	2020-11-23	CLG

	1	Doublelift	120000	2020-05-01	TSM	
	2	Meteos	120000	2020-07-02	100T	
	3	Pobelter	120000	2020-11-23	CLG	

3 rows in set (0.00 sec)

mysql> exit

Bye

#]0;jbrooksbank@ubuntuDesk:

~/databases##[01;32mjbrooksbank@ubuntuDesk#[00m:#[01;34m~/databases#[00m\$ exit

exit

Script done on 2021-01-25 21:28:06-07:00 [COMMAND_EXIT_CODE="0"]