DATABASE MANAGEMENT SYSTEM ASSIGNMENT-1 IPL DATABASE

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- 4) Enforcing primary and foreign keys.
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Abstract

To create an IPL database, we will require a total of 6 table. One- for the team details, two- for the player details, three- for the sponsors, four- for the match venue details, five- for the city it represents and six- for the owner who owns the team. The basic attributes would be the name and ID of any entity, besides this descriptive attributes can also be present. Entity names can have a domain type varchar2 where the ID can be number. The relationships between various entity sets helps in creating an IPL database. Few of these entities have primary keys which turn out to be the foreign keys in the rest.

LIST OF REQUIREMENTS:

List of players.
Details of the players, teams, owners.
Details of sponsors.
Location of the match being played .

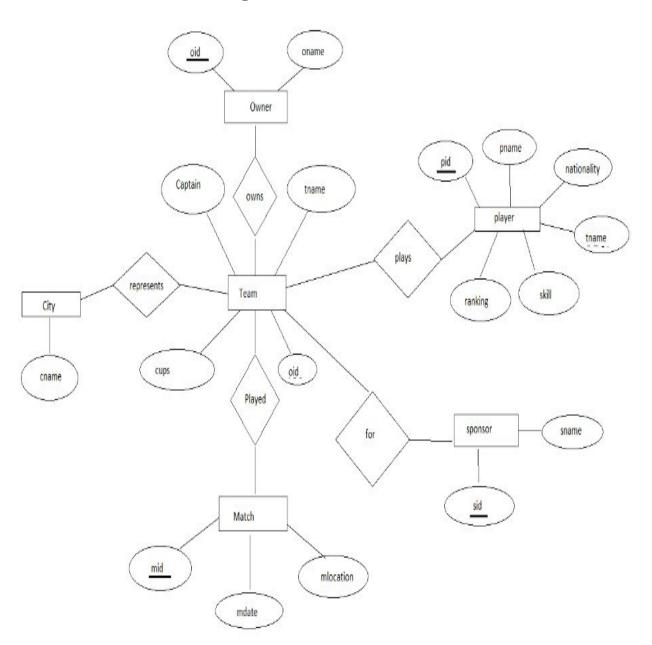
CONSTRAINTS APPLIED:

The database has two constraints that are applied- The primary key constraint and foreign key constraint. The primary keys are:

- 1) oid in the owner table.
- 2)pid in the player table.
- 3)mid in the match table.
- 4) sid in the sponsor table.

The attributes oid and tname act as foreign keys in the team table and player table respectively.

ER Diagram:



dbms assignment 1 title: IPL database

DDL Commands:

```
SQL> create table team(
2 captian varchar2(20),
3 tname varchar2(20),
4 cups number(5));
Table created.
```

```
SQL> create table city(
 2 cname varchar2(20),
 3
SQL> ed
SP2-0110: Cannot create save file "afiedt.buf"
SQL> create table city(
 2 cname varchar2(20));
Table created.
SQL> create table match(
 2 mid number(5) primary key,
 3 mdate date,
 4 mlocation varchar2(20));
Table created.
SQL> create table sponsor(
 2 sid number(5) primary key,
 3 sname varchar2(20));
Table created.
```

roll no:1602-18-737-103 name:sandali

SQL> desc player; Name	Null?	Туре
PID PNAME RANKING NATIONALITY SKILL TNAME	NOT NULL	NUMBER(5) VARCHAR2(20) NUMBER(5) VARCHAR2(20) VARCHAR2(20) VARCHAR2(20) VARCHAR2(20)
SQL> desc team; Name	Null?	Туре
CAPTIAN TNAME CUPS OID	NOT NULL	VARCHAR2(20) VARCHAR2(20) NUMBER(5) NUMBER(5)
SQL> desc owner; Name	Null?	Туре
OID ONAME	NOT NULL	NUMBER(5) VARCHAR2(20)
SQL> desc sponsor; Name	Null?	Туре
SID SNAME	NOT NULL	NUMBER(5) VARCHAR2(20)
SQL> desc match; Name	Null?	Туре
MID MDATE MLOCATION	NOT NULL	NUMBER(5) DATE VARCHAR2(20)
SQL> desc city; Name	Null?	Туре
CNAME		VARCHAR2(20)

DML Commands:

```
SQL> desc team;
                                           Nu11?
Name
                                                    Type
CAPTIAN
                                                    VARCHAR2(20)
TNAME
                                           NOT NULL VARCHAR2(20)
CUPS
                                                    NUMBER(5)
OID
                                                    NUMBER(5)
SQL> insert into owner values(&oid,'&oname');m
SQL> insert into owner values(&oid,'&oname');
Enter value for oid: 101
Enter value for oname: srk
old 1: insert into owner values(&oid,'&oname')
new 1: insert into owner values(101, srk')
1 row created.
SQL> insert into owner values(&oid,'&oname');
Enter value for oid: 102
Enter value for oname: nita ambani
old 1: insert into owner values(&oid,'&oname')
new 1: insert into owner values(102, 'nita ambani')
1 row created.
SQL> /
Enter value for oid: 103
Enter value for oname: vijay mallya
     1: insert into owner values(&oid, '&oname')
new 1: insert into owner values(103,'vijay mallya')
1 row created.
SQL> /
Enter value for oid: 104
Enter value for oname: kalanithi maran
old 1: insert into owner values(&oid,'&oname')
new 1: insert into owner values(104, 'kalanithi maran')
1 row created.
SQL> /
Enter value for oid: 105
Enter value for oname: n srinivasan
old 1: insert into owner values(&oid,'&oname')
new 1: insert into owner values(105,'n srinivasan')
1 row created.
```

```
SQL> /
Enter value for mid: 201
Enter value for mdate: 23-mar-19
Enter value for mlocation: chennai
      1: insert into match values(&mid,'&mdate','&mlocation')
1: insert into match values(201,'23-mar-19','chennai')
1 row created.
SQL> /
Enter value for mid: 202
Enter value for mdate: 24-mar-19
Enter value for mlocation: mumbai
old 1: insert into match values(&mid,'&mdate','&mlocation')
      1: insert into match values(202, '24-mar-19', 'mumbai')
1 row created.
SQL> /
Enter value for mid: 203
Enter value for mdate: 28-mar-19
Enter value for mlocation: bengaluru
old 1: insert into match values(&mid,'&mdate','&mlocation')
new 1: insert into match values(203,'28-mar-19','bengaluru')
1 row created.
SQL> /
Enter value for mid: 204
Enter value for mdate: 29-mar-19
Enter value for mlocation: hyderabad
old 1: insert into match values(&mid,'&mdate','&mlocation')
new 1: insert into match values(204,'29-mar-19','hyderabad')
1 row created.
SQL> /
Enter value for mid: 205
Enter value for mdate: 27-mar-19
Enter value for mlocation: kolkata
old 1: insert into match values(&mid,'&mdate','&mlocation')
new 1: insert into match values(205,'27-mar-19','kolkata')
1 row created.
SQL> insert into sponsor values(&sid,'&sname');
Enter value for sid: 301
Enter value for sname: nokia
old 1: insert into sponsor values(&sid,'&sname')
new 1: insert into sponsor values(301, nokia')
```

```
SQL> /
Enter value for sid: 302
Enter value for sname: reliance
old 1: insert into sponsor values(&sid,'&sname')
new 1: insert into sponsor values(302, 'reliance')
1 row created.
SQL> /
Enter value for sid: 303
Enter value for sname: suntv
old 1: insert into sponsor values(&sid,'&sname')
new 1: insert into sponsor values(303,'suntv')
1 row created.
SQL> /
Enter value for sid: 304
Enter value for sname: muthoot group
old 1: insert into sponsor values(&sid,'&sname')
new 1: insert into sponsor values(304, muthoot group')
1 row created.
SQL> /
Enter value for sid: 305
Enter value for sname: britania
old 1: insert into sponsor values(&sid,'&sname')
new 1: insert into sponsor values(305, 'britania')
1 row created.
SQL> insert into city values('&cname');
Enter value for cname: mumbai
old 1: insert into city values('&cname')
    1: insert into city values('mumbai')
1 row created.
SQL> /
Enter value for cname: chennai
old 1: insert into city values('&cname')
    1: insert into city values('chennai')
1 row created.
SQL> /
Enter value for cname: hyderabad
old 1: insert into city values('&cname')
new 1: insert into city values('hyderabad')
```

```
SQL> /
Enter value for cname: kolkata
old 1: insert into city values('&cname')
new 1: insert into city values('kolkata')
1 row created.
SQL> /
Enter value for cname: bengaluru
old 1: insert into city values('&cname')
new 1: insert into city values('bengaluru')
1 row created.
SQL> select *from owner
2 select *from owner;
select *from owner
ERROR at line 2:
ORA-00933: SQL command not properly ended
SQL> select *from owner;
      OID ONAME
      101 srk
      102 nita ambani
      103 vijay mallya
      104 kalanithi maran
      105 n srinivasan
SQL> desc team;
                                         Null? Type
Name
CAPTIAN
                                                   VARCHAR2(20)
                                          NOT NULL VARCHAR2(20)
TNAME
CUPS
                                                   NUMBER(5)
OID
                                                   NUMBER(5)
SQL> alter table team rename column captian to captain;
Table altered.
SQL> insert into team values('&captain','&tname',&cups,&oid);
Enter value for captain: dinesh karthik
Enter value for tname: kkr
Enter value for cups: 2
Enter value for oid: 101
old 1: insert into team values('&captain','&tname',&cups,&oid)
```

```
1 row created.
SQL> /
Enter value for captain: rohith sharma
Enter value for tname: mi
Enter value for cups: 4
Enter value for oid: 102
old 1: insert into team values('&captain','&tname',&cups,&oid)
new 1: insert into team values('rohith sharma','mi',4,102)
1 row created.
Enter value for captain: virat kohli
Enter value for tname: rcb
Enter value for cups: 0
Enter value for oid: 103
old 1: insert into team values('&captain','&tname',&cups,&oid)
new 1: insert into team values('virat kohli','rcb',0,103)
1 row created.
SQL> /
Enter value for captain: kane williamson
Enter value for tname: srh
Enter value for cups: 1
Enter value for oid: 104
old 1: insert into team values('&captain','&tname',&cups,&oid)
new 1: insert into team values('kane williamson','srh',1,104)
1 row created.
SQL> /
Enter value for captain: ms dhoni
Enter value for tname: csk
Enter value for cups: 3
Enter value for oid: 105
old 1: insert into team values('&captain','&tname',&cups,&oid)
    1: insert into team values('ms dhoni','csk',3,105)
1 row created.
```

```
SQL> insert into player values(&pid,'&pname','&ranking','&nationality','&skill','&tname');
Enter value for pid: 401
Enter value for pname: nitish rana
Enter value for ranking: 11
Enter value for nationality: indian
Enter value for skill: batsman
Enter value for tname: kkr
old 1: insert into player values(&pid,'&pname','&ranking','&nationality','&skill','&tname')
new 1: insert into player values(401,'nitish rana','11','indian','batsman','kkr')
1 row created.
SQL> /
Enter value for pid: 402
Enter value for pname: kieron pollard
Enter value for ranking: 77
Enter value for nationality: trinidadian
Enter value for skill: allrounder
Enter value for tname: mi
old 1: insert into player values(&pid,'&pname','&ranking','&nationality','&skill','&tname')
new 1: insert into player values(402,'kieron pollard','77','trinidadian','allrounder','mi')
1 row created.
SQL> /
Enter value for pid: 403
Enter value for pname: chris gayle
Enter value for ranking: 43
Enter value for nationality: jamaican
Enter value for skill: batsman
Enter value for tname: rcb
old 1: insert into player values(&pid,'&pname','&ranking','&nationality','&skill','&tname')
new 1: insert into player values(403,'chris gayle','43','jamaican','batsman','rcb')
1 row created.
SQL> /
Enter value for pid: 404
Enter value for pname: david warner
Enter value for ranking: 7
Enter value for nationality: australian
Enter value for skill: batsman
Enter value for tname: srh
old 1: insert into player values(&pid,'&pname','&ranking','&nationality','&skill','&tname')
new 1: insert into player values(404,'david warner','7','australian','batsman','srh')
1 row created.
```

```
1 row created.
SQL> /
Enter value for pid: 405
Enter value for pname: ravindra jadeja
Enter value for ranking: 1
Enter value for nationality: indian
Enter value for skill: all rounder
Enter value for tname: csk

Enter value for tname: csk

old 1: insert into player values(&pid,'&pname','&ranking','&nationality','&skill','&tname')

new 1: insert into player values(405,'ravindra jadeja','1','indian','all rounder','csk')
1 row created.
SQL> select * from team;
CAPTAIN
                                                                 CUPS
                            TNAME
                                                                                 OID
dinesh karthik
                            kkr
                                                                                 101
rohith sharma
                            mi
                                                                                 102
virat kohli
                                                                     0
                                                                                 103
                            rcb
kane williamson
                            srh
                                                                                 104
                                                                                 105
ms dhoni
                            csk
```

roll no:1602-18-737-103 name:sandali

```
SQL> select*from owner;
    OID ONAME
   101 srk
    102 nita ambani
    103 vijay mallya
    104 kalanithi maran
    105 n srinivasan
SQL> select *from player;
PID PNAME RANKING NATIONALITY
SKILL TNAME
401 nitish rana
atsman kkr
                        11 indian
batsman
   402 kieron pollard
                     77 trinidadian
allrounder mi
403 chris gayle
                  43 jamaican
batsman rcb
  PID PNAME
                   RANKING NATIONALITY
SKILL TNAME
  404 david warner 7 australian
batsman srh
   405 ravindra jadeja 1 indian
all rounder csk
SQL> select*from sponsor;
    SID SNAME
    301 nokia
    302 reliance
    303 suntv
    304 muthoot group
    305 britania
```

```
SQL> select*from match;

MID MDATE MLOCATION

201 23-MAR-19 chennai
202 24-MAR-19 mumbai
203 28-MAR-19 bengaluru
204 29-MAR-19 hyderabad
205 27-MAR-19 kolkata

SQL> select*from city;

CNAME

mumbai
chennai
hyderabad
kolkata
bengaluru
```