

# **DBMS PROJECT**

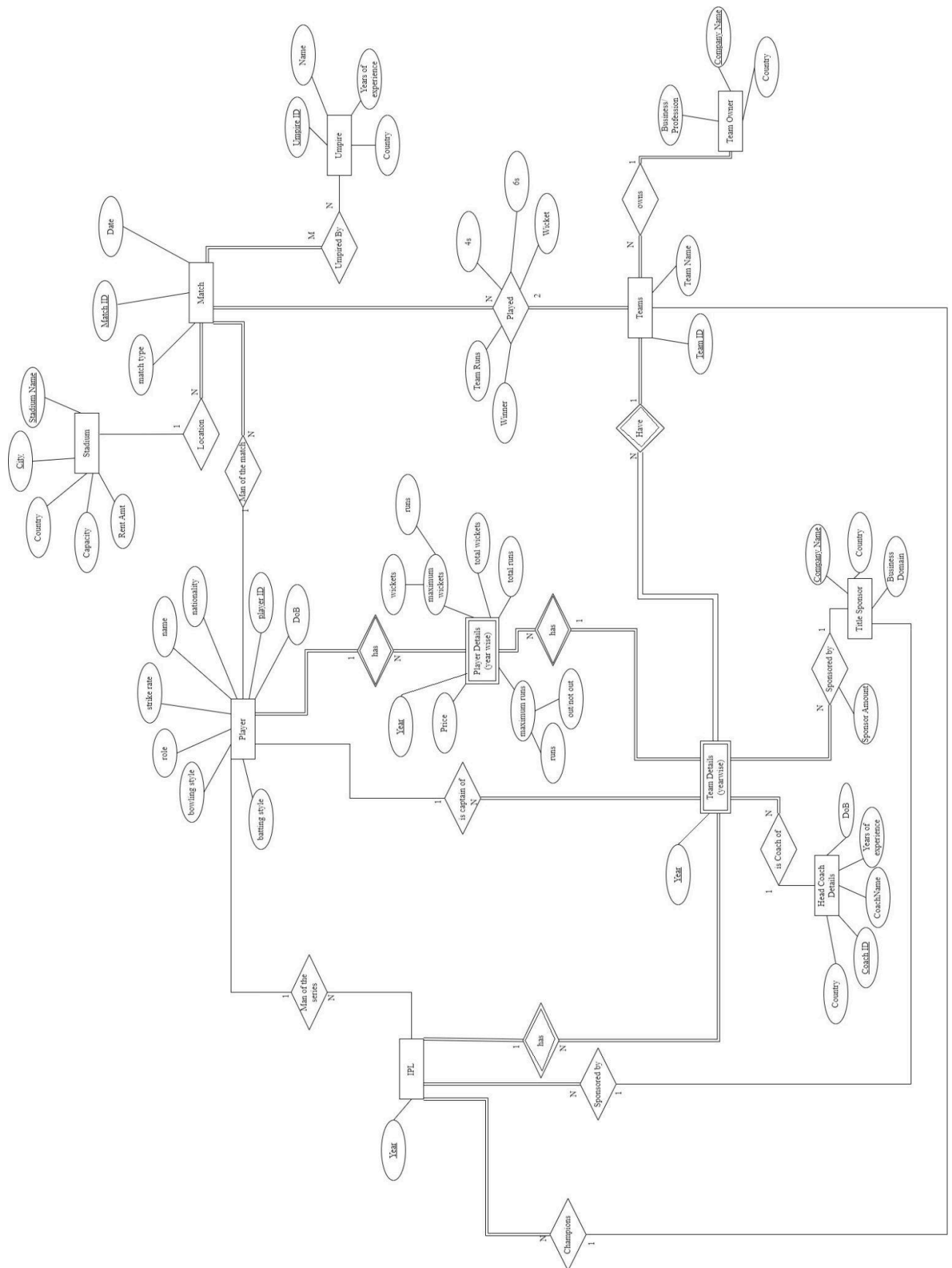
on

**IPL DATA**

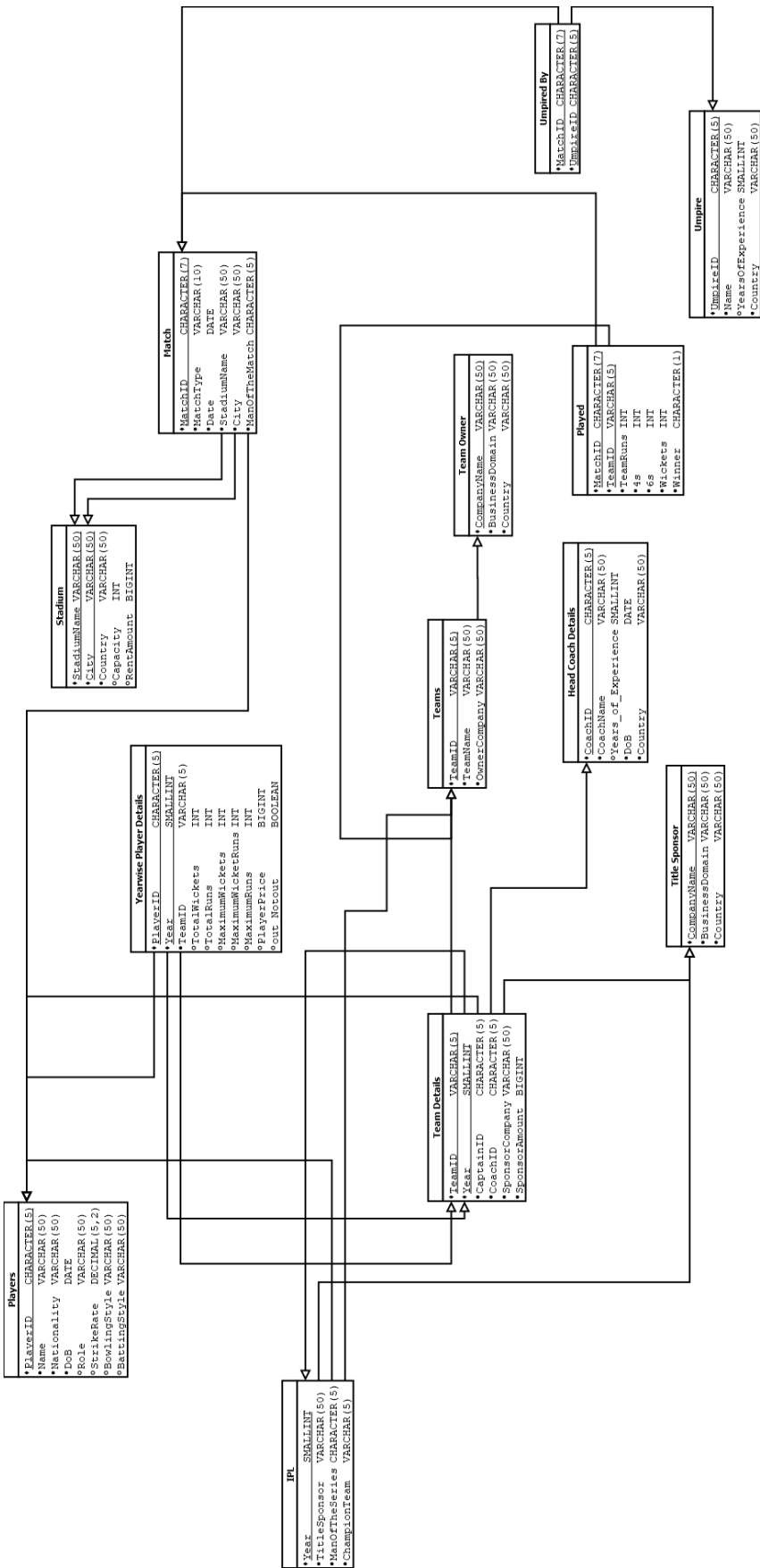
by

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### ER Diagram:



RELATIONAL Diagram:



# **RELATIONAL SCHEMA:**

## **1.First Normal Form:**

For a table to be in the first normal form, it should follow the following 4 rules:

- 1.It should only have single(atomic) valued attributes/columns.
- 2.Values stored in a column should be of the same domain.
- 3.All the columns in a table should have unique names.
- 4.And the order in which data is stored should not matter.

## **2.Second Normal Form:**

For a table to be in Second Normal Form:

- 1.It should be in the First Normal Form.
- 2.And, it should not have partial dependency.

What is Partial Dependency?

When a table has a primary key that is made up of two or more columns, then all the columns(not included in the primary key) in that table should depend on the entire primary key and not on a part of it. If any column(which is not in the primary key) depends on a part of the primary key then we say we have Partial dependency in the table.

## **3.Third Normal Form:**

A table is said to be in the Third Normal Form when:

- 1.It satisfies the First Normal Form and the Second Normal Form.
- 2.And, it doesn't have Transitive Dependency.

What is Transitive Dependency?

In a table we have some column that acts as the primary key and other columns depend on this column. But what if a column that is not the primary key depends on another column that is also not a primary key or part of it? Then we have Transitive dependency in our table.

## **4.BCNF:**

This is a higher version of the Third Normal Form.

A 3NF table that does not have multiple overlapping candidate keys is said to be in BCNF.

For a table to be in BCNF, the following conditions must be satisfied:

- 1.R must be in 3rd Normal Form.
- 2.And, for each functional dependency ( $X \rightarrow Y$ ), X should be a Super Key.

## **Proof that relations are in Boyce-Codd Normal Form(Attributes are included below):**

### **1. 'Players' relation :**

- Attributes :

Players {PlayerID, Name, Nationality, DoB, Role, StrikeRate, BowlingStyle, BattingStyle}

- Functional dependencies :

PlayerID  $\rightarrow$  Name

PlayerID  $\rightarrow$  Nationality

PlayerID  $\rightarrow$  DoB

PlayerID  $\rightarrow$  Role

PlayerID  $\rightarrow$  StrikeRate

PlayerID  $\rightarrow$  BowlingStyle

PlayerID  $\rightarrow$  BattingStyle

Let X = PlayerID

X+ = {PlayerID, Name, Nationality, DoB, Role, StrikeRate, BowlingStyle, BattingStyle}

Thus, Primary key = PlayerID

The left side of all the FDs in the minimal set of FDs for the relation 'Players' is PlayerID, which is the primary key of this relation, so "Players" is in BCNF.

### **2. 'IPL' relation :**

- Attributes :

IPL {Year, TitleSponsor, ManOfTheSeries, ChampionTeam}

- Functional dependencies :

Year  $\rightarrow$  TitleSponsor

Year  $\rightarrow$  ManOfTheSeries

Year  $\rightarrow$  ChampionTeam

Let X = Year

X+ = {Year, TitleSponsor, ManOfTheSeries, ChampionTeam}

Thus, Primary key = Year

The left side of all the FDs in the minimal set of FDs for the relation 'IPL' is Year, which is the primary key of this relation, so "IPL" is in BCNF.

### **3. 'Stadium' relation :**

- Attributes :

Stadium {StadiumName, City, Country, Capacity, RentAmount}

- Functional dependencies :

{StadiumName, City}  $\rightarrow$  Country

{StadiumName, City}  $\rightarrow$  Capacity

{StadiumName, City}  $\rightarrow$  RentAmount

Let X = {StadiumName, City}

X+ = {StadiumName, City, Country, Capacity, RentAmount }

Thus, Primary key = {StadiumName, City}

The left side of all the FDs in the minimal set of FDs for the relation 'Stadium' is {StadiumName, City}, which is the primary key of this relation, so "Stadium" is in BCNF.

#### 4. 'HeadCoachDetails' relation :

- Attributes :

HeadCoachDetails {CoachID, CoachName, YearsOfExperience, DoB, Country}

- Functional dependencies :

CoachID  $\rightarrow$  CoachName

CoachID  $\rightarrow$  YearsOfExperience

CoachID  $\rightarrow$  DoB

CoachID  $\rightarrow$  Country

Let X = CoachID

X+ = {CoachID, CoachName, YearsOfExperience, DoB, Country}

Thus, Primary key = CoachID

The left side of all the FDs in the minimal set of FDs for the relation 'HeadCoachDetails' is CoachID, which is the primary key of this relation, so "HeadCoachDetails" is in BCNF.

#### 5. 'Umpire' relation :

- Attributes :

Umpire {UmpireID, Name, YearsOfExperience, Country}

- Functional dependencies :

UmpireID  $\rightarrow$  Name

UmpireID  $\rightarrow$  YearsOfExperience

UmpireID  $\rightarrow$  Country

Let X = UmpireID

X+ = {UmpireID, Name, YearsOfExperience, Country}

Thus, Primary key = UmpireID

The left side of all the FDs in the minimal set of FDs for the relation 'Umpire' is UmpireID, which is the primary key of this relation, so "Umpire" is in BCNF.

#### 6. 'UmpiredBy' relation :

- Attributes :

UmpiredBy {MatchID, UmpireID}

Here Primary key = {MatchID, UmpireID}

According to the theorem, all attribute primary key relations are always in BCNF.

Hence "UmpiredBy" is in BCNF.

#### 7. 'TeamOwner' relation :

- Attributes :

TeamOwner {CompanyName, BusinessDomain, Country}

- Functional dependencies :

CompanyName  $\rightarrow$  BusinessDomain

CompanyName  $\rightarrow$  Country

Let X = CompanyName

X+ = {CompanyName, BusinessDomain, Country}

Thus, Primary key = CompanyName

The left side of all the FDs in the minimal set of FDs for the relation 'TeamOwner' is CompanyName, which is the primary key of this relation, so "TeamOwner" is in BCNF.

#### 8. 'TitleSponsor' relation :

- Attributes :

TitleSponsor {CompanyName, BusinessDomain, Country}

- Functional dependencies :

CompanyName  $\rightarrow$  BusinessDomain

CompanyName  $\rightarrow$  Country

Let X = CompanyName

X+ = {CompanyName, BusinessDomain, Country}

Thus, Primary key = CompanyName

The left side of all the FDs in the minimal set of FDs for the relation 'TitleSponsor' is CompanyName, which is the primary key of this relation, so "TitleSponsor" is in BCNF.

### 9. 'YearWisePlayerDetails' relation :

- Attributes :

YearWisePlayerDetails {TeamID, PlayerID, Year, TotalWickets, TotalRuns, MaximumWickets, MaximumWicketRuns, MaximumRuns, PlayerPrice Out-Notout}

- Functional dependencies :

{PlayerID, Year}  $\rightarrow$  TotalWickets

{PlayerID, Year}  $\rightarrow$  TotalRuns

{PlayerID, Year}  $\rightarrow$  MaximumWickets

{PlayerID, Year}  $\rightarrow$  MaximumWicketRuns

{PlayerID, Year}  $\rightarrow$  MaximumRuns

{PlayerID, Year}  $\rightarrow$  Out-Notout

{PlayerID, Year}  $\rightarrow$  PlayerPrice

{PlayerID, Year}  $\rightarrow$  TeamID

Let X = {PlayerID, Year}

X+ = {TeamID, PlayerID, Year, TotalWickets, TotalRuns, MaximumWickets, MaximumWicketRuns, MaximumRuns, Out-Notout, PlayerPrice}

Thus, Primary key = {PlayerID, Year}

The left side of all the FDs in the minimal set of FDs for the relation 'YearWisePlayerDetails' is {PlayerID, Year}, which is the primary key of this relation, so "YearWisePlayerDetails" is in BCNF.

### 10. 'TeamDetails' relation :

- Attributes :

Teams {Year, TeamID, CaptainID, CoachID, SponsorCompany, SponsorAmount}

- Functional dependencies :

{TeamID, Year}  $\rightarrow$  CaptainID

{TeamID, Year}  $\rightarrow$  CoachID

{TeamID, Year}  $\rightarrow$  SponsorCompany

{TeamID, Year}  $\rightarrow$  SponsorAmount

Let X = {TeamID, Year}

X+ = {Year, TeamID, CaptainID, CoachID, SponsorCompany, SponsorAmount}

Thus, Primary key = {TeamID, Year}

The left side of all the FDs in the minimal set of FDs for the relation 'Teams' is {TeamID, Year}, which is the primary key of this relation, so "Teams" is in BCNF.

Earlier, this table also had attributes, TeamName and OwnerCompany, but as the relation was not in BCNF, we have decomposed the table into two tables, 'Teams' and 'TeamDetails' both of which are in BCNF.

### 11. 'Teams' relation :

- Attributes :

TeamDetails {TeamID, TeamName, OwnerCompany}

- Functional dependencies :

TeamID  $\rightarrow$  TeamName

TeamID  $\rightarrow$  OwnerCompany

Let X = TeamID

X<sup>+</sup> = {TeamID, TeamName, OwnerCompany}

Thus, Primary key = TeamID

The left side of all the FDs in minimal set of FDs for the relation 'TeamDetails' is TeamID, which is the primary key of this relation, so "TeamDetails" is in BCNF.

### 12. 'Match' relation :

- Attributes :

Match {MatchID, MatchType, Date, StadiumName, City, ManOfTheMatch}

- Functional dependencies :

MatchID  $\rightarrow$  MatchType

MatchID  $\rightarrow$  Date

MatchID  $\rightarrow$  StadiumName

MatchID  $\rightarrow$  City

MatchID  $\rightarrow$  ManOfTheMatch

Let X = MatchID

X<sup>+</sup> = {MatchID, MatchType, Date, StadiumName, City, ManOfTheMatch}

Thus, Primary key = MatchID

The left side of all the FDs in minimal set of FDs for the relation 'Match' is MatchID which is the primary key of this relation, so "Match" is in BCNF.

### 13. 'Played' relation :

- Attributes :

Played {MatchID, TeamID, TeamRuns, 4s, 6s, Wickets, Winner}

- Functional dependencies :

{MatchID, TeamID}  $\rightarrow$  TeamRuns

{MatchID, TeamID}  $\rightarrow$  4s

{MatchID, TeamID}  $\rightarrow$  6s

{MatchID, TeamID}  $\rightarrow$  Wickets

{MatchID, TeamID}  $\rightarrow$  Winner

Let X = {MatchID, TeamID}

X<sup>+</sup> = {MatchID, TeamID, TeamRuns, 4s, 6s, Wickets, Winner}

Thus, Primary key = {MatchID, TeamID}

The left side of all the FDs in minimal set of FDs for the relation 'Played' is {MatchID, TeamID} which is the primary key of this relation, so "Played" is in BCNF.



## **TABLES:**

### **Players table:**

```
CREATE TABLE Players(  
    PlayerID CHARACTER(5) PRIMARY KEY,  
    "Name" VARCHAR(50) NOT NULL,  
    Nationality VARCHAR(50) NOT NULL,  
    DoB DATE NOT NULL,  
    "Role" VARCHAR(50),  
    StrikeRate DECIMAL(5,2),  
    BowlingStyle VARCHAR(50),  
    BattingStyle VARCHAR(50)  
);
```

### **TitleSponsor table:**

```
CREATE TABLE TitleSponsor(  
    CompanyName VARCHAR(50) PRIMARY KEY,  
    BusinessDomain VARCHAR(50) NOT NULL,  
    Country VARCHAR(50) NOT NULL  
);
```

### **TeamOwner table:**

```
CREATE TABLE TeamOwner(  
    CompanyName VARCHAR(50) PRIMARY KEY,  
    BusinessDomain VARCHAR(50) NOT NULL,  
    Country VARCHAR(50) NOT NULL  
);
```

### **HeadCoach table:**

```
CREATE TABLE HeadCoach(  
    CoachID CHARACTER(5) PRIMARY KEY,  
    CoachName VARCHAR(50) NOT NULL,  
    Years_of_Experience SMALLINT,  
    DoB DATE NOT NULL,  
    Country VARCHAR(50) NOT NULL  
);
```

### **Teams table:**

```
CREATE TABLE Teams(  
    TeamID VARCHAR(5) PRIMARY KEY,  
    TeamName VARCHAR(50) UNIQUE NOT NULL,  
    OwnerCompany VARCHAR(50) NOT NULL,
```

```
FOREIGN KEY(OwnerCompany) REFERENCES
TeamOwner
ON DELETE CASCADE ON UPDATE CASCADE
);
```

**Umpire table:**

```
CREATE TABLE Umpire(
    UmpireID CHARACTER(5) PRIMARY KEY,
    "Name" VARCHAR(50) NOT NULL,
    YearsOfExperience SMALLINT,
    Country VARCHAR(50) NOT NULL
);
```

**Stadium table:**

```
CREATE TABLE Stadium(
    StadiumName VARCHAR(50),
    City VARCHAR(50),
    Country VARCHAR(50) NOT NULL,
    Capacity INT,
    RentAmount BIGINT,
    PRIMARY KEY (StadiumName, City)
);
```

**Match table:**

```
CREATE TABLE "Match"(
    MatchID CHARACTER(7) PRIMARY KEY,
    MatchType VARCHAR(10) NOT NULL,
    "Date" DATE NOT NULL,
    StadiumName VARCHAR(50) NOT NULL,
    City VARCHAR(50) NOT NULL,
    ManOfTheMatch CHARACTER(5) NOT NULL,
    FOREIGN KEY (StadiumName, City) REFERENCES Stadium
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (ManOfTheMatch) REFERENCES Players
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

**UmpiredBy table:**

```
CREATE TABLE UmpiredBy(
    MatchID CHARACTER(7),
    UmpireID CHARACTER(5),
    PRIMARY KEY (MatchID, UmpireID),
    FOREIGN KEY (MatchID) REFERENCES "Match"
        ON DELETE CASCADE ON UPDATE CASCADE,
```

```
FOREIGN KEY (UmpireID) REFERENCES Umpire
ON DELETE CASCADE ON UPDATE CASCADE
);
```

**IPL table:**

```
CREATE TABLE IPL(
    "Year" SMALLINT PRIMARY KEY,
    TitleSponsor VARCHAR(50) NOT NULL,
    ManOfTheSeries CHARACTER(5) NOT NULL,
    ChampionTeam VARCHAR(5) NOT NULL,
    FOREIGN KEY (ChampionTeam) REFERENCES Teams
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (TitleSponsor) REFERENCES TitleSponsor
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (ManOfTheSeries) REFERENCES Players
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

**TeamDetails table:**

```
CREATE TABLE TeamDetails(
    TeamID VARCHAR(5),
    "Year" SMALLINT,
    CaptainID CHARACTER(5) NOT NULL,
    CoachID CHARACTER(5) NOT NULL,
    SponsorCompany VARCHAR(50) NOT NULL,
    SponsorAmount BIGINT NOT NULL,
    PRIMARY KEY (TeamID, "Year"),
    FOREIGN KEY (CaptainID) REFERENCES Players
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (CoachID) REFERENCES HeadCoach
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (SponsorCompany) REFERENCES TitleSponsor
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (TeamID) REFERENCES Teams
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY ("Year") REFERENCES IPL
        ON DELETE CASCADE ON UPDATE CASCADE
);
```

**YearwisePlayerDetails table:**

```
CREATE TABLE YearwisePlayerDetails(
    PlayerID CHARACTER(5),
    "Year" SMALLINT,
    TeamID VARCHAR(5) NOT NULL,
    TotalWickets INT,
```

```

        TotalRuns INT,
        MaximumWickets INT,
        MaximumWicketsRuns INT,
        MaximumRuns INT,
        PlayerPrice BIGINT,
        Out_NotOut BOOLEAN,
        PRIMARY KEY(PlayerID,"Year"),
        FOREIGN KEY (PlayerID) REFERENCES Players
            ON DELETE CASCADE ON UPDATE CASCADE,
        FOREIGN KEY (TeamID,"Year") REFERENCES TeamDetails
            ON DELETE CASCADE ON UPDATE CASCADE
    );

```

### **Played table:**

```

CREATE TABLE Played(
    MatchID CHARACTER(7),
    TeamID VARCHAR(5),
    TeamRuns INT NOT NULL,
    "4s" INT NOT NULL,
    "6s" INT NOT NULL,
    Wickets INT NOT NULL,
    Winner CHARACTER(1) NOT NULL,
    PRIMARY KEY(MatchID,TeamID),
    FOREIGN KEY (TeamID) REFERENCES Teams
        ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (MatchID) REFERENCES "Match"
        ON DELETE CASCADE ON UPDATE CASCADE
);

```

## **INSERTING VALUES:**

### **INSERT INTO Players VALUES:**

```

('00001','Hardik Pandya','India','1993-10-11','All-rounder',146.33,'right-arm
fast-medium','right-handed'),
('00002','Rashid Khan','Afghanistan','1998-09-20','All-rounder',154.29,'light-arm
legbreak','right-handed'),
('00003','David Miller','South Africa','1988-06-10','Batsman',137.89,'right-arm
offbreak','left-handed'),
('00004','Vijay Shankar','India','1991-01-26','All-rounder',127.44,'right-arm
medium','right-handed'),
('00005','Shubman Gill','India','1999-09-08','Batsman',126.67,'right-arm
offbreak','right-handed'),
('00006','Rahul Tewatia','India','1993-05-20','All-rounder',130.19,'right-arm
legbreak','left-handed'),
('00007','Wriddhiman Saha','India','1984-10-24','Wicketkeeper',128.42,NULL,'right-handed'),

```

('00008','Mohammad Shami','India','1990-09-03','Bowler',94.52,'right-arm fast-medium','right-handed'),  
('00009','Mohit Sharma','India','1988-09-18','Bowler',104.27,'right-arm fast-medium','right-handed'),  
('00010','Alzarri Joseph','Jamaica','1996-11-20','Bowler',100,'right-arm fast-medium','right-handed'),  
('00011','Kane Williamson','New Zealand','1990-08-08','Batsman',113.19,'right-arm offbreak','right-handed'),  
('00012','M S Dhoni','India','1981-07-07','Wicketkeeper',135.77,'right-arm medium','right-handed'),  
('00013','Ravindra Jadeja','India','1988-12-06','Bowler',127.62,'left-arm orthodox','left-handed'),  
('00014','Suresh Raina','India','1986-11-27','Batsman',136.73,'right-arm offbreak','left-handed'),  
('00015','Cheteshwar Pujara','India','1988-01-23','Batsman',99.74,'right-arm legbreak','right-handed'),  
('00016','Deepak Chahar','India','1992-07-07','Bowler',138.6,'right-arm medium','right-handed'),  
('00017','Mitchell Santner','New Zealand','1992-02-05','All-rounder',103.7,'left-arm orthodox','left-handed'),  
('00018','Dwayne Bravo','Jamaica','1983-10-07','Batsman',129.57,'right-arm fast-medium','right-handed'),  
('00019','Shardul Thakur','India','1991-12-16','Bowler',148.11,'right-arm fast-medium','right-handed'),  
('00020','Imran Tahir','South Africa','1979-03-27','Bowler',89.19,'right-arm legbreak','right-handed'),  
('00021','Moeen Ali','England','1987-06-18','Batsman',143.61,'right-arm offbreak','left-handed'),  
('00022','Faf Du Plessis','South Africa','1984-07-13','Batsman',132.87,'right-arm legbreak','right-handed'),  
('00023','Virat Kohli','India','1988-11-05','Batsman',129.67,'right-arm medium','right-handed'),  
('00024','Rajat Patidar','India','1993-06-01','Batsman',144.29,'right-arm offbreak','right-handed'),  
('00025','Devdutt Padikal','India','2000-07-07','Batsman',123.01,'right-arm offbreak','left-handed'),  
('00026','Glenn Maxwell','Australia','1988-10-14','All-rounder',150.98,'right-arm offbreak','right-handed'),  
('00027','Tim David','Singapore','1996-03-16','All-rounder',179.74,'right-arm medium','right-handed'),  
('00028','Shahbaz Ahmed','India','1994-12-11','All-rounder',119.08,'left-arm orthodox','left-handed'),  
('00029','AB de Villiers','South Africa','1984-02-17','Wicketkeeper',151.69,'right-arm medium','right-handed'),  
('00030','Mohammed Siraj','India','1994-03-13','Bowler',88.07,'right-arm fast-medium','right-handed'),  
('00031','Navdeep Saini','India','1992-11-23','Bowler',88.19,'right-arm fast','right-handed'),  
('00032','Yuzvendra Chahal','India','1990-07-23','Bowler',43.02,'right-arm legbreak','right-handed'),

('00033','Srikar Bharat','India','1993-10-03','Batsman',122.07,NULL,'right-handed'),  
 ('00034','Rohit Sharma','India','1987-04-30','Batsman',130.07,'right-arm  
 offbreak','right-handed'),  
 ('00035','Suryakumar Yadav','India','1990-09-14','Batsman',136.87,'right-arm  
 offbreak','right-handed'),  
 ('00036','Chris Lynn','Australia','1990-04-10','Batsman',140.63,'left-arm  
 orthodox','right-handed'),  
 ('00037','Krunal Pandya','India','1991-03-24','All-rounder',135.71,'left-arm  
 orthodox','left-handed'),  
 ('00038','Kieron Pollard','Jamaica','1987-05-12','All-rounder',147.32,'right-arm  
 medium','right-handed'),  
 ('00039','James Neesham','New Zealand','1990-09-17','All-rounder',98.92,'right-arm  
 medium','left-handed'),  
 ('00040','Quinton de Kock','South  
 Africa','1992-12-17','Wicketkeeper',133.91,NULL,'left-handed'),  
 ('00041','Ishan Kishan','India','1998-07-18','Wicketkeeper',133.36,NULL,'left-handed'),  
 ('00042','Jasprit Bumrah','India','1993-12-06','Bowler',84.85,'right-arm fast','right-handed'),  
 ('00043','Nathan Coulter-Nile','Australia','1987-10-11','Bowler',113.89,'right-arm  
 fast','right-handed'),  
 ('00044','Rahul Chahar','India','1999-08-04','Bowler',100,'right-arm legbreak','right-handed'),  
 ('00045','Eoin Morgan','England','1986-09-10','Batsman',122.6,'right-arm  
 medium','left-handed'),  
 ('00046','Andre Russell','Jamaica','1988-04-29','All-rounder',177.09,'right-arm  
 fast','right-handed'),  
 ('00047','Venkatesh Iyer','India','1994-12-25','All-rounder',132.32,'right-arm  
 medium','left-handed'),  
 ('00048','Shakib Al Hasan','Bangladesh','1987-03-24','Batsman',124.49,'left-arm  
 orthodox','left-handed'),  
 ('00049','Dinesh Karthik','India','1985-06-01','Wicketkeeper',132.71,NULL,'right-handed'),  
 ('00050','Sheldon Jackson','India','1986-09-27','Batsman',NULL,NULL,'right-handed'),  
 ('00051','Harbhajan Singh','India','1980-07-03','Bowler',137.91,'right-arm  
 offbreak','right-handed'),  
 ('00052','Kuldeep Yadav','India','1994-12-14','Bowler',80.26,'left-arm chinaman','left-handed'),  
 ('00053','Lockie Ferguson','New Zealand','1991-06-13','Bowler',148.89,'right-arm  
 fast','right-handed'),  
 ('00054','Sunil Narine','Jamaica','1983-05-26','Bowler',162.32,'right-arm  
 offbreak','left-handed'),  
 ('00055','Nitish Rana','India','1993-12-27','Batsman',134.97,'right-arm offbreak','left-handed'),  
 ('00056','Shimron Hetmyer','Guyana','1996-12-26','Batsman',156.31, NULL,'left-handed'),  
  
 ('00057','Joe Root','England','1990-12-30','Batsman',NULL,'right-arm  
 offbreak','right-handed'),  
 ('00058','Ravichandran Ashwin','India','1986-09-17','All-rounder',118.52,'right-arm  
 offbreak','right-handed'),  
 ('00059','Jason Holder','Barbados','1991-11-05','Bowler',123.38,'right-arm  
 fast-medium','right-handed'),  
 ('00060','Sanju Samson','India','1994-11-11','Wicketkeeper',136.63,NULL,'right-handed'),  
 ('00061','Jos Buttler','England','1990-09-08','Batsman',150.49,NULL,'right-handed'),

('00062','Trent Boult','New Zealand','1989-07-22','Bowler','108.16','left-arm fast-medium','right-handed'),  
 ('00063','Sandeep Sharma','India','1993-05-18','Bowler','81.25','right-arm fast-medium','right-handed'),  
 ('00064','Adam Zampa','Australia','1992-03-31','Bowler','66.67','right-arm legbreak','right-handed'),  
 ('00065','Chris Gayle','Jamaica','1979-09-21','Batsman','189.65','right-arm fast-medium','left-handed'),  
 ('00066','Vishwaraj Vedantam','Sri Lanka','1999-01-22','Wicketkeeper',102.24,'left-arm fast-medium','right-handed');

#### **INSERT INTO TitleSponsor VALUES:**

('Vivo Mobile Pvt Ltd','Smartphone Company','China'),  
 ('Star Sports Network','Television Sports Channel Company','India'),  
 ('Dream 11','Fantasy Sports Platform','India'),  
 ('PhonePe','Financial Technology and Payments Company','India'),  
 ('Myntra ','Fashion E-Commerce Company','India'),  
 ('Aircel','Mobile Network Operator','India'),  
 ('Muthoot Finance Ltd','Financial Corporation','India'),  
 ('DHFL','Housing Finance Company','India'),  
 ('Colors','General Entertainment Broadcast Company','India'),  
 ('Puma','Athletic Footwear, Apparels and Accessories','Germany'),  
 ('MPL','Online Gaming Platform ','India'),  
 ('Kingfisher','Alcoholic Beverage Company','India'),  
 ('Swiggy','Online Food Ordering & Delivering Platform','India'),  
 ('Royal Stag','Alcoholic Beverage Company','India'),  
 ('Colgate','Oral Hygiene Product Company','United States of America'),  
 ('Mai Dubai','Food & Bevarage Company','Dubai'),  
 ('Kotak Mahindra Bank','Banking and Financial Services Company','India'),  
 ('Kent RO Systems','Healthcare Products Company','India');

#### **INSERT INTO TeamOwner VALUES:**

('Red Chillies Entertainment','Film Industry','India'),  
 ('Reliance Industry Ltd','Telecommunications, Energy','India'),  
 ('CVC Capital Partners','Investment Advisory Firm','England'),  
 ('United Spirits','Alcoholic Beverages Company','England'),  
 ('Emerging Media IPL Ltd','Digital Venture Builder','England'),  
 ('India Cements Ltd','Cement Manufacturing','India');

#### **INSERT INTO HeadCoach VALUES:**

('10101','Jacques Kallis',10,'1975-10-16','South Africa'),  
 ('10103','Paddy Upton',20,'1968-11-05','South Africa'),  
 ('10104','Gary Kirsten',24,'1967-11-23','South Africa'),  
 ('10105','Mark Boucher',17,'1976-12-03','South Africa'),

('10106','Ashish Nehra',4,'1979-04-29','India'),  
('10107','Kumar Sngakkara',2,'1977-12-27','Sri Lanka'),  
('10108','Andy Flower',5,'1968-04-28','Zimbabwe'),  
('10109','Sanjay Bangar',19,'1972-10-11','India'),  
('10110','Chandrakant Pandit',18,'1961-09-30','India'),  
('10111','Anil Kumble',27,'1970-12-17','India'),  
('10112','Trevor Bayliss',13,'1962-12-21','Australia');

#### **INSERT INTO Umpire VALUES:**

('00001','Sundaram Ravi',15,'India'),  
('00002','Paul Reiffel',18,'Australia'),  
('00003','Nitin Menon',9,'India'),  
('00004','Christopher Columbus',25,'New Zealand'),  
('00005','Anil Chaudary',10,'India'),  
('00006','C. Shamshuddin',20,'India'),  
('00007','Arvindra Gohel',9,'USA'),  
('00008','Sumukh Chattopadhyay',14,'India'),  
('00009','Gerard Abood',23,'Australia'),  
('00010','Afzal Ahmed',12,'India');

#### **INSERT INTO Teams VALUES:**

('RCB','Royal Challengers Bangalore','United Spirits'),  
('MI','Mumbai Indians','Reliance Industry Ltd'),  
('CSK','Chennai Super Kings','India Cements Ltd'),  
('GT','Gujarat Titans','CVC Capital Partners'),  
('RR','Rajasthan Royals','Emerging Media IPL Ltd'),  
('KKR','Kolkata Knight Riders','Red Chillies Entertainment');

#### **INSERT INTO Stadium VALUES:**

('Narendra Modi Stadium','Ahmedabad','India',132000,4000000),  
('M.Chinnaswamy Stadium','Bangalore','India',40000,1200000),  
('MA Chidambaram','Chennai','India',50000,1500000),  
('Dubai International Cricket Stadium','Dubai','UAE',33000,990000),  
('Wankhede Stadium','Mumbai','India',33000,990000),  
('Sawai Mansingh Stadium','Jaipur','India',30000,900000),  
('Arun Jaitley Stadium','New Delhi','India',41000,1230000),  
('Rajiv Gandhi International Cricket Stadium','Hyderabad','India',55000,1650000),  
('Eden Gardens','Kolkata','India',68000,2040000);

#### **INSERT INTO "Match" VALUES:**

('2015001','League','2015-03-27','Wankhede Stadium','Mumbai','00012'),  
('2015002','League','2015-03-29','Sawai Mansingh Stadium','Jaipur','00057'),  
('2015003','League','2015-04-02','Arun Jaitley Stadium','New Delhi','00042'),  
('2015004','League','2015-04-05','Sawai Mansingh Stadium','Jaipur','00020'),



('2015005','League','2015-04-07','Arun Jaitley Stadium','New Delhi','00029'),  
 ('2015011','Semifinal','2015-04-10','Rajiv Gandhi International Cricket Stadium','Hyderabad','00040'),  
 ('2015012','Semifinal','2015-04-12','Narendra Modi Stadium','Ahmedabad','00012'),  
 ('2015021','Final','2015-04-16','Narendra Modi Stadium','Ahmedabad','00038'),  
 ('2019001','League','2019-03-21','M.Chinnaswamy Stadium','Banglore','00059'),  
 ('2019002','League','2019-03-25','MA Chidambaram','Chennai','00052'),  
 ('2019003','League','2019-03-28','Eden Gardens','Kolkata','00039'),  
 ('2019004','League','2019-04-02','M.Chinnaswamy Stadium','Banglore','00017'),  
 ('2019005','League','2019-04-04','MA Chidambaram','Chennai','00038'),  
 ('2019011','Semifinal','2019-04-10','Dubai International Cricket Stadium','Dubai','00038'),  
 ('2019012','Semifinal','2019-04-12','Dubai International Cricket Stadium','Dubai','00009'),  
 ('2019021','Final','2019-04-18','Narendra Modi Stadium','Ahmedabad','00036'),  
 ('2022001','League','2022-04-15','Eden Gardens','Kolkata','00014'),  
 ('2022002','League','2022-04-17','Sawai Mansingh Stadium','Jaipur','00056'),  
 ('2022003','League','2022-04-18','Narendra Modi Stadium','Ahmedabad','00010'),  
 ('2022004','League','2022-04-19','M.Chinnaswamy Stadium','Banglore','00025'),  
 ('2022005','League','2022-04-20','M.Chinnaswamy Stadium','Banglore','00027'),  
 ('2022006','League','2022-04-22','Wankhede Stadium','Mumbai','00036'),  
 ('2022007','League','2022-04-23','Wankhede Stadium','Mumbai','00002'),  
 ('2022008','League','2022-04-24','Arun Jaitley Stadium','New Delhi','00059'),  
 ('2022009','League','2022-04-25','MA Chidambaram','Chennai','00013'),  
 ('2022011','Semifinal','2022-05-01','Dubai International Cricket Stadium','Dubai','00011'),  
 ('2022012','Semifinal','2022-05-02','Rajiv Gandhi International Cricket Stadium','Hyderabad','00066'),  
 ('2022021','Final','2022-05-07','Narendra Modi Stadium','Ahmedabad','00001');

#### INSERT INTO UmpiredBy VALUES:

('2015001','00001'),  
 ('2015001','00002'),  
 ('2015001','00003'),  
 ('2015002','00004'),  
 ('2015002','00005'),  
 ('2015002','00006'),  
 ('2015003','00007'),  
 ('2015003','00008'),  
 ('2015003','00009'),  
 ('2015004','00010'),  
 ('2015004','00001'),  
 ('2015004','00002'),  
 ('2015005','00003'),  
 ('2015005','00004'),  
 ('2015005','00005'),  
 ('2015011','00006'),  
 ('2015011','00007'),  
 ('2015011','00008'),  
 ('2015012','00009'),

('2015012','00010'),  
('2015012','00001'),  
('2015021','00002'),  
('2015021','00003'),  
('2015021','00004'),  
('2019001','00005'),  
('2019001','00006'),  
('2019001','00007'),  
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('2019002','00009'),  
('2019002','00010'),  
('2019003','00001'),  
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('2019004','00004'),  
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('2019012','00005'),  
('2019021','00006'),  
('2019021','00007'),  
('2019021','00008'),  
('2022001','00009'),  
('2022001','00010'),  
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('2022003','00005'),  
('2022003','00006'),  
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('2022005','00003'),  
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('2022006','00006'),  
('2022007','00007'),

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(
    ('2022007','00008'),
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    ('2022008','00010'),
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    ('2022009','00003'),
    ('2022009','00004'),
    ('2022009','00005'),
    ('2022011','00006'),
    ('2022011','00007'),
    ('2022011','00008'),
    ('2022012','00009'),
    ('2022012','00010'),
    ('2022012','00001'),
    ('2022021','00002'),
    ('2022021','00003'),
    ('2022021','00004');

```

#### **INSERT INTO IPL VALUES:**

```
(
    (2015,'Dream 11','00046','MI'),
    (2019,'MPL','00061','MI'),
    (2022,'Vivo Mobile Pvt Ltd','00023','GT');

```

#### **INSERT INTO teamdetails VALUES:**

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(
    ('RCB',2015,'00023','10109','Star Sports Network',980000000),
    ('CSK',2015,'00012','10104','Kent RO Systems',700000000),
    ('RR',2015,'00060','10108','Myntra ',300000000),
    ('MI',2015,'00034','10111','PhonePe',830000000),
    ('KKR',2015,'00045','10107','Aircel',470000000),
    ('RCB',2019,'00023','10101','Muthoot Finance Ltd',230000000),
    ('CSK',2019,'00012','10103','DHFL',610000000),
    ('RR',2019,'00058','10105','Royal Stag',490000000),
    ('MI',2019,'00034','10110','Colors',800000000),
    ('KKR',2019,'00049','10107','Puma',190000000),
    ('RCB',2022,'00023','10101','Kingfisher',980000000),
    ('CSK',2022,'00012','10104','Swiggy',280000000),
    ('RR',2022,'00060','10112','Royal Stag',310000000),
    ('MI',2022,'00034','10111','Colgate',940000000),
    ('KKR',2022,'00049','10106','Mai Dubai',820000000),
    ('GT',2022,'00001','10108','Kotak Mahindra Bank',380000000);

```

#### **INSERT INTO YearwisePlayerDetails VALUES:**

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(
    ('00012',2015,'CSK',4,229,2,45,114,1700000000,FALSE),
    ('00013',2015,'CSK',0,137,0,29,87,1600000000,TRUE),
    ('00014',2015,'CSK',4,213,3,25,108,200000000,FALSE),

```

('00015',2015,'CSK',6,39,4,36,25,150000000,TRUE),  
('00001',2015,'CSK',3,95,2,8,87,110000000,FALSE),  
('00017',2015,'CSK',0,160,0,31,69,500000000,FALSE),  
('00018',2015,'CSK',6,231,6,28,82,110000000,FALSE),  
('00019',2015,'CSK',8,3,5,15,3,170000000,TRUE),  
('00020',2015,'CSK',5,142,3,11,122,110000000,FALSE),  
('00021',2015,'CSK',1,125,1,14,80,500000000,TRUE),  
('00022',2015,'CSK',8,56,6,17,38,140000000,FALSE),  
('00023',2015,'RCB',5,13,4,42,10,100000000,TRUE),  
('00024',2015,'RCB',1,47,1,34,24,170000000,TRUE),  
('00004',2015,'RCB',6,191,5,14,79,150000000,FALSE),  
('00026',2015,'RCB',3,52,2,30,46,170000000,FALSE),  
('00027',2015,'RCB',7,56,5,50,48,130000000,FALSE),  
('00002',2015,'RCB',5,12,2,43,9,100000000,FALSE),  
('00029',2015,'RCB',5,228,3,26,97,200000000,TRUE),  
('00030',2015,'RCB',6,87,3,29,48,140000000,TRUE),  
('00031',2015,'RCB',4,111,2,32,58,600000000,FALSE),  
('00032',2015,'RCB',4,244,3,15,93,170000000,FALSE),  
('00003',2015,'RCB',6,257,4,24,93,150000000,FALSE),  
('00034',2015,'MI',0,41,0,36,39,100000000,TRUE),  
('00035',2015,'MI',5,209,2,42,105,500000000,FALSE),  
('00036',2015,'MI',0,146,0,29,91,100000000,TRUE),  
('00037',2015,'MI',8,54,6,45,37,600000000,FALSE),  
('00038',2015,'MI',5,15,4,42,14,130000000,FALSE),  
('00039',2015,'MI',5,50,2,45,31,200000000,TRUE),  
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('00041',2015,'MI',NULL,99,NULL,NULL,73,300000000,TRUE),  
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('00044',2015,'MI',1,68,1,2,42,900000000,TRUE),  
('00045',2015,'KKR',0,94,0,2,56,600000000,FALSE),  
('00046',2015,'KKR',5,81,3,12,55,130000000,FALSE),  
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('00055',2015,'KKR',0,194,0,22,88,170000000,FALSE),  
('00056',2015,'RR',NULL,100,NULL,NULL,57,800000000,FALSE),  
('00057',2015,'RR',4,114,3,20,102,900000000,FALSE),  
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('00059',2015,'RR',8,166,5,25,62,170000000,TRUE),  
('00060',2015,'RR',NULL,35,NULL,NULL,32,200000000,FALSE),  
('00061',2015,'RR',NULL,122,NULL,NULL,73,150000000,FALSE),  
('00062',2015,'RR',3,41,2,47,24,110000000,FALSE),

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('00065',2015,'RR',2,31,2,0,17,140000000,TRUE),  
('00066',2015,'RR',5,84,3,45,81,70000000,FALSE),  
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('00013',2019,'CSK',0,133,0,34,69,10000000,TRUE),  
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('00016',2019,'CSK',1,81,1,10,46,140000000,FALSE),  
('00017',2019,'CSK',8,221,6,44,103,170000000,TRUE),  
('00018',2019,'CSK',7,180,3,2,85,30000000,FALSE),  
('00019',2019,'CSK',2,283,1,43,176,30000000,TRUE),  
('00020',2019,'CSK',3,284,1,40,180,80000000,FALSE),  
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('00022',2019,'CSK',6,110,2,48,81,90000000,TRUE),  
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('00024',2019,'RCB',4,294,3,37,119,30000000,TRUE),  
('00025',2019,'RCB',2,250,1,7,166,120000000,FALSE),  
('00026',2019,'RCB',8,181,4,3,77,50000000,FALSE),  
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('00028',2019,'RCB',1,217,1,47,96,70000000,TRUE),  
('00029',2019,'RCB',2,259,2,48,150,90000000,FALSE),  
('00030',2019,'RCB',3,226,2,18,87,20000000,TRUE),  
('00031',2019,'RCB',3,300,3,23,166,130000000,FALSE),  
('00010',2019,'RCB',5,277,3,40,132,140000000,FALSE),  
('00033',2019,'RCB',NULL,92,NULL,NULL,47,110000000,FALSE),  
('00034',2019,'MI',2,153,1,11,63,80000000,FALSE),  
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('00036',2019,'MI',2,41,2,26,39,10000000,FALSE),  
('00037',2019,'MI',4,239,3,23,94,130000000,FALSE),  
('00038',2019,'MI',8,110,5,23,66,170000000,TRUE),  
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('00040',2019,'MI',NULL,141,NULL,NULL,116,80000000,TRUE),  
('00041',2019,'MI',NULL,151,NULL,NULL,100,110000000,TRUE),  
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('00043',2019,'MI',6,114,3,43,76,170000000,TRUE),  
('00044',2019,'MI',8,56,4,8,30,80000000,TRUE),  
('00045',2019,'KKR',0,85,0,16,47,110000000,FALSE),  
('00049',2019,'KKR',NULL,55,NULL,NULL,47,100000000,FALSE),  
('00047',2019,'KKR',4,248,2,29,108,80000000,TRUE),  
('00008',2019,'KKR',0,33,0,33,23,50000000,FALSE),  
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('00050',2019,'KKR',NULL,137,NULL,NULL,111,80000000,TRUE),  
('00007',2019,'KKR',NULL,19,NULL,NULL,18,150000000,FALSE),  
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('00053',2019,'KKR',3,270,2,33,97,40000000,FALSE),  
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('00006',2019,'KKR',0,292,0,26,182,70000000,FALSE),

('00056',2019,'RR',NULL,245,NULL,NULL,106,110000000,FALSE),  
('00005',2019,'RR',4,190,2,31,74,700000000,FALSE),  
('00058',2019,'RR',7,185,5,0,107,160000000,FALSE),  
('00059',2019,'RR',6,120,5,32,94,800000000,TRUE),  
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('00064',2019,'RR',4,57,3,30,47,120000000,FALSE),  
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('00066',2019,'RR',4,68,2,16,39,900000000,TRUE),  
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('00004',2022,'GT',7,238,3,2,88,160000000,TRUE),  
('00005',2022,'GT',6,248,2,21,138,150000000,TRUE),  
('00006',2022,'GT',3,246,3,26,107,200000000,TRUE),  
('00007',2022,'GT',NULL,289,NULL,NULL,176,800000000,FALSE),  
('00008',2022,'GT',0,168,0,27,78,700000000,FALSE),  
('00009',2022,'GT',0,214,0,29,140,500000000,FALSE),  
('00010',2022,'GT',6,320,2,29,154,300000000,FALSE),  
('00011',2022,'GT',3,204,1,34,70,170000000,FALSE),  
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('00018',2022,'CSK',7,239,3,17,113,100000000,FALSE),  
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('00022',2022,'CSK',8,121,3,35,116,700000000,TRUE),  
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('00030',2022,'RCB',1,151,1,14,60,100000000,FALSE),  
('00031',2022,'RCB',5,103,4,35,78,400000000,TRUE),  
('00032',2022,'RCB',3,68,3,12,62,170000000,FALSE),  
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('00035',2022,'MI',8,301,4,22,123,800000000,FALSE),  
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(
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'00053',2022,'KKR',3,245,2,15,139,70000000,TRUE),
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'00059',2022,'RR',6,189,3,12,74,110000000,TRUE),
'00060',2022,'RR',NULL,343,NULL,NULL,127,30000000,FALSE),
'00061',2022,'RR',NULL,212,NULL,NULL,126,10000000,TRUE),
'00062',2022,'RR',0,140,0,46,83,90000000,FALSE),
'00063',2022,'RR',1,165,1,46,56,100000000,TRUE),
'00064',2022,'RR',8,15,4,3,13,110000000,FALSE),
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'00066',2022,'RR',0,77,0,12,60,70000000,FALSE);
```

# **INSERT INTO played VALUES:**

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'2015001','CSK',125,13,3,7,'1'),
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'2015002','RCB',177,11,3,9,'0'),
'2015003','KKR',130,9,3,10,'0'),
'2015003','MI',190,10,6,3,'1'),
'2015004','KKR',213,15,6,9,'0'),
'2015004','CSK',214,12,5,9,'1'),
'2015005','MI',200,16,7,10,'0'),
'2015005','RCB',224,9,6,3,'1'),
'2015011','MI',240,13,6,9,'1'),
'2015011','RR',239,12,7,2,'0'),
'2015012','CSK',145,7,3,8,'1'),
'2015012','RCB',110,4,2,10,'0'),
'2015021','MI',240,18,8,8,'1'),
'2015021','CSK',239,14,4,5,'0'),
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('2019001','RR',125,6,3,9,'1'),  
 ('2019001','CSK',123,4,3,2,'0'),  
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 ('2019003','RCB',201,8,6,7,'0'),  
 ('2019003','MI',203,9,5,9,'1'),  
 ('2019004','RCB',189,7,4,2,'0'),  
 ('2019004','CSK',191,9,3,3,'1'),  
 ('2019005','KKR',120,10,2,10,'0'),  
 ('2019005','MI',193,16,4,4,'1'),  
 ('2019011','MI',262,19,7,7,'1'),  
 ('2019011','CSK',261,18,4,6,'0'),  
 ('2019012','RR',90,6,3,10,'0'),  
 ('2019012','KKR',180,13,5,3,'1'),  
 ('2019021','MI',199,13,6,3,'1'),  
 ('2019021','KKR',198,10,4,6,'0'),  
 ('2022001','CSK',212,15,6,7,'1'),  
 ('2022001','KKR',202,9,6,10,'0'),  
 ('2022002','RR',200,6,4,8,'1'),  
 ('2022002','KKR',199,7,6,5,'0'),  
 ('2022003','GT',150,5,3,2,'1'),  
 ('2022003','KKR',60,2,1,10,'0'),  
 ('2022004','GT',144,7,5,6,'0'),  
 ('2022004','RCB',145,5,3,4,'1'),  
 ('2022005','RCB',223,9,7,7,'1'),  
 ('2022005','CSK',178,9,3,10,'0'),  
 ('2022006','MI',195,9,6,4,'1'),  
 ('2022006','RCB',192,8,4,3,'0'),  
 ('2022007','GT',257,14,8,6,'1'),  
 ('2022007','MI',230,11,7,5,'0'),  
 ('2022008','RR',182,10,6,2,'1'),  
 ('2022008','MI',181,8,5,9,'0'),  
 ('2022009','CSK',127,5,4,4,'1'),  
 ('2022009','RR',122,4,3,6,'0'),  
 ('2022011','GT',189,13,6,8,'1'),  
 ('2022011','RCB',142,11,4,10,'0'),  
 ('2022012','RR',216,17,8,3,'1'),  
 ('2022012','CSK',116,6,5,2,'0'),  
 ('2022021','GT',200,16,7,2,'1'),  
 ('2022021','RR',176,7,3,9,'0');

## **IMAGES OF TABLES AFTER THE COMPLETION OF ALL OPERATIONS:**

**HeadCoach table:**



**HeadCoach**

CoachID	CoachName	Years_of_Experience	DoB	Country
10101	Jacques Kallis	10	1975-10-16	South Africa
10103	Paddy Upton	20	1968-11-05	South Africa
10104	Gary Kirsten	24	1967-11-23	South Africa
10105	Mark Boucher	17	1976-12-03	South Africa
10106	Ashish Nehra	4	1979-04-29	India
10107	Kumar Sngakkara	2	1977-12-27	Sri Lanka
10108	Andy Flower	5	1968-04-28	Zimbabwe
10109	Sanjay Bangar	19	1972-10-11	India
10110	Chandrakant Pandit	18	1961-09-30	India
10111	Anil Kumble	27	1970-12-17	India
10112	Trevor Bayliss	13	1962-12-21	Australia

**IPL table:****IPL**

Year	TitleSponsor	ManOfTheSeries	ChampionTeam
2015	Dream 11	00046	MI
2019	MPL	00061	MI
2022	Vivo Mobile Pvt Ltd	00023	GT

**Match table:**

# Match

MatchID	MatchType	Date	StadiumName	City	ManOfTheMatch
2015001	League	2015-03-27	Wankhede Stadium	Mumbai	00012
2015002	League	2015-03-29	Sawai Mansingh Stadium	Jaipur	00057
2015003	League	2015-04-02	Arun Jaitley Stadium	New Delhi	00042
2015004	League	2015-04-05	Sawai Mansingh Stadium	Jaipur	00020
2015005	League	2015-04-07	Arun Jaitley Stadium	New Delhi	00029
2015011	Semifinal	2015-04-10	Rajiv Gandhi International Cricket Stadium	Hyderabad	00040
2015012	Semifinal	2015-04-12	Narendra Modi Stadium	Ahmedabad	00012
2015021	Final	2015-04-16	Narendra Modi Stadium	Ahmedabad	00038
2019001	League	2019-03-21	M.Chinnaswamy Stadium	Banglore	00059
2019002	League	2019-03-25	MA Chidambaram	Chennai	00052
2019003	League	2019-03-28	Eden Gardens	Kolkata	00039
2019004	League	2019-04-02	M.Chinnaswamy Stadium	Banglore	00017
2019005	League	2019-04-04	MA Chidambaram	Chennai	00038
2019011	Semifinal	2019-04-10	Dubai International Cricket Stadium	Dubai	00038

2019012	Semifinal	2019-04-12	Dubai International Cricket Stadium	Dubai	00009
2019021	Final	2019-04-18	Narendra Modi Stadium	Ahmedabad	00036
2022001	League	2022-04-15	Eden Gardens	Kolkata	00014
2022002	League	2022-04-17	Sawai Mansingh Stadium	Jaipur	00056
2022003	League	2022-04-18	Narendra Modi Stadium	Ahmedabad	00010
2022004	League	2022-04-19	M.Chinnaswamy Stadium	Banglore	00025
2022005	League	2022-04-20	M.Chinnaswamy Stadium	Banglore	00027
2022006	League	2022-04-22	Wankhede Stadium	Mumbai	00036
2022007	League	2022-04-23	Wankhede Stadium	Mumbai	00002
2022008	League	2022-04-24	Arun Jaitley Stadium	New Delhi	00059
2022009	League	2022-04-25	MA Chidambaram	Chennai	00013
2022011	Semifinal	2022-05-01	Dubai International Cricket Stadium	Dubai	00011
2022012	Semifinal	2022-05-02	Rajiv Gandhi International Cricket Stadium	Hyderabad	00066
2022021	Final	2022-05-07	Narendra Modi Stadium	Ahmedabad	00001

## Played table:

### Played

MatchID	TeamID	TeamRuns	4s	6s	Wickets	Winner
2015001	RR	123	11	2	5	0
2015001	CSK	125	13	3	7	1
2015002	RR	180	14	4	5	1
2015002	RCB	177	11	3	9	0
2015003	KKR	130	9	3	10	0
2015003	MI	190	10	6	3	1
2015004	KKR	213	15	6	9	0
2015004	CSK	214	12	5	9	1
2015005	MI	200	16	7	10	0
2015005	RCB	224	9	6	3	1
2015011	MI	240	13	6	9	1
2015011	RR	239	12	7	2	0
2015012	CSK	145	7	3	8	1
2015012	RCB	110	4	2	10	0
2015021	MI	240	18	8	8	1
2015021	CSK	239	14	4	5	0
2019001	RR	125	6	3	9	1
2019001	CSK	123	4	3	2	0
2019002	RR	76	3	1	10	0
2019002	KKR	170	6	6	4	1
2019003	RCB	201	8	6	7	0
2019003	MI	203	9	5	9	1

2019004	RCB	189	7	4	2	0
2019004	CSK	191	9	3	3	1
2019005	KKR	120	10	2	10	0
2019005	MI	193	16	4	4	1
2019011	MI	262	19	7	7	1
2019011	CSK	261	18	4	6	0
2019012	RR	90	6	3	10	0
2019012	KKR	180	13	5	3	1
2019021	MI	199	13	6	3	1
2019021	KKR	198	10	4	6	0
2022001	CSK	212	15	6	7	1
2022001	KKR	202	9	6	10	0
2022002	RR	200	6	4	8	1
2022002	KKR	199	7	6	5	0
2022003	GT	150	5	3	2	1
2022003	KKR	60	2	1	10	0
2022004	GT	144	7	5	6	0
2022004	RCB	145	5	3	4	1
2022005	RCB	223	9	7	7	1
2022005	CSK	178	9	3	10	0
2022006	MI	195	9	6	4	1
2022006	RCB	192	8	4	3	0
2022007	GT	257	14	8	6	1
2022007	MI	230	11	7	5	0
2022008	RR	182	10	6	2	1

2022008	MI	181	8	5	9	0
2022009	CSK	127	5	4	4	1
2022009	RR	122	4	3	6	0
2022011	GT	189	13	6	8	1
2022011	RCB	142	11	4	10	0
2022012	RR	216	17	8	3	1
2022012	CSK	116	6	5	2	0
2022021	GT	200	16	7	2	1
2022021	RR	176	7	3	9	0

Players table:

Players

PlayerID	Name	Nationality	DoB	Role	StrikeRate	BowlingStyle	BattingStyle
00001	Hardik Pandya	India	1993-10-11	All-rounder	146.33	right-arm fast-medium	right-handed
00002	Rashid Khan	Afghanistan	1998-09-20	All-rounder	154.29	light-arm legbreak	right-handed
00003	David Miller	South Africa	1988-06-10	Batsman	137.89	right-arm offbreak	left-handed
00004	Vijay Shankar	India	1991-01-26	All-rounder	127.44	right-arm medium	right-handed
00005	Shubman Gill	India	1999-09-08	Batsman	126.67	right-arm offbreak	right-handed
00006	Rahul Tewatia	India	1993-05-20	All-rounder	130.19	right-arm legbreak	left-handed
00007	Wriddhiman Saha	India	1984-10-24	Wicketkeeper	128.42		right-handed
00008	Mohammad Shami	India	1990-09-03	Bowler	94.52	right-arm fast-medium	right-handed
00009	Mohit Sharma	India	1988-09-18	Bowler	104.27	right-arm fast-medium	right-handed
00010	Alzarri Joseph	Jamaica	1996-11-20	Bowler	100	right-arm fast-medium	right-handed
00011	Kane Williamson	New Zealand	1990-08-08	Batsman	113.19	right-arm offbreak	right-handed
00012	M S Dhoni	India	1981-07-07	Wicketkeeper	135.77	right-arm medium	right-handed
00013	Ravindra Jadeja	India	1988-12-06	Bowler	127.62	left-arm orthodox	left-handed
00014	Suresh Raina	India	1986-11-27	Batsman	136.73	right-arm offbreak	left-handed
00015	Cheteshwar Pujara	India	1988-01-23	Batsman	99.74	right-arm legbreak	right-handed
00016	Deepak Chahar	India	1992-07-07	Bowler	138.6	right-arm medium	right-handed
00017	Mitchell Santner	New Zealand	1992-02-05	All-rounder	103.7	left-arm orthodox	left-handed
00018	Dwayne Bravo	Jamaica	1983-10-07	Batsman	129.57	right-arm fast-medium	right-handed
00019	Shardul Thakur	India	1991-12-16	Bowler	148.11	right-arm fast-medium	right-handed
00020	Imran Tahir	South Africa	1979-03-27	Bowler	89.19	right-arm legbreak	right-handed
00021	Moeen Ali	England	1987-06-18	Batsman	143.61	right-arm offbreak	left-handed
00022	Faf Du Plessis	South Africa	1984-07-13	Batsman	132.87	right-arm legbreak	right-handed
00023	Virat Kohli	India	1988-11-05	Batsman	129.67	right-arm medium	right-handed
00024	Rajat Patidar	India	1993-06-01	Batsman	144.29	right-arm offbreak	right-handed
00025	Devdutt Padikal	India	2000-07-07	Batsman	123.01	right-arm offbreak	left-handed
00026	Glenn Maxwell	Australia	1988-10-14	All-rounder	150.98	right-arm offbreak	right-handed
00027	Tim David	Singapore	1996-03-16	All-rounder	179.74	right-arm medium	right-handed
00028	Shahbaz Ahmed	India	1994-12-11	All-rounder	119.08	left-arm orthodox	left-handed
00029	AB de Villiers	South Africa	1984-02-17	Wicketkeeper	151.69	right-arm medium	right-handed
00030	Mohammed Siraj	India	1994-03-13	Bowler	88.07	right-arm fast-medium	right-handed
00031	Navdeep Saini	India	1992-11-23	Bowler	88.19	right-arm fast	right-handed
00032	Yuzvendra Chahal	India	1990-07-23	Bowler	43.02	right-arm legbreak	right-handed
00033	Srikar Bharat	India	1993-10-03	Batsman	122.07		right-handed
00034	Rohit Sharma	India	1987-04-30	Batsman	130.07	right-arm offbreak	right-handed
00035	Suryakumar Yadav	India	1990-09-14	Batsman	136.87	right-arm offbreak	right-handed
00036	Chris Lynn	Australia	1990-04-10	Batsman	140.63	left-arm orthodox	right-handed
00037	Krunal Pandya	India	1991-03-24	All-rounder	135.71	left-arm orthodox	left-handed
00038	Kieron Pollard	Jamaica	1987-05-12	All-rounder	147.32	right-arm medium	right-handed
00039	James Neesham	New Zealand	1990-09-17	All-rounder	98.92	right-arm medium	left-handed

00040	Quinton de Kock	South Africa	1992-12-17	Wicketkeeper	133.91		left-handed
00041	Ishan Kishan	India	1998-07-18	Wicketkeeper	133.36		left-handed
00042	Jasprit Bumrah	India	1993-12-06	Bowler	84.85	right-arm fast	right-handed
00043	Nathan Coulter-Nile	Australia	1987-10-11	Bowler	113.89	right-arm fast	right-handed
00044	Rahul Chahar	India	1999-08-04	Bowler	100	right-arm legbreak	right-handed
00045	Eoin Morgan	England	1986-09-10	Batsman	122.6	right-arm medium	left-handed
00046	Andre Russell	Jamaica	1988-04-29	All-rounder	177.09	right-arm fast	right-handed
00047	Venkatesh Iyer	India	1994-12-25	All-rounder	132.32	right-arm medium	left-handed
00048	Shakib Al Hasan	Bangladesh	1987-03-24	Batsman	124.49	left-arm orthodox	left-handed
00049	Dinesh Karthik	India	1985-06-01	Wicketkeeper	132.71		right-handed
00050	Sheldon Jackson	India	1986-09-27	Batsman			right-handed
00051	Harbhajan Singh	India	1980-07-03	Bowler	137.91	right-arm offbreak	right-handed
00052	Kuldeep Yadav	India	1994-12-14	Bowler	80.26	left-arm chinaman	left-handed
00053	Lockie Ferguson	New Zealand	1991-06-13	Bowler	148.89	right-arm fast	right-handed
00054	Sunil Narine	Jamaica	1983-05-26	Bowler	162.32	right-arm offbreak	left-handed
00055	Nitish Rana	India	1993-12-27	Batsman	134.97	right-arm offbreak	left-handed
00056	Shimron Hetmyer	Guyana	1996-12-26	Batsman	156.31		left-handed
00057	Joe Root	England	1990-12-30	Batsman		right-arm offbreak	right-handed
00058	Ravichandran Ashwin	India	1986-09-17	All-rounder	118.52	right-arm offbreak	right-handed
00059	Jason Holder	Barbados	1991-11-05	Bowler	123.38	right-arm fast-medium	right-handed
00060	Sanju Samson	India	1994-11-11	Wicketkeeper	136.63		right-handed
00061	Jos Buttler	England	1990-09-08	Batsman	150.49		right-handed
00062	Trent Boult	New Zealand	1989-07-22	Bowler	108.16	left-arm fast-medium	right-handed
00063	Sandeep Sharma	India	1993-05-18	Bowler	81.25	right-arm fast-medium	right-handed
00064	Adam Zampa	Australia	1992-03-31	Bowler	66.67	right-arm legbreak	right-handed
00065	Chris Gayle	Jamaica	1979-09-21	Batsman	189.65	right-arm fast-medium	left-handed
00066	Vishwaraj Vedantam	Sri Lanka	1999-01-22	Wicketkeeper	102.24	left-arm fast-medium	right-handed

## **Stadium table:**

### **Stadium**

StadiumName	City	Country	Capacity	RentAmount
Narendra Modi Stadium	Ahmedabad	India	132000	4000000
M.Chinnaswamy Stadium	Banglore	India	40000	1200000
MA Chidambaram	Chennai	India	50000	1500000
Dubai International Cricket Stadium	Dubai	UAE	33000	990000
Wankhede Stadium	Mumbai	India	33000	990000
Sawai Mansingh Stadium	Jaipur	India	30000	900000
Arun Jaitley Stadium	New Delhi	India	41000	1230000
Rajiv Gandhi International Cricket Stadium	Hyderabad	India	55000	1650000
Eden Gardens	Kolkata	India	68000	2040000

### TeamDetails table:

TeamDetails

TeamID	Year	CaptainID	CoachID	SponsorCompany	SponsorAmount
RCB	2015	00023	10109	Star Sports Network	980000000
CSK	2015	00012	10104	Kent RO Systems	700000000
RR	2015	00060	10108	Myntra	300000000
MI	2015	00034	10111	PhonePe	830000000
KKR	2015	00045	10107	Aircel	470000000
RCB	2019	00023	10101	Muthoot Finance Ltd	230000000
CSK	2019	00012	10103	DHFL	610000000
RR	2019	00058	10105	Royal Stag	490000000
MI	2019	00034	10110	Colors	800000000
KKR	2019	00049	10107	Puma	190000000
RCB	2022	00023	10101	Kingfisher	980000000
CSK	2022	00012	10104	Swiggy	280000000
RR	2022	00060	10112	Royal Stag	310000000
MI	2022	00034	10111	Colgate	940000000
KKR	2022	00049	10106	Mai Dubai	820000000
GT	2022	00001	10108	Kotak Mahindra Bank	380000000

### TeamOwner table:

TeamOwner

CompanyName	BusinessDomain	Country
Red Chillies Entertainment	Film Industry	India
Reliance Industry Ltd	Telecommunications, Energy	India
CVC Capital Partners	Investment Advisory Firm	England
United Spirits	Alcoholic Beverages Company	England
Emerging Media IPL Ltd	Digital Venture Builder	England
India Cements Ltd	Cement Manufacturing	India

### Teams table:

Teams

TeamID	TeamName	OwnerCompany
RCB	Royal Challengers Bangalore	United Spirits
MI	Mumbai Indians	Reliance Industry Ltd
CSK	Chennai Super Kings	India Cements Ltd
GT	Gujarat Titans	CVC Capital Partners
RR	Rajasthan Royals	Emerging Media IPL Ltd
KKR	Kolkata Knight Riders	Red Chillies Entertainment

### TitleSponsor table:

TitleSponsor

CompanyName	BusinessDomain	Country
Vivo Mobile Pvt Ltd	Smartphone Company	China
Star Sports Network	Television Sports Channel Company	India
Dream 11	Fantasy Sports Platform	India
PhonePe	Financial Technology and Payments Company	India
Myntra	Fashion E-Commerce Company	India
Aircel	Mobile Network Operator	India
Muthoot Finance Ltd	Financial Corporation	India
DHFL	Housing Finance Company	India
Colors	General Entertainment Broadcast Company	India
Puma	Athletic Footwear, Apparels and Accessories	Germany
MPL	Online Gaming Platform	India
Kingfisher	Alcoholic Beverage Company	India
Swiggy	Online Food Ordering & Delivering Platform	India
Royal Stag	Alcoholic Beverage Company	India
Colgate	Oral Hygiene Product Company	United States of America
Mai Dubai	Food & Bevarage Company	Dubai
Kotak Mahindra Bank	Banking and Financial Services Company	India
Kent RO Systems	Healthcare Products Company	India

### Umpire table:

Umpire

UmpireID	Name	YearsOfExperience	Country
00001	Sundaram Ravi	15	Inida
00002	Paul Reiffel	18	Australia
00003	Nitin Menon	9	India
00004	Christopher Columbus	25	New Zealand
00005	Anil Chaudary	10	Inida
00006	C. Shamshuddin	20	India
00007	Arvindra Gohel	9	USA
00008	Sumukh Chattopadhyay	14	India
00009	Gerard Abood	23	Australia
00010	Afzal Ahmed	12	India

## UmpiredBy table:

UmpiredBy

MatchID	UmpireID
2015001	00001
2015001	00002
2015001	00003
2015002	00004
2015002	00005
2015002	00006
2015003	00007
2015003	00008
2015003	00009
2015004	00010
2015004	00001
2015004	00002
2015005	00003
2015005	00004
2015005	00005
2015011	00006
2015011	00007
2015011	00008
2015012	00009
2015012	00010
2015012	00001
2015021	00002
2015021	00003
2015021	00004
2019001	00005
2019001	00006
2019001	00007
2019002	00008
2019002	00009
2019002	00010
2019003	00001
2019003	00002
2019003	00003
2019004	00004
2019004	00005
2019004	00006
2019005	00007
2019005	00008
2019005	00009
2019011	00010
2019011	00001
2019011	00002
2019012	00003
2019012	00004
2019012	00005
2019021	00006
2019021	00007
2019021	00008
2022001	00009
2022001	00010
2022001	00001
2022002	00002
2022002	00003
2022002	00004
2022003	00005
2022003	00006
2022003	00007
2022004	00008
2022004	00009
2022004	00010
2022005	00001
2022005	00002
2022005	00003
2022006	00004
2022006	00005
2022006	00006
2022007	00007
2022007	00008
2022007	00009
2022008	00010
2022008	00001
2022008	00002
2022009	00003
2022009	00004
2022009	00005
2022011	00006



	2022011	00007
	2022011	00008
	2022012	00009
	2022012	00010
	2022012	00001
	2022021	00002
	2022021	00003
	2022021	00004

## YearwisePlayerDetails:

PlayerID	Year	TeamID	TotalWickets	TotalRuns	MaximumWickets	MaximumWicketsRuns	MaximumRuns	PlayerPos	Out_HatOut
00001	2015	CSK	4	339	2	46	54	15000000	0
00003	2015	CSK	0	527	0	29	57	90000000	1
00004	2015	CSK	4	203	3	25	58	20000000	0
00005	2015	CSK	4	39	4	34	26	50000000	1
00008	2015	CSK	3	96	2	8	67	80000000	0
00007	2015	CSK	0	980	0	38	49	10000000	0
00008	2015	CSK	4	238	4	28	62	80000000	0
00009	2015	CSK	8	3	3	3	3	10000000	1
00010	2015	CSK	5	942	3	9	53	80000000	0
00021	2015	CSK	1	95	1	14	80	10000000	1
00022	2015	CSK	8	54	4	17	38	14000000	0
00023	2015	RCB	5	32	4	42	33	90000000	1
00024	2015	RCB	1	47	1	34	24	15000000	1
00004	2015	RCB	4	88	5	14	29	60000000	0
00004	2015	RCB	3	52	2	30	46	10000000	0
00027	2015	RCB	7	54	5	50	48	10000000	0
00022	2015	RCB	5	35	2	43	9	90000000	0
00029	2015	RCB	5	238	3	26	57	20000000	1
00030	2015	RCB	4	87	3	29	48	14000000	1
00031	2015	RCB	4	237	2	52	58	40000000	0
00032	2015	RCB	4	244	3	36	53	15000000	0
00025	2015	RCB	4	257	4	24	53	60000000	0
00034	2015	MI	0	46	0	36	39	90000000	1
00035	2015	MI	5	238	2	42	35	10000000	0
00036	2015	MI	0	945	0	29	61	90000000	1
00037	2015	MI	8	54	4	46	57	40000000	0
00038	2015	MI	5	36	4	42	34	10000000	0
00039	2015	MI	5	33	2	46	28	20000000	1
00040	2015	MI		263			140	80000000	0
00041	2015	MI		89			23	50000000	1
00042	2015	MI	1	354	1	34	59	20000000	1
00043	2015	MI	2	234	1	5	30	20000000	1
00044	2015	MI	1	48	1	42	3	90000000	1
00046	2015	KKR	0	84	0	2	54	40000000	0
00046	2015	KKR	5	86	3	32	55	10000000	0
00047	2015	KKR	3	237	2	23	63	10000000	1
00048	2015	KKR	0	306	0	4	61	80000000	0
00049	2015	KKR		209			68	90000000	1
00050	2015	KKR		85			43	80000000	1
00051	2015	KKR	4	240	4	27	58	10000000	1
00052	2015	KKR	4	344	2	48	53	10000000	1
00053	2015	KKR	3	49	1	46	24	14000000	1
00054	2015	KKR	8	46	5	37	53	60000000	0
00055	2015	KKR	0	294	0	22	48	10000000	0
00056	2015	RR		800			57	80000000	0
00057	2015	RR	4	84	3	20	50	90000000	0
00058	2015	RR	4	325	2	21	84	10000000	1
00059	2015	RR	6	36	5	26	42	10000000	1
00060	2015	RR		36			32	20000000	0
00061	2015	RR		327			23	60000000	0
00062	2015	RR	3	46	2	47	24	90000000	0
00063	2015	RR	1	262	1	8	46	80000000	1
00064	2015	RR	3	265	2	5	55	20000000	1
00065	2015	RR	2	38	2	0	57	14000000	1
00066	2015	RR	5	84	3	46	61	20000000	0
00067	2015	CSK	1	284	1	34	50	40000000	1
00064	2019	CSK	8	42	5	32	58	80000000	0
00065	2019	CSK	4	53	4	48	50	80000000	0
00066	2019	CSK	1	88	1	31	46	14000000	0
00067	2019	CSK	8	225	4	44	50	10000000	1
00068	2019	CSK	7	880	3	2	66	30000000	0
00069	2019	CSK	2	283	1	43	56	50000000	1
00070	2019	CSK	3	284	1	43	90	80000000	0
00071	2019	CSK	3	36	2	34	3	40000000	1
00072	2019	CSK	4	80	2	48	61	90000000	1
00073	2019	RCB	7	86	5	42	56	80000000	0
00074	2019	RCB	4	294	3	57	39	30000000	1
00075	2019	RCB	3	262	1	2	54	10000000	0
00076	2019	RCB	8	88	4	3	27	10000000	0
00077	2019	RCB	4	0	4	48	0	10000000	0
00078	2019	RCB	1	237	1	47	54	20000000	1
00079	2019	RCB	3	259	2	48	50	90000000	0
00080	2019	RCB	3	234	2	38	67	20000000	1
00081	2019	RCB	3	300	3	23	56	10000000	0
00082	2019	RCB	5	227	3	40	52	14000000	0
00083	2019	RCB		92		47	39	30000000	0
00084	2019	MI	2	83	1	8	43	80000000	0
00085	2019	MI	3	57	2	29	20	80000000	1
00086	2019	MI	2	46	2	24	39	80000000	0
00087	2019	MI	4	239	3	23	54	10000000	0
00088	2019	MI	8	80	5	23	44	10000000	1
00089	2019	MI	0	215	0	3	51	20000000	1
00090	2019	MI		145			56	80000000	1
00091	2019	MI		83			30	30000000	1
00092	2019	MI	7	5	3	30	3	40000000	0
00093	2019	MI	4	84	3	43	24	10000000	1
00094	2019	MI	8	54	4	8	30	80000000	1
00096	2019	KKR	0	86	0	16	47	90000000	0
00097	2019	KKR		55			47	90000000	0
00097	2019	KKR	4	248	2	29	58	80000000	1
00098	2019	KKR	0	33	0	33	23	10000000	0
00099	2019	KKR	2	275	2	3	56	10000000	1
00100	2019	KKR		107			61	80000000	1
00097	2019	KKR		9			38	60000000	0
00093	2019	KKR	7	10	3	47	5	10000000	1
00093	2019	KKR	3	219	2	33	67	40000000	0
00094	2019	KKR	7	57	3	34	47	90000000	0
00096	2019	KKR	0	292	0	26	30	20000000	0
00096	2019	RR		246			56	80000000	0
00096	2019	RR	4	80	2	38	24	20000000	0
00098	2019	RR	7	88	5	0	52	10000000	0
00099	2019	RR	4	120	5	32	54	80000000	1
00100	2019	RR		73			46	10000000	1
00101	2019	RR		86			28	40000000	1
00092	2019	RR	4	226	3	5	53	10000000	1
00093	2019	RR	3	263	1	3	54	80000000	0
00094	2019	RR	4	57	3	30	47	10000000	0
00095	2019	RR	3	81	3	36	53	30000000	0
00096	2019	RR	4	88	2	34	39	20000000	1
00098	2022	GT	5	149	4	41	52	10000000	1
00099	2022	GT	5	54	3	8	50	10000000	0
00100	2022	GT	0	146	0	5	142	10000000	0
00104	2022	GT	7	238	3	2	68	10000000	1
00095	2022	GT	4	248	2	21	58	60000000	1
00096	2022	GT	3	246	3	26	52	20000000	1
00097	2022	GT		289			51	40000000	0
00098	2022	GT	0	188	0	27	28	20000000	0
00099	2022	GT	0	264	0	29	140	10000000	0
00100	2022	GT	4	320	2	29	64	50000000	0

00004	2022	GT	3	246	3	26	927	2000000	1
00007	2022	GT		289			196	8000000	0
00008	2022	GT	0	348	0	27	28	2000000	0
00009	2022	GT	0	24			340	1400000	0
00010	2022	GT	6	320	2	29	54	3000000	0
00011	2022	GT	3	204	1	34	20	1000000	0
00012	2022	CSK	6	329	2	34	29	4000000	1
00013	2022	CSK	7	41	1	34	9	4000000	0
00014	2022	CSK	1	26	1	22	29	4000000	1
00015	2022	CSK	2	27	1	3	26	4000000	0
00016	2022	CSK	4	44	2	46	54	9000000	0
00017	2022	CSK	7	248	4	7	40	1400000	0
00018	2022	CSK	7	229	5	17	93	9000000	0
00019	2022	CSK	1	86	1	3	24	1000000	1
00020	2022	CSK	0	242	0	44	347	9000000	0
00021	2022	CSK	1		1	28	25	1000000	0
00022	2022	CSK	8	93	3	26	94	2000000	1
00023	2022	RCB	0	290	0	5	144	1000000	0
00024	2022	RCB	7	366	6	9	24	2000000	0
00025	2022	RCB	8	147	5	14	44	1000000	1
00026	2022	RCB	6	80	4	6	54	1000000	1
00027	2022	RCB	3	20	2	27	46	9000000	0
00028	2022	RCB	3	28	1	8	23	9000000	1
00029	2022	RCB	8	88	4	28	57	1000000	0
00030	2022	RCB	1	93	1	14	49	9000000	0
00031	2022	RCB	5	903	4	35	28	4000000	1
00032	2022	RCB	3	48	3	17	42	1000000	0
00033	2022	RCB	4				3	2000000	0
00034	2022	MI	2	266	2	1	93	1000000	1
00035	2022	MI	8	301	4	22	93	8000000	0
00036	2022	MI	0	93	0	2	28	1400000	1
00037	2022	MI	8	242	5	24	28	2000000	0
00038	2022	MI	6	93	4	9	23	2000000	1
00039	2022	MI	6	323	2	48	99	9000000	0
00040	2022	MI		94			46	9000000	0
00041	2022	MI		29			99	2000000	0
00042	2022	MI	7	8	5	46	4	1000000	1
00043	2022	MI	7	305	3	6	56	9000000	1
00044	2022	MI	7	299	2	26	96	1400000	1
00045	2022	KKR	3	97	1	50	88	1400000	1
00046	2022	KKR	6	99	2	2	93	2000000	1
00047	2022	KKR	8	291	3	9	105	1000000	1
00048	2022	KKR	8	230	4	30	105	4000000	1
00049	2022	KKR		63			48	2000000	0
00050	2022	KKR		46			93	1000000	0
00051	2022	KKR	2	220	1	38	90	1000000	0
00052	2022	KKR	5	29	2	49	9	9000000	0
00053	2022	KKR	3	246	2	8	99	2000000	1
00054	2022	KKR	5	109	3	18	88	9000000	1
00055	2022	KKR	1	21	1	2	59	2000000	0
00056	2022	RR		46			27	4000000	1
00057	2022	RR	1	28	1	26	28	2000000	1
00058	2022	RR	3	38	2	49	9	1000000	1
00059	2022	RR	6	99	3	12	24	9000000	1
00060	2022	RR		343			97	9000000	0
00061	2022	RR		29			96	1000000	1
00062	2022	RR	0	140	0	46	93	9000000	0
00063	2022	RR	1	95	1	46	54	9000000	1
00064	2022	RR	8	5	4	3	9	9000000	0
00065	2022	RR	4	88	2	9	46	4000000	0
00066	2022	RR	0	27	0	12	49	2000000	0

## SQL QUERIES:

**1. List of all the players who have been participating in the IPL in the past years/particular year**

**Solution:**

All the years:

QUERY:

SELECT playerID, "Name" FROM players;

Particular years:

QUERY:

SELECT playerID, "Name" FROM  
players NATURAL JOIN YearwisePlayerDetails  
WHERE "Year" = 2019;

**2. The champions of a particular year/all the years**

**Solution:**

QUERIES:

All the Years:

SELECT "Year", ChampionTeam, TeamName FROM ipl JOIN teams on ChampionTeam =  
teamID;

Particular Year:

SELECT "Year", ChampionTeam, TeamName FROM ipl JOIN teams on ChampionTeam =  
teamID WHERE "Year" = 2022;

### **3.A team who won all the matches played by it during a particular season**

**Solution:**

QUERY:

```
SELECT DISTINCT TeamID,EXTRACT(YEAR FROM "Date")
FROM "Match" AS m NATURAL JOIN Played AS p
WHERE EXTRACT(YEAR FROM "Date")='2019' AND p.winner='1'
EXCEPT
SELECT DISTINCT TeamID,EXTRACT(YEAR FROM "Date") FROM "Match" AS m
NATURAL JOIN Played AS p
WHERE EXTRACT(YEAR FROM "Date")='2019' AND p.winner='0';
```

### **4.List the teams who reached the finals maximum number of times**

**Solution:**

QUERY:

```
SELECT teamID, count(teamID) as No_of_times_team_reached_finals FROM
played NATURAL JOIN "Match" WHERE matchtype = 'Final'
GROUP BY teamID ORDER BY No_of_times_team_reached_finals DESC LIMIT 1;
```

### **5.Count of total wickets taken by all the bowlers**

**Solution:**

QUERY:

```
SELECT SUM(TotalWickets) FROM YearwisePlayerDetails NATURAL JOIN players
WHERE "Role" = 'Bowler';
```