

# **Dhirubhai Ambani Institute of Information and Communication Technology**



IT214 – Database Management System

Database for keeping records of Indian Premier League

G5\_14

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## **(1) DDL Scripts**

```
CREATE SCHEMA IPL;
```

```
SET SEARCH_PATH TO IPL;
```

```
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)  
);
```

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

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

```
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  
);
```

```
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  
);
```

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

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

```
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  
);
```

```
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  
);
```

```
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  
);
```

```
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
);

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
);

```

```

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);

```