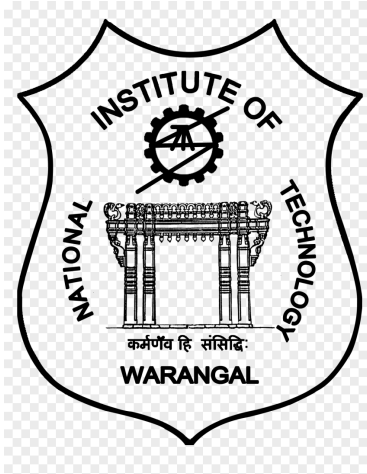


# DATABASE MANAGEMENT SYSTEM PROJECT



## TOPIC

### CRICKET DATABASE

BY:

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## **PROBLEM STATEMENT:-**

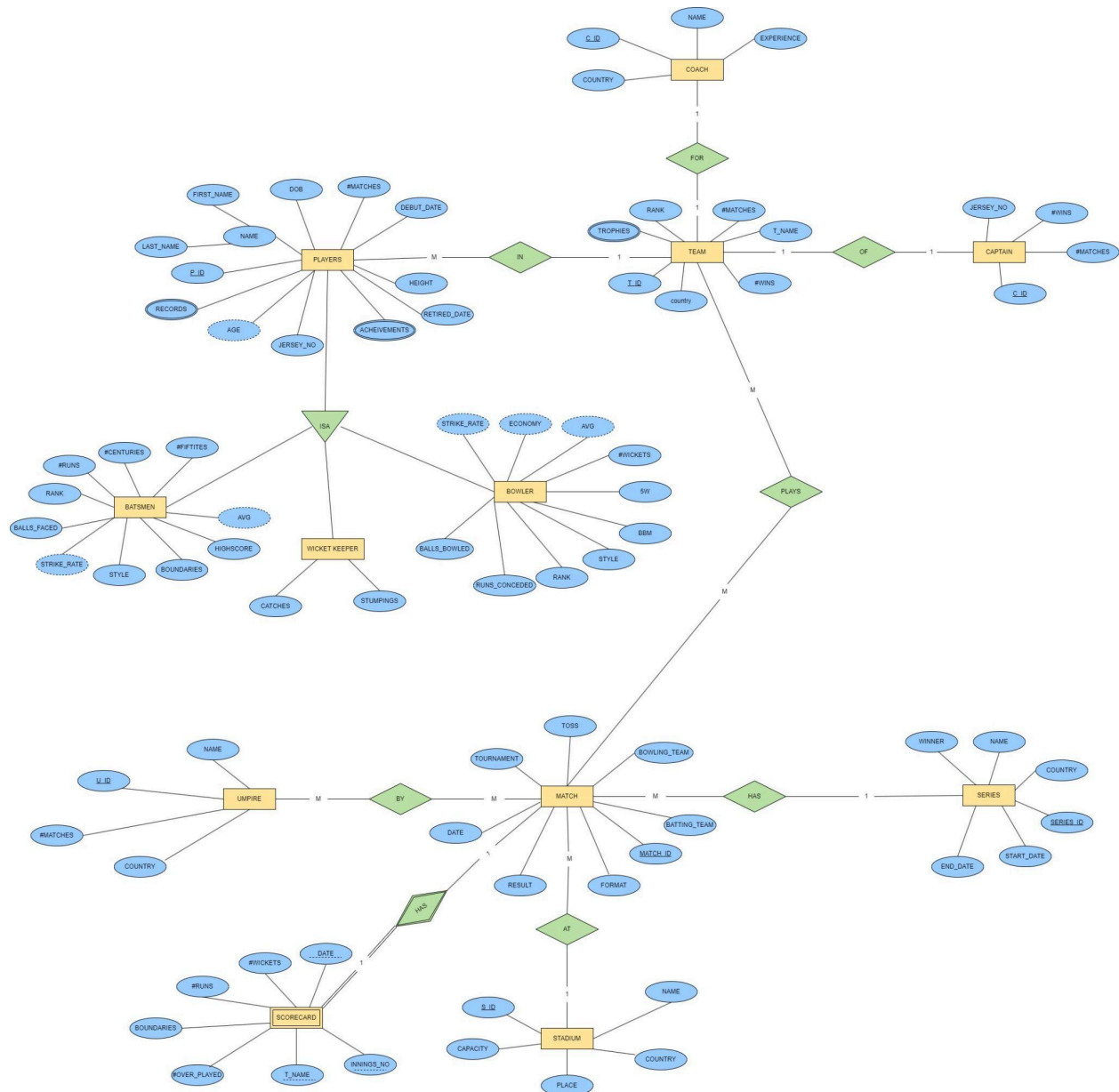
Our project aims to design and implement a comprehensive database system for cricket management. The database will encompass various entities such as teams, players, coaches, matches, umpires, and series, allowing for efficient organization and retrieval of cricket-related data. With tables dedicated to team details, player statistics, match information, and more, our database seeks to provide a centralized platform for storing and managing critical information pertaining to cricket tournaments and events.

By offering functionalities for data insertion, modification, deletion and retrieval, our database system aims to streamline operations and facilitate effective decision-making processes for cricket administrators, teams, and enthusiasts alike.

## **CONTENTS**

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- **ER MODEL ASSUMPTIONS**
- **NORMALISATION OF TABLES**
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# ENTITY RELATIONSHIP MODEL:



## **ER MODEL ASSUMPTIONS:**

### **TEAM:**

- Each team has a unique team ID (T\_ID).
- Teams have a name, country, rank, number of matches played, and number of wins.

### **TROPHIES:**

- Each trophy is associated with a team through the team ID (T\_ID).
- Each team can have multiple trophies(1:m).

### **CAPTAIN:**

- Each captain has a unique captain ID (C\_ID).
- Captains are associated with a team through the team ID (T\_ID).
- Each team has one captain(1:1).
- Captains have a number of wins, jersey number, and number of matches played.

### **PLAYERS:**

- Each player has a unique player ID (P\_ID).
- Players are associated with a team through the team ID (T\_ID).
- A team contains many players(1:m).
- Players have attributes like first name, last name, date of birth, jersey number, height, debut date, and retired date.
- Player details are provided based on the whole career irrespective of a particular match.

### **BATSMAN:**

- Each batsman is associated with a player through the player ID (P\_ID).
- Batsmen have statistics such as the number of centuries, fifties, balls faced, runs scored, and their playing style.

### **BOWLER:**

- Each bowler is associated with a player through the player ID (P\_ID).
- Bowlers have statistics such as runs conceded, balls bowled, number of wickets taken, best bowling figures, and playing style.

### **WICKET\_KEEPER:**

- Each wicket keeper is associated with a player through the player ID (P\_ID).
- Wicketkeepers have statistics such as catches taken and stumpings made.

### **COACH:**

- Each coach has a unique coach ID (C\_ID).

- Coaches are associated with a team through the team ID (T\_ID).
- Each team has only one coach(1:1).
- Coaches have attributes like name, experience, and country.

**MATCH:**

- Each match has a unique match ID (MATCH\_ID).
- A series can have many matches(1:m).
- Many matches can be held in a stadium(m:1).
- Matches have details such as toss result, tournament type, format, participating teams (bowling and batting), date, stadium ID, result, and series ID but not the players in the match.
- Matches are held among the countries but not within the countries.

**UMPIRE:**

- Each umpire has a unique umpire ID (U\_ID).
- Umpires have attributes like country, number of matches officiated, and name.

**SERIES:**

- Each series has a unique series ID (SERIES\_ID).
- Series have attributes such as name, country, winner, start date, and end date.

**STADIUM:**

- Each stadium has a unique stadium ID (S\_ID).
- Stadiums have attributes like place, capacity, name, and country.

**SCORECARD:**

- Scorecards contain details of runs scored, boundaries hit, wickets taken, overs played of total team but not individual players details etc., in a match.

**PLAYS:**

- Associates teams (T\_ID) with matches (MATCH\_ID), indicating which teams participated in which matches.

**UMPIRED\_BY:**

- Associates umpires (U\_ID) with matches (MATCH\_ID), indicating which umpires officiated which matches.

**RECORDS and ACHIEVEMENTS:**

- These tables store player records and achievements respectively, associated with player IDs (P\_ID).

# **NORMALISATION:**

## **1) TEAM**

**Primary key:** T\_ID

All attributes depend on the T\_ID , hence the table is **2NF**.

All attributes depend directly on T\_ID , hence the table is in **3NF**.

All determinants (T\_ID ) are candidate keys, hence the table is in **BCNF**.

## **2) TROPHIES**

**Primary key:** T\_ID

All attributes depend on the T\_ID , hence the table is **2NF**.

All attributes depend directly on T\_ID , hence the table is in **3NF**.

All determinants (T\_ID ) are candidate keys, hence the table is in **BCNF**.

## **3) CAPTAIN**

**Primary key:** C\_ID

All attributes depend on the C\_ID, hence the table is **2NF**.

All attributes depend directly on C\_ID, hence the table is in **3NF**.

All determinants (C\_ID) are candidate keys, hence the table is in **BCNF**.

## **4) PLAYERS**

**Primary key:** P\_ID

All attributes depend on the P\_ID, hence the table is **2NF**.

All attributes depend directly on P\_ID, hence the table is in **3NF**.

All determinants (P\_ID) are candidate keys, hence the table is in **BCNF**.

### **5) BATSMAN**

**Primary key:** P\_ID

All attributes depend on the P\_ID, hence the table is **2NF**.

All attributes depend directly on P\_ID, hence the table is in **3NF**.

All determinants (P\_ID) are candidate keys, hence the table is in **BCNF**.

### **6) BOWLER**

**Primary key:** P\_ID

All attributes depend on the P\_ID, hence the table is **2NF**.

All attributes depend directly on P\_ID, hence the table is in **3NF**.

All determinants (P\_ID) are candidate keys, hence the table is in **BCNF**.

### **7) WICKET\_KEEPER**

**Primary key:** P\_ID

All attributes depend on the P\_ID, hence the table is **2NF**.

All attributes depend directly on P\_ID, hence the table is in **3NF**.

All determinants (P\_ID) are candidate keys, hence the table is in **BCNF**.

### **8) COACH**

**Primary key:** C\_ID

All attributes depend on the C\_ID, hence the table is **2NF**.

All attributes depend directly on C\_ID, hence the table is in **3NF**.

All determinants (C\_ID) are candidate keys, hence the table is in **BCNF**.

### 9) MATCH

**Primary key:** MATCH\_ID

All attributes depend on the MATCH\_ID, hence the table is **2NF**.

All attributes depend directly on MATCH\_ID, hence the table is in **3NF**.

All determinants (MATCH\_ID) are candidate keys, hence the table is in **BCNF**.

### 10) UMPIRE

**Primary key:** U\_ID

All attributes depend on the U\_ID, hence the table is **2NF**.

All attributes depend directly on U\_ID, hence the table is in **3NF**.

All determinants (U\_ID) are candidate keys, hence the table is in **BCNF**.

### 11) SERIES

**Primary key:** SERIES\_ID

All attributes depend on the SERIES\_ID, hence the table is **2NF**.

All attributes depend directly on SERIES\_ID, hence the table is in **3NF**.

All determinants (SERIES\_ID) are candidate keys, hence the table is in **BCNF**.

### 12) STADIUM

**Primary key:** S\_ID

All attributes depend on the S\_ID, hence the table is **2NF**.

All attributes depend directly on S\_ID, hence the table is in **3NF**.

All determinants (S\_ID) are candidate keys, hence the table is in **BCNF**.



### 13) SCORECARD

**Primary key:**{ MATCH\_ID,DATE,T\_NAME,INNINGS\_NO}

All attributes depend on the { MATCH\_ID,DATE,T\_NAME,INNINGS\_NO} , hence the table is **2NF**.

All attributes depend directly on { MATCH\_ID,DATE,T\_NAME,INNINGS\_NO} , hence the table is in **3NF**.

All determinants { MATCH\_ID,DATE,T\_NAME,INNINGS\_NO} are candidate keys, hence the table is in **BCNF**.

### 14) PLAYS

**Primary key:**{MATCH\_ID,T\_ID}

All attributes depend on the {MATCH\_ID,T\_ID} , hence the table is **2NF**.

All attributes depend directly on {MATCH\_ID,T\_ID} , hence the table is in **3NF**.

All determinants {MATCH\_ID,T\_ID} are candidate keys, hence the table is in **BCNF**.

### 15) UMPIRED\_BY

**Primary key:** {MATCH\_ID,U\_ID}

All attributes depend on the {MATCH\_ID,U\_ID} , hence the table is **2NF**.

All attributes depend directly on {MATCH\_ID,U\_ID} , hence the table is in **3NF**.

All determinants {MATCH\_ID,U\_ID} are candidate keys, hence the table is in **BCNF**.

### 16) RECORDS

**Primary key:** PLAYER\_ID

All attributes depend on the PLAYER\_ID, hence the table is **2NF**.

All attributes depend directly on PLAYER\_ID, hence the table is in **3NF**.  
All determinants (PLAYER\_ID) are candidate keys, hence the table is in **BCNF**.

## 17) ACHIEVEMENTS

**Primary key:** PLAYER\_ID

All attributes depend on the PLAYER\_ID, hence the table is **2NF**.

All attributes depend directly on PLAYER\_ID, hence the table is in **3NF**.

All determinants (PLAYER\_ID) are candidate keys, hence the table is in **BCNF**.

## TABLES AFTER NORMALISATION

### 1)TEAM

ATTRIBUTE	DATATYPE	CONSTRAINTS
T_ID	REAL	NOT NULL,PRIMARY_KEY
T_NAME	VARCHAR(30)	NOT NULL
COUNTRY	VARCHAR(30)	NOT NULL
RANK	REAL	NOT NULL
NO_OF_MATCHES	REAL	NOT NULL
NO_OF_WINS	REAL	NOT NULL

### 2)TROPHIES

ATTRIBUTE	DATATYPE	CONSTRAINTS
TROPHIES	VARCHAR(30)	NOT NULL
T_ID	REAL	NOT NULL,FOREIGN_KEY
TROPHY_ID	REAL	NOT NULL,PRIMARY_KEY

### 3)CAPTAIN

ATTRIBUTE	DATATYPE	CONSTRAINTS
C_ID	REAL	NOT NULL,PRIMARY_KEY
NO_OF_WINS	REAL	NOT NULL
JERSY_NO	REAL	NOT NULL
NO_OF_MATCHES	REAL	NOT NULL
T_ID	REAL	NOT NULL,FOREIGN_KEY

### 4)PLAYERS

ATTRIBUTE	DATATYPE	CONSTRAINTS
P_ID	REAL	NOT NULL,PRIMARY_KEY
NO_OF_MATCHES	REAL	NOT NULL
FIRST_NAME	VARCHAR(30)	NOT NULL
LAST_NAME	VARCHAR(30)	NOT NULL
DOB	DATE	NOT NULL
JERSY_NO	REAL	NOT NULL
HEIGHT	REAL	NOT NULL
DEBUT_DATE	DATE	NOT NULL
RETIRED_DATE	DATE	CAN BE NULL
T_ID	REAL	NOT NULL,FOREIGN_KEY

## 5)BATSMAN

ATTRIBUTE	DATATYPE	CONSTRAINTS
P_ID	REAL	NOT NULL,PRIMARY_KEY, FOREIGN_KEY
NO_OF_CENTURIES	REAL	NOT NULL
NO_OF_FIFTIES	REAL	NOT NULL
BALLS_FACED	REAL	NOT NULL
RUNS	REAL	NOT NULL
RANK	REAL	NOT NULL
BOUNDARIES	REAL	NOT NULL
STYLE	VARCHAR(30)	NOT NULL
HIGH_SCORE	REAL	NOT NULL

## 6)BOWLER

ATTRIBUTE	DATATYPE	CONSTRAINTS
P_ID	REAL	NOT NULL,PRIMARY_KEY, FOREIGN_KEY
RUNS_CONCEDED	REAL	NOT NULL
BALLS_BOWLED	REAL	NOT NULL
NO_OF_WICKETS	REAL	NOT NULL
NO_OF_5W	REAL	NOT NULL
BBM	VARCHAR(30)	NOT NULL
STYLE	VARCHAR(30)	NOT NULL
RANK	REAL	NOT NULL

### 7)WICKET\_KEEPER

ATTRIBUTE	DATATYPE	CONSTRAINTS
P_ID	REAL	NOT NULL,PRIMARY_KEY, FOREIGN_KEY
CATCHES	REAL	NOT NULL
STUMPINGS	REAL	NOT NULL

### 8)COACH

ATTRIBUTE	DATATYPE	CONSTRAINTS
C_ID	REAL	NOT NULL,PRIMARY_KEY
T_ID	REAL	NOT NULL,FOREIGN_KEY
NAME	VARCHAR(30)	NOT NULL
EXPERIENCE	VARCHAR(30)	NOT NULL
COUNTRY	VARCHAR(30)	NOT NULL

### 9)MATCH

ATTRIBUTE	DATATYPE	CONSTRAINTS
MATCH_ID	REAL	NOT NULL,PRIMARY_KEY
TOSS	VARCHAR(30)	NOT NULL
TOURNAMENT_TYPE	VARCHAR(30)	NOT NULL
FORMAT	VARCHAR(30)	NOT NULL
BOWLING_TEAM	VARCHAR(30)	NOT NULL
BATING_TEAM	VARCHAR(30)	NOT NULL
DATE	DATE	NOT NULL
STADIUM_ID	REAL	NOT NULL,FOREIGN_KEY
RESULT	VARCHAR(30)	NOT NULL
SERIES_ID	REAL	NOT NULL,FOREIGN_KEY

## 10)UMPIRE

ATTRIBUTE	DATATYPE	CONSTRAINTS
U_ID	REAL	NOT NULL,PRIMARY_KEY
COUNTRY	VARCHAR(30)	NOT NULL
NO_OF_MATCHES	REAL	NOT NULL
NAME	VARCHAR(30)	NOT NULL

## 11)SERIES

ATTRIBUTE	DATATYPE	CONSTRAINTS
SERIES_ID	REAL	NOT NULL,PRIMARY_KEY
NAME	VARCHAR(100)	NOT NULL
COUNTRY	VARCHAR(100)	NOT NULL
WINNER	VARCHAR(100)	NOT NULL
START_DATE	DATE	NOT NULL
END_DATE	DATE	NOT NULL

## 12)STADIUM

ATTRIBUTE	DATATYPE	CONSTRAINTS
S_ID	REAL	NOT NULL,PRIMARY_KEY
PLACE	VARCHAR(100)	NOT NULL
CAPACITY	REAL	NOT NULL
NAME	VARCHAR(30)	NOT NULL
COUNTRY	VARCHAR(30)	NOT NULL

### 13)SCORECARD

ATTRIBUTE	DATATYPE	CONSTRAINTS
T_NAME	VARCHAR(30)	NOT NULL,PRIMARY_KEY, FOREIGN_KEY
DATE	DATE	NOT NULL,PRIMARY_KEY
INNINGS_NO	REAL	NOT NULL,PRIMARY_KEY
BOUNDARIES	REAL	NOT NULL
RUNS	REAL	NOT NULL
NO_OF_WICKETS	REAL	NOT NULL
OVERS_PLAYED	REAL	NOT NULL
MATCH_ID	REAL	NOT NULL,PRIMARY_KEY

### 14)PLAYS

ATTRIBUTE	DATATYPE	CONSTRAINTS
MATCH_ID	REAL	NOT NULL,FOREIGN_KEY
T_ID	REAL	NOT NULL,FOREIGN_KEY

### 15)UMPIRED\_BY

ATTRIBUTE	DATATYPE	CONSTRAINTS
MATCH_ID	REAL	NOT NULL,FOREIGN_KEY
U_ID	REAL	NOT NULL,FOREIGN_KEY

## 16)RECORDS

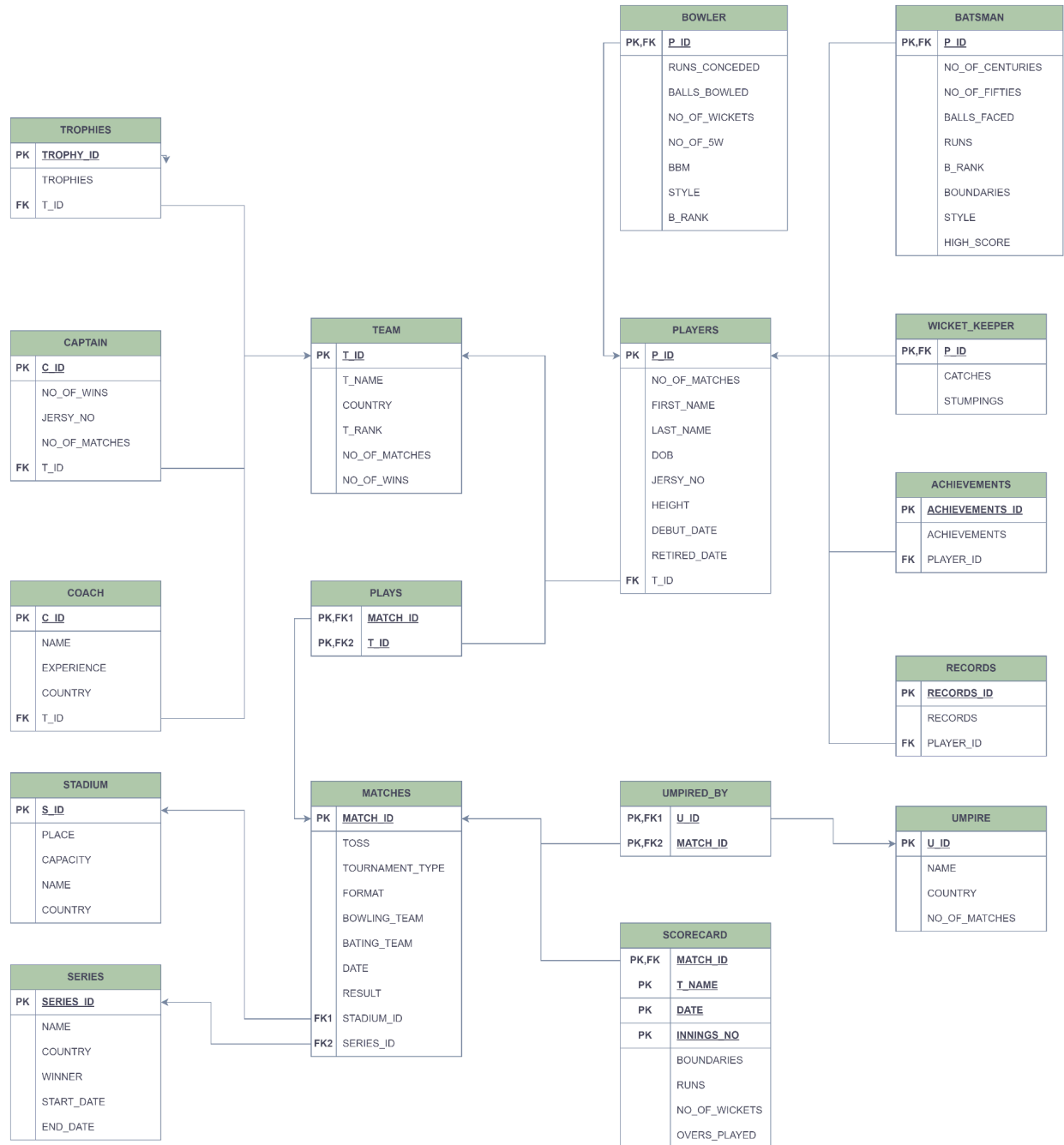
ATTRIBUTE	DATATYPE	CONSTRAINTS
RECORD_ID	REAL	NOT NULL,PRIMARY_KEY
RECORDS	VARCHAR(100)	NOT NULL
PLAYER_ID	REAL	NOT NULL,FOREIGN_KEY

## 17)ACHIEVEMENTS

ATTRIBUTE	DATATYPE	CONSTRAINTS
ACHIEVEMENT_ID	REAL	NOT NULL,PRIMARY_KEY
ACHIEVEMENTS	VARCHAR(100)	NOT NULL
PLAYER_ID	REAL	NOT NULL,FOREIGN_KEY



# RELATIONAL SCHEMA:



## CREATION AND INSERTION:

```
CREATE TABLE TEAM(  
T_ID REAL,  
T_NAME VARCHAR(30),  
COUNTRY VARCHAR(30),  
T_RANK REAL,  
NO_OF_MATCHES REAL,  
NO_OF_WINS REAL,  
PRIMARY KEY(T_ID)  
);
```

```
INSERT INTO TEAM VALUES (1, 'IND', 'India', 1, 10, 8);  
INSERT INTO TEAM VALUES (2, 'PAK', 'Pakistan', 2, 12, 9);  
INSERT INTO TEAM VALUES (3, 'AUS', 'Australia', 3, 15, 11);  
INSERT INTO TEAM VALUES (4, 'ENG', 'England', 4, 9, 6);  
INSERT INTO TEAM VALUES (5, 'SA', 'South Africa', 5, 11, 7);  
INSERT INTO TEAM VALUES (6, 'NZ', 'New Zealand', 6, 14, 10);  
INSERT INTO TEAM VALUES (7, 'WI', 'West Indies', 7, 8, 5);  
INSERT INTO TEAM VALUES (8, 'SL', 'Sri Lanka', 8, 13, 9);  
INSERT INTO TEAM VALUES (9, 'BAN', 'Bangladesh', 9, 10, 6);  
INSERT INTO TEAM VALUES (10, 'AFG', 'Afghanistan', 10, 16, 12);  
INSERT INTO TEAM VALUES (11, 'IRE', 'Ireland', 11, 11, 8);  
INSERT INTO TEAM VALUES (12, 'SCO', 'Scotland', 12, 7, 4);  
INSERT INTO TEAM VALUES (13, 'ZIM', 'Zimbabwe', 13, 18, 15);  
INSERT INTO TEAM VALUES (14, 'UAE', 'United Arab Emirates', 14, 9, 5);  
INSERT INTO TEAM VALUES (15, 'NET', 'Netherlands', 15, 10, 6);  
SELECT * FROM TEAM;
```

T_ID	T_NAME	COUNTRY	T_RANK	NO_OF_MATCHES	NO_OF_WINS
1	IND	India	1	10	8
2	PAK	Pakistan	2	12	9
3	AUS	Australia	3	15	11
4	ENG	England	4	9	6
5	SA	South Africa	5	11	7
6	NZ	New Zealand	6	14	10
7	WI	West Indies	7	8	5
8	SL	Sri Lanka	8	13	9
9	BAN	Bangladesh	9	10	6
10	AFG	Afghanistan	10	16	12

```

CREATE TABLE TROPHIES (
TROPHY_ID REAL,
TROPHIES VARCHAR(30),
T_ID REAL,
PRIMARY KEY(TROPHY_ID),
FOREIGN KEY(T_ID) REFERENCES TEAM(T_ID)
);

```

```

INSERT INTO TROPHIES VALUES (1, 'World Cup', 1);
INSERT INTO TROPHIES VALUES (2, 'Champions Trophy', 2);
INSERT INTO TROPHIES VALUES (3, 'Ashes', 3);
INSERT INTO TROPHIES VALUES (4, 'ICC T20 World Cup', 4);
INSERT INTO TROPHIES VALUES (5, 'ICC Test Championship', 5);
INSERT INTO TROPHIES VALUES (6, 'ICC Champions Trophy', 6);
INSERT INTO TROPHIES VALUES (7, 'Caribbean Premier League', 7);
INSERT INTO TROPHIES VALUES (8, 'Asia Cup', 8);
INSERT INTO TROPHIES VALUES (9, 'Bangladesh Premier League', 9);
INSERT INTO TROPHIES VALUES (10, 'Afghanistan Premier League', 10);
INSERT INTO TROPHIES VALUES (11, 'IPL', 11);
INSERT INTO TROPHIES VALUES (12, 'Ireland Provincial Trophy', 12);
INSERT INTO TROPHIES VALUES (13, 'Zimbabwe Premier League', 13);
INSERT INTO TROPHIES VALUES (14, 'UAE T20x', 14);
INSERT INTO TROPHIES VALUES (15, 'Netherlands Cricket League', 15);

```

```

SELECT * FROM TROPHIES;

```

TROPHY_ID	TROPHIES	T_ID
1	World Cup	1
2	Champions Trophy	2
3	Ashes	3
4	ICC T20 World Cup	4
5	ICC Test Championship	5
6	ICC Champions Trophy	6
7	Caribbean Premier League	7
8	Asia Cup	8
9	Bangladesh Premier League	9
10	Afghanistan Premier League	10

```

CREATE TABLE CAPTAIN(
C_ID REAL,
NO_OF_WINS REAL,
JERSY_NO REAL,
NO_OF_MATCHES REAL,
T_ID REAL,
PRIMARY KEY(C_ID),
FOREIGN KEY(T_ID) REFERENCES TEAM(T_ID)
);

```

```

INSERT INTO CAPTAIN VALUES (1, 80, 10, 120, 1);
INSERT INTO CAPTAIN VALUES (2, 70, 7, 110, 2);
INSERT INTO CAPTAIN VALUES (3, 90, 5, 130, 3);
INSERT INTO CAPTAIN VALUES (4, 60, 11, 100, 4);
INSERT INTO CAPTAIN VALUES (5, 75, 18, 115, 5);
INSERT INTO CAPTAIN VALUES (6, 85, 3, 125, 6);
INSERT INTO CAPTAIN VALUES (7, 50, 15, 90, 7);
INSERT INTO CAPTAIN VALUES (8, 65, 2, 105, 8);
INSERT INTO CAPTAIN VALUES (9, 55, 8, 95, 9);
INSERT INTO CAPTAIN VALUES (10, 95, 1, 140, 10);
INSERT INTO CAPTAIN VALUES (11, 70, 6, 110, 11);
INSERT INTO CAPTAIN VALUES (12, 45, 14, 85, 12);
INSERT INTO CAPTAIN VALUES (13, 75, 20, 115, 13);
INSERT INTO CAPTAIN VALUES (14, 40, 9, 80, 14);
INSERT INTO CAPTAIN VALUES (15, 50, 17, 95, 15);

```

```

SELECT * FROM CAPTAIN;

```

C_ID	NO_OF_WINS	JERSY_NO	NO_OF_MATCHES	T_ID
1	80	10	120	1
2	70	7	110	2
3	90	5	130	3
4	60	11	100	4
5	75	18	115	5
6	85	3	125	6
7	50	15	90	7
8	65	2	105	8
9	55	8	95	9
10	95	1	140	10

```
CREATE TABLE PLAYERS(  
P_ID REAL,  
NO_OF_MATCHES REAL,  
FIRST_NAME VARCHAR(30),  
LAST_NAME VARCHAR(30),  
DOB DATE,  
JERSY_NO REAL,  
HEIGHT REAL,  
DEBUT_DATE DATE,  
RETIRED_DATE DATE,  
T_ID REAL,  
PRIMARY KEY(P_ID),  
FOREIGN KEY(T_ID) REFERENCES TEAM(T_ID)  
);
```

```
INSERT INTO PLAYERS VALUES (1, 100, 'Sachin', 'Tendulkar', '1973-04-24', 10, 165,  
'1989-11-15', '2013-11-16', 1);
```

```
INSERT INTO PLAYERS VALUES (2, 95, 'Ricky', 'Ponting', '1974-12-19', 12, 178, '1995-12-15',  
'2012-12-03', 2);
```

```
INSERT INTO PLAYERS VALUES (3, 110, 'Jacques', 'Kallis', '1975-10-16', 3, 183, '1995-12-09',  
'2014-07-30', 3);
```

```
INSERT INTO PLAYERS VALUES (4, 85, 'Kumar', 'Sangakkara', '1977-10-27', 11, 175,  
'2000-07-05', '2015-08-24', 4);
```

```
INSERT INTO PLAYERS VALUES (5, 120, 'Brian', 'Lara', '1969-05-02', 18, 180, '1990-11-23',  
NULL, 5);
```

```
INSERT INTO PLAYERS VALUES (6, 105, 'Shane', 'Warne', '1969-09-13', 3, 183, '1992-01-02',  
NULL, 6);
```

```
INSERT INTO PLAYERS VALUES (7, 90, 'Vivian', 'Richards', '1952-03-07', 15, 180,  
'1975-06-07', NULL, 7);
```

```
INSERT INTO PLAYERS VALUES (8, 105, 'Wasim', 'Akram', '1966-06-03', 2, 183, '1984-11-23',  
'2003-07-05', 8);
```

```
INSERT INTO PLAYERS VALUES (9, 95, 'Rahul', 'Dravid', '1973-01-11', 8, 178, '1996-06-20',  
'2012-03-09', 9);
```

```
INSERT INTO PLAYERS VALUES (10, 140, 'Rashid', 'Khan', '1998-09-20', 1, 168, '2015-10-18',  
NULL, 10);
```

INSERT INTO PLAYERS VALUES (11, 110, 'Kevin', 'Brien', '1984-03-04', 6, 183, '2006-06-13', NULL, 11);

INSERT INTO PLAYERS VALUES (12, 85, 'Kyle', 'Coetzer', '1984-04-03', 14, 175, '2003-06-01', NULL, 12);

INSERT INTO PLAYERS VALUES (13, 115, 'Brendan', 'Taylor', '1986-02-06', 20, 178, '2004-04-23', NULL, 13);

INSERT INTO PLAYERS VALUES (14, 80, 'Ahmed', 'Raza', '1988-02-11', 9, 170, '2006-02-24', NULL, 14);

INSERT INTO PLAYERS VALUES (15, 95, 'Pieter', 'Seelaar', '1987-07-28', 17, 185, '2006-08-22', NULL, 15);

INSERT INTO PLAYERS VALUES (16, 100, 'Virat', 'Kohli', '1988-11-05', 18, 175, '2008-08-18', NULL, 1);

INSERT INTO PLAYERS VALUES (17, 105, 'Rohit', 'Sharma', '1987-04-30', 45, 180, '2007-06-23', NULL, 1);

INSERT INTO PLAYERS VALUES (18, 95, 'Jasprit', 'Bumrah', '1993-12-06', 93, 175, '2016-01-23', NULL, 1);

INSERT INTO PLAYERS VALUES (19, 110, 'MS', 'Dhoni', '1981-07-07', 7, 178, '2004-12-23', NULL, 1);

INSERT INTO PLAYERS VALUES (20, 120, 'Hardik', 'Pandya', '1993-10-11', 33, 183, '2016-01-23', NULL, 1);

INSERT INTO PLAYERS VALUES (21, 90, 'Jasprit', 'Bumrah', '1993-12-06', 93, 175, '2016-01-23', NULL, 1);

INSERT INTO PLAYERS VALUES (22, 105, 'Mohammed', 'Shami', '1990-09-03', 11, 183, '2011-01-06', NULL, 1);

INSERT INTO PLAYERS VALUES (23, 95, 'Shikhar', 'Dhawan', '1985-12-05', 25, 178, '2010-10-20', NULL, 1);

INSERT INTO PLAYERS VALUES (24, 140, 'Ravindra', 'Jadeja', '1988-12-06', 8, 170, '2009-02-08', NULL, 1);

INSERT INTO PLAYERS VALUES (25, 110, 'Bhuvneshwar', 'Kumar', '1990-12-05', 15, 178, '2012-12-25', NULL, 1);

```
INSERT INTO PLAYERS VALUES (26, 85, 'Ravichandran', 'Ashwin', '1986-09-17', 99, 183, '2010-06-05', NULL, 1);
```

```
INSERT INTO PLAYERS VALUES (27, 115, 'Kuldeep', 'Yadav', '1994-12-14', 23, 168, '2017-03-25', NULL, 1);
```

```
INSERT INTO PLAYERS VALUES (28, 80, 'Yuzvendra', 'Chahal', '1990-07-23', 12, 170, '2016-06-11', NULL, 1);
```

```
INSERT INTO PLAYERS VALUES (29, 95, 'Ajinkya', 'Rahane', '1988-06-06', 18, 178, '2011-09-03', NULL, 1);
```

```
INSERT INTO PLAYERS VALUES (30, 105, 'Rishabh', 'Pant', '1997-10-04', 17, 170, '2012-12-25', NULL, 4);
```

```
SELECT * FROM PLAYERS;
```

P_ID	NO_OF_MATCHES	FIRST_NAME	LAST_NAME	DOB	JERSEY_NO	HEIGHT	DEBUT_DATE	RETIRED_DATE	T_ID
1	100	Sachin	Tendulkar	1973-04-24	10	165	1989-11-15	2013-11-16	1
2	95	Ricky	Ponting	1974-12-19	12	178	1995-12-15	2012-12-03	2
3	110	Jacques	Kallis	1975-10-16	3	183	1995-12-09	2014-07-30	3
4	85	Kumar	Sangakkara	1977-10-27	11	175	2000-07-05	2015-08-24	4
5	120	Brian	Lara	1969-05-02	18	180	1990-11-23	NULL	5
6	105	Shane	Warne	1969-09-13	3	183	1992-01-02	NULL	6
7	90	Vivian	Richards	1952-03-07	15	180	1975-06-07	NULL	7
8	105	Wasim	Akram	1966-06-03	2	183	1984-11-23	2003-07-05	8
9	95	Rahul	Dravid	1973-01-11	8	178	1996-06-20	2012-03-09	9
10	140	Rashid	Khan	1998-09-20	1	168	2015-10-18	NULL	10
11	110	Kevin	Brien	1984-03-04	6	183	2006-06-13	NULL	11
12	85	Kyle	Coetzer	1984-04-03	14	175	2003-06-01	NULL	12
13	115	Brendan	Taylor	1986-02-06	20	178	2004-04-23	NULL	13
14	80	Ahmed	Raza	1988-02-11	9	170	2006-02-24	NULL	14
15	95	Pieter	Seelaar	1987-07-28	17	185	2006-08-22	NULL	15

```
CREATE TABLE BATSMAN(
P_ID REAL,
NO_OF_CENTURIES REAL,
NO_OF_FIFTIES REAL,
BALLS_FACED REAL,
RUNS REAL,
B_RANK REAL,
BOUNDARIES REAL,
STYLE VARCHAR(30),
HIGH_SCORE REAL,
PRIMARY KEY(P_ID),
FOREIGN KEY(P_ID) REFERENCES PLAYERS(P_ID)
);
```

```
INSERT INTO BATSMAN VALUES (1, 51, 68, 21345, 18426, 1, 2578, 'Right-hand batsman', 248);
```

```
INSERT INTO BATSMAN VALUES (2, 41, 62, 19725, 16745, 2, 2265, 'Right-hand batsman', 257);
```

```
INSERT INTO BATSMAN VALUES (3, 35, 59, 18845, 15832, 3, 2101, 'Right-hand batsman', 224);
```

```
INSERT INTO BATSMAN VALUES (5, 49, 60, 19500, 15921, 4, 2198, 'Left-hand batsman', 400);
```

```
INSERT INTO BATSMAN VALUES (6, 32, 50, 17800, 14325, 5, 1967, 'Right-hand batsman', 334);
```

```
INSERT INTO BATSMAN VALUES (7, 28, 45, 15600, 12750, 6, 1734, 'Left-hand batsman', 294);
```

```
INSERT INTO BATSMAN VALUES (8, 25, 40, 14200, 11876, 7, 1567, 'Left-hand batsman', 261);
```

```
INSERT INTO BATSMAN VALUES (9, 22, 35, 13500, 10965, 8, 1425, 'Right-hand batsman', 270);
```

```
INSERT INTO BATSMAN VALUES (10, 15, 30, 12000, 9523, 9, 1256, 'Left-hand batsman', 189);
```

```
INSERT INTO BATSMAN VALUES (12, 20, 28, 12800, 10456, 10, 1345, 'Right-hand batsman', 223);
```

```
SELECT * FROM BATSMAN;
```

P_ID	NO_OF_CENTURIES	NO_OF_FIFTIES	BALLS_FACED	RUNS	B_RANK	BOUNDARIES	STYLE	HIGH_SCORE
1	51	68	21345	18426	1	2578	Right-hand batsman	248
2	41	62	19725	16745	2	2265	Right-hand batsman	257
3	35	59	18845	15832	3	2101	Right-hand batsman	224
5	49	60	19500	15921	4	2198	Left-hand batsman	400
6	32	50	17800	14325	5	1967	Right-hand batsman	334
7	28	45	15600	12750	6	1734	Left-hand batsman	294
8	25	40	14200	11876	7	1567	Left-hand batsman	261
9	22	35	13500	10965	8	1425	Right-hand batsman	270
10	15	30	12000	9523	9	1256	Left-hand batsman	189
12	20	28	12800	10456	10	1345	Right-hand batsman	223



```

CREATE TABLE BOWLER(
P_ID REAL,
RUNS_CONCEDED REAL,
BALLS_BOWLED REAL,
NO_OF_WICKETS REAL,
NO_OF_5W REAL,
BBM VARCHAR(30),
STYLE VARCHAR(30),
B_RANK REAL,
PRIMARY KEY(P_ID),
FOREIGN KEY(P_ID) REFERENCES PLAYERS(P_ID)
);

```

```

INSERT INTO BOWLER VALUES (6, 13456, 15780, 705, 27, '6/35', 'Leg-spin', 1);
INSERT INTO BOWLER VALUES (8, 11678, 14290, 650, 23, '5/25', 'Left-arm orthodox', 2);
INSERT INTO BOWLER VALUES (10, 9800, 12000, 525, 18, '7/42', 'Leg-spin', 3);
INSERT INTO BOWLER VALUES (12, 10500, 12890, 590, 21, '6/28', 'Off-spin', 4);
INSERT INTO BOWLER VALUES (14, 8750, 11000, 480, 15, '5/30', 'Left-arm orthodox', 5);
INSERT INTO BOWLER VALUES (16, 7562, 9500, 410, 12, '6/40', 'Right-arm fast-medium', 6);
INSERT INTO BOWLER VALUES (18, 6325, 8200, 370, 10, '5/28', 'Right-arm fast-medium', 7);
INSERT INTO BOWLER VALUES (20, 5943, 7600, 335, 8, '7/49', 'Right-arm fast', 8);
INSERT INTO BOWLER VALUES (22, 5245, 6900, 300, 6, '6/36', 'Right-arm fast-medium', 9);
INSERT INTO BOWLER VALUES (24, 4701, 6200, 280, 5, '5/21', 'Left-arm fast-medium', 10);
INSERT INTO BOWLER VALUES (26, 4023, 5500, 240, 3, '5/32', 'Off-spin', 11);

```

```

SELECT * FROM BOWLER;

```

P_ID	RUNS_CONCEDED	BALLS_BOWLED	NO_OF_WICKETS	NO_OF_5W	BBM	STYLE	B_RANK
6	13456	15780	705	27	6/35	Leg-spin	1
8	11678	14290	650	23	5/25	Left-arm orthodox	2
10	9800	12000	525	18	7/42	Leg-spin	3
12	10500	12890	590	21	6/28	Off-spin	4
14	8750	11000	480	15	5/30	Left-arm orthodox	5
16	7562	9500	410	12	6/40	Right-arm fast-medium	6
18	6325	8200	370	10	5/28	Right-arm fast-medium	7
20	5943	7600	335	8	7/49	Right-arm fast	8
22	5245	6900	300	6	6/36	Right-arm fast-medium	9
24	4701	6200	280	5	5/21	Left-arm fast-medium	10
26	4023	5500	240	3	5/32	Off-spin	11

```

CREATE TABLE WICKET_KEEPER(
P_ID REAL,
CATCHES REAL,
STUMPINGS REAL,
PRIMARY KEY(P_ID),
FOREIGN KEY(P_ID) REFERENCES PLAYERS(P_ID)
);

```

```

INSERT INTO WICKET_KEEPER VALUES (4, 300, 75);
INSERT INTO WICKET_KEEPER VALUES (9, 275, 60);
INSERT INTO WICKET_KEEPER VALUES (19, 310, 80);
INSERT INTO WICKET_KEEPER VALUES (21, 280, 70);
INSERT INTO WICKET_KEEPER VALUES (29, 250, 55);

```

```

SELECT * FROM WICKET_KEEPER;

```

P_ID	CATCHES	STUMPINGS
4	300	75
9	275	60
19	310	80
21	280	70
29	250	55

```

CREATE TABLE COACH(
C_ID REAL,
T_ID REAL,
NAME VARCHAR(30),
EXPERIENCE VARCHAR(30),
COUNTRY VARCHAR(30),
PRIMARY KEY(C_ID),
FOREIGN KEY(T_ID) REFERENCES TEAM(T_ID)
);

```

```

INSERT INTO COACH VALUES (1, 1, 'John Doe', '20 years', 'Country A');
INSERT INTO COACH VALUES (2, 2, 'Jane Smith', '18 years', 'Country B');
INSERT INTO COACH VALUES (3, 3, 'Michael Johnson', '22 years', 'Country C');
INSERT INTO COACH VALUES (4, 4, 'Emily Davis', '15 years', 'Country D');
INSERT INTO COACH VALUES (5, 5, 'David Wilson', '25 years', 'Country E');
INSERT INTO COACH VALUES (6, 6, 'Sarah Brown', '19 years', 'Country F');
INSERT INTO COACH VALUES (7, 7, 'Daniel Martinez', '21 years', 'Country G');
INSERT INTO COACH VALUES (8, 8, 'Jessica Thompson', '17 years', 'Country H');
INSERT INTO COACH VALUES (9, 9, 'Christopher Garcia', '23 years', 'Country I');

```

INSERT INTO COACH VALUES (10, 10, 'Amanda Rodriguez', '16 years', 'Country J');  
INSERT INTO COACH VALUES (11, 11, 'James Lee', '24 years', 'Country K');  
INSERT INTO COACH VALUES (12, 12, 'Laura Hernandez', '18 years', 'Country L');  
INSERT INTO COACH VALUES (13, 13, 'Kevin Nguyen', '20 years', 'Country M');  
INSERT INTO COACH VALUES (14, 14, 'Rachel Kim', '19 years', 'Country N');  
INSERT INTO COACH VALUES (15, 15, 'Andrew Smith', '22 years', 'Country O');

SELECT \* FROM COACH;

C_ID	T_ID	NAME	EXPERIENCE	COUNTRY
1	1	John Doe	20 years	Country A
2	2	Jane Smith	18 years	Country B
3	3	Michael Johnson	22 years	Country C
4	4	Emily Davis	15 years	Country D
5	5	David Wilson	25 years	Country E
6	6	Sarah Brown	19 years	Country F
7	7	Daniel Martinez	21 years	Country G
8	8	Jessica Thompson	17 years	Country H
9	9	Christopher Garcia	23 years	Country I
10	10	Amanda Rodriguez	16 years	Country J

CREATE TABLE SERIES(  
SERIES\_ID REAL,  
NAME VARCHAR(100),  
COUNTRY VARCHAR(30),  
WINNER VARCHAR(30),  
START\_DATE DATE,  
END\_DATE DATE,  
PRIMARY KEY(SERIES\_ID)  
);

INSERT INTO SERIES VALUES(1, 'Ashes Series', 'Australia', 'Australia', '2024-01-01', '2024-01-10');

INSERT INTO SERIES VALUES(2, 'Asia Cup', 'India', 'India', '2024-02-01', '2024-02-15');

INSERT INTO SERIES VALUES(3, 'ICC World Test Championship', 'England', 'England', '2024-03-01', '2024-03-10');

INSERT INTO SERIES VALUES(4, 'T20 World Cup', 'South Africa', 'South Africa', '2024-04-01', '2024-04-15');

```
INSERT INTO SERIES VALUES(5, 'ODI World Cup', 'Pakistan', 'Pakistan', '2024-05-01', '2024-05-10');
```

```
INSERT INTO SERIES VALUES(6, 'Tri-Nation Series', 'New Zealand', 'New Zealand', '2024-06-01', '2024-06-15');
```

```
INSERT INTO SERIES VALUES(7, 'BOARD GAVASKER', 'India', 'australia', '2024-07-01', '2024-07-10');
```

```
INSERT INTO SERIES VALUES(8, 'Big Bash League', 'Australia', 'Sydney Sixers', '2024-08-01', '2024-08-15');
```

```
INSERT INTO SERIES VALUES(9, 'Bangladesh Premier League', 'Bangladesh', 'Dhaka Dynamites', '2024-09-01', '2024-09-10');
```

```
INSERT INTO SERIES VALUES(10, 'Caribbean Premier League', 'West Indies', 'Trinbago Knight Riders', '2024-10-01', '2024-10-15');
```

```
INSERT INTO SERIES VALUES(11, 'Super Smash', 'New Zealand', 'Wellington Firebirds', '2024-11-01', '2024-11-10');
```

```
INSERT INTO SERIES VALUES(12, 'Vitality Blast', 'England', 'Worcestershire Rapids', '2024-12-01', '2024-12-15');
```

```
INSERT INTO SERIES VALUES(13, 'Pakistan Super League', 'Pakistan', 'Karachi Kings', '2025-01-01', '2025-01-10');
```

```
INSERT INTO SERIES VALUES(14, 'Afghanistan Premier League', 'Afghanistan', 'Kabul Eagles', '2025-02-01', '2025-02-15');
```

```
INSERT INTO SERIES VALUES(15, 'Global T20 Canada', 'Canada', 'Winnipeg Hawks', '2025-03-01', '2025-03-10');
```

```
SELECT * FROM SERIES;
```

SERIES_ID	NAME	COUNTRY	WINNER	START_DATE	END_DATE
1	Ashes Series	Australia	Australia	2024-01-01	2024-01-10
2	Asia Cup	India	India	2024-02-01	2024-02-15
3	ICC World Test Championship	England	England	2024-03-01	2024-03-10
4	T20 World Cup	South Africa	South Africa	2024-04-01	2024-04-15
5	ODI World Cup	Pakistan	Pakis	2024-05-01	2024-05-10
6	Tri-Nation Series	New Zealand	New Zealand	2024-06-01	2024-06-15
7	BOARD GAVASKER	India	australia	2024-07-01	2024-07-10
8	Big Bash League	Australia	Sydney Sixers	2024-08-01	2024-08-15
9	Bangladesh Premier League	Bangladesh	Dhaka Dynamites	2024-09-01	2024-09-10
10	Caribbean Premier League	West Indies	Trinbago Knight Riders	2024-10-01	2024-10-15

```
CREATE TABLE STADIUM(  
S_ID REAL,  
PLACE VARCHAR(100),  
CAPACITY REAL,  
NAME VARCHAR(30),  
COUNTRY VARCHAR(30),  
PRIMARY KEY(S_ID)  
);
```

```
INSERT INTO STADIUM VALUES(1, 'Melbourne', 100000, 'Melbourne Cricket Ground',  
'Australia');
```

```
INSERT INTO STADIUM VALUES(2, 'Sydney', 80000, 'Sydney Cricket Ground', 'Australia');  
INSERT INTO STADIUM VALUES(3, 'London', 90000, 'Lord"s Cricket Ground', 'England');  
INSERT INTO STADIUM VALUES(4, 'Manchester', 75000, 'Old Trafford Cricket Ground',  
'England');
```

```
INSERT INTO STADIUM VALUES(5, 'Mumbai', 75000, 'Wankhede Stadium', 'India');  
INSERT INTO STADIUM VALUES(6, 'Chennai', 60000, 'M. A. Chidambaram Stadium', 'India');  
INSERT INTO STADIUM VALUES(7, 'Johannesburg', 60000, 'Johannesburg Stadium', 'South  
Africa');
```

```
INSERT INTO STADIUM VALUES(8, 'Cape Town', 55000, 'Newlands Cricket Ground', 'South  
Africa');
```

```
INSERT INTO STADIUM VALUES(9, 'Karachi', 70000, 'National Stadium', 'Pakistan');  
INSERT INTO STADIUM VALUES(10, 'Lahore', 60000, 'Gaddafi Stadium', 'Pakistan');  
INSERT INTO STADIUM VALUES(11, 'Auckland', 50000, 'Eden Park', 'New Zealand');  
INSERT INTO STADIUM VALUES(12, 'Wellington', 40000, 'Westpac Stadium', 'New Zealand');  
INSERT INTO STADIUM VALUES(13, 'Port of Spain', 20000, 'Queen"s Park Oval', 'West  
Indies');
```

```
INSERT INTO STADIUM VALUES(14, 'Dhaka', 35000, 'Bangla Cricket Stadium', 'Bangladesh');  
INSERT INTO STADIUM VALUES(15, 'Dubai', 25000, 'Dubai Cricket Stadium', 'United Arab  
Emirates');
```

```
SELECT * FROM STADIUM;
```

S_ID	PLACE	CAPACITY	NAME	COUNTRY
1	Melbourne	100000	Melbourne Cricket Ground	Australia
2	Sydney	80000	Sydney Cricket Ground	Australia
3	London	90000	Lord's Cricket Ground	England
4	Manchester	75000	Old Trafford Cricket Ground	England
5	Mumbai	75000	Wankhede Stadium	India
6	Chennai	60000	M. A. Chidambaram Stadium	India
7	Johannesburg	60000	Johannesburg Stadium	South Africa
8	Cape Town	55000	Newlands Cricket Ground	South Africa
9	Karachi	70000	National Stadium	Pakistan
10	Lahore	60000	Gaddafi Stadium	Pakistan

```

CREATE TABLE MATCHES(
MATCH_ID REAL,
TOSS VARCHAR(30),
TOURNAMENT_TYPE VARCHAR(30),
FORMAT VARCHAR(30),
BOWLING_TEAM VARCHAR(30),
BATING_TEAM VARCHAR(30),
DATE DATE,
STADIUM_ID REAL,
RESULT VARCHAR(200),
SERIES_ID REAL,
PRIMARY KEY(MATCH_ID),
FOREIGN KEY(SERIES_ID) REFERENCES SERIES(SERIES_ID),
FOREIGN KEY(STADIUM_ID) REFERENCES STADIUM(S_ID)
);

```

```

INSERT INTO MATCHES VALUES (1, 'IND', 'ICC World Cup', 'Test', 'PAK', 'ENG', '2024-03-01',
1, 'IND won by 150 runs', 1);

```

```

INSERT INTO MATCHES VALUES (2, 'AUS', 'T20 World Cup', 'T20', 'IND', 'SA', '2024-03-05', 2,
'PAK won by 5 wickets', 1);

```

```

INSERT INTO MATCHES VALUES (3, 'ENG', 'Test Series', 'ODI', 'NZ', 'AUS', '2024-03-10', 3,
'Match tied', 2);

```

```

INSERT INTO MATCHES VALUES (4, 'WI', 'Ashes Series', 'Test', 'SL', 'WI', '2024-03-15', 4,
'Match drawn', 2);

```

INSERT INTO MATCHES VALUES (5, 'PAK', 'Asia Cup', 'T20', 'SA', 'BAN', '2024-03-20', 5, 'IND won by 7 wickets', 3);

INSERT INTO MATCHES VALUES (6, 'NZ', 'Tri-Nation Series', 'ODI', 'AUS', 'NZ', '2024-03-25', 6, 'NZ won by 50 runs', 3);

INSERT INTO MATCHES VALUES (7, 'SL', 'ICC World Test Championship', 'Test', 'PAK', 'ENG', '2024-03-01', 1, 'ENG won by 150 runs', 1);

INSERT INTO MATCHES VALUES (8, 'SA', 'ICC Champions Trophy', 'T20', 'ENG', 'SA', '2024-03-05', 2, 'PAK won by 5 wickets', 1);

INSERT INTO MATCHES VALUES (9, 'BAN', 'ODI World Cup', 'ODI', 'SL', 'AUS', '2024-03-10', 3, 'Match tied', 2);

INSERT INTO MATCHES VALUES (10, 'IRE', 'ICC World Test Championship', 'Test', 'WI', 'IRE', '2024-03-15', 4, 'Match drawn', 2);

INSERT INTO MATCHES VALUES (11, 'AFG', 'T20 World Cup', 'T20', 'BAN', 'AFG', '2024-03-20', 5, 'IND won by 7 wickets', 3);

INSERT INTO MATCHES VALUES (12, 'SCO', 'Asia Cup', 'ODI', 'ENG', 'SCO', '2024-03-25', 6, 'SCO won by 50 runs', 3);

INSERT INTO MATCHES VALUES (13, 'ZIM', 'Ashes Series', 'Test', 'PAK', 'ZIM', '2024-03-01', 1, 'ZIM won by 150 runs', 1);

INSERT INTO MATCHES VALUES (14, 'IRE', 'ICC Champions Trophy', 'T20', 'NZ', 'IRE', '2024-03-05', 2, 'IRE won by 5 wickets', 1);

INSERT INTO MATCHES VALUES (15, 'AFG', 'ICC World Cup', 'ODI', 'AUS', 'AFG', '2024-03-10', 3, 'Match tied', 2);

SELECT \* FROM MATCHES;

MATCH_ID	TOSS	TOURNAMENT_TYPE	FORMAT	BOWLING_TEAM	BATING_TEAM	DATE	STADIUM_ID	RESULT	SERIES_ID
1	IND	ICC World Cup	Test	PAK	ENG	2024-03-01	1	IND won by 150 runs	1
2	AUS	T20 World Cup	T20	IND	SA	2024-03-05	2	PAK won by 5 wickets	1
3	ENG	Test Series	ODI	NZ	AUS	2024-03-10	3	Match tied	2
4	WI	Ashes Series	Test	SL	WI	2024-03-15	4	Match drawn	2
5	PAK	Asia Cup	T20	SA	BAN	2024-03-20	5	IND won by 7 wickets	3
6	NZ	Tri-Nation Series	ODI	AUS	NZ	2024-03-25	6	NZ won by 50 runs	3
7	SL	ICC World Test Championship	Test	PAK	ENG	2024-03-01	1	ENG won by 150 runs	1
8	SA	ICC Champions Trophy	T20	ENG	SA	2024-03-05	2	PAK won by 5 wickets	1
9	BAN	ODI World Cup	ODI	SL	AUS	2024-03-10	3	Match tied	2
10	IRE	ICC World Test Championship	Test	WI	IRE	2024-03-15	4	Match drawn	2

```

CREATE TABLE UMPIRE(
  U_ID REAL,
  COUNTRY VARCHAR(30),
  NO_OF_MATCHES REAL,
  NAME VARCHAR(30),
  PRIMARY KEY(U_ID)
);

```

```

INSERT INTO UMPIRE VALUES (1, 'India', 100, 'John Smith');
INSERT INTO UMPIRE VALUES (2, 'Australia', 120, 'Jane Doe');
INSERT INTO UMPIRE VALUES (3, 'England', 90, 'David Johnson');
INSERT INTO UMPIRE VALUES (4, 'Pakistan', 110, 'Michael Brown');
INSERT INTO UMPIRE VALUES (5, 'South Africa', 95, 'Emily Wilson');
INSERT INTO UMPIRE VALUES (6, 'New Zealand', 105, 'Christopher Lee');
INSERT INTO UMPIRE VALUES (7, 'West Indies', 80, 'Sarah Taylor');
INSERT INTO UMPIRE VALUES (8, 'Sri Lanka', 115, 'Daniel Martinez');
INSERT INTO UMPIRE VALUES (9, 'Bangladesh', 85, 'Jessica Garcia');
INSERT INTO UMPIRE VALUES (10, 'Zimbabwe', 125, 'Andrew Robinson');
INSERT INTO UMPIRE VALUES (11, 'Afghanistan', 70, 'Elizabeth Clark');
INSERT INTO UMPIRE VALUES (12, 'Ireland', 130, 'Matthew Hall');
INSERT INTO UMPIRE VALUES (13, 'Scotland', 75, 'Olivia Adams');
INSERT INTO UMPIRE VALUES (14, 'Netherlands', 135, 'Joshua Turner');
INSERT INTO UMPIRE VALUES (15, 'United Arab Emirates', 110, 'Amanda Mitchell');

```

```

SELECT * FROM UMPIRE;

```

U_ID	COUNTRY	NO_OF_MATCHES	NAME
1	India	100	John Smith
2	Australia	120	Jane Doe
3	England	90	David Johnson
4	Pakistan	110	Michael Brown
5	South Africa	95	Emily Wilson
6	New Zealand	105	Christopher Lee
7	West Indies	80	Sarah Taylor
8	Sri Lanka	115	Daniel Martinez
9	Bangladesh	85	Jessica Garcia
10	Zimbabwe	125	Andrew Robinson



```

CREATE TABLE SCORECARD(
T_NAME VARCHAR(30),
DATE DATE,
INNINGS_NO REAL,
BOUNDARIES REAL,
RUNS REAL,
NO_OF_WICKETS REAL,
OVERS_PLAYED REAL,
MATCH_ID REAL,
PRIMARY KEY(MATCH_ID,DATE,T_NAME,INNINGS_NO),
FOREIGN KEY(MATCH_ID) REFERENCES MATCHES(MATCH_ID)
);

```

```

INSERT INTO SCORECARD VALUES('IND', '2024-01-01', 1, 20, 300, 5, 50, 1);
INSERT INTO SCORECARD VALUES('PAK', '2024-01-01', 2, 12, 250, 10, 45, 1);
INSERT INTO SCORECARD VALUES('AUS', '2024-02-01', 1, 18, 320, 6, 48, 2);
INSERT INTO SCORECARD VALUES('ENG', '2024-02-01', 2, 15, 280, 8, 47, 2);
INSERT INTO SCORECARD VALUES('SA', '2024-03-01', 1, 22, 280, 7, 49, 3);
INSERT INTO SCORECARD VALUES('NZ', '2024-03-01', 2, 16, 240, 9, 47, 3);
INSERT INTO SCORECARD VALUES('WI', '2024-04-01', 1, 15, 260, 8, 45, 4);
INSERT INTO SCORECARD VALUES('SL', '2024-04-01', 2, 10, 220, 10, 45, 4);
INSERT INTO SCORECARD VALUES('PAK', '2024-05-01', 1, 20, 310, 6, 49, 5);
INSERT INTO SCORECARD VALUES('IND', '2024-05-01', 2, 13, 260, 9, 47, 5);
INSERT INTO SCORECARD VALUES('NZ', '2024-06-01', 1, 17, 290, 7, 48, 6);
INSERT INTO SCORECARD VALUES('AUS', '2024-06-01', 2, 14, 270, 8, 47, 6);
INSERT INTO SCORECARD VALUES('SA', '2024-07-01', 1, 20, 330, 5, 50, 7);
INSERT INTO SCORECARD VALUES('ENG', '2024-07-01', 2, 11, 240, 10, 45, 7);
INSERT INTO SCORECARD VALUES('SL', '2024-08-01', 1, 19, 300, 6, 49, 8);

```

```

SELECT * FROM SCORECARD;

```

T_NAME	DATE	INNINGS_NO	BOUNDARIES	RUNS	NO_OF_WICKETS	OVERS_PLAYED	MATCH_ID
IND	2024-01-01	1	20	300	5	50	1
PAK	2024-01-01	2	12	250	10	45	1
AUS	2024-02-01	1	18	320	6	48	2
ENG	2024-02-01	2	15	280	8	47	2
NZ	2024-03-01	2	16	240	9	47	3
SA	2024-03-01	1	22	280	7	49	3
SL	2024-04-01	2	10	220	10	45	4
WI	2024-04-01	1	15	260	8	45	4
IND	2024-05-01	2	13	260	9	47	5
PAK	2024-05-01	1	20	310	6	49	5

```

CREATE TABLE PLAYS(
MATCH_ID REAL,
T_ID REAL,
FOREIGN KEY(MATCH_ID) REFERENCES MATCHES(MATCH_ID),
FOREIGN KEY(T_ID) REFERENCES TEAM(T_ID)
);

```

```

INSERT INTO PLAYS VALUES (1, 1);
INSERT INTO PLAYS VALUES(1, 2);
INSERT INTO PLAYS VALUES(2, 3);
INSERT INTO PLAYS VALUES(2, 4);
INSERT INTO PLAYS VALUES(3, 5);
INSERT INTO PLAYS VALUES(3, 6);
INSERT INTO PLAYS VALUES(4, 7);
INSERT INTO PLAYS VALUES(4, 8);
INSERT INTO PLAYS VALUES(5, 9);
INSERT INTO PLAYS VALUES(5, 10);
INSERT INTO PLAYS VALUES(6, 11);
INSERT INTO PLAYS VALUES(6, 12);
INSERT INTO PLAYS VALUES(7, 13);
INSERT INTO PLAYS VALUES(7, 14);
INSERT INTO PLAYS VALUES(8, 15);

```

```

SELECT * FROM PLAYS;

```

MATCH_ID	T_ID
1	1
1	2
2	3
2	4
3	5
3	6
4	7
4	8
5	9
5	10

```

CREATE TABLE UMPIRED_BY(
U_ID REAL,
MATCH_ID REAL,
FOREIGN KEY(MATCH_ID) REFERENCES MATCHES(MATCH_ID),
FOREIGN KEY(U_ID) REFERENCES UMPIRE(U_ID)
);

```

```

INSERT INTO UMPIRED_BY VALUES(1, 1);
INSERT INTO UMPIRED_BY VALUES(2, 1);
INSERT INTO UMPIRED_BY VALUES(3, 2);
INSERT INTO UMPIRED_BY VALUES(4, 2);
INSERT INTO UMPIRED_BY VALUES(5, 3);
INSERT INTO UMPIRED_BY VALUES(6, 3);
INSERT INTO UMPIRED_BY VALUES(7, 4);
INSERT INTO UMPIRED_BY VALUES(8, 4);
INSERT INTO UMPIRED_BY VALUES(9, 5);
INSERT INTO UMPIRED_BY VALUES(10, 5);
INSERT INTO UMPIRED_BY VALUES(11, 6);
INSERT INTO UMPIRED_BY VALUES(12, 6);
INSERT INTO UMPIRED_BY VALUES(13, 7);
INSERT INTO UMPIRED_BY VALUES(14, 7);
INSERT INTO UMPIRED_BY VALUES(15, 8);

```

```

SELECT * FROM UMPIRED_BY;

```

U_ID	MATCH_ID
1	1
2	1
3	2
4	2
5	3
6	3
7	4
8	4
9	5
10	5

```

CREATE TABLE RECORDS(
RECORD_ID REAL,
PLAYER_ID REAL,
RECORDS VARCHAR(100),
PRIMARY KEY(RECORD_ID),
FOREIGN KEY(PLAYER_ID) REFERENCES PLAYERS(P_ID)
);

```

```

INSERT INTO RECORDS VALUES(1, 1, 'Scored the most runs in a single season');
INSERT INTO RECORDS VALUES(2, 2, 'Achieved the highest individual score in a match');
INSERT INTO RECORDS VALUES(3, 3, 'Took the most wickets in a season');
INSERT INTO RECORDS VALUES(4, 4, 'Recorded the best bowling figures in an innings');
INSERT INTO RECORDS VALUES(5, 5, 'Has scored the most centuries in their career');
INSERT INTO RECORDS VALUES(6, 6, 'Hit the most sixes in a single match');
INSERT INTO RECORDS VALUES(7, 7, 'Took the most catches by a fielder in a season');
INSERT INTO RECORDS VALUES(8, 8, 'Achieved the fastest century in terms of balls faced');
INSERT INTO RECORDS VALUES(9, 9, 'Played the most matches in their career');
INSERT INTO RECORDS VALUES(10, 10, 'Has the best batting average in a season');
INSERT INTO RECORDS VALUES(11, 11, 'Has the best bowling average in a season');
INSERT INTO RECORDS VALUES(12, 12, 'Part of the highest partnership for any wicket');
INSERT INTO RECORDS VALUES(13, 13, 'Made the most stumpings as a wicketkeeper in a season');
INSERT INTO RECORDS VALUES(14, 14, 'Effectuated the most run-outs as a fielder in their career');
INSERT INTO RECORDS VALUES(15, 15, 'Captained the most matches in their career');

```

**SELECT \* FROM RECORDS;**

RECORD_ID	PLAYER_ID	RECORDS
1	1	Scored the most runs in a single season
2	2	Achieved the highest individual score in a match
3	3	Took the most wickets in a season
4	4	Recorded the best bowling figures in an innings
5	5	Has scored the most centuries in their career
6	6	Hit the most sixes in a single match
7	7	Took the most catches by a fielder in a season
8	8	Achieved the fastest century in terms of balls f...
9	9	Played the most matches in their career
10	10	Has the best batting average in a season

```

CREATE TABLE ACHIEVEMENTS(
ACHIEVEMENT_ID REAL,
PLAYER_ID REAL,
ACHIEVEMENTS VARCHAR(100),
PRIMARY KEY(ACHIEVEMENT_ID),
FOREIGN KEY(PLAYER_ID) REFERENCES PLAYERS(P_ID)
);

```

```

INSERT INTO ACHIEVEMENTS VALUES(1, 1, 'Rajiv Gandhi Khel Ratna');
INSERT INTO ACHIEVEMENTS VALUES(2, 2, 'Padma Bhushan');
INSERT INTO ACHIEVEMENTS VALUES(3, 3, 'Golden Bat Award');
INSERT INTO ACHIEVEMENTS VALUES(4, 4, 'Golden Ball Award');
INSERT INTO ACHIEVEMENTS VALUES(5, 5, 'Emerging Player Award');
INSERT INTO ACHIEVEMENTS VALUES(6, 6, 'Top Scorer Award');
INSERT INTO ACHIEVEMENTS VALUES(7, 7, 'Best Fielder Award');
INSERT INTO ACHIEVEMENTS VALUES(8, 8, 'Century Maker Award');
INSERT INTO ACHIEVEMENTS VALUES(9, 9, 'Dronacharya Award');
INSERT INTO ACHIEVEMENTS VALUES(10, 10, 'Match Hero Award');
INSERT INTO ACHIEVEMENTS VALUES(11, 11, 'Bharat Ratna');
INSERT INTO ACHIEVEMENTS VALUES(12, 12, 'Khel Ratna Award');
INSERT INTO ACHIEVEMENTS VALUES(13, 13, 'Top Keeper Award');
INSERT INTO ACHIEVEMENTS VALUES(14, 14, 'Arjuna Award');
INSERT INTO ACHIEVEMENTS VALUES(15, 15, 'Leading Run-scorer Award');

```

**SELECT \* FROM ACHIEVEMENTS;**

ACHIEVEMENT_ID	PLAYER_ID	ACHIEVEMENTS
1	1	Rajiv Gandhi Khel Ratna
2	2	Padma Bhushan
3	3	Golden Bat Award
4	4	Golden Ball Award
5	5	Emerging Player Award
6	6	Top Scorer Award
7	7	Best Fielder Award
8	8	Century Maker Award
9	9	Dronacharya Award
10	10	Match Hero Award