

A  
Practical File  
On  
Database Management System



Bachelor of Engineering (2016-2020)

VRISHANK GUPTA (2016UCO1677)

SIMARPREET SINGH SIKKA(2016UCO1697)

SHIVAM GUPTA(2016UCO1693)

COE 3

**DIVISION OF COMPUTER SCIENCE ENGINEERING  
NETAJI SUBHAS INSTITUTE OF TECHNOLOGY,  
DWARKA**

## **AIM & DESCRIPTION OF ENTITIES:**

In this project of Cricket Database, the main aim was to get experience of how we can relate Database Entities with Real Life Entities. Here in our Project we have ICC Entity which control all Entities and acts as Controlling Unit of the Cricket Database.

# ICC entity has Teams under it which has attributes like Team\_id, Captain, Rank, Country.

# Team consists of other major entities like Players, Managers, Coaches, etc.

# Manager has attributes like Manager\_id, teams, and Manager Name and Coach Entity has attributes like Name, Join date, Coach\_id, and country.

# Team also consists of another important entity, Players with attributes like Name, Fitness Index, Age etc.

# Players are further divided into Batsman and Bowler with respective descriptive attributes like no of runs scored, centuries etc for Batsman and economy, no of wickets taken for Bowler.

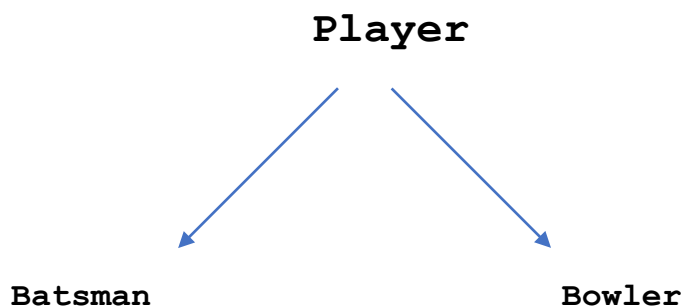
# ICC hosts many Series which has Matches which decide the Rank of a team in World.

## Relational Model (Normalisation Included)

### Player:-

PLAYER_ID	NAME	FITNESS	AGE	DEBUT	TEAM	HUNDREDS	FIFTIES	RUNS	NO_OF_MATCHES	RANK
RANK	WICKETS	NO_OF_MATCHES	5_WICKETS	ECONOMY						

In the above table "PLAYER" we see there are high possibilities of data being redundant. So, we break the "player" table into two smaller tables i.e. "Batsman" and "Bowler":-



The resultant "Player" table has following structure:-

Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default	Extra
PLAYER_ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI		auto_incr... <input type="checkbox"/>
NAME	VARCHAR	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None <input type="checkbox"/>
FITNESS	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None <input type="checkbox"/>
AGE	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None <input type="checkbox"/>
DEBUT	DATE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None <input type="checkbox"/>
TEAM	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...		None <input type="checkbox"/>

The batsman and bowler table contains the following attributes:-

### Bowler:-

ID	RANK	WICKETS	NO_OF_MATCHES	5_WICKETS	ECONOMY
----	------	---------	---------------	-----------	---------

And has following Structure:-

Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default	Extra
ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...		None
RANK	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
WICKETS	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
NO_OF_MAT...	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
5_WICKETS	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
ECONOMY	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None

### Batsman:-

ID	HUNDREDS	FIFTIES	RUNS	NO_OF_MATCHES	RANK
----	----------	---------	------	---------------	------

And has Following Structure:-

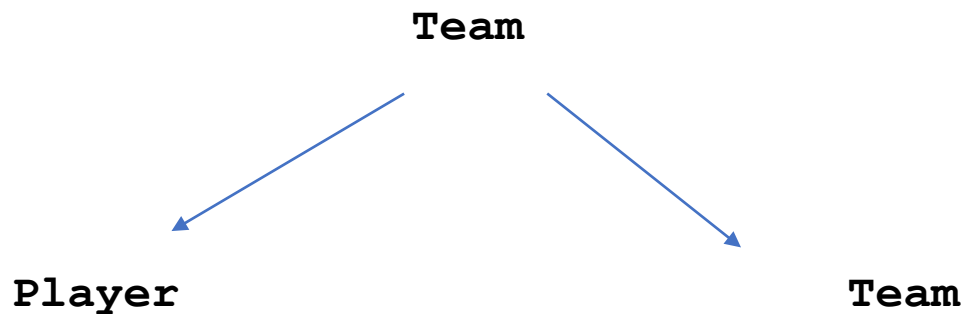
Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default	Extra
ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI		auto_incr...
HUNDREDS	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
FIFTIES	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
RUNS	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
NO_OF_MAT...	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None
RANK	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0	None

**Team: -**

The table "Teams" has following Initial structure where information about each player has been stored in team's list:-

TEAM_ID	COUNTRY	CAPTAIN	RANK	NO_OF_MATCHES	MANAGER_ID	PLAYER_ID	NAME	FITNESS	AGE	DEBUT	TEAM
---------	---------	---------	------	---------------	------------	-----------	------	---------	-----	-------	------

As we see that for each Player in the same team the information would be repeated every time, so we decomposed them into two separate tables where team id is taken as foreign key in "player" table:-



So, the resulting "Team" table has following structure:-

TEAM_ID		COUNTRY	CAPTAIN	RANK	NO_OF_MATCHES	MANAGER_ID		
TEAM_ID	INT	↕	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI
COUNTRY	VARCHAR	↕	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CAPTAIN	INT	↕	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...
RANK	INT	↕	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
NO_OF_MAT...	INT	↕	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0
MANAGER_ID	INT	↕	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...

And the resulting table "Players" has the already mentioned structure which is follows:-

Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default	Extra
PLAYER_ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI		auto_incr... ↕
NAME	VARCHAR	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None ↕
FITNESS	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None ↕
AGE	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None ↕
DEBUT	DATE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None ↕
TEAM	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...		None ↕

## Coach :-

The table "Coach" has following Structure:-

COACH_ID	TEAM	NAME	AGE
----------	------	------	-----

Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default
COACH_ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI	
TEAM	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	M... NULL	
NAME	VARCHAR	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
AGE	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Here attribute "team" is a foreign key which references "Teams" table on TEAM\_ID. Coach\_id is taken as primary key here.

## Manager :-

The table "Manager" has following structure :-

MANAGER_ID	TEAM	NAME
------------	------	------

MANAGER_ID	INT	↕	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI
TEAM	INT	↕	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...
NAME	VARCHAR	↕	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Here attribute "team" is a foreign key which references "Teams" table on TEAM\_ID. Manager\_id is taken as primary key here.

## Matches :-

The table matches has Following structure:-

MATCH_ID	TEAM_1	TEAM_2	SERIES_ID	VENUE	WINNER_TEAM	DATE	MAN_OF_THE_MATCH
81	4	2	42	KOTLA	2	2017-11-20	2
82	5	1	42	KOTLA	1	2017-04-11	17
83	2	8	42	WANKHADE	8	2017-04-12	15
84	3	6	42	WANKHEDE	6	2017-11-03	6
85	7	4	42	KOTLA	4	2017-12-08	11
88	8	1	43	DHRMSHALA	1	2016-04-09	1
89	4	8	43	CHINNASWAMI	8	2017-04-18	8

Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default
MATCH_ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI	
TEAM_1	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...	
TEAM_2	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...	
SERIES_ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...	
VENUE	VARCHAR	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
WINNER_TE...	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...	
DATE	DATE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MAN_OF_T...	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...	

Here, Match\_ID is the primary key.

TEAM\_1,TEAM\_2 references the table "TEAMS",

SERIES\_ID references the table "Series",

MAN\_OF\_THE\_SERIES references the table "Player".



## Series:-

The table Series has following structure:-

SERIES_ID	DURATION	FORMAT	WINNING_TEAM_ID	MAN_OF_THE_SERIES
42	5	TEST	4	11
43	3	ODI	1	1
44	5	T20	6	14

Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default
SERIES_ID	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI	
DURATION	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
FORMAT	VARCHAR	45	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		ONE DAY...
WINNING_T...	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...	0
MAN_OF_T...	INT	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M...	0

Here attribute "WINNING\_TEAM" is a foreign key which references "Teams" table on TEAM\_ID. Series\_id is taken as primary key here.

## **Conclusion:-**

The final structure of complete database is as follows :-

TABLES	
	BATSMAN
	BOWLER
	COACH
	MANAGER
	MATCHES
	PLAYER
	SERIES
	TEAMS

**SOME SAMPLE QUERIES AND THEIR O/P:-**

1.

Searching for a player in database:-

```
SELECT PLAYER_ID,PLAYER.NAME,FITNESS,AGE,DEBUT,TEAMS.TEAM_ID,TEAMS.COUNTRY,HUNDREDS,FIFTIES,RUNS,
BATSMAN.NO_OF_MATCHES,BATSMAN.RANK,WICKETS,BOWLER.RANK,BOWLER.NO_OF_MATCHES,5_WICKETS,ECONOMY
FROM PLAYER
INNER JOIN BATSMAN ON PLAYER.PLAYER_ID = BATSMAN.ID
INNER JOIN BOWLER ON PLAYER.PLAYER_ID = BOWLER.ID
INNER JOIN TEAMS ON PLAYER.TEAM = TEAMS.TEAM_ID
WHERE PLAYER.NAME = 'TENDULKAR'
```

PLAYER_ID	NAME	FITNESS	AGE	DEBUT	TEAM_ID	COUNTRY	HUNDREDS	FIFTIES	RUNS	NO_OF_MATCHES	RANK	WICKETS	RANK	NO_OF_MATCHES	5_WICKETS	ECONOMY
4	TENDULKAR	99	14	1999-12-01	1	INDIA	78	633	4152	811	36	1	122	2	0	6

2.

Searching for a coach in database mapping with Team country:-

```
SELECT COACH_ID, COACH.NAME,COACH.AGE,TEAMS.COUNTRY
FROM COACH
INNER JOIN TEAMS ON COACH.TEAM = TEAMS.TEAM_ID WHERE TEAMS.COUNTRY = 'INDIA'
```

COACH_ID	NAME	AGE	COUNTRY
21	CHARLES	43	INDIA

3.

```
INSERT INTO `BOWLER` (`ID`, `RANK`, `WICKETS`,
`NO_OF_MATCHES`, `5_WICKETS`, `ECONOMY`)
VALUES
(1,99,4,8,0,4),
(2,87,67,34,2,8),
(3,12,331,564,88,7),
(4,122,1,2,0,6),
(5,13,132,67,5,3),
(6,1,10,1,2,2),
(7,133,0,0,0,0),
(8,133,0,0,0,0),
(9,65,4,1,0,7),
(10,33,64,34,3,2),
(11,133,0,0,0,0),
(12,86,67,34,2,2),
(13,22,23,34,1,7),
(14,133,0,0,0,0),
(15,130,4,1,0,2),
(16,54,32,6,3,4),
(17,34,765,123,3,4);
```

ID	RANK	WICKETS	NO_OF_MATCHES	5_WICKETS	ECONOMY
1 ➡	99	4	8	0	4
2 ➡	87	67	34	2	8
3 ➡	12	331	564	88	7
4 ➡	122	1	2	0	6
5 ➡	13	132	67	5	3
6 ➡	1	10	1	2	2
7 ➡	133	0	0	0	0
8 ➡	133	0	0	0	0
9 ➡	65	4	1	0	7
10 ➡	33	64	34	3	2
11 ➡	133	0	0	0	0
12 ➡	86	67	34	2	2
13 ➡	22	23	34	1	7
14 ➡	133	0	0	0	0
15 ➡	130	4	1	0	2
16 ➡	54	32	6	3	4
17 ➡	34	765	123	3	4

4.

```
INSERT INTO `BATSMAN` (`ID`, `HUNDREDS`, `FIFTIES`, `RUNS`,  
`NO_OF_MATCHES`, `RANK`)
```

```
VALUES
```

```
(1,12,65,4565,345,32),  
(2,0,6,455,335,34),  
(3,10,54,4425,344,35),  
(4,78,633,4152,811,36),  
(5,60,89,3214,465,39),  
(6,3,54,5157,666,36),  
(7,0,0,76,6,98),  
(8,0,66,5422,189,38),  
(9,33,654,6546,3444,22),  
(10,21,13,890,67,5),  
(11,33,87,565,454,55),  
(12,0,0,0,0,89),  
(13,0,0,23,11,90),  
(14,327,984,85749,1000,1),  
(15,1,2,422,5,80),  
(16,0,0,76,43,101),  
(17,0,5,877,9,99),  
(18,40,12,543,33,3),  
(19,33,22,23,23,2);
```

ID	HUNDREDS	FIFTIES	RUNS	NO_OF_MATCHES	RANK
1	12	65	4565	345	32
2	0	6	455	335	34
3	10	54	4425	344	35
4	78	633	4152	811	36
5	60	89	3214	465	39
6	3	54	5157	666	36
7	0	0	76	6	98
8	0	66	5422	189	38
9	33	654	6546	3444	22
10	21	13	890	67	5
11	33	87	565	454	55
12	0	0	0	0	89
13	0	0	23	11	90
14	327	984	85749	1000	1
15	1	2	422	5	80
16	0	0	76	43	101
17	0	5	877	9	99
18	40	12	543	33	3
19	33	22	23	23	2

5.

```
INSERT INTO `PLAYER` (`PLAYER_ID`, `NAME`, `FITNESS`, `AGE`,
`DEBUT`, `TEAM`)
```

```
VALUES
```

```
(1, 'DHONI', 89, 31, '2007-11-12', 1),
(2, 'kohli', 87, 22, '2010-01-23', 1),
(3, 'rohit', 78, 32, '2001-08-30', 1),
(4, 'TENDULKAR', 99, 14, '1999-12-01', 1),
(5, 'RAHUL', 78, 30, '2002-09-05', 1),
(6, 'VIRAT', 97, 28, '2012-02-02', 1),
(7, 'dhawan', 100, 29, '2015-12-01', 1),
(8, 'ashwin', 98, 27, '2008-04-26', 1),
(9, 'bumrah', 89, 21, '2007-11-19', 1),
(10, 'ganguly', 69, 22, '2013-10-18', 1),
(11, 'GEETU', 1, 19, '2017-11-11', 1),
(12, 'ABHISHEK', 99, 18, '2016-12-11', 1),
(13, 'ROHAN', 78, 42, '2014-02-03', 1),
(14, 'VISHU', 66, 21, '2011-11-08', 1),
(15, 'SIMARPREET', 78, 17, '2011-03-04', 1),
(16, 'ARJUN', 79, 19, '2003-05-15', 1),
(17, 'shivam', 89, 28, '1999-12-11', 1),
(18, 'PRAVEEN', 98, 21, '2014-11-24', 1),
(19, 'hardik', 33, 24, '2009-12-03', 1),
(20, 'chahal', 33, 25, '2002-12-11', 1);
```

PLAYER_ID	NAME	FITNESS	AGE	DEBUT	TEAM	
1	DHONI	89	31	2007-11-12	1	➡
2	kohli	87	22	2010-01-23	1	➡
3	rohit	78	32	2001-08-30	1	➡
4	TENDULKAR	99	14	1999-12-01	1	➡
5	RAHUL	78	30	2002-09-05	1	➡
6	VIRAT	97	28	2012-02-02	1	➡
7	dhawan	100	29	2015-12-01	1	➡
8	ashwin	98	27	2008-04-26	1	➡
9	bumrah	89	21	2007-11-19	1	➡
10	ganguly	69	22	2013-10-18	1	➡
11	GEETU	1	19	2017-11-11	1	➡
12	ABHISHEK	99	18	2016-12-11	1	➡
13	ROHAN	78	42	2014-02-03	1	➡
14	VISHU	66	21	2011-11-08	1	➡
15	SIMARPREET	78	17	2011-03-04	1	➡
16	ARJUN	79	19	2003-05-15	1	➡
17	shivam	89	28	1999-12-11	1	➡
18	PRAVEEN	98	21	2014-11-24	1	➡
19	hardik	33	24	2009-12-03	1	➡
20	chahal	33	25	2002-12-11	1	➡

### JAVA FRONT-END DRIVER CODE LINKED VIA JDBC:-

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.Scanner;
import java.util.concurrent.TimeUnit;
import java.io.IOException;

public class ConnectionMySQL {

    public static void main(String args[]) throws
IOException, InterruptedException {
        Scanner sc = new Scanner(System.in);
        while (true) {

System.out.println("\n\n\t\t\t\t\t-----ICC CRICKET
ACADEMY-----" + "\n\n");
            System.out.println("1. VIEW DETAILS" + "\n" +
"2. INSERT DETAILS\n" + "3. UPDATE DETAILS\n" + "4.Exit");
            System.out.println("Enter your choice:");
            int ch = sc.nextInt();

            for (int i = 0; i < 1000; i++) {
                System.out.println("\b");
            }

            switch (ch) {
            case 1:
                System.out.println("Want to view Details
of ??");
                System.out.println("1. PLAYERS\n" + "2.
COACHES\n" + "3. TEAMS\n" + "4. SERIES RECORDS\n");
                System.out.println("Enter your Choice :");
                int ch2 = sc.nextInt();

                for (int i = 0; i < 1000; i++) {
                    System.out.println("\b");
                }
                switch (ch2) {
                case 1:
```

```

        System.out.println("Enter the name of
Player to be viewed :");
        String name;
        Scanner tc = new Scanner(System.in);
        name = tc.next();
        name = name.toUpperCase();
        try {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false", "root",
                                "2173009489@gmail");
            String query = "SELECT
PLAYER_ID,PLAYER.NAME,FITNESS,AGE,DEBUT,TEAMS.TEAM_ID,TEAMS.C
OUNTRY,HUNDREDS,FIFTIES,RUNS,BATSMAN.NO_OF_MATCHES,BATSMAN.RA
NK,WICKETS,"
                                +
"BOWLER.RANK,BOWLER.NO_OF_MATCHES,5_WICKETS,ECONOMY " + "FROM
PLAYER "
                                + "INNER JOIN BATSMAN
ON PLAYER.PLAYER_ID = BATSMAN.ID "
                                + "INNER JOIN BOWLER ON
PLAYER.PLAYER_ID = BOWLER.ID "
                                + "INNER JOIN TEAMS ON
PLAYER.TEAM = TEAMS.TEAM_ID " + "WHERE PLAYER.NAME = '" +
name
                                + "'";
            Statement stmt =
conn.createStatement();
            ResultSet rs =
stmt.executeQuery(query);
            System.out.println("General Info
About " + name);

            System.out.format("%10s%15s%17s%15s%15s%15s%15s", "Player
ID", "Name", "Fitness Score", "Age",
                                "Debut Date", "Team
ID", "Country");

            System.out.println();

            while (rs.next()) {

                System.out.format("%10s%15s%17s%15s%15s%15s%15s",
rs.getString("PLAYER_ID"),
rs.getString("PLAYER.NAME"), rs.getString("FITNESS"),
rs.getString("AGE"),

```



```

rs.getString("DEBUT"), rs.getString("TEAMS.TEAM_ID"),
rs.getString("TEAMS.COUNTRY"));
    }
    System.out.println();
    rs = stmt.executeQuery(query);
    System.out.println(name + " as a
Batsman:- ");

System.out.format("%10s%15s%15s%17s%15s", "Rank", "Hundreds",
"Fifties", "Runs",
                                "No of Matches");
System.out.println();

    while (rs.next()) {

System.out.format("%10s%15s%15s%17s%15s",
rs.getString("BATSMAN.RANK"),

rs.getString("HUNDREDS"), rs.getString("FIFTIES"),
rs.getString("RUNS"),

rs.getString("BATSMAN.NO_OF_MATCHES"));
    }

    System.out.println();
    rs = stmt.executeQuery(query);
    System.out.println(name + " as a
Bowler:- ");

System.out.format("%10s%15s%15s%17s%15s", "Rank", "Wickets",
"5 Wickets", "No of Matches",
                                "Economy");
System.out.println();

    while (rs.next()) {

System.out.format("%10s%15s%15s%17s%15s",
rs.getString("BOWLER.RANK"),

rs.getString("WICKETS"), rs.getString("5_WICKETS"),

rs.getString("BOWLER.NO_OF_MATCHES"),
rs.getString("BOWLER.ECONOMY"));
    }

```

```

        System.out.println();
    }

    catch (Exception e) {
        System.out.println("No Such
PLAYER Exists!!");
        System.err.println(e);
    }

    break;

    case 2:

        System.out.println("1.Search By coach
Name\n2.Search By Country");
        Scanner vs = new Scanner(System.in);
        int coi = sc.nextInt();

        switch (coi) {
            case 1:
                System.out.println("Enter Coach
Name:- ");

                name = vs.next();
                name = name.toUpperCase();

                try {
                    Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false",
                                "root",
                                "2173009489@gmail");

                    String query = "SELECT
COACH_ID, COACH.NAME,COACH.AGE,TEAMS.COUNTRY FROM COACH INNER
JOIN TEAMS ON COACH.TEAM = TEAMS.TEAM_ID WHERE COACH.NAME =
'"
                                + name + "'";
                    Statement stmt =
conn.createStatement();

                    ResultSet rs =
stmt.executeQuery(query);

                    System.out.format("%10s%15s%17s%15s", "Coach ID", "Name",
"Age", "Country");

                    System.out.println();

```

```

        while (rs.next()) {
            System.out.format("%10s%15s%17s%15s",
                rs.getString("COACH.COACH_ID"),
                rs.getString("COACH.NAME"), rs.getString("COACH.AGE"),
                rs.getString("TEAMS.COUNTRY"));
        }
    }

    catch (Exception e) {
        System.out.println("No Such
Coach Exists!!");
        System.err.println(e);
    }

    break;

    case 2:
        System.out.println("Enter
Country:- ");

        name = vs.next();
        name = name.toUpperCase();
        try {
            Connection conn =
                DriverManager.getConnection("jdbc:mysql://localhost/ICC?
                useSSL=false",
                    "root",
                    "2173009489@gmail");

            String query = "SELECT
COACH_ID, COACH.NAME, COACH.AGE, TEAMS.COUNTRY \n" + "FROM
COACH \n"
                + "INNER JOIN
TEAMS ON COACH.TEAM = TEAMS.TEAM_ID WHERE TEAMS.COUNTRY = '"
                + name
                + "'";

            Statement stmt =
                conn.createStatement();

            ResultSet rs =
                stmt.executeQuery(query);

            System.out.format("%10s%15s%17s%15s", "Coach ID", "Name",
                "Age", "Country");

            System.out.println();
        }
    }
}

```



```

Statement stmt =
conn.createStatement();
ResultSet rs =
stmt.executeQuery(query);

System.out.format("%10s%15s%15s%15s%15s%15s", "Team ID",
"Country", "Captain", "Rank",
"Manager_ID", "Manager
Name");

System.out.println();

while (rs.next()) {

System.out.format("%10s%15s%15s%15s%15s%15s",
rs.getString("TEAMS.TEAM_ID"),

rs.getString("TEAMS.COUNTRY"), rs.getString("PLAYER.NAME"),

rs.getString("TEAMS.RANK"),
rs.getString("MANAGER.MANAGER_ID"),

rs.getString("MANAGER.NAME"));
}

}

catch (Exception e) {
System.out.println("No Such Team
Exists!!");

System.err.println(e);
continue;
}

break;

case 4:
System.out.println("Enter SERIES ID
of SERIES whose details you want to check :");

String seriesId = sc.next();
try {
Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false", "root",
"2173009489@gmail");

```

```

        String query = "SELECT
SERIES_ID,DURATION,FORMAT,PLAYER.NAME,TEAMS.COUNTRY\n" +
"FROM SERIES\n"
                                + "INNER JOIN TEAMS ON
SERIES.WINNING_TEAM_ID = TEAMS.TEAM_ID \n"
                                + "INNER JOIN PLAYER ON
SERIES.MAN_OF_THE_SERIES = PLAYER.PLAYER_ID\n"
                                + "WHERE SERIES_ID = '"
+ seriesId + "'";

        Statement stmt =
conn.createStatement();

        ResultSet rs =
stmt.executeQuery(query);

        System.out.format("%10s%13s%13s%19s%17s", "Series ID",
"Duration", "Format",
                                "Man Of The Series",
"Winning Team");

        System.out.println();

        while (rs.next()) {

            System.out.format("%10s%13s%13s%19s%17s",
rs.getString("SERIES_ID"),

rs.getString("DURATION"), rs.getString("FORMAT"),
rs.getString("PLAYER.NAME"),

rs.getString("TEAMS.COUNTRY"));

        }

    }

    catch (Exception e) {
        System.out.println("No Such
Series Exists!!");

        System.err.println(e);
        continue;
    }

    System.out.println();

    System.out.println("Want to view
Specific Match Details of this SERIES(0/1) ??");
    int choice = sc.nextInt();

```

```

        if (choice != 0) {
            System.out.println("Enter Match
Id of Match whose details you want to view :");
            int matchId = sc.nextInt();

            try {
                Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false",
                                "root",
                                "2173009489@gmail");

                String query = "SELECT
T1.COUNTRY AS TEAM_1, T2.COUNTRY AS TEAM_2,
SERIES.FORMAT, VENUE, T3.COUNTRY AS
WINNER_TEAM, DATE, MAN_OF_THE_MATCH\n"
                                + "FROM MATCHES\n"
+ "INNER JOIN TEAMS AS T1 ON MATCHES.TEAM_1 = T1.TEAM_ID\n"
                                + "INNER JOIN
TEAMS AS T2 ON MATCHES.TEAM_2 = T2.TEAM_ID\n"
                                + "INNER JOIN
TEAMS AS T3 ON MATCHES.WINNER_TEAM = T3.TEAM_ID\n"
                                + "INNER JOIN
SERIES ON MATCHES.SERIES_ID = SERIES.SERIES_ID\n"
                                + "INNER JOIN
PLAYER ON MATCHES.MAN_OF_THE_MATCH = PLAYER.PLAYER_ID\n"
                                + "WHERE MATCH_ID
= '" + matchId + "'";

                Statement stmt =
conn.createStatement();

                ResultSet rs =
stmt.executeQuery(query);

                System.out.format("%10s%13s%13s%19s%17s%17s", "TEAM 1", "TEAM
2", "FORMAT", "WINNER TEAM",
                                "DATE", "MAN OF
THE MATCH");

                System.out.println();

                while (rs.next()) {

                    System.out.format("%10s%13s%13s%19s%15s%17s",
rs.getString("TEAM_1"),

```

```

rs.getString("TEAM_2"), rs.getString("FORMAT"),
rs.getString("WINNER_TEAM"),

rs.getString("DATE"), rs.getString("MAN_OF_THE_MATCH"));
    }

    }

    catch (Exception e) {
        System.out.println("No Such
Series Exists!!");

        System.err.println(e);
        continue;
    }
    System.out.println();

    }

    break;

    default:
        break;
    }
    break;

    case 2:
        System.out.println("What do you want to
Insert ?? ");
        System.out.println("1. NEW PLAYER ?\n" +
"2. NEW COACH ?\n" + "3. NEW MANAGER ?\n");
        System.out.println("Enter your Choice :");

        ch2 = sc.nextInt();

        for (int i = 0; i < 100; i++) {
            System.out.println();
        }

        switch (ch2) {
        case 1: {
            System.out.println("General details:-

");

            System.out.println("Enter Name:- ");
            String name = sc.next();
            System.out.println("Enter Age:- ");

```



```

        String age = sc.next();
        System.out.println("Enter Fitness
Score(out of 100):- ");
        String fit = sc.next();

        System.out.println("Enter Debut
Date:-");
        String date = sc.next();
        System.out.println("Enter Team ID:-
");
        String team = sc.next();
        System.out.println();

        System.out.println("Batting Details:-
");
        System.out.println("Hundreds:- ");
        String hun = sc.next();
        System.out.println("Fifties:-");
        String fif = sc.next();
        System.out.println("Runs:-");
        String run = sc.next();
        System.out.println("No of Matches:-
");
        String m = sc.next();
        System.out.println("Rank:- ");
        String btr = sc.next();

        System.out.println("Bowler Details:-
");
        System.out.println("Enter Wickets:-
");
        String wic = sc.next();
        System.out.println("Enter Number of
matches:-");
        String bm = sc.next();
        System.out.println("Enter 5 Wickets:-
");
        String five = sc.next();
        System.out.println("Enter economy:-
");
        String eco = sc.next();
        System.out.println("Enter Rank:- ");
        String bowr = sc.next();
        try {

```

```

        Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false", "root",
                                "2173009489@gmail");

        String query1 = "INSERT INTO
PLAYER (NAME,AGE,FITNESS,DEBUT,TEAM)\n" + "VALUES (\'" + name
                                + "\',\'" + age + "\',
\'" + fit + "\',\'" + date + "\',\'" + team + "\')\n";

        String quer2 = "INSERT
INTO BATSMAN(HUNDREDS,FIFTIES,RUNS,NO_OF_MATCHES,RANK)\n" +
"VALUES (\'" + hun
                                + "\',\'" + fif + "\',
\'" + run + "\',\'" + m + "\',\'" + btr + "\')";
        String q3 = "INSERT
INTO BOWLER(ID,RANK,WICKETS,NO_OF_MATCHES,5_WICKETS,ECONOMY)
\n" + "VALUES (\'234\',"
                                + bowr + "\',\'" + wic
+ "\',\'" + bm + "\',\'" + five + "\',\'" + eco + "\')";

        Statement stmt1 =
conn.createStatement();
        int rs1 =
stmt1.executeUpdate(query1);

        Statement stmt2 =
conn.createStatement();
        int rs2 =
stmt2.executeUpdate(quer2);

        Statement stmt3 =
conn.createStatement();
        int rs3 =
stmt3.executeUpdate(q3);

        System.out.println();

    }

    catch (Exception e) {
        System.out.println("Fail!!");
        System.err.println(e);
        continue;
    }

```

```

        break;
    }

    case 2: {
        System.out.println("Enter Coach
Name:- ");

        String name = sc.next();

        System.out.println("Enter Team ID:-
");

        String team = sc.next();
        System.out.println("Enter Age:- ");
        String age = sc.next();

        try {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false", "root",
                                "2173009489@gmail");

            String query = "INSERT INTO
COACH (NAME, AGE, TEAM) VALUES (\\" + name + "\", \\" + age +
\\"", \\"
                                + team + "\");";

            Statement stmt =
conn.createStatement();

            int rs =
stmt.executeUpdate(query);

            System.out.println();

        }

        catch (Exception e) {
            System.out.println("Fail!!");
            System.err.println(e);
            continue;
        }

        break;
    }

    case 3: {
        System.out.println("Enter Manager
Name:- ");

        String name = sc.next();

```

```

        System.out.println("Enter Team ID:-
");
        String team = sc.next();

        try {
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false", "root",
                                "2173009489@gmail");

            String query = "INSERT INTO
MANAGER(Team,NAME) VALUES (\\"" + team + "\",\"" + name +
"\")";

            Statement stmt =
conn.createStatement();
            int rs =
stmt.executeUpdate(query);
            System.out.println();

        }

        catch (Exception e) {
            System.out.println("Fail!!");
            System.err.println(e);
            continue;
        }

        break;
    }

    break;

    case 3:
        System.out.println("Which existing Details
Do you want to Update ??");
        System.out.println("1. PLAYER DETAILS ?
\n2.Coach Details");
        System.out.println("Enter your Choice :
");

        ch2 = sc.nextInt();

        switch (ch2) {

```

```

        case 1:
            System.out.println("Enter name of
PLAYER you would like to change :");
            String name;
            name = sc.next();

            System.out.println("1.Update
Age\n2.Update Fitness");
            int attr = sc.nextInt();

            if (attr == 1) {
                System.out.println("Enter new
age:- ");

                int age = sc.nextInt();

                try {
                    Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false",
                                "root",
                                "2173009489@gmail");

                    String query = "UPDATE
PLAYER SET AGE =' " + age + "' WHERE NAME =' " + name + "'";

                    Statement stmt =
conn.createStatement();

                    int rs =
stmt.executeUpdate(query);

                    System.out.println();

                }

                catch (Exception e) {

                    System.out.println("Fail!!");

                    System.err.println(e);
                    continue;

                }

            }

            else {
                int fit = sc.nextInt();
                try {

```

```

                                Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost/ICC?
useSSL=false",
                                "root",
                                "2173009489@gmail");

                                String query = "UPDATE
PLAYER SET FITNESS =' " + fit + "' WHERE NAME =' " + name +
                                "'";

                                Statement stmt =
conn.createStatement();
                                int rs =
stmt.executeUpdate(query);
                                System.out.println();

                                }

                                catch (Exception e) {

System.out.println("Fail!!");

                                System.err.println(e);
                                continue;

                                }

                                }

                                }

                                case 4: {
                                    System.exit(0);
                                }

                                default:
                                    System.out.println("Wrong Choice
Entered !!!!!");
                                    // TimeUnit.SECONDS.sleep(1);
                                }

                                }

                                }
}

```

## SQL BACKEND DATABASE CODE:-

```
#
*****
# Sequel Pro SQL dump
# Version 4541
#
# http://www.sequelpro.com/
# https://github.com/sequelpro/sequelpro
#
# Host: localhost (MySQL 5.7.20)
# Database: ICC
# Generation Time: 2017-11-08 19:13:36 +0000
#
*****

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT
*/;
/*!40101 SET
@OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION
*/;
/*!40101 SET NAMES utf8 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

# Dump of table BATSMAN
#
-----

DROP TABLE IF EXISTS `BATSMAN`;

CREATE TABLE `BATSMAN` (
  `ID` int(11) NOT NULL AUTO_INCREMENT,
  `HUNDREDS` int(11) NOT NULL DEFAULT '0',
  `FIFTIES` int(11) NOT NULL DEFAULT '0',
  `RUNS` int(11) NOT NULL DEFAULT '0',
  `NO_OF_MATCHES` int(11) NOT NULL DEFAULT '0',
  `RANK` int(11) NOT NULL DEFAULT '0',
  PRIMARY KEY (`ID`),
```

```

    CONSTRAINT `I` FOREIGN KEY (`ID`) REFERENCES `PLAYER`
(`PLAYER_ID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

LOCK TABLES `BATSMAN` WRITE;
/*!40000 ALTER TABLE `BATSMAN` DISABLE KEYS */;

INSERT INTO `BATSMAN` (`ID`, `HUNDREDS`, `FIFTIES`, `RUNS`,
`NO_OF_MATCHES`, `RANK`)
VALUES
(1,12,65,4565,345,32),
(2,0,6,455,335,34),
(3,10,54,4425,344,35),
(4,78,633,4152,811,36),
(5,60,89,3214,465,39),
(6,3,54,5157,666,36),
(7,0,0,76,6,98),
(8,0,66,5422,189,38),
(9,33,654,6546,3444,22),
(10,21,13,890,67,5),
(11,33,87,565,454,55),
(12,0,0,0,0,89),
(13,0,0,23,11,90),
(14,327,984,85749,1000,1),
(15,1,2,422,5,80),
(16,0,0,76,43,101),
(17,0,5,877,9,99),
(18,40,12,543,33,3),
(19,33,22,23,23,2);

/*!40000 ALTER TABLE `BATSMAN` ENABLE KEYS */;
UNLOCK TABLES;

# Dump of table BOWLER
#
-----

DROP TABLE IF EXISTS `BOWLER`;

CREATE TABLE `BOWLER` (
  `ID` int(11) NOT NULL,
  `RANK` int(11) NOT NULL DEFAULT '0',
  `WICKETS` int(11) NOT NULL DEFAULT '0',
  `NO_OF_MATCHES` int(11) NOT NULL DEFAULT '0',
  `5_WICKETS` int(11) NOT NULL DEFAULT '0',

```



```

    `ECONOMY` int(11) NOT NULL DEFAULT '0',
    KEY `PLAY` (`ID`),
    CONSTRAINT `PLAY` FOREIGN KEY (`ID`) REFERENCES `PLAYER`
    (`PLAYER_ID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

```

LOCK TABLES `BOWLER` WRITE;
/*!40000 ALTER TABLE `BOWLER` DISABLE KEYS */;

```

```

INSERT INTO `BOWLER` (`ID`, `RANK`, `WICKETS`,
`NO_OF_MATCHES`, `5_WICKETS`, `ECONOMY`)
VALUES

```

```

    (1,99,4,8,0,4),
    (2,87,67,34,2,8),
    (3,12,331,564,88,7),
    (4,122,1,2,0,6),
    (5,13,132,67,5,3),
    (6,1,10,1,2,2),
    (7,133,0,0,0,0),
    (8,133,0,0,0,0),
    (9,65,4,1,0,7),
    (10,33,64,34,3,2),
    (11,133,0,0,0,0),
    (12,86,67,34,2,2),
    (13,22,23,34,1,7),
    (14,133,0,0,0,0),
    (15,130,4,1,0,2),
    (16,54,32,6,3,4),
    (17,34,765,123,3,4);

```

```

/*!40000 ALTER TABLE `BOWLER` ENABLE KEYS */;
UNLOCK TABLES;

```

```

# Dump of table COACH
#

```

```

DROP TABLE IF EXISTS `COACH`;

```

```

CREATE TABLE `COACH` (
    `COACH_ID` int(11) NOT NULL AUTO_INCREMENT,
    `TEAM` int(11) DEFAULT NULL,
    `NAME` varchar(45) NOT NULL DEFAULT '',
    `AGE` int(11) NOT NULL,
    PRIMARY KEY (`COACH_ID`),

```

```

    KEY `TEAM` (`TEAM`),
    CONSTRAINT `coach_ibfk_1` FOREIGN KEY (`TEAM`) REFERENCES
`TEAMS` (`TEAM_ID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

```

LOCK TABLES `COACH` WRITE;
/*!40000 ALTER TABLE `COACH` DISABLE KEYS */;

```

```

INSERT INTO `COACH` (`COACH_ID`, `TEAM`, `NAME`, `AGE`)
VALUES

```

```

    (21,1,'CHARLES',43),
    (22,2,'CRAIG',25),
    (23,3,'DANIEL',27),
    (24,4,'RAVI',32),
    (25,5,'KAPIL',45),
    (26,6,'SHIVAM',34),
    (27,7,'SIMAR',36),
    (28,8,'MESSI',31),
    (29,NULL,'RONALDO',34),
    (30,NULL,'GOTZE',29),
    (31,NULL,'HRITHIK',44),
    (32,3,'vishu',34),
    (33,3,'yui',12);

```

```

/*!40000 ALTER TABLE `COACH` ENABLE KEYS */;
UNLOCK TABLES;

```

```

# Dump of table MANAGER
#

```

```

-----

```

```

DROP TABLE IF EXISTS `MANAGER`;

```

```

CREATE TABLE `MANAGER` (
  `MANAGER_ID` int(11) NOT NULL AUTO_INCREMENT,
  `TEAM` int(11) NOT NULL,
  `NAME` varchar(45) NOT NULL DEFAULT '',
  PRIMARY KEY (`MANAGER_ID`),
  KEY `TM` (`TEAM`),
  CONSTRAINT `TM` FOREIGN KEY (`TEAM`) REFERENCES `TEAMS`
(`TEAM_ID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

```

LOCK TABLES `MANAGER` WRITE;
/*!40000 ALTER TABLE `MANAGER` DISABLE KEYS */;

```

```
INSERT INTO `MANAGER` (`MANAGER_ID`, `TEAM`, `NAME`)
VALUES
```

```
    (11,1,'ANDREW'),
    (12,2,'SMITH'),
    (13,3,'GANGULY'),
    (14,4,'GEORGE BUSH'),
    (15,5,'OBAMA'),
    (16,6,'LINCOLN'),
    (17,7,'CLINTON'),
    (18,8,'BILL GATES');
```

```
/*!40000 ALTER TABLE `MANAGER` ENABLE KEYS */;
UNLOCK TABLES;
```

```
# Dump of table MATCHES
#
```

```
-----
```

```
DROP TABLE IF EXISTS `MATCHES`;
```

```
CREATE TABLE `MATCHES` (
  `MATCH_ID` int(11) NOT NULL AUTO_INCREMENT,
  `TEAM_1` int(11) NOT NULL,
  `TEAM_2` int(11) NOT NULL,
  `SERIES_ID` int(11) NOT NULL,
  `VENUE` varchar(45) NOT NULL DEFAULT '',
  `WINNER_TEAM` int(11) NOT NULL,
  `DATE` date NOT NULL,
  `MAN_OF_THE_MATCH` int(11) NOT NULL,
  PRIMARY KEY (`MATCH_ID`),
  KEY `TM1` (`TEAM_1`),
  KEY `TM2` (`TEAM_2`),
  KEY `WN` (`WINNER_TEAM`),
  KEY `MAN` (`MAN_OF_THE_MATCH`),
  KEY `SID` (`SERIES_ID`),
  CONSTRAINT `MAN` FOREIGN KEY (`MAN_OF_THE_MATCH`)
REFERENCES `PLAYER` (`PLAYER_ID`) ON DELETE CASCADE ON UPDATE
CASCADE,
  CONSTRAINT `SID` FOREIGN KEY (`SERIES_ID`) REFERENCES
`SERIES` (`SERIES_ID`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `TM1` FOREIGN KEY (`TEAM_1`) REFERENCES `TEAMS`
(`TEAM_ID`) ON DELETE CASCADE ON UPDATE CASCADE,
  CONSTRAINT `TM2` FOREIGN KEY (`TEAM_2`) REFERENCES `TEAMS`
(`TEAM_ID`) ON DELETE CASCADE ON UPDATE CASCADE,
```

```
    CONSTRAINT `WN` FOREIGN KEY (`WINNER_TEAM`) REFERENCES
`TEAMS` (`TEAM_ID`) ON DELETE CASCADE ON UPDATE CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
LOCK TABLES `MATCHES` WRITE;
/*!40000 ALTER TABLE `MATCHES` DISABLE KEYS */;
```

```
INSERT INTO `MATCHES` (`MATCH_ID`, `TEAM_1`, `TEAM_2`,
`SERIES_ID`, `VENUE`, `WINNER_TEAM`, `DATE`,
`MAN_OF_THE_MATCH`)
```

```
VALUES
```

```
    (81,4,2,42,'KOTLA',2,'2017-11-20',2),
    (82,5,1,42,'KOTLA',1,'2017-04-11',17),
    (83,2,8,42,'WANKHADE',8,'2017-04-12',15),
    (84,3,6,42,'WANKHEDE',6,'2017-11-03',6),
    (85,7,4,42,'KOTLA',4,'2017-12-08',11),
    (88,8,1,43,'DHRMSHALA',1,'2016-04-09',1),
    (89,4,8,43,'CHINNASWAMI',8,'2017-04-18',8);
```

```
/*!40000 ALTER TABLE `MATCHES` ENABLE KEYS */;
UNLOCK TABLES;
```

```
# Dump of table PLAYER
```

```
#
```

```
-----
```

```
DROP TABLE IF EXISTS `PLAYER`;
```

```
CREATE TABLE `PLAYER` (
  `PLAYER_ID` int(11) NOT NULL AUTO_INCREMENT,
  `NAME` varchar(45) NOT NULL DEFAULT '',
  `FITNESS` int(11) NOT NULL,
  `AGE` int(11) NOT NULL,
  `DEBUT` date NOT NULL,
  `TEAM` int(11) NOT NULL,
  PRIMARY KEY (`PLAYER_ID`),
  KEY `TEAM` (`TEAM`),
  CONSTRAINT `player_ibfk_1` FOREIGN KEY (`TEAM`) REFERENCES
`TEAMS` (`TEAM_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
LOCK TABLES `PLAYER` WRITE;
/*!40000 ALTER TABLE `PLAYER` DISABLE KEYS */;
```

```
INSERT INTO `PLAYER` (`PLAYER_ID`, `NAME`, `FITNESS`, `AGE`,  
`DEBUT`, `TEAM`)  
VALUES
```

```
(1, 'DHONI', 89, 31, '2007-11-12', 1),  
(2, 'kohli', 87, 22, '2010-01-23', 1),  
(3, 'rohit', 78, 32, '2001-08-30', 1),  
(4, 'TENDULKAR', 99, 14, '1999-12-01', 1),  
(5, 'RAHUL', 78, 30, '2002-09-05', 1),  
(6, 'VIRAT', 97, 28, '2012-02-02', 1),  
(7, 'dhawan', 100, 29, '2015-12-01', 1),  
(8, 'ashwin', 98, 27, '2008-04-26', 1),  
(9, 'bumrah', 89, 21, '2007-11-19', 1),  
(10, 'ganguly', 69, 22, '2013-10-18', 1),  
(11, 'GEETU', 1, 19, '2017-11-11', 1),  
(12, 'ABHISHEK', 99, 18, '2016-12-11', 1),  
(13, 'ROHAN', 78, 42, '2014-02-03', 1),  
(14, 'VISHU', 66, 21, '2011-11-08', 1),  
(15, 'SIMARPREET', 78, 17, '2011-03-04', 1),  
(16, 'ARJUN', 79, 19, '2003-05-15', 1),  
(17, 'shivam', 89, 28, '1999-12-11', 1),  
(18, 'PRAVEEN', 98, 21, '2014-11-24', 1),  
(19, 'hardik', 33, 24, '2009-12-03', 1),  
(20, 'chahal', 33, 25, '2002-12-11', 1);
```

```
/*!40000 ALTER TABLE `PLAYER` ENABLE KEYS */;  
UNLOCK TABLES;
```

```
# Dump of table SERIES  
#
```

```
-----
```

```
DROP TABLE IF EXISTS `SERIES`;
```

```
CREATE TABLE `SERIES` (  
  `SERIES_ID` int(11) NOT NULL,  
  `DURATION` int(11) NOT NULL,  
  `FORMAT` varchar(45) NOT NULL DEFAULT 'ONE DAY  
INTERNATIONAL',  
  `WINNING_TEAM_ID` int(11) NOT NULL DEFAULT '0',  
  `MAN_OF_THE_SERIES` int(11) NOT NULL DEFAULT '0',  
  PRIMARY KEY (`SERIES_ID`),  
  KEY `WINNER` (`WINNING_TEAM_ID`),  
  KEY `MM` (`MAN_OF_THE_SERIES`),
```

```

    CONSTRAINT `MM` FOREIGN KEY (`MAN_OF_THE_SERIES`)
REFERENCES `PLAYER` (`PLAYER_ID`) ON DELETE CASCADE ON UPDATE
CASCADE,
    CONSTRAINT `WINNER` FOREIGN KEY (`WINNING_TEAM_ID`)
REFERENCES `TEAMS` (`TEAM_ID`) ON DELETE CASCADE ON UPDATE
CASCADE
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

```

LOCK TABLES `SERIES` WRITE;
/*!40000 ALTER TABLE `SERIES` DISABLE KEYS */;

```

```

INSERT INTO `SERIES` (`SERIES_ID`, `DURATION`, `FORMAT`,
`WINNING_TEAM_ID`, `MAN_OF_THE_SERIES`)
VALUES
    (42,5,'TEST',4,11),
    (43,3,'ODI',1,1),
    (44,5,'T20',6,14);

```

```

/*!40000 ALTER TABLE `SERIES` ENABLE KEYS */;
UNLOCK TABLES;

```

```

# Dump of table TEAMS
#

```

```

DROP TABLE IF EXISTS `TEAMS`;

```

```

CREATE TABLE `TEAMS` (
    `TEAM_ID` int(11) NOT NULL,
    `COUNTRY` varchar(45) NOT NULL DEFAULT '',
    `CAPTAIN` int(45) NOT NULL,
    `RANK` int(11) NOT NULL DEFAULT '0',
    `NO_OF_MATCHES` int(45) NOT NULL DEFAULT '0',
    `MANAGER_ID` int(11) NOT NULL,
    PRIMARY KEY (`TEAM_ID`),
    KEY `CAPTAIN` (`CAPTAIN`),
    KEY `MANGER ID` (`MANAGER_ID`),
    CONSTRAINT `teams_ibfk_1` FOREIGN KEY (`CAPTAIN`)
REFERENCES `PLAYER` (`PLAYER_ID`) ON DELETE CASCADE ON UPDATE
CASCADE,
    CONSTRAINT `teams_ibfk_2` FOREIGN KEY (`MANAGER_ID`)
REFERENCES `MANAGER` (`MANAGER_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

```

LOCK TABLES `TEAMS` WRITE;

```

```
/*!40000 ALTER TABLE `TEAMS` DISABLE KEYS */;
```

```
INSERT INTO `TEAMS` (`TEAM_ID`, `COUNTRY`, `CAPTAIN`, `RANK`,  
`NO_OF_MATCHES`, `MANAGER_ID`)
```

```
VALUES
```

```
  (1, 'INDIA', 1, 12, 877, 11),  
  (2, 'PAKISTAN', 2, 72, 8734, 12),  
  (3, 'AUSTRALIA', 3, 42, 123, 13),  
  (4, 'SOUTH AFRICA', 4, 22, 73, 14),  
  (5, 'ENGLAND', 5, 90, 763, 15),  
  (6, 'RUSSIA', 6, 88, 746, 16),  
  (7, 'SPAIN', 7, 34, 3545, 17),  
  (8, 'GERMANY', 8, 21, 636, 18);
```

```
/*!40000 ALTER TABLE `TEAMS` ENABLE KEYS */;
```

```
UNLOCK TABLES;
```