



Rizvi College of Engineering

Department of Computer Engineering

Mini Project Report

On

CRICKET WORLD CUP DATABASE

Third Year of Engineering

By

Hussain Painter (181P030)

Sumitkumar Maurya (181P027)

Guide:

Prof. Mansi Shah



University of Mumbai (2018-19)



Department of Computer Engineering
Rizvi College of Engineering,
Off Carter Road, Bandra (W), Mumbai - 400050.

Certificate

This is to certify that the project report entitled “**The Social Media System**” has been submitted by **Hussain Painter(30), Sumitkumar Maurya(27)**, under the guidance of **Prof. Mansi Shah** in partial fulfilment of the requirement for the award of the third year of Engineering in **Computer Engineering** from **University of Mumbai.**

Certified By

Prof. Mansi Shah

Project Guide

Content

Sr. No	Title	Page No.
1.	Abstract	2
2.	Introduction	3
3.	Requirement	4
4.	Implementation 4.1 ER Diagram 4.2 ER to RD 4.3 Schema 4.4 Query	5
5.	Conclusion	37
6.	Acknowledgement	38
7.	Reference	39

Abstract

CRICKET WORLD CUP DATABASE

Imagine getting all the information about the World Cup in one place, through this project we want to achieve exactly that. In this project we will create a database which will store data about every aspect of the World Cup with stats on the teams participating, matches played, umpires and also stats of batsmen, bowlers, wicketkeepers, captains, team-coaches, etc. Thus, we will hope to store and retrieve all the useful information about the World Cup in a database in an efficient manner from the database.

INTRODUCTION

What is a Cricket World Cup?

The **Cricket World Cup** (officially known as **ICC Men's Cricket World Cup**) is the international championship of One Day International (ODI) cricket. The event is organised by the sport's governing body, the International Cricket Council (ICC), every four years, with preliminary qualification rounds leading up to a finals tournament. The tournament is one of the world's most viewed sporting events and is considered the "flagship event of the international cricket calendar" by the ICC.^[2]

The first World Cup was organised in England in June 1975, with the first ODI cricket match having been played only four years earlier.

The current format involves a qualification phase, which takes place over the preceding three years, to determine which teams qualify for the tournament phase. In the tournament phase, 10 teams, including the automatically qualifying host nation, compete for the title at venues within the host nation over about a month.^[3] A total of twenty teams have competed in the eleven editions of the tournament, with ten teams competing in the recent 2019 tournament. Australia has won the tournament five times, India and West Indies twice each, while Pakistan, Sri Lanka and England have won it once each. The best performance by a non-full-member team came when Kenya made the semi-finals of the 2003 tournament.

England are the current champions after winning the 2019 edition. The next tournament will be held in India in 2023.

Why do we need a database for Cricket World Cup?

When there are sports, there are statistics. Same applies for Cricket. Cricket is a sport which has a lot of statistics and so there is a need to store these statistics so that we can access them any time we need in the future in a efficient manner. That is why we created a database that can store data about Teams, Players and Individual players in the database.

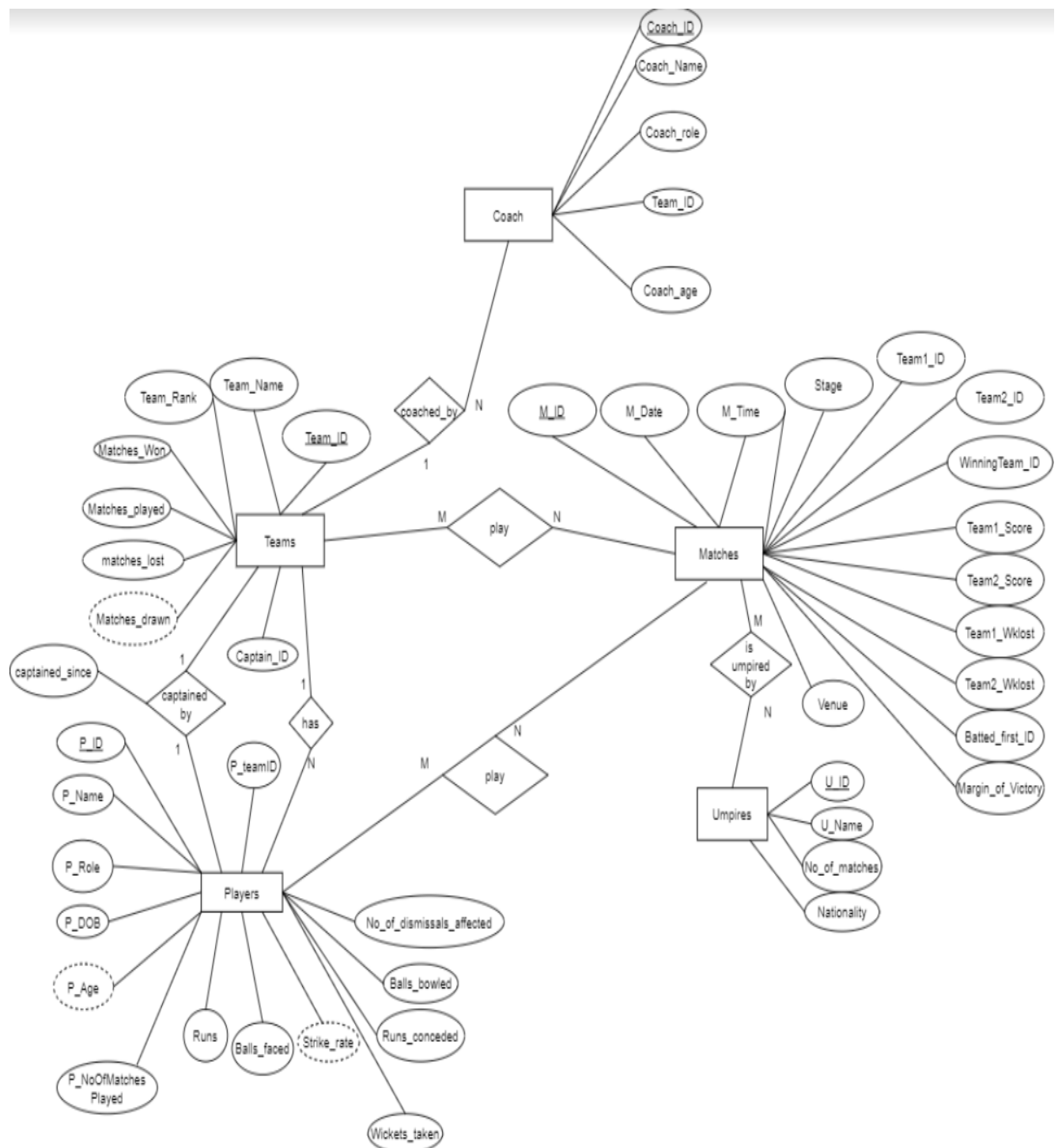
REQUIREMENT

The user should be able to:

- 1)See the matches and see the teams that played the match, the winning team, margin of victory and the umpires in the match*
- 2)See the Teams and their captains, total matches won and lost, Coaches.*
- 3)See the players and their stats like Runs Scored, Wickets taken, Strike Rate, Runs Conceded, Economy, balls faced, etc.*

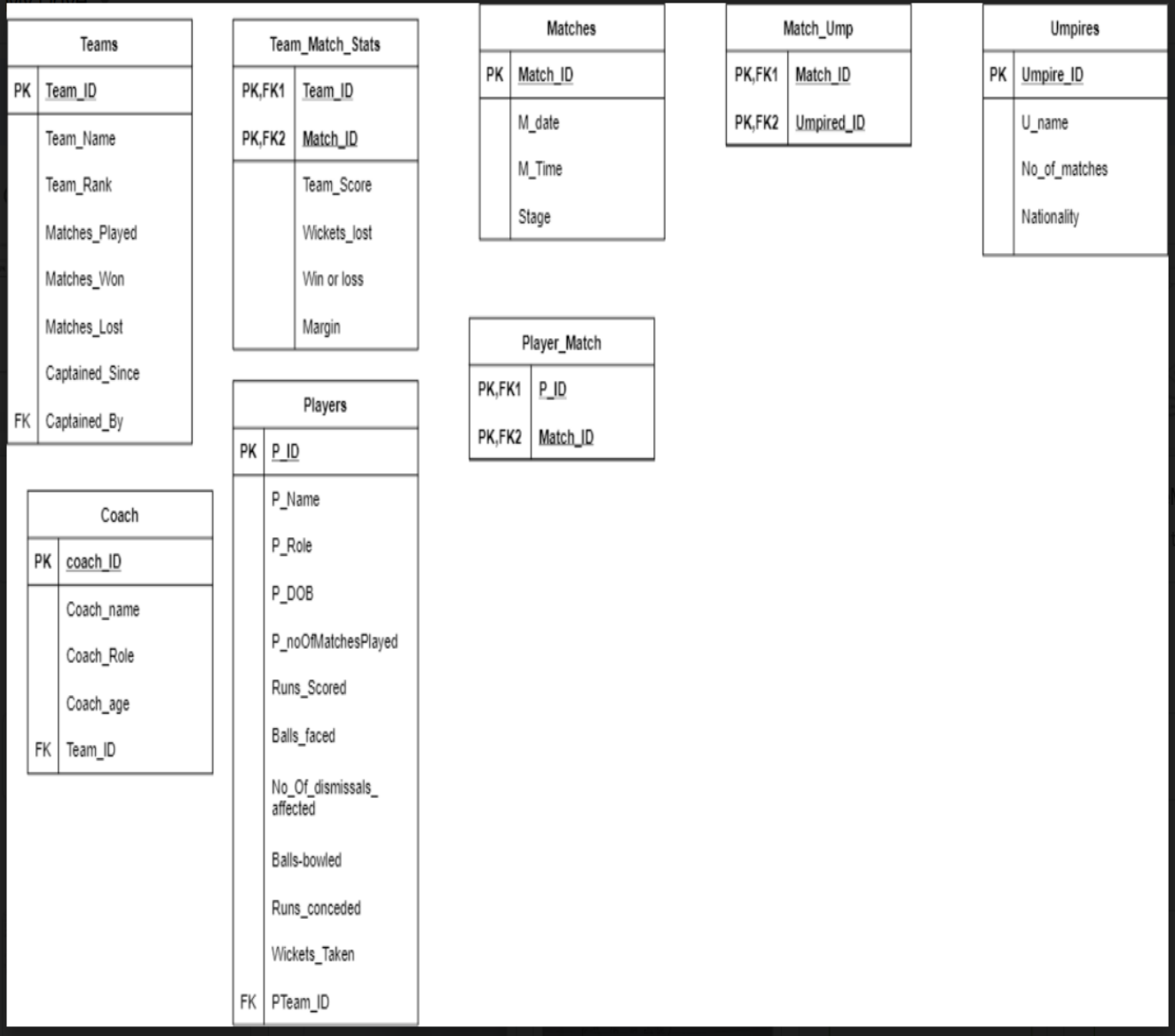
IMPLEMENTATION:

ER Diagram:



Relational Diagram:

My Drive



Schema

Database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associated. It formulates all the constraints that are to be applied on the data.

A database schema defines its entities and the relationship among them. It contains a descriptive detail of the database, which can be depicted by means of schema diagrams. It's the database designers who design the schema to help programmers understand the database and make it useful.

Database Instance

It is important that we distinguish these two terms individually. Database schema is the skeleton of database. It is designed when the database doesn't exist at all. Once the database is operational, it is very difficult to make any changes to it. A database schema does not contain any data or information.

A database instance is a state of operational database with data at any given time. It contains a snapshot of the database. Database instances tend to change with time. A DBMS ensures that its every instance (state) is in a valid state, by diligently following all the validations, constraints, and conditions that the database designers have imposed.

Data Definition Language (DDL):

#Creating Database and Tables

CREATE DATABASE CricketWorldCup;

use CricketWorldCup;

CREATE TABLE Teams(

Team_ID INT PRIMARY KEY auto_increment,

Team_Name VARCHAR(15),

Matches_Played INT,

Matches_Won INT,

Matches_Lost INT,

Captained_Since DATE,

Captained_by INT

);

CREATE TABLE player_match

(

P_ID INT,

Match_ID INT,

PRIMARY KEY(P_ID,Match_ID),

FOREIGN KEY(P_ID) REFERENCES Players(P_ID) ON DELETE
CASCADE ON UPDATE CASCADE,

FOREIGN KEY(Match_ID) REFERENCES Matches(Match_ID) ON
DELETE CASCADE ON UPDATE CASCADE

);

CREATE TABLE Players(

P_ID INT PRIMARY KEY auto_increment,

P_Role VARCHAR(10),

```

P_DOB DATE,
P_noOfMatchesPlayed INT,
Runs_Scored INT,
Balls_faced INT,
No_of_DismissalsAffected INT,
Balls_bowled INT,
Runs_Conceded INT,
Wickets_Taken INT,
PTeam_ID INT,
FOREIGN KEY(PTeam_ID) REFERENCES Teams(Team_ID) ON
UPDATE SET NULL ON DELETE SET NULL
);
ALTER TABLE Players ADD P_Name VARCHAR(20);
ALTER TABLE Teams ADD FOREIGN KEY(Captained_by)
REFERENCES Players(P_ID) ON UPDATE SET NULL ON
DELETE SET NULL;
CREATE TABLE Matches(
Match_ID INT PRIMARY KEY auto_increment,
M_datetime DATETIME,
Stage VARCHAR(15) CHECK(UCASE(Stage) IN ('GROUP
STAGE','QUARTER FINALS','SEMI FINALS','FINAL'))
);
CREATE TABLE Coach(
coach_ID INT PRIMARY KEY auto_increment,
Coach_name VARCHAR(20),
Coach_Role VARCHAR(10),


```

```
Coach_age INT,  
Team_ID INT,  
FOREIGN KEY(Team_ID) REFERENCES Teams(Team_ID)  
);
```

```
CREATE TABLE Team_Match_Stats(  
Team_ID INT,  
Match_ID INT,  
Team_Score INT,  
Wickets_Lost INT,  
Win_or_loss BOOLEAN,  
Margin VARCHAR(15),  
PRIMARY KEY(Team_ID,Match_ID),  
FOREIGN KEY(Team_ID) REFERENCES Teams(Team_ID) ON  
UPDATE CASCADE ON DELETE CASCADE,  
FOREIGN KEY(Match_ID) REFERENCES Matches(Match_ID) ON  
UPDATE CASCADE ON DELETE CASCADE  
);
```

```
CREATE TABLE Umpires(  
Umpire_ID INT PRIMARY KEY AUTO_INCREMENT,  
U_Name VARCHAR(20),  
No_of_Matches INT,  
Nationality VARCHAR(15)  
);
```

```
CREATE TABLE Match_Ump(  
    Ump_ID INT,  
    Match_ID INT,  
    PRIMARY KEY(Ump_ID, Match_ID),  
    FOREIGN KEY(Ump_ID) REFERENCES Umpires(Umpire_ID) ON  
    DELETE CASCADE ON UPDATE CASCADE,  
    FOREIGN KEY(Match_ID) REFERENCES Matches(Match_ID) ON  
    DELETE CASCADE ON UPDATE CASCADE  
);  
  
SHOW TABLES;
```

 c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe

```
Enter password: ****  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 143  
Server version: 8.0.22 MySQL Community Server - GPL  
  
Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> USE cricketworldcup;  
Database changed  
mysql> SHOW TABLES;  
+-----+  
| Tables_in_cricketworldcup |  
+-----+  
| coach  
| match_ump  
| matches  
| player_match  
| players  
| team_match_stats  
| teams  
| umpires  
+-----+  
8 rows in set (1.64 sec)  
  
mysql> █
```

QUERIES:

GET THE WINNER OF THE FINAL MATCH:

```
SELECT Team_Name FROM Teams t INNER JOIN team_match_stats tm ON  
t.Team_ID = tm.Team_ID WHERE Match_ID=3 AND Win_or_loss=1;
```

The screenshot shows a SQL query editor with the following query:

```
137 • SELECT Team_Name FROM Teams t INNER JOIN team_match_stats tm ON t.Team_ID = tm.Team_ID WHERE Match_ID=3 AND Win_or_loss=1;
```

Below the query editor, there is a toolbar with options: Result Grid, Filter Rows, Export, and Wrap Cell Content. The Result Grid is displayed, showing the following data:

Team_Name
ENGLAND

GET THE LOSER OF THE FINAL MATCH:

```
SELECT Team_Name FROM Teams t INNER JOIN team_match_stats tm ON  
t.Team_ID = tm.Team_ID WHERE Match_ID=3 AND Win_or_loss=0;
```

The screenshot shows a SQL query editor with the following query:

```
138 • SELECT Team_Name FROM Teams t INNER JOIN team_match_stats tm ON t.Team_ID = tm.Team_ID WHERE Match_ID=3 AND Win_or_loss=0;
```

Below the query editor, there is a toolbar with options: Result Grid, Filter Rows, Export, and Wrap Cell Content. The Result Grid is displayed, showing the following data:

Team_Name
NEW ZEALAND

GET THE TWO SEMIFINALISTS:

```
SELECT Team_Name FROM Teams t INNER JOIN
team_match_stats tm ON t.Team_ID = tm.Team_ID WHERE
(Match_ID=2 OR Match_ID=1) AND Win_or_loss=0;
```

```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 147
Server version: 8.0.22 MySQL Community Server - GPL

Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> USE cricketworldcup;
Database changed
mysql> SELECT Team_Name FROM Teams t INNER JOIN team_match_stats tm ON t.Team_ID = tm.Team_ID WHERE (Match_ID=2 OR Match_ID=1) AND Win_or_loss=0;
+-----+
| Team_Name |
+-----+
| INDIA     |
| AUSTRALIA |
+-----+
2 rows in set (0.10 sec)

mysql>
```


GET THE WINNER AND MARGIN OF VICTORY OF THE FIRST SEMIFINAL:

```
SELECT Team_Name,Margin FROM Teams t INNER JOIN team_match_stats tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=1 AND Win_or_loss=1;
```

```
mysql> SELECT Team_Name,Margin FROM Teams t INNER JOIN team_match_stats tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=1 AND Win_or_loss=1;
+-----+-----+
| Team_Name | Margin |
+-----+-----+
| NEW ZEALAND | 18 RUNS |
+-----+-----+
1 row in set (0.00 sec)

mysql>
```

GET THE LOSER OF THE FIRST SEMIFINAL:

```
SELECT Team_Name FROM Teams t INNER JOIN  
team_match_stats tm ON t.Team_ID=tm.Team_ID WHERE  
Match_ID=1 AND Win_or_loss=0;
```

```
mysql> SELECT Team_Name FROM Teams t INNER JOIN team_match_stats tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=1 AND Win_or_loss=0;  
+-----+  
| Team_Name |  
+-----+  
| INDIA     |  
+-----+  
1 row in set (0.00 sec)  
  
mysql>
```

GET THE DATETIME AND STAGE OF THE FIRST SEMIFINAL

```
SELECT M_datetime,Stage FROM Matches WHERE Match_ID=1;
```

```
mysql> SELECT M_datetime,Stage FROM Matches WHERE Match_ID=1;  
+-----+-----+  
| M_datetime          | Stage          |  
+-----+-----+  
| 2019-07-10 10:30:00 | SEMI FINALS    |  
+-----+-----+  
1 row in set (0.06 sec)  
  
mysql> _
```

GET THE HIGHEST RUN SCORERS IN THE TOURNAMENT

SELECT P_Name,P_Role,Runs_Scored FROM Players WHERE Runs_Scored>100 order by Runs_Scored DESC;

```
mysql> SELECT P_Name,P_Role,Runs_Scored FROM Players WHERE Runs_Scored>100 order by Runs_Scored DESC;
```

P_Name	P_Role	Runs_Scored
David Warner	BATSMAN	650
Rohit Sharma	BATSMAN	648
Steve Smith	BATSMAN	590
Jason Roy	BATSMAN	510
Kane Williamson	BATSMAN	510
Joe Root	BATSMAN	505
Aaron Finch	BATSMAN	500
Martin Gaptill	BATSMAN	480
Tom Latham	W-K	450
Virat Kohli	BATSMAN	442
Jos Buttler	W-K	420
Jonny Bairstow	W-K	400
Ross Taylor	BATSMAN	400
Ben Stokes	A-R	315
Glenn Maxwell	A-R	300
Eoin Morgan	BATSMAN	300
Jimmy Neesham	A-R	300
Marcus Stoinis	A-R	290
Dinesh Karthik	W-K	280
MS Dhoni	W-K	273
Henry Nicholls	BATSMAN	270
KL Rahul	BATSMAN	270
Alex Carry	W-K	200
Colin de Grandhomme	A-R	200
Hardik Pandya	A-R	150
Chris Woakes	A-R	150
Peter Handscomb	BATSMAN	130
Rishabh Pant	BATSMAN	116
Mitchell Santner	A-R	110

29 rows in set (0.04 sec)

```
mysql>
```

GET THE HIGHEST WICKET TAKERS:

SELECT P_Name,P_Role,Wickets_Taken FROM Players WHERE Wickets_Taken>5 order by Wickets_Taken DESC;

```
mysql> SELECT P_Name,P_Role,Wickets_Taken FROM Players WHERE Wickets_Taken>5 order by Wickets_Taken DESC;
```

P_Name	P_Role	Wickets_Taken
Mitchell Starc	BOWLER	20
Joffra Archer	BOWLER	20
Bhuvneshwar Kumar	BOWLER	19
Jasprit Bumrah	BOWLER	18
Trent Boult	BOWLER	17
Jason Behrendorff	BOWLER	15
Lockie Ferguson	BOWLER	15
Mitchell Santner	A-R	15
Nathan Lyon	BOWLER	14
Ben Stokes	A-R	14
Mark Wood	BOWLER	14
Jimmy Neesham	A-R	13
Yuzvendra Chahal	BOWLER	12
Adil Rashid	BOWLER	12
Matt Henry	BOWLER	11
Colin de Grandhomme	A-R	11
Hardik Pandya	A-R	10
Liam Plunkett	BOWLER	10
Pat Cummins	BOWLER	10

```
19 rows in set (0.00 sec)
```

```
mysql>
```

GET THE PLAYERS WHO AFFECTED THE MOST DISMISSALS (CATCH/RUN OUT/STUMPING):

SELECT P_Name,P_Role,No_of_DismissalsAffected FROM Players
WHERE No_of_DismissalsAffected>3 order by
No_of_DismissalsAffected DESC;

```
mysql> SELECT P_Name,P_Role,No_of_DismissalsAffected FROM Players WHERE No_of_DismissalsAffected>3 order by No_of_DismissalsAffected DESC;
```

P_Name	P_Role	No_of_DismissalsAffected
Alex Carry	W-K	20
Jos Buttler	W-K	15
MS Dhoni	W-K	10
Jonny Bairstow	W-K	10
Tom Latham	W-K	10
Peter Handscomb	BATSMAN	10
Hardik Pandya	A-R	8
Jason Roy	BATSMAN	8
Glenn Maxwell	A-R	7
Eoin Morgan	BATSMAN	7
Ravindra Jadeja	A-R	7
Virat Kohli	BATSMAN	6
Aaron Finch	BATSMAN	5
Mitchell Starc	BOWLER	5
David Warner	BATSMAN	5
Steve Smith	BATSMAN	5
Marcus Stoinis	A-R	5
Joffra Archer	BOWLER	5
Martin Guptill	BATSMAN	5
Lockie Ferguson	BOWLER	5
Ross Taylor	BATSMAN	5
Rohit Sharma	BATSMAN	4
Yuzvendra Chahal	BOWLER	4
Bhuvneshwar Kumar	BOWLER	4
Liam Plunkett	BOWLER	4
Adil Rashid	BOWLER	4
Ben Stokes	A-R	4
Joe Root	BATSMAN	4

```
28 rows in set (0.00 sec)
```

```
mysql> _
```

GET THE PLAYERS WITH THE BEST ECONOMIES:

```
SELECT P_Name,P_Role,Runs_Conceded/Balls_bowled*6  
Economy FROM Players WHERE Balls_bowled>18 ORDER BY  
Economy;
```

```
mysql> SELECT P_Name,P_Role,Runs_Conceded/Balls_bowled*6 Economy FROM Players WHERE Balls_bowled>18 ORDER BY Economy;
```

P_Name	P_Role	Economy
Chris Woakes	A-R	2.2154
Mitchell Starc	BOWLER	3.8889
Jason Behrendorff	BOWLER	4.3750
Jasprit Bumrah	BOWLER	4.4167
Bhuvneshwar Kumar	BOWLER	4.4444
Matt Henry	BOWLER	4.5231
Joffra Archer	BOWLER	5.0000
Lockie Ferguson	BOWLER	5.0000
Mark Wood	BOWLER	5.3077
Liam Plunkett	BOWLER	5.3333
Jimmy Neesham	A-R	5.4545
Ben Stokes	A-R	5.5000
Mitchell Santner	A-R	5.5000
Hardik Pandya	A-R	5.6000
Pat Cummins	BOWLER	5.7778
Adil Rashid	BOWLER	5.8000
Nathan Lyon	BOWLER	5.8824
Trent Boult	BOWLER	5.9000
Yuzvendra Chahal	BOWLER	5.9730
Marcus Stoinis	A-R	6.0000
Ravindra Jadeja	A-R	6.2500
Glenn Maxwell	A-R	6.6667
Colin de Grandhomme	A-R	6.6667

```
23 rows in set (0.02 sec)
```

```
mysql>
```

BEST STRIKE RATES:

```
SELECT P_Name,P_Role,Runs_Scored/Balls_faced*100 AS SR
FROM Players WHERE Balls_faced>18 ORDER BY SR DESC;
```

```
23 rows in set (0.02 sec)

mysql> SELECT P_Name,P_Role,Runs_Scored/Balls_faced*100 AS SR FROM Players WHERE Balls_faced>18 ORDER BY SR DESC;
```

P_Name	P_Role	SR
Hardik Pandya	A-R	150.0000
Ravindra Jadeja	A-R	133.3333
Joffra Archer	BOWLER	125.0000
Glenn Maxwell	A-R	120.0000
Eoin Morgan	BATSMAN	120.0000
Chris Woakes	A-R	111.1111
Jos Buttler	W-K	111.1111
Jimmy Neesham	A-R	111.1111
Ben Stokes	A-R	106.7797
Jonny Bairstow	W-K	105.2632
David Warner	BATSMAN	104.8387
Aaron Finch	BATSMAN	102.0408
Joe Root	BATSMAN	102.0202
Jason Roy	BATSMAN	102.0000
Tom Latham	W-K	101.1236
Ross Taylor	BATSMAN	100.7557
Rohit Sharma	BATSMAN	98.3308
Martin Guptill	BATSMAN	97.9592
Marcus Stoinis	A-R	96.6667
Peter Handscomb	BATSMAN	96.2963
Colin de Grandhomme	A-R	95.2381
Virat Kohli	BATSMAN	94.0426
Steve Smith	BATSMAN	93.6508
Kane Williamson	BATSMAN	92.7273
Rishabh Pant	BATSMAN	89.2308
MS Dhoni	W-K	87.7814
Dinesh Karthik	W-K	87.5000
Henry Nicholls	BATSMAN	87.0968
KL Rahul	BATSMAN	87.0968
Pat Cummins	BOWLER	85.7143
Mark Wood	BOWLER	85.7143
Mitchell Santner	A-R	84.6154
Alex Carry	W-K	80.0000
Adil Rashid	BOWLER	80.0000
Jason Behrendorff	BOWLER	66.6667
Mitchell Starc	BOWLER	60.0000

```
36 rows in set (0.00 sec)

mysql>
```

TRIGGERS:

Used to bypass the foreign key violations which would occur when inserting a team captain into players table when the team doesn't exist yet

```
DELIMITER $$
```

```
CREATE TRIGGER Team_Captain
```

```
AFTER INSERT ON Teams
```

```
FOR EACH ROW
```

```
BEGIN
```

```
UPDATE Players SET PTeam_ID=NEW.Team_ID
```

```
WHERE Pteam_ID=NULL;
```

```
END$$
```

```
DELIMITER ;
```


Update Teams stats after new team_match_stats record is created

DELIMITER \$\$

CREATE TRIGGER Team_stats_update

AFTER INSERT ON team_match_stats

FOR EACH ROW

BEGIN

UPDATE Teams SET Matches_Played=Matches_Played+1 WHERE
Team_ID=NEW.Team_ID;

IF NEW.Win_or_loss=1

THEN UPDATE Teams SET Matches_Won=Matches_Won+1
WHERE Team_ID=NEW.Team_ID;

ELSE

UPDATE Teams SET Matches_Lost=Matches_Lost+1 WHERE
Team_ID=NEW.Team_ID;

END IF;

END\$\$

DELIMITER ;

Update no of matches played by player after every entry into player_match table

```
DELIMITER $$  
CREATE TRIGGER Player_match_update  
AFTER INSERT ON player_match  
FOR EACH ROW  
BEGIN  
UPDATE Players SET  
P_noOfMatchesPlayed=P_noOfMatchesPlayed+1  
WHERE P_ID=NEW.P_ID;  
END$$  
DELIMITER ;
```

WEB APP

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <title></title>
        <meta name="description" content="">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <link rel="stylesheet" href="main.css">
    </head>
    <body>
        <h1 align='center'>CRICKET WORLD CUP</h1>

        <?php
            include 'db.php';
            $conn = new mysqli($servername, $username, $password, $dbname);
            if ($conn->connect_error)
            {
                die("Connection failed :(");
            }
        ?>
        <div>
            <a href='#Teams'>Teams</a>&nbsp;&nbsp;&nbsp;
            <a href='#matches'>Matches</a>&nbsp;&nbsp;&nbsp;
            <a href='#Most_Runs'>Most Runs</a>&nbsp;&nbsp;&nbsp;
            <a href='#Most_Wickets'>Most Wickets</a>&nbsp;&nbsp;&nbsp;
            <a href='#Most_Dismissals'>Most Dismissals</a>&nbsp;&nbsp;&nbsp;
            <a href='#Strike-Rate'>Strike-Rate</a>&nbsp;&nbsp;&nbsp;
            <a href='#Economy'>Economy</a>&nbsp;&nbsp;&nbsp;
            <div id='Teams'>
                <h2>TEAMS</h2>
                </div>
                <table color="Black" cellpadding="10%" id="Teams">
                    <tr bgcolor="Blue">

                        <th><font color="White">TEAM NAME</font></th>
                        <th><font color="White">POSITION</font></th>
                        <th><font color="White">COACH NAME</font></th>
                        <th><font color="White">CAPTAIN NAME</font></th>

                    </tr>

                    <?php
                        //Display Teams

                        $sql='SELECT Team_Name FROM Teams t INNER JOIN team_match_stats
tm ON t.Team ID = tm.Team ID WHERE Match ID=3 AND Win or loss=1;';
```

```

$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $team_name=$row['Team_Name'];
        echo("<tr bgcolor='White'>
        <td>$team_name</td>
        <td><font color='Black'>CHAMPIONS</font></td>
        ");
    }
}
$sql='SELECT Coach_name FROM Coach WHERE Team_ID=(SELECT Team_ID
FROM team_match_stats WHERE Match_ID=3 AND Win_or_loss=1)';
$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $coach = $row['Coach_name'];
        echo("<td>$coach</td>");
    }
}
$sql='SELECT P_Name FROM Players WHERE P_ID=(SELECT Captained_by
FROM Teams WHERE Team_ID=(SELECT Team_ID FROM team_match_stats WHERE Match_ID
=3 AND Win_or_loss=1))';
$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $name = $row['P_Name'];
        echo ("<td>$name</td></tr>");
    }
}
$sql='SELECT Team_Name FROM Teams t INNER JOIN team_match_stats
tm ON t.Team_ID = tm.Team_ID WHERE Match_ID=3 AND Win_or_loss=0';
$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $team_name=$row['Team_Name'];
        echo("<tr bgcolor='White'>
        <td>$team_name</td>
        <td><font color='Black'>RUNNERS-UP</font></td>

```

```

        ");
    }
}
$sql='SELECT Coach_name FROM Coach WHERE Team_ID=(SELECT Team_ID
FROM team_match_stats WHERE Match_ID=3 AND Win_or_loss=0)';
$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $coach = $row['Coach_name'];
        echo("<td>$coach</td>");

    }
}
$sql='SELECT P_Name FROM Players WHERE P_ID=(SELECT Captained_by
FROM Teams WHERE Team_ID=(SELECT Team_ID FROM team_match_stats WHERE Match_ID
=3 AND Win_or_loss=0))';
$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $name = $row['P_Name'];
        echo("<td>$name</td></tr>");

    }
}
$sql='SELECT Team_Name FROM Teams t INNER JOIN team_match_stats
tm ON t.Team_ID = tm.Team_ID WHERE Match_ID=2 AND Win_or_loss=0';
$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $team_name=$row['Team_Name'];
        echo("<tr bgcolor='White'>
<td>$team_name</td>
<td><font color='Black'>SEMI FINALS</font></td>
");

    }
}
$sql='SELECT Coach_name FROM Coach WHERE Team_ID=(SELECT Team_ID
FROM team_match_stats WHERE Match_ID=2 AND Win_or_loss=0)';
$result=$conn->query($sql);
if ($result->num_rows>0)
{

```

```

        while ($row = $result->fetch_assoc())
        {
            $coach = $row['Coach_name'];
            echo("<td>$coach</td>");

        }
    }
    $sql='SELECT P_Name FROM Players WHERE P_ID=(SELECT Captained_by
FROM Teams WHERE Team_ID=(SELECT Team_ID FROM team_match_stats WHERE Match_ID
=2 AND Win_or_loss=0));';
    $result=$conn->query($sql);
    if ($result->num_rows>0)
    {
        while ($row = $result->fetch_assoc())
        {
            $name = $row['P_Name'];
            echo("<td>$name</td></tr>");

        }
    }
    $sql='SELECT Team_Name FROM Teams t INNER JOIN team_match_stats
tm ON t.Team_ID = tm.Team_ID WHERE Match_ID=1 AND Win_or_loss=0';
    $result=$conn->query($sql);
    if ($result->num_rows>0)
    {
        while ($row = $result->fetch_assoc())
        {
            $team_name=$row['Team_Name'];
            echo("<tr bgcolor='White'>
<td>$team_name</td>
<td><font color='Black'>SEMI FINALS</font></td>
");

        }
    }
    $sql='SELECT Coach_name FROM Coach WHERE Team_ID=(SELECT Team_ID
FROM team_match_stats WHERE Match_ID=1 AND Win_or_loss=0);';
    $result=$conn->query($sql);
    if ($result->num_rows>0)
    {
        while ($row = $result->fetch_assoc())
        {
            $coach = $row['Coach_name'];
            echo("<td>$coach</td>");

        }
    }
}

```

```

        $sql='SELECT P_Name FROM Players WHERE P_ID=(SELECT Captained_by
FROM Teams WHERE Team_ID=(SELECT Team_ID FROM team_match_stats WHERE Match_ID
=1 AND Win_or_loss=0));';
        $result=$conn->query($sql);
        if ($result->num_rows>0)
        {
            while ($row = $result->fetch_assoc())
            {
                $name = $row['P_Name'];
                echo("<td>$name</td></tr>");
            }
        }

?>
</table>
</div>
<div id="matches">
<h2>MATCHES</h2>
<table color="Black" cellpadding="10%" id='Match'>
<tr bgcolor="Blue">

        <th><font color="White">WINNING TEAM</font></th>
        <th><font color="White">MARGIN</font></th>
        <th><font color="White">DATE AND TIME</font></th>
        <th><font color="White">DEFEATED TEAM</font></th>
        <th><font color="White">STAGE</font></th>
        <th><font color="White">UMPIRE 1</font></th>
        <th><font color="White">UMPIRE 2</font></th>
        <th><font color="White">UMPIRE 3</font></th>
        <th><font color="White">UMPIRE 4</font></th>

</tr>
<?php

        $sql='SELECT Team_Name,Margin FROM Teams t INNER JOIN
team_match_stats tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=1 AND Win_or_loss=1
';

        $result = $conn->query($sql);
        if ($result->num_rows>0)
        {
            while ($row = $result->fetch_assoc())
            {
                $team_name = $row['Team_Name'];
                $margin = $row['Margin'];
                echo("<tr bgcolor='White'>
                <td>$team_name</td>
                <td>$margin</td>");
            }
        }
    }
}

```

```

    }

}

$sql='SELECT M_datetime FROM Matches WHERE Match_ID=1';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $datetime = $row['M_datetime'];
        echo("<td>$datetime</td>");

    }

}

$sql='SELECT Team_Name FROM Teams t INNER JOIN team_match_stat
s tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=1 AND Win_or_loss=0;';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $team_name = $row['Team_Name'];

        echo("<td>$team_name</td>");

    }

}

$sql='SELECT Stage FROM Matches WHERE Match_ID=1';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $Stage = $row['Stage'];
        echo("<td>$Stage</td>");

    }

}

$sql='SELECT U_Name FROM Umpires u INNER JOIN match_ump mu ON
u.Umpire_ID=mu.Ump_ID INNER JOIN matches m ON m.Match_ID=mu.Match_ID WHERE m.M
atch_ID=1;';

$result=$conn->query($sql);
if ($result->num_rows>0)

```



```

        {
            while ($row = $result->fetch_assoc())
            {
                $uName=$row['U_Name'];
                echo("<td>$uName</td>");
            }
            echo("</tr>");
        }

        $sql='SELECT Team_Name,Margin FROM Teams t INNER JOIN team_mat
ch_stats tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=2 AND Win_or_loss=1;';
        $result = $conn->query($sql);
        if ($result->num_rows>0)
        {
            while ($row = $result->fetch_assoc())
            {
                $team_name = $row['Team_Name'];
                $margin = $row['Margin'];
                echo("<tr bgcolor='White'>
<td>$team_name</td>
<td>$margin</td>");
            }
        }

        $sql='SELECT M_datetime FROM Matches WHERE Match_ID=2';
        $result = $conn->query($sql);
        if ($result->num_rows>0)
        {
            while ($row = $result->fetch_assoc())
            {
                $datetime = $row['M_datetime'];
                echo("<td>$datetime</td>");
            }
        }

        $sql='SELECT Team_Name FROM Teams t INNER JOIN team_match_stat
s tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=2 AND Win_or_loss=0;';
        $result = $conn->query($sql);
        if ($result->num_rows>0)
        {
            while ($row = $result->fetch_assoc())
            {
                $team_name = $row['Team_Name'];

```

```

        echo("<td>$team_name</td>");

    }

}

$sql='SELECT Stage FROM Matches WHERE Match_ID=2';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $Stage = $row['Stage'];
        echo("<td>$Stage</td>");

    }

}

$sql='SELECT U_Name FROM Umpires u INNER JOIN match_ump mu ON
u.Umpire_ID=mu.Ump_ID INNER JOIN matches m ON m.Match_ID=mu.Match_ID WHERE m.M
atch_ID=2;';

$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $uName=$row['U_Name'];
        echo("<td>$uName</td>");
    }
    echo("</tr>");
}

$sql='SELECT Team_Name,Margin FROM Teams t INNER JOIN team_mat
ch_stats tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=3 AND Win_or_loss=1;';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $team_name = $row['Team_Name'];
        $margin = $row['Margin'];
        echo("<tr bgcolor='White'>
        <td>$team_name</td>
        <td>$margin</td>");

    }

}

}

```

```

$sql='SELECT M_datetime FROM Matches WHERE Match_ID=3';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $datetime = $row['M_datetime'];
        echo("<td>$datetime</td>");

    }
}

$sql='SELECT Team_Name FROM Teams t INNER JOIN team_match_stat
s tm ON t.Team_ID=tm.Team_ID WHERE Match_ID=3 AND Win_or_loss=0;';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $team_name = $row['Team_Name'];

        echo("<td>$team_name</td>");

    }
}

$sql='SELECT Stage FROM Matches WHERE Match_ID=3';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $Stage = $row['Stage'];
        echo("<td>$Stage</td>");

    }
}

$sql='SELECT U_Name FROM Umpires u INNER JOIN match_ump mu ON
u.Umpire_ID=mu.Ump_ID INNER JOIN matches m ON m.Match_ID=mu.Match_ID WHERE m.M
atch_ID=3;';

$result=$conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $uName=$row['U_Name'];
        echo("<td>$uName</td>");
    }
}

```

```

    }
    echo("</tr>");
}

?>
</table>
<h2>PLAYER STATS</h2>
<h3 id='Most_Runs'>MOST RUNS</h3>
<table color="Black" cellpadding="10%">
<tr bgcolor="Blue">

    <th><font color="White">NAME</font></th>
    <th><font color="White">ROLE</font></th>
    <th><font color="White">RUNS SCORED</font></th>
</tr>

<?php
    $sql='SELECT P_Name,P_Role,Runs_Scored FROM Players WHERE Runs_S
cored>100 order by Runs_Scored DESC';
    $result = $conn->query($sql);
    if ($result->num_rows>0)
    {
        while ($row = $result->fetch_assoc())
        {
            $name=$row['P_Name'];
            $role=$row['P_Role'];
            $Runs=$row['Runs_Scored'];
            echo("<tr bgcolor='White'>
                <td>$name</td>
                <td>$role</td>
                <td>$Runs</td>
                </tr>");
        }
    }
?>
</table>
<h3 id='Most_Wickets'>Most Wickets</h3>
<table color="Black" cellpadding="10%" >
<tr bgcolor="Blue">

    <th><font color="White">NAME</font></th>
    <th><font color="White">ROLE</font></th>
    <th><font color="White">WICKETS TAKEN</font></th>
</tr>

<?php

```

```

        $sql='SELECT P_Name,P_Role,Wickets_Taken FROM Players WHERE Wickets_Taken>5 order by Wickets_Taken DESC;';
        $result = $conn->query($sql);
        if ($result->num_rows>0)
        {
            while ($row = $result->fetch_assoc())
            {
                $name=$row['P_Name'];
                $role=$row['P_Role'];
                $wickets=$row['Wickets_Taken'];
                echo("<tr bgcolor='White'>
                    <td>$name</td>
                    <td>$role</td>
                    <td>$wickets</td>
                    </tr>");
            }
        }
    ?>
</table>
<h3 id='Most_Dismissals'>Most Dismissals Affected</h3>
<table color="Black" cellpadding="10%" >
<tr bgcolor="Blue">

        <th><font color="White">NAME</font></th>
        <th><font color="White">ROLE</font></th>
        <th><font color="White">DISMISSALS AFFECTED</font></th>
    </tr>

    <?php
        $sql='SELECT P_Name,P_Role,No_of_DismissalsAffected FROM Players
WHERE No_of_DismissalsAffected>3 order by No_of_DismissalsAffected DESC;';
        $result = $conn->query($sql);
        if ($result->num_rows>0)
        {
            while ($row = $result->fetch_assoc())
            {
                $name=$row['P_Name'];
                $role=$row['P_Role'];
                $dismissalsAffected=$row['No_of_DismissalsAffected'];
                echo("<tr bgcolor='White'>
                    <td>$name</td>
                    <td>$role</td>
                    <td>$dismissalsAffected</td>
                    </tr>");
            }
        }
    }

```

```

?>
</table>

<h3 id='Strike-Rate'>BEST STRIKE RATE</h3>
<table color="Black" cellpadding="10%" >
<tr bgcolor="Blue">

    <th><font color="White">NAME</font></th>
    <th><font color="White">ROLE</font></th>
    <th><font color="White">STRIKE RATE</font></th>
</tr>

<?php
$sql='SELECT P_Name,P_Role,Runs_Scored/Balls_faced*100 AS SR FRO
M Players WHERE Balls_faced>18 ORDER BY SR DESC;';
$result = $conn->query($sql);
if ($result->num_rows>0)
{
    while ($row = $result->fetch_assoc())
    {
        $name=$row['P_Name'];
        $role=$row['P_Role'];
        $SR=$row['SR'];
        echo("<tr bgcolor='White'>
            <td>$name</td>
            <td>$role</td>
            <td>$SR</td>
            </tr>");
    }
}
?>
</table>

<h3 id='Economy'>BEST ECONOMY</h3>
<table color="Black" cellpadding="10%" >
<tr bgcolor="Blue">

    <th><font color="White">NAME</font></th>
    <th><font color="White">ROLE</font></th>
    <th><font color="White">ECONOMY</font></th>
</tr>

<?php
$sql='SELECT P_Name,P_Role,Runs_Conceded/Balls_bowled*6 Economy
FROM Players WHERE Balls_bowled>18 ORDER BY Economy;';
$result = $conn->query($sql);
if ($result->num_rows>0)

```

```
{
    while ($row = $result->fetch_assoc())
    {
        $name=$row['P_Name'];
        $role=$row['P_Role'];
        $eco=$row['Economy'];
        echo("<tr bgcolor='White'>
            <td>$name</td>
            <td>$role</td>
            <td>$eco</td>
            </tr>");
    }
}
?>
</table>

</body>
</html>
```

CONCLUSION

Thus through completing this project we furthered our understanding of Database Management Systems, Database design, and MySQL. We also learnt to create a webapp using PHP and connecting it with Database and firing queries and getting results from the Database.

ACKNOWLEDGEMENT

We would like to offer our sincere gratitude to Prof. Mansi Shah for not only teaching us DBMS and providing us with necessary knowledge to work on this project, but also offering us guidance when required. We would also like to thank other professors of our college who helped us and guided us so that we could complete this project.

REFERENCES:

FreeCodeCamp : <https://www.freecodecamp.org/>

W3schools: <https://www.w3schools.com/>

Geeksforgeeks: www.geeksforgeeks.org

MySQLdocs: <https://dev.mysql.com/doc/>

Tutorialspoint: <https://www.tutorialspoint.com/sql/index.html>