

# DATABASE MANAGEMENT SYSTEM

## Cricket score card

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### **INTRODUCTION**

Cricket score card – A database system to keep track of cricket tournament statistics

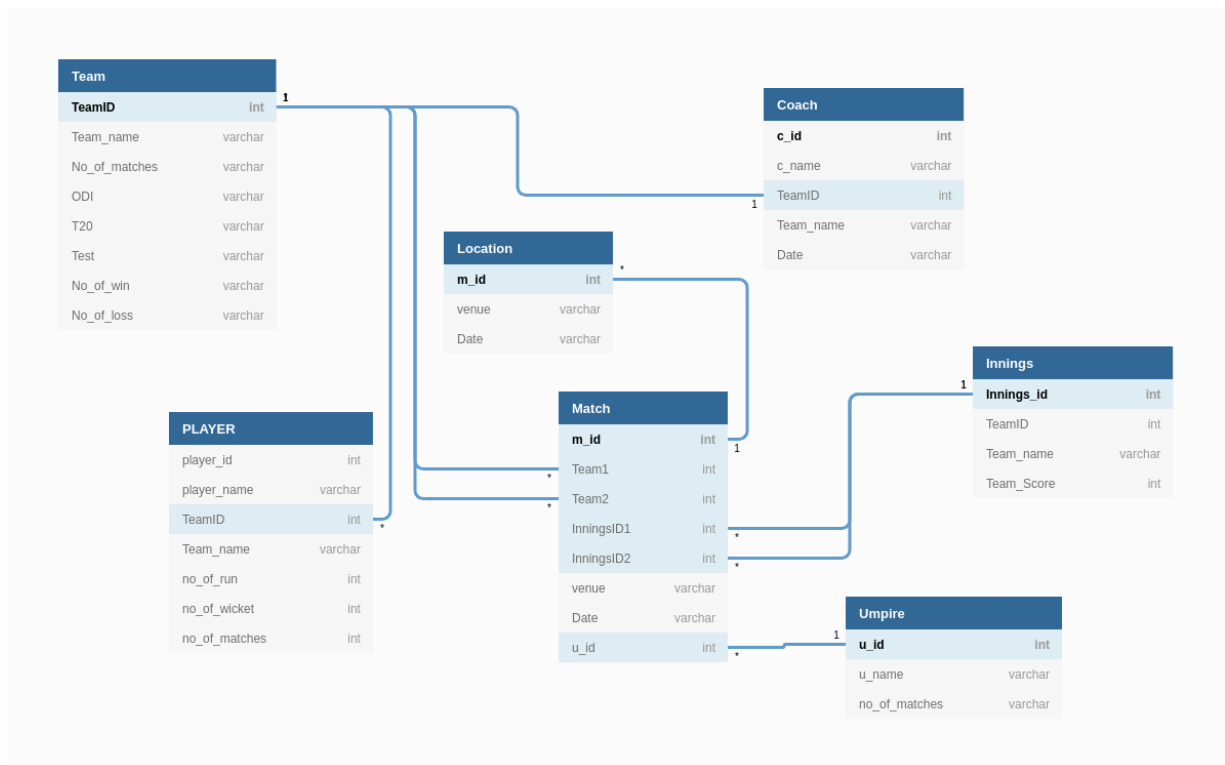
### **OBJECTIVES**

- Maintain record of team score
- Maintain record of individual player performance
- Maintain record of matches in tournaments( win/loss )
- Maintain ranking of teams in tournament
- Creation, Maintenance, modifying of details about the teams and players

### **FUNCTIONAL REQUIREMENTS**

- The system is able to keep track of all matches records.
- The performances of players in the team are updated in accordance to matches.
- The system is able to find out winner team and loser team and also records individual performance of players.

### **ER DIAGRAM:**



## OUTPUT:

```
mysql> use cricket_sc
Database changed
mysql> show tables;
+-----+
| Tables_in_cricket_sc |
+-----+
| coach                  |
| player                 |
| result                 |
| team                   |
| umpire                 |
+-----+
5 rows in set (0.00 sec)
```

Tables created

```
mysql> select *from coach;
+-----+-----+-----+
| C_id | C_name          | TeamID |
+-----+-----+-----+
| 1    | Rahul dravid    | 1      |
| 2    | Ricky pointing  | 2      |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

Each team will have a different coach

```
mysql> select *from player;
+-----+-----+-----+-----+-----+-----+-----+
| player_id | TeamID | playername | noofmatches | noofruns | noofwickets | jersey |
+-----+-----+-----+-----+-----+-----+-----+
| 1          | 1      | Virat      | 20           | 100      | 3           | 18     |
| 2          | 1      | Rohit      | 20           | 150      | 5           | 45     |
| 3          | 2      | Smith      | 15           | 120      | 2           | 49     |
| 4          | 2      | Warner     | 15           | 130      | 1           | 31     |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

No of matches , no of runs , no of wickets of a player increases every time a new match is played .

```
mysql> select *from team;
+-----+-----+-----+-----+-----+-----+-----+
| TeamID | Team_name | NoOfWin | NoOfLoss | NoOfMatches | ODI | T20 | Test |
+-----+-----+-----+-----+-----+-----+-----+
|      1 | INDIA     | 15      | 5        | 20          | 5   | 10  | 5    |
|      2 | AUSTRALIA | 10      | 5        | 15          | 5   | 5   | 5    |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Result of the match is calculated by:

Team1 score = Player1 score+ player2 score

Team2 score = Player3 score +player4 score

If Team 1 score > Team2 score

Team 1 is winner.

```
mysql> select *from umpire;
+-----+-----+-----+
| u_id | u_name      | no_of_matches |
+-----+-----+-----+
|      1 | Kettleborough | 1 |
|      2 | Illingworth   | 0 |
|      3 | Nithin menon  | 0 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

Single umpire is selected for a match

Set of Functional dependencies that must hold on each table.

- Team(Team\_name) → Team(TeamID, NoOfWin, NoOfLoss, ODI, T20, Test)
- PLAYER(TeamID, jersey\_no) → player(Player\_name, Batting, Bowling, No\_of\_matches)

- RESULT(team1, team2, date, venue) → RESULT(m\_id, score1, score2, winner, u\_id)
- Team(TeamID) → Team(Team\_name, NoOfWin, NoOfLoss, ODI, T20, Test)
- coach(c\_id) → coach(c\_id, c\_name, TeamID)
- player(PlayerID, TeamID) → player(Player\_name, Batting, Bowling, No\_of\_matches, jersey\_no)
- RESULT(m\_id) → RESULT(team1, score1, team2, score2, winner, u\_id)
- UMPIRE(u\_id) → UMPIRE(u\_name, no\_of\_matches)

```
mysql> CREATE USER 'admin'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.06 sec)

mysql> GRANT SELECT, INSERT, UPDATE, DELETE ON cricket_sc.* TO 'admin'@'localhost';
Query OK, 0 rows affected (0.04 sec)

mysql> SHOW GRANTS FOR 'admin'@'localhost';
+-----+
| Grants for admin@localhost |
+-----+
| GRANT USAGE ON *.* TO `admin`@`localhost` |
| GRANT SELECT, INSERT, UPDATE, DELETE ON `cricket_sc`.* TO `admin`@`localhost` |
+-----+
2 rows in set (0.00 sec)
```

## ADMIN USAGE

```
mysql> CREATE USER 'user'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.06 sec)

mysql> GRANT SELECT, INSERT, UPDATE, DELETE ON cricket_sc.* TO 'user'@'localhost';
Query OK, 0 rows affected (0.05 sec)

mysql> SHOW GRANTS FOR 'user'@'localhost';
+-----+
| Grants for user@localhost |
+-----+
| GRANT USAGE ON *.* TO `user`@`localhost` |
| GRANT SELECT, INSERT, UPDATE, DELETE ON `cricket_sc`.* TO `user`@`localhost` |
+-----+
2 rows in set (0.00 sec)
```

## USER USAGE

