

**Department of Computer Science and
Engineering**

Course Code: CSE-304

Database Management Systems

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SRM
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Cricket Management System

By

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Aim:

Our DBMS project is based on Cricket Management System. It provides various information about the various teams participating in the World Cup, in which all the major countries participate. It also provides us with information about the various players participating in the tournament. The database contains details of players, coaches, and umpires among others. All the useful information about the entire World Cup can have found here.

Introduction:

Database is an organized collection of data. The data is typically organized to model aspects of reality in a way that supports processes requiring information. A DBMS makes it possible for end users to create, read, update, and delete data in a database. The DBMS essentially serves as an interface between the database and end users or application programs, ensuring that data is consistently organized and remains easily accessible.

The DBMS manages three important things: the data, the database engine that allows data to be accessed, locked, and modified and the database schema, which defines the database's logical structure. These three foundational elements help provide concurrency, security, data integrity and uniform administration procedures. The DBMS can offer both logical and physical data independence. That means it can protect users and applications from needing to know where data is stored or having to be concerned about changes to the physical structure of data.

Description

Entities:

- 1) **Team** is an entity type which has many attributes like Team Name which uses the data type varchar. Every team has been given a Team ID which is the primary key which is of data type varchar. Team Ranking, Number of Batsmen and Number of Bowlers are of the data type number. There is another attribute - Wicketkeeper which is of multivalued type and accepts varchar data type. Primary key cannot have null value.
- 2) **Players** is an entity type which has an attribute – Player Name which is of the data type varchar. It has a primary key, Player ID, which cannot have null value. It has a foreign key, Team ID which is the primary key of the entity, Team. There is a complex attribute, Number of matches played, which comprises of Number of Test Matches, Number of T20 Matches, Number of World Cup Matches and Number of ODIs.
- 3) **Batsman** is an entity type which has the attributes – Number of sixes hit, Number of Fours hit, the batting average, and the total runs scored. All of these attributes are of the data type number.
- 4) **Bowler** is an entity type which has the attribute – type of batsman with varchar data type. It also includes number of wickets and economy which are of the data type number.
- 5) **Umpire** is an entity type which has the attributes name and country of origin of data type varchar. The primary key of this is Umpire Id which is of varchar data type. It also has an attribute Number of matches of data type number.
- 6) **Coach** is an entity type with a foreign key, Team ID, which is a primary key of entity type, Team. It has a primary key, Coach ID, of data type varchar. It also has another attribute of data type varchar, Name.
- 7) **Captain** is an entity type with a primary key, Captain ID of data type varchar. It has two foreign keys, i) Player id from table Players and ii) Team ID from table Team. Number of years of captaincy and Number of wins are also attributes of this table of data type number.
- 8) **Matches** is an entity type with a primary key, match ID, of varchar data type. It has attributes like Team1 Name, Team2 Name, Stadium, Winner Team and Loser Team of data type varchar. Match date is an attribute which uses the datatype date. Match time is an attribute which is of the data type time.

Relations:

Cricket player plays in team (N-1)

A cricket player can play in only one team but a team can have many players in it but a team must have players in it. So, the relationship becomes (N-1).

Coach manages team(1-N)

Coach can manage a single team, but each team can have many coaches (like batting coach, fielding coach, bowling coach). But it is compulsory for a team to have a coach. So, the relationship is 1-N

Team plays match(M-N)

Team can play many matches and a match can be played by two teams. So, the relationship is M-N.

Matches are umpired by Umpire(M-N)

An umpire can umpire in many matches and a match can have two umpires. So, the relationship is M-N.

Team headed by a Captain (1-1)

A team has 1 captain, and a captain is from single team only. So, the relationship is 1-1

Functional Requirements:

1) VIEWER

System must allow users to login if they enter the correct login id and password. The users must be able to see the player details of each player in the database. Scores of each match must be visible. Match date and venue should be displayed on the login if the users seek for it.

System should display the complete roster of a team including the captain and the players playing in the top 11 and the current rank of the team. The details of the coach must also be available to the users. Referees and their details are also important as the players and the viewers want to see the best referees managing their team's match. Each player's statistics should also be available like total runs, number of matches played etc.

System should display data on each match which has been scored in the duration of the entire tournament. System should allow fixtures to be searched and the date should also be available.

BASIC ANALOGY:

- View the website with a browser.
- Login to the website.
- View all teams.
- View all players of a team.
- View all batsmen in the tournament.
- View all bowlers in the tournament.
- View all match reports in a season.
- View statistics of a player (all time).
- View coach details.
- View umpire details.
- View Match details.
- View ranking of each team

View Player information per match:

- a) Number of matches
- b) Total runs
- c) Total wickets

View all match details:

- i. Team 1
- ii. Team 2
- iii. Umpire
- iv. Winner
- v. Date
- vi. Time
- vii. Stadium
- viii. Rank of teams after match

2) ADMINISTRATOR

Administrator is in charge of creating the website which is used to access the database. Administrator has all the privileges of the user but has the authority to add and remove data from the database which the user cannot do.

Administrator is responsible for creating different user accounts and assigning the id and password. Administrators are the one who generate the fixtures and update them in the database. They should be allowed to enter the team's name of home and away teams. He should have the authority to enter and modify the match details like time and venue in case the need to be changed.

If any player has been punished for bad behaviour or other reasons and cannot play in the World Cup anymore the administrator should be able to delete the data from the database. The rank of every team must keep being modified after each match. After a team is eliminated or disqualified the administrator should be able to delete the entire team's record.

BASIC ANALOGY:

- Create website.
- Generate login ID for viewer.
- Design website.
- Display different menus.
- Create World Cup.
- Display Team Name.
- Display Team Captain.
- Display Team Squad.

View Player information per match:

- a) Number of matches
- b) Total runs
- c) Total wickets

REMOVAL OF OLD DATA:

- i. If any team gets disqualified, then their data needs to be removed from the database.
- ii. If a player gets injured during the World Cup and is unable to play further, then their data needs to be removed from the database.
- iii. If any match gets cancelled due to unforeseen circumstances, then the particular match details should be removed.

MODIFICATION OF DATA:

- i. After every match the existing ranks of every team should be modified.
- ii. After every match, the statistics of every player should be updated.
- iii. Due to unfavourable weather conditions, a match might get delayed. Hence, the match timings need to be changed.

RETRIEVAL OF DATA:

***i)* View information of every Team:**

Before the start of a new match, we have to retrieve the Team record like:

- a) Team Name
- b) Number of Batsman
- c) Number of Bowlers
- d) Wicketkeeper
- e) Number of Wins
- f) Number of Losses
- g) Names of Players

***ii)* View information of every Match:**

After every match, we have to retrieve the Match details like:

- a) First Team Name
- b) Second Team Name
- c) Umpire
- d) Winner
- e) Loser

***iii)* View Score Board:**

After every match, we have to retrieve the ranking order of teams:

- a) Rank of each team
- b) Team name

***iv)* View the captain of each team:**

During the toss, we need to retrieve the data of the captain

- a) Name of captain
- b) Number of wins under his captaincy
- c) Years of captaincy

Entity Relation (ER) MODEL

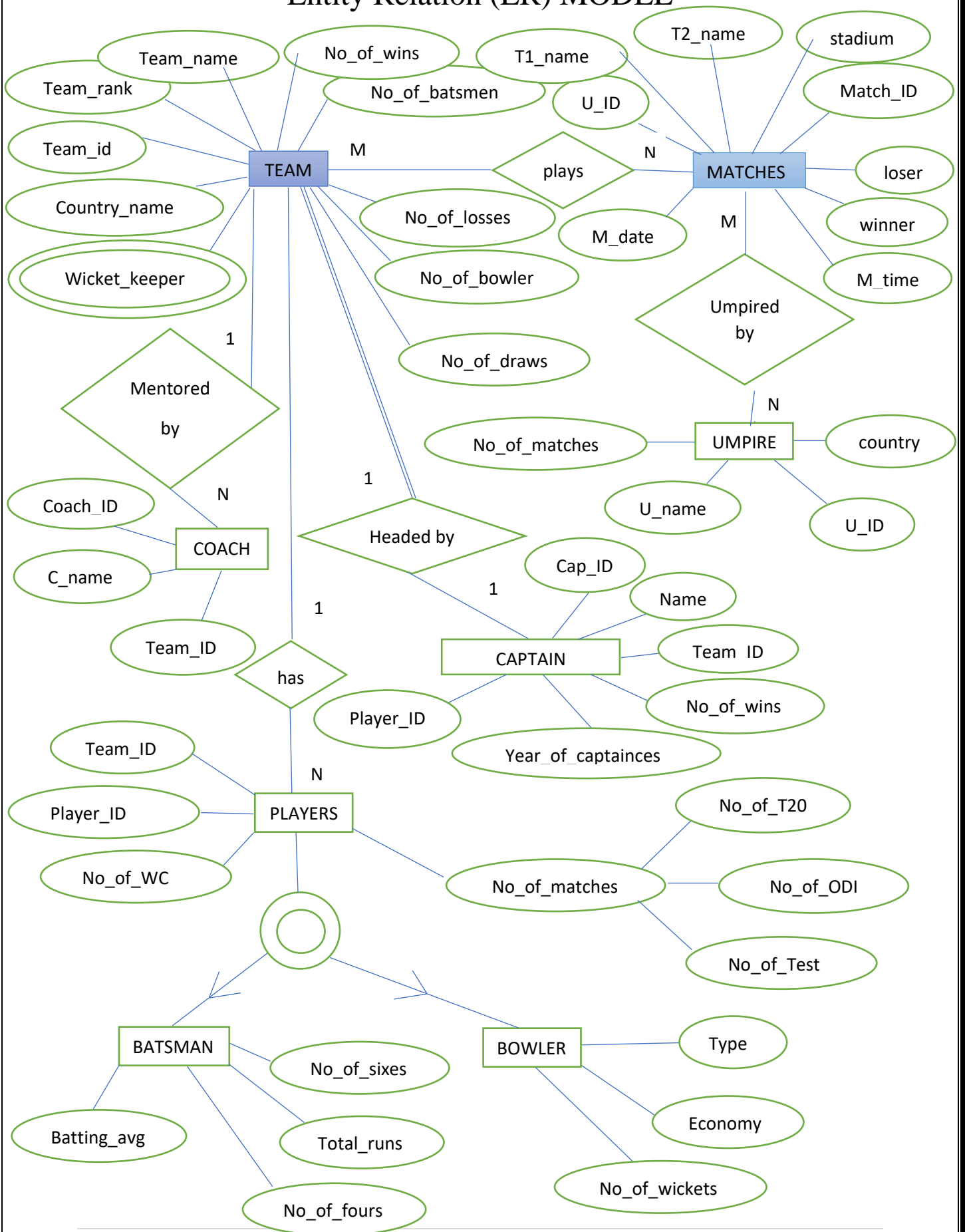
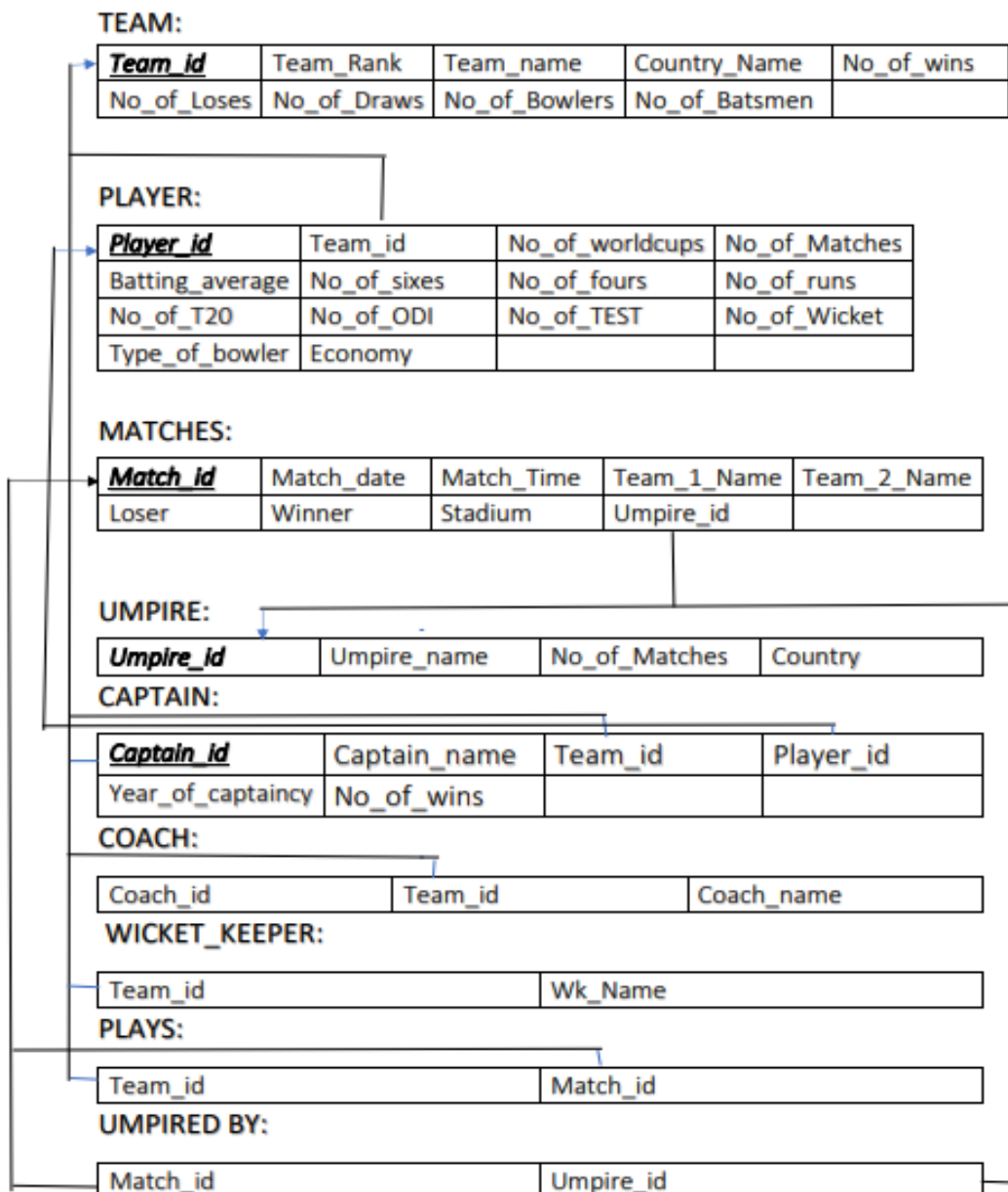


TABLE DESCRIPTION:

TABLES

- Team
- Wicket_Keeper
- Umpire
- Player
- Coach
- Captain
- Matches
- Plays
- Umpired_By

SCHEMA REPRESENTATION:



NORMALIZATION:

1st Normal Form:

The database that we have created has no multivalued attributes,
So we can say that our Database is 1 NF.

2nd Normal Form:

Rules for 2 NF is that:

- Database should be in 1 Normal Form.
- The Non-Prime attributes of each entity should depend on the candidate set of the entity.

By looking into our database, we can say that it is already in normalized form of 2 NF and no modification required.

3rd Normal Form:

The rules for 3 Normal Form are:

- The data base is already in 2 Normal Form.
- There should not be Transitive Functional Dependency.

The database is already in 3 Normal Form

SQL:

TABLE TEAM:

```
mysql> use cricketmanagementsystem
Database changed
mysql> create table TEAM(
  -> team_id int primary key,
  -> team_rank int,
  -> team_name varchar(20),
  -> country_name varchar(20),
  -> no_of_wins int,
  -> no_of_loses int,
  -> no_of_draws int,
  -> no_of_bowlers int,
  -> no_of_batsmans int);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc TEAM;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| team_id    | int           | NO   | PRI | NULL    |       |
| team_rank  | int           | YES  |     | NULL    |       |
| team_name  | varchar(20)   | YES  |     | NULL    |       |
| country_name | varchar(20)   | YES  |     | NULL    |       |
| no_of_wins | int           | YES  |     | NULL    |       |
| no_of_loses | int           | YES  |     | NULL    |       |
| no_of_draws | int           | YES  |     | NULL    |       |
| no_of_bowlers | int           | YES  |     | NULL    |       |
| no_of_batsmans | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.03 sec)
```

TABLE WICKET_KEEPER:

```
mysql> create table WICKET_KEEPER(
  -> team_id int,
  -> wk_name varchar(30));
Query OK, 0 rows affected (0.03 sec)

mysql> alter table WICKET_KEEPER
  -> add FOREIGN KEY (team_id) REFERENCES team(team_id));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')'
' at line 2
mysql> alter table WICKET_KEEPER
  -> add FOREIGN KEY (team_id) REFERENCES team(team_id);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc wicket_keeper;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| team_id | int | YES | MUL | NULL | |
| wk_name | varchar(30) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

TABLE UMPIRE:

```
mysql> create table UMPIRE(
-> umpire_id int primary key,
-> umpire_name varchar(30),
-> no_of_matches int,
-> country varchar(20)
-> );
Query OK, 0 rows affected (0.03 sec)

mysql> desc UMPIRE;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| umpire_id | int | NO | PRI | NULL | |
| umpire_name | varchar(30) | YES | | NULL | |
| no_of_matches | int | YES | | NULL | |
| country | varchar(20) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

TABLE PLAYER:

```
mysql> create table PLAYER(
-> player_id int primary key,
-> team_id int,
-> no_of_worldcup int,
-> number_of_matches int,
-> batting_average int,
-> no_of_sixes int,
-> no_of_fours int,
-> no_of_totalruns int,
-> no_of_t20 int,
-> no_of_odi int,
-> no_of_test int,
-> no_of_wickets int,
-> type_of_bowler varchar(20),
-> economy int);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc PLAYER;
```

Field	Type	Null	Key	Default	Extra
player_id	int	NO	PRI	NULL	
team_id	int	YES		NULL	
no_of_worldcup	int	YES		NULL	
number_of_matches	int	YES		NULL	
batting_average	int	YES		NULL	
no_of_sixes	int	YES		NULL	
no_of_fours	int	YES		NULL	
no_of_totalruns	int	YES		NULL	
no_of_t20	int	YES		NULL	
no_of_odi	int	YES		NULL	
no_of_test	int	YES		NULL	
no_of_wickets	int	YES		NULL	
type_of_bowler	varchar(20)	YES		NULL	
economy	int	YES		NULL	

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

TABLE COACH:

```
mysql> create table COACH(  
-> coach_id int primary key,  
-> team_id int,  
-> coach_name varchar(30));  
-> );
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '':  
)' at line 4
```

```
mysql> create table COACH(  
-> coach_id int primary key,  
-> team_id int,  
-> coach_name varchar(30));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc coach;
```

Field	Type	Null	Key	Default	Extra
coach_id	int	NO	PRI	NULL	
team_id	int	YES		NULL	
coach_name	varchar(30)	YES		NULL	

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

TABLE CAPTAIN:

```
mysql> create table CAPTAIN(  
-> captain_id int primary key,  
-> captain_name varchar(30),  
-> team_id int,  
-> player_id int,  
-> year_of_captaincy int,  
-> no_of_wins int);  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc CAPTAIN;
```

Field	Type	Null	Key	Default	Extra
captain_id	int	NO	PRI	NULL	
captain_name	varchar(30)	YES		NULL	
team_id	int	YES		NULL	
player_id	int	YES		NULL	
year_of_captaincy	int	YES		NULL	
no_of_wins	int	YES		NULL	

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


TABLE MATCHES:

```
mysql> create table MATCHES(
-> match_id int primary key,
-> match_date date,
-> match_time timestamp(0),
-> team_1_name varchar(30),
-> team_2_name varchar(30),
-> ^C
mysql> create table MATCHES(
-> match_id int primary key,
-> match_date date,
-> match_time timestamp(0),
-> team_1_name varchar(30),
-> team_2_name varchar(30),
-> loser varchar(30),
-> winner varchar(30),
-> stadium varchar(30),
-> umpire_id int);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc matches;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| match_id   | int       | NO   | PRI | NULL    |       |
| match_date | date      | YES  |     | NULL    |       |
| match_time | timestamp | YES  |     | NULL    |       |
| team_1_name | varchar(30) | YES  |     | NULL    |       |
| team_2_name | varchar(30) | YES  |     | NULL    |       |
| loser      | varchar(30) | YES  |     | NULL    |       |
| winner     | varchar(30) | YES  |     | NULL    |       |
| stadium    | varchar(30) | YES  |     | NULL    |       |
| umpire_id  | int       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

TABLE PLAYS:

```
mysql> create table PLAYS(
-> team_id int,
-> match_id int);
Query OK, 0 rows affected (0.03 sec)

mysql> alter table PLAYS
-> add FOREIGN KEY (team_id) REFERENCES team(team_id);
Query OK, 0 rows affected (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table PLAYS
-> add FOREIGN KEY (match_id) REFERENCES matches(match_id);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc PLAYS;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| team_id    | int  | YES  | MUL | NULL    |       |
| match_id   | int  | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

TABLE UMPIRED_BY:

```
mysql> alter table UMPIRE_BY
-> add FOREIGN KEY (match_id) REFERENCES matches(match_id);
ERROR 1146 (42S02): Table 'cricketmanagementsystem.umpire_by' doesn't exist
mysql> alter table UMPIRED_BY
-> add FOREIGN KEY (match_id) REFERENCES matches(match_id);
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table UMPIRED_BY(
-> add FOREIGN KEY (match_id) REFERENCES matches(match_id);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near
add FOREIGN KEY (match_id) REFERENCES matches(match_id)' at line 1
mysql> desc UMPIRED_BY;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| match_id   | int  | YES  | MUL | NULL    |       |
| umpire_id  | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

CODE TO INSERT VALUES TO TABLE:

TABLE TEAM:

insert into team values ('IND1221', 1, 'MEN IN BLUE','INDIA', 5, 1, 0, 6, 7);

Insert into team values ('AUS2174', 4, 'KANGAROO','AUSTRAILA', 3, 3, 0, 5, 6);

Insert into team values ('SA5412', 3, 'PROTEA','SOUTH AFRICA', 3, 2, 1, 8, 5);

Insert into team values ('NZ5687', 2, 'BLACK CAPS','NEW ZEALAND', 4, 2, 0, 6, 7);

Insert into team values ('BAN9852', 5, 'TIGERS','BANGLADESH', 2, 4, 0, 7, 7);

```
SQL> select * from team;
```

TEAM_ID	TEAM_RANK	TEAM_NAME	COUNTRY_NAME	NO_OF_WINS	NO_OF_LOSES	NO_OF_DRAWS	NO_OF_BOWLERS	NO_OF_BATSMANS
IND1221	1	MEN IN BLUE	INDIA	5	1	0	6	7
AUS2174	4	KANGAROO	AUSTRAILA	3	3	0	5	6
SA5412	3	PROTEA	SOUTH AFRICA	3	2	1	8	5
NZ5687	2	BLACK CAPS	NEW ZEALAND	4	2	0	6	7
BAN9852	5	TIGERS	BANGLADESH	2	4	0	7	7

UMPIRE VALUES:

insert into UMPIRE values ('UMP41002', 'Kumar Dharmasena', 103, 'Sri Lanka');

insert into UMPIRE values ('UMP74101', 'Aleem Dar', 207, 'Pakistan');

insert into UMPIRE values ('Ump52410', 'Anil Chaudhary', 19, 'India');

insert into UMPIRE values ('UMP85201', 'Ian Gould', 140, 'England');

insert into UMPIRE values ('UMP55200', 'Tony Hill', 96, 'New Zealand');

```
SQL> select * from UMPIRE;
```

UMPIRE_ID	UMPIRE_NAME	NO_OF_MATCHES	COUNTRY
UMP41002	Kumar Dharmasena	103	Sri Lanka
UMP74101	Aleem Dar	207	Pakistan
Ump52410	Anil Chaudhary	19	India
UMP85201	Ian Gould	140	England
UMP55200	Tony Hill	96	New Zealand

COACH VALUES:

insert into COACH values('CH417', 'IND1221', 'RAVI SHASTRI');

insert into COACH values('CH140', 'AUS2174', 'JUSTIN LANGER');

insert into COACH values('CH223', 'SA5412', 'OTTIS GIBSON');

insert into COACH values('CH398', 'NZ5687', 'GARY STEAD');

insert into COACH values('CH748', 'BAN9852', 'RUSSEL DOMINGO');

```
SQL> select * from COACH;
```

COACH_ID	TEAM_ID	COACH_NAME
CH417	IND1221	RAVI SHASTRI
CH140	AUS2174	JUSTIN LANGER
CH223	SA5412	OTTIS GIBSON
CH398	NZ5687	GARY STEAD
CH748	BAN9852	RUSSEL DOMINGO

CAPTAIN VALUES:

insert into captain values('CAP11452', 'MS DHONI', 'IND1221','PLR44567', 4,56);

insert into captain values('CAP21478', 'DALE STEYN', 'SA5412','PLR10235', 7,74);

insert into captain values('CAP30214', 'MICHAEL CLARKE',
'AUS2174','PLR74138', 9,100);

insert into captain values('CAP14789', 'TAMIM IQBAL',
'BAN9852','PLR89562',2,20);

insert into captain values('CAP36957', 'ROSS TAYLOR', 'NZ5687','PLR957417',
5,85);

```
SQL> select * from captain;
```

CAPTAIN_ID	CAPTAIN_NAME	TEAM_ID	PLAYER_ID	YEAR_OF_CAPTAINCY
NO_OF_WINS				
CAP11452	MS DHONI	IND1221	PLR44567	4
56				
CAP21478	DALE STEYN	SA5412	PLR10235	7
74				
CAP30214	MICHAEL CLARKE	AUS2174	PLR74138	9
100				
CAP14789	TAMIM IQBAL	BAN9852	PLR89562	2
20				
CAP36957	ROSS TAYLOR	NZ5687	PLR957417	5
85				

MATCHES VALUES:

```
insert into MATCHES values( 'MAT101',to_date('12-03-2011','dd-mm-yyyy'),to_timestamp('15:30','hh24:mi'),'India','Bangladesh','Bangladesh','India','Feroz Shah Kotla','UMP55200' );
```

```
insert into MATCHES values( 'MAT201',to_date('15-03-2011','dd-mm-yyyy'),to_timestamp('9:30','hh24:mi'),'England','Australia','England','Australia','Eden Gardens','UMP41002' );
```

```
insert into MATCHES values( 'MAT301',to_date('21-03-2011','dd-mm-yyyy'),to_timestamp('11:30','hh24:mi'),'Sri Lanka','Bangladesh','Bangladesh','Sri Lanka','M.A. Chidambaram','UMP74101' );
```

```
insert into MATCHES values( 'MAT401',to_date('23-03-2011','dd-mm-yyyy'),to_timestamp('15:30','hh24:mi'),'New Zealand','South Africa','South Africa','New Zealand','Sardar Patel','UMP85201' );
```

```
insert into MATCHES values( 'MAT501',to_date('26-03-2011','dd-mm-yyyy'),to_timestamp('8:30','hh24:mi'),'England','India','England','India','Wankhede','Ump524 10' );
```

```
SQL> select * from MATCHES;
```

MATCH_ID	MATCH_DAT	MATCH_TIME	TEAM_1_NAME		
TEAM_2_NAME	LOSER	WINNER	STADIUM	UMPIRE_ID	
MAT101 Bangladesh	12-MAR-11 Bangladesh	01-OCT-19 03.30.00 PM Bangladesh	India Feroz Shah Kotla	UMP55200	
MAT301 Bangladesh	21-MAR-11 Bangladesh	01-OCT-19 11.30.00 AM Bangladesh	Sri Lanka M.A. Chidambaram	UMP74101	
MAT401 South Africa	23-MAR-11 South Africa	01-OCT-19 03.30.00 PM South Africa	New Zealand Sardar Patel	UMP85201	
MAT501 India	26-MAR-11 England	01-OCT-19 08.30.00 AM England	India Wankhede	Ump52410	
MAT201 Australia	15-MAR-11 England	01-OCT-19 09.30.00 AM England	Australia Eden Gardens	UMP41002	

PLAYER VALUES:

insert into PLAYER values ('PLR17410', 'IND1221', 2, 13, 58,7,24,800,74,120,20,1,'medium',3.2);

insert into PLAYER values ('PLR74203', 'AUS2174', 1, 6, 67, 10,39,463,41,210,140 ,1,'slow',8.5);

insert into PLAYER values ('PLR45987', 'SA5412', 3, 4, 99, 4, 47,985, 24,63,65,1,'medium-slow',11.2);

insert into PLAYER values ('PLR20147', 'NZ5687', 1, 12, 12, 1, 3,85, 52 ,10,74,1,'legspin',18.3);

insert into PLAYER values ('PLR65200', 'BAN9852', 2, 9, 4, 0,1 ,21,77, 30,2,1,'fast',17.3);

SQL> select * from PLAYER;

PLAYER_ID	TEAM_ID			NO_OF_WORLD CUPS	NUMBER_OF_MATCHES	BATTING_AVERAGE	NO_OF_SIXES	NO_OF_FOURS			
NO_OF_TOTAL RUNS	NO_OF_T20	NO_OF_ODI	NO_OF_TEST	NO_OF_WICKETS	TYPE_OF_BOWLER	ECONOMY					
PLR17410	800	74	IND1221 120	20	1 medium	2	13	3	58	7	24
PLR74203	463	41	AUS2174 210	140	1 slow	1	6	9	67	10	39
PLR45987	985	24	SA5412 63	65	1 medium-slow	3	4	11	99	4	47
PLR20147	85	52	NZ5687 10	74	1 legspin	1	12	18	12	1	3
PLR65200	21	77	BAN9852 30	2	1 fast	2	9	17	4	0	1

UMPIRED_BY VALUES:

insert into Umpired_by values('MAT501','UMP55200');

insert into Umpired_by values('MAT301','Ump52410');

insert into Umpired_by values('MAT101','UMP41002');

insert into Umpired_by values('MAT401','UMP74101');

insert into Umpired_by values('MAT201','Ump52410');

```
SQL> select * from Umpired_by;
```

MATCH_ID	UMPIRE_ID
MAT501	UMP55200
MAT301	Ump52410
MAT101	UMP41002
MAT401	UMP74101
MAT201	Ump52410

PLAYS VALUES:

```
insert into Plays values( 'IND1221','MAT101' );
insert into Plays values( 'AUS2174','MAT201' );
insert into Plays values( 'BAN9852','MAT301' );
insert into Plays values( 'NZ5687','MAT401' );
insert into Plays values( 'IND1221','MAT501' );
```

```
SQL> select * from Plays;
```

TEAM_ID	MATCH_ID
IND1221	MAT101
AUS2174	MAT201
BAN9852	MAT301
NZ5687	MAT401
IND1221	MAT501

WICKET_KEEPER VALUES:

```
insert into WICKET_KEEPER values( 'IND1221','MS Dhoni' );
insert into WICKET_KEEPER values( 'IND1221','Dinesh Kartik' );
insert into WICKET_KEEPER values( 'AUS2174','Tim Lee' );
insert into WICKET_KEEPER values( 'AUS2174','Peter Hegward' );
insert into WICKET_KEEPER values( 'AUS2174','Hefer Kingsly' );
```

```
SQL> select * from WICKET_KEEPER;
```

TEAM_ID	WK_NAME
IND1221	MS Dhoni
IND1221	Dinesh Kartik
AUS2174	Tim Lee
AUS2174	Peter Hegward
AUS2174	Hefer Kingsly

Conclusion:

Cricket management system allows the user to check the profile of any player as the DBMS helps in storing and retrieving the data from the databases. Many operations can be performed from the data available on the database such as analysing the form of a player in recent, past times. It shows how well the player is been with his/her game throughout the selected time period. In real world, during IPL Auctions, Many analysts use data from databases and perform analysis and come to conclusion whether the player is fit for their franchise before actually buying the player in the auction.