

Project Report on  
Cricket database management system  
Report  
For CA-3 of  
INT306:DATABASE MANAGEMENT SYSTEM

Submitted to


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## ➤ ANNEXURE 1: INTRODUCTION

### Cricket Database Management System:-

Cricket base management can be managed by a head commission Head Commission can decide many other things that are for the cricket players as well as cricket venues as well as cricket related ceremonies. Commission decides whom to invite in that ceremonies and whom not. The Commission decides where the cricket is going to be played and how many players are going to be Deer on the field. And also how the status of the player is is he's able to play or he has been injured many other details can be added as per the matches are going to be there other fundamental activities are also can be planned by cricket.

I have developed an database which can manage around each and every field as per my assumptions that can be there I have depicted 1ER diagram which helps a lot as to understand the proper division of each and every sector under the Commission.

I have developed multiple tables ask the project to be in the best normalized form and no abnormalities to occurs.

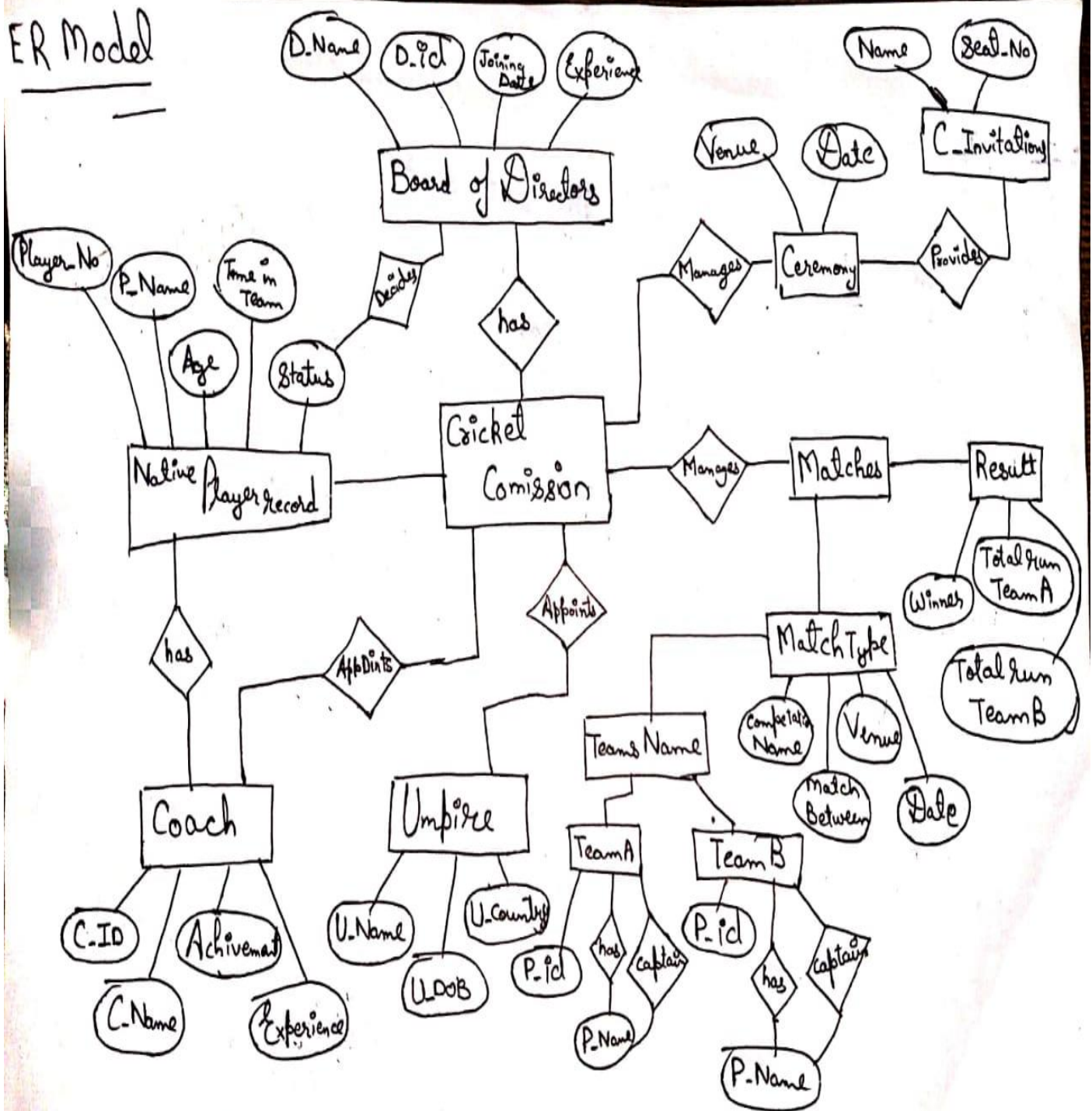
The record of proactive as per current scenario native team of that country is also has been added for this time I have added thudded by truck keeping the table I have written each and every queries related to my database in a highlighted yellow form. And I have also written the PLSQL code as to test the basic functioning of my database.

### ➤ Assumptions:-

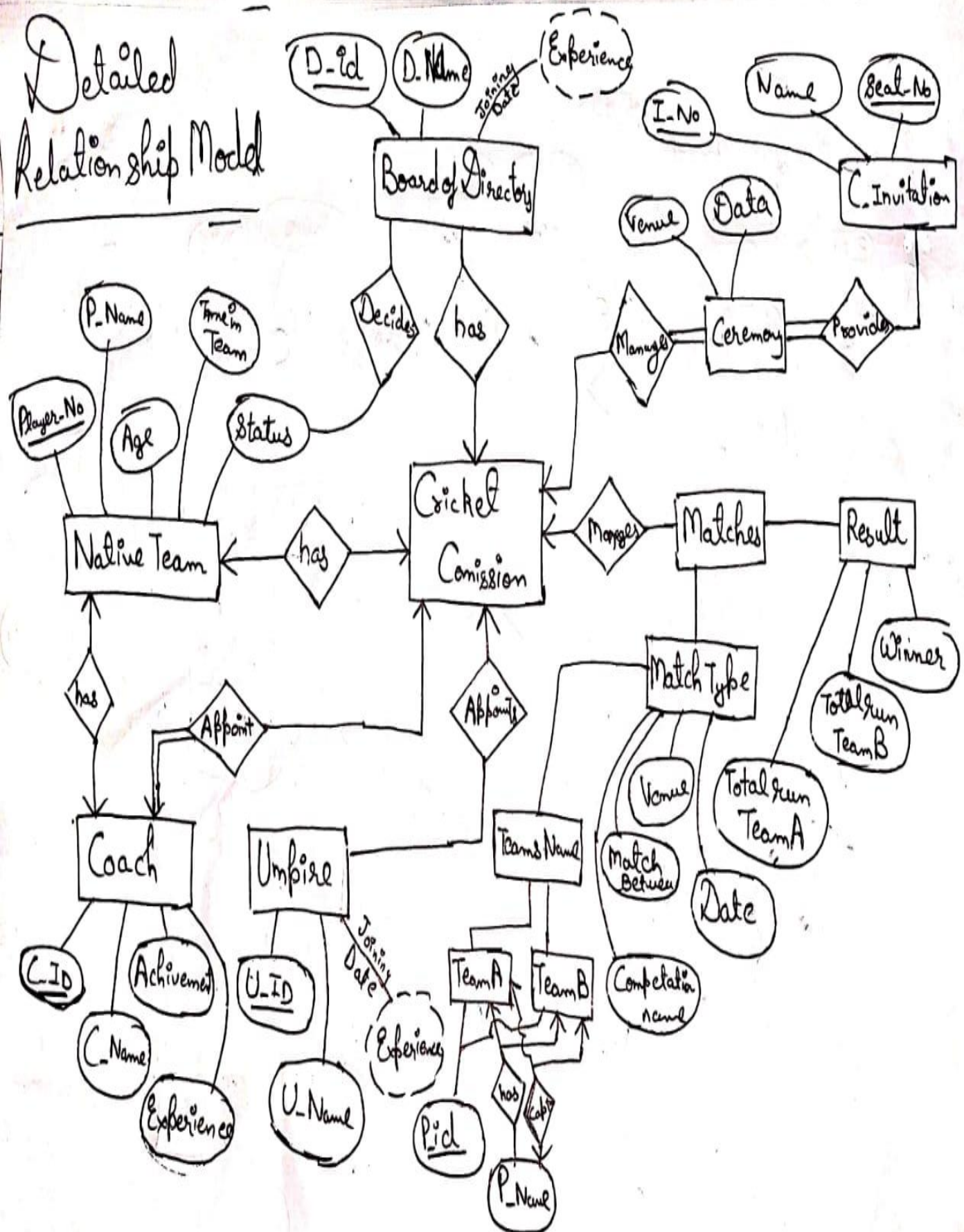
With the help of this database we can add details of the players Any team, details of the venue, details of any ceremony, details about board of directors, details about umpire, match type details, Details about a team A, details about team B, we can allot an umpire to a match, we can find who is the umpire of the match, Finally we can also find the match details and the final result of the match

➤ ANNEXURE 2: DESIGN OF THE PROJECT

ER Model



# Detailed Relationship Model



➤ ANNEXURE 3: SCREENSHOTS

- TABLE 1 NativeTeam

Object Type **TABLE** Object **NATIVETEAM**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>NATIVETEAM</u>	<u>P_NO</u>	Number	-	-	-	-	✓	-	-
	<u>P_NAME</u>	Char	20	-	-	-	✓	-	-
	<u>AGE</u>	Number	-	-	-	-	✓	-	-
	<u>TIMEINTEAM</u>	Varchar2	10	-	-	-	✓	-	-
	<u>STATUS</u>	Char	1	-	-	-	✓	-	-
									1 - 5

P_NO	P_NAME	AGE	TIMEINTEAM	STATUS
1	KL Rahul	30	8Y	F
2	Arshdeep Singh	23	4M	F
15	Bhuvneshwar Kumar	32	10Y	F
17	Rishabh Pant	25	5Y	F
18	Virat Kohli	35	11Y	F
20	Axar Patel	28	8Y	F
33	Hardik Pandya	29	6Y	F
45	Rohit Sharma	34	15Y	F
63	Suryakumar Yadav	32	1Y	F
73	Mohammed Shami	32	9Y	F
99	Ravichandran Ashwin	35	11Y	F

11 rows returned in 0.00 seconds

[CSV Export](#)

- TABLE 2 Coach

Object Type **TABLE** Object **COACH**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>COACH</u>	<u>C_ID</u>	Number	-	-	-	-	✓	-	-
	<u>C_NAME</u>	Char	20	-	-	-	✓	-	-
	<u>COUNTRY</u>	Char	20	-	-	-	✓	-	-
	<u>EXPERIENCE</u>	Varchar2	20	-	-	-	✓	-	-
									1 - 4

C_ID	C_NAME	COUNTRY	EXPERIENCE
123	Rahul Dravid	India	7Y

1 rows returned in 0.02 seconds

[CSV Export](#)

- TABLE 3 UMPIRE

Object Type **TABLE** Object **UMPIRE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>UMPIRE</u>	<u>U_ID</u>	Number	-	-	-	1	-	-	-
	<u>U_NAME</u>	Char	100	-	-	-	✓	-	-
	<u>JOININGDATE</u>	Date	7	-	-	-	✓	-	-
	<u>EXPERIENCE</u>	Varchar2	20	-	-	-	✓	-	-
									1-4

U_ID	U_NAME	JOININGDATE	EXPERIENCE
421	Jayaraman Madanagopal	07-OCT-15	7Y
241	Mark Hawthorne	28-MAY-11	11Y

2 rows returned in 0.00 seconds

[CSV Export](#)

- TABLE 4- CEREMONY

Object Type **TABLE** Object **CEREMONY**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>CEREMONY</u>	<u>VENUE</u>	Char	100	-	-	-	✓	-	-
	<u>C_DATE</u>	Date	7	-	-	-	✓	-	-
									1-2

VENUE	C_DATE
Best Western Summerlea,GT Road, near BSF Chowk, Jalandhar, Punjab 144001	08-NOV-22



- TABLE 5 CeremonyInvitation

Object Type **TABLE** Object **CEREMONYINVITATION**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>CEREMONYINVITATION</u>	<u>INVITATION_NO</u>	Number	-	-	-	-	✓	-	-
	<u>SEATNO</u>	Varchar2	20	-	-	-	✓	-	-
	<u>NAME</u>	Char	100	-	-	-	✓	-	-
1 - 3									

- TABLE 6 BoardOfDirector

Object Type **TABLE** Object **BOARDOFDIRECTOR**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>BOARDOFDIRECTOR</u>	<u>D_ID</u>	Number	-	-	-	-	✓	-	-
	<u>D_NAME</u>	Char	100	-	-	-	✓	-	-
	<u>EXPERIENCE</u>	Varchar2	20	-	-	-	✓	-	-
1 - 3									

- TABLE 7 MatchDetails

Object Type **TABLE** Object **MATCHDETAILS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>MATCHDETAILS</u>	<u>COMPETITION_NAME</u>	Char	100	-	-	-	✓	-	-
	<u>MATCHBETWEEN</u>	Char	100	-	-	-	✓	-	-
	<u>VENUE</u>	Char	100	-	-	-	✓	-	-
	<u>TOSSWONBY</u>	Char	100	-	-	-	✓	-	-
	<u>ELECTEDTO</u>	Char	100	-	-	-	✓	-	-
	<u>MATCHDATE</u>	Date	7	-	-	-	✓	-	-
	<u>UMPIRE_ID</u>	Number	-	-	-	-	✓	-	-
1 - 7									

COMPETITION_NAME	MATCHBETWEEN	VENUE	TOSSWONBY	ELECTEDTO	MATCHDATE	UMPIRE_ID
Bangladesh Premier League	Comilla Victorians vs Fortune Barishal	Shere Bangla National Stadium, Dhaka	Fortune Barishal	BALL	25-JAN-22	421
IIUC INTRA DEPT. CRICKET TOURNAMENT	IIUC CSE A VS IIUC CSE B	IIUC CENTRAL FIELD	IIUC CSE A	BAT	24-MAY-22	-
IIUC INTRA DEPT. CRICKET TOURNAMENT	IIUC CSE A VS IIUC CSE B	IIUC CENTRAL FIELD	IIUC CSE A	BAT	24-MAY-22	241

3 rows returned in 0.00 seconds [CSV Export](#)

- TABLE 8 MatchType

Object Type **TABLE** Object **MATCHTYPE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>MATCHTYPE</u>	<u>COMPETITIONNAME</u>	Varchar2	50	-	-	-	✓	-	-
	<u>MATCHTYPE</u>	Char	100	-	-	-	✓	-	-
									1 - 2

COMPETITIONNAME	MATCHTYPE
Bangladesh Premier League	One Day International (ODI)

1 rows returned in 0.00 seconds [CSV Export](#)

- TABLE 9 Teams

Object Type **TABLE** Object **TEAMS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>TEAMS</u>	<u>MATCHNAME</u>	Char	100	-	-	-	✓	-	-
	<u>TEAMANAME</u>	Char	100	-	-	-	✓	-	-
	<u>TEAMBNAME</u>	Char	100	-	-	-	✓	-	-
									1 - 3

MATCHNAME	TEAMANAME	TEAMBNAME
Bangladesh Premier League	Comilla Victorians	Fortune Barishal

1 rows returned in 0.00 seconds [CSV Export](#)

- TABLE10 PlayersOfTeamA

Object Type **TABLE** Object **PLAYERSOFTEAMA**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PLAYERSOFTEAMA</u>	<u>PLAYERNAME</u>	Char	100	-	-	-	✓	-	-
	<u>BATSTYLE</u>	Char	100	-	-	-	✓	-	-
	<u>BALLSTYLE</u>	Char	100	-	-	-	✓	-	-
	<u>SPECIALITY</u>	Char	100	-	-	-	✓	-	-
									1 - 4



- TABLE11 PlayerOfTeamB

Object Type **TABLE** Object **PLAYERSOFTEAMB**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PLAYERSOFTEAMB</u>	<u>PLAYERNAME</u>	Char	100	-	-	-	✓	-	-
	<u>BATSTYLE</u>	Char	100	-	-	-	✓	-	-
	<u>BALLSTYLE</u>	Char	100	-	-	-	✓	-	-
	<u>SPECIALITY</u>	Char	100	-	-	-	✓	-	-
									1 - 4

- TABLE12 Results

Object Type **TABLE** Object **RESULT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>RESULT</u>	<u>TEAMASCORE</u>	Number	-	-	-	-	✓	-	-
	<u>TEAMBSCORE</u>	Number	-	-	-	-	✓	-	-
	<u>WINNER</u>	Char	100	-	-	-	✓	-	-
	<u>MATCHBETWEEN</u>	Char	100	-	-	-	✓	-	-
									1 - 4

TEAMASCORE	TEAMBSCORE	WINNER	MATCHBETWEEN
121	124	B	Comilla Victorians vs Fortune Barishal

1 rows returned in 0.00 seconds [CSV Export](#)

- TABLE13 UmpireAlloted

Object Type **TABLE** Object **UMPIREALLOTED**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>UMPIREALLOTED</u>	<u>COMPETITIONNAME</u>	Varchar2	50	-	-	-	✓	-	-
	<u>UMPIRE_ID</u>	Number	-	-	-	-	✓	-	-
									1 - 2

COMPETITIONNAME	UMPIRE_ID
Bangladesh Premier League	421
IIUC INTRA DEPT. CRICKET TOURNAMENT	-
IIUC INTRA DEPT. CRICKET TOURNAMENT	241

3 rows returned in 0.00 seconds [CSV Export](#)

➤ ANNEXURE 4: CODE

## PROJECT

### Cricket database management system

```
create table NativeTeam
```

```
(
```

```
P_no number,
```

```
P_Name char(20),
```

```
Age number,
```

```
TimeInTeam number,
```

```
Status char
```

```
)
```

```
create table Coach
```

```
(
```

```
C_id number,
```

```
C_Name char(20),
```

```
Country char(20),
```

```
Experience number
```

```
)
```

```
create table Umpire
```

```
(
```

```
U_id number,
```

```
U_Name char(100),
```

```
JoiningDate number,
```

```
Experience number
```

```
)
```

```
create table Ceremony
```

```
(
```

```
Venue char(100),
```

```
C_Date number
```

```
)
```

```
create table CeremonyInvitation
```

```
(
```

```
Invitation_no number,
```

```
SeatNo number,
```

```
Name char(100)
```

```
)
```

```
create table BoardOfDirector
```

```
(
```

```
D_id number,
```

```
D_Name char(100),
```

```
Experience number
```

```
)
```

```
create table MatchDetails
```

```
(
```

```
Competition_Name char(100),
```

```
MatchBetween char(100),
```

```
Venue char(100),
```

```
TossWonBy char(100),
```

```
ElectedTo char(100),
```

```
MatchDate number,
```

```
Umpire_id number
```

```
)
```

```
create table MatchType
(  
CompetitionName char(100),  
MatchType char(100)  
)
```

```
create table Teams  
(  
MatchName char(100),  
TeamAname char(100),  
TeamBname char(100)  
)
```

```
create table TeamA  
(  
PlayerName char(100),  
BatStyle char(100),  
BallStyle char(100),  
Speciality char(100)  
)
```

```
create table TeamB  
(  
PlayerName char(100),  
BatStyle char(100),  
BallStyle char(100),  
Speciality char(100)  
)
```

```

create table Result
(
TeamAscore number,
TeamBscore number,
Winner char(100),
MatchBetween char(100)
)

```

```

create table UmpireAlloted
(
CompetitionName char(100),
Umpire_id number
)

```

- ANNEXURE 5: QUERIES (NOTE: among the whole code the queries are in the yellow high-lights)

```

--table1 NativeTeam
alter table NativeTeam add check(Status='I' or Status='F')
--I=injured F=fine;
alter table NativeTeam modify(TimeInTeam varchar(10))

```

```

--table2 Coach
alter table Coach modify(Experience varchar(20))

```

```

--table3 Umpire
alter table Umpire modify(Experience varchar(20))
alter table Umpire modify(JoiningDate Date)
alter table Umpire modify(U_Name Char(100))
/* DD-MON-YY e.g., 01-JAN-17 */

```

--table4 Ceremony

alter table Ceremony drop(C\_Date)

alter table Ceremony add(C\_Date Date)

--table5 CeremonyInvitation

alter table CeremonyInvitation modify(SeatNo varchar(20))

--table6 BoardOfDirector

alter table BoardOfDirector modify(Experience varchar(20))

--table7 MatchDetails

alter table MatchDetails add check(ElectedTo='BALL' or ElectedTo='BAT')

alter table MatchDetails modify(MatchDate Date)

/\* DD-MON-YY e.g., '31-DEC-2000' \*/

alter table Umpire add primary key(U\_id)

alter table MatchDetails modify(Umpire\_id number references Umpire(U\_id))

--table8 MatchType

alter table MatchType modify(CompetitionName varchar(50))

--table10 TeamA

rename TeamA to PlayersOfTeamA

--table11 TeamB

rename TeamB to PlayersOfTeamB

--table12 Result

alter table Result add check(winner='A' or winner='B')



```
--table13 UmpireAlloted
```

```
alter table UmpireAlloted modify(CompetitionName varchar(50))
```

```
alter table UmpireAlloted modify(Umpire_id number references Umpire(U_id))
```

```
--table1 NativeTeam
```

```
insert into NativeTeam values(1,'KL Rahul',30,'8Y','F')
```

```
insert into NativeTeam values(2,'Arshdeep Singh',23,'4M','F')
```

```
insert into NativeTeam values(45,'Rohit Sharma',34,'15Y','F')
```

```
insert into NativeTeam values(18,'Virat Kohli',35,'11Y','F')
```

```
insert into NativeTeam values(63,'Suryakumar Yadav',32,'1Y','F')
```

```
insert into NativeTeam values(33,'Hardik Pandya',29,'6Y','F')
```

```
insert into NativeTeam values(17,'Rishabh Pant ',25,'5Y','F')
```

```
insert into NativeTeam values(20,'Axar Patel',28,'8Y','F')
```

```
insert into NativeTeam values(99,'Ravichandran Ashwin',35,'11Y','F')
```

```
insert into NativeTeam values(15,'Bhuvneshwar Kumar',32,'10Y','F')
```

```
insert into NativeTeam values(73,'Mohammed Shami',32,'9Y','F')
```

```
select *from NativeTeam
```

```
--table2 Coach
```

```
insert into Coach values(123,'Rahul Dravid','India','7Y')
```

```
select *from Coach
```

```
--table3 Umpire
```

```
insert into Umpire values(421,'Jayaraman Madanagopal','7-OCT-2015','7Y')
```

```
insert into umpire values(241,'Mark Hawthorne','28-May-2011','11Y')
```

```
select *from Umpire
```

--table7 MatchDetails

insert into MatchDetails values('Bangladesh Premier League','Comilla Victorians vs Fortune Barishal','Shere Bangla National Stadium, Dhaka','Fortune Barishal','BALL','25-JAN-22',421)

insert into MatchDetails values('IIUC INTRA DEPT. CRICKET TOURNAMENT','IIUC CSE A VS IIUC CSE B','IIUC CENTRAL FIELD','IIUC CSE A','BAT','24-MAY-22',NULL)

select \*from MatchDetails

--table8 MatchType

insert into MatchType values('Bangladesh Premier League','One Day International (ODI)')

select \*from MatchType

--table9 Teams

insert into Teams values('Bangladesh Premier League','Comilla Victorians','Fortune Barishal')

select \*from Teams

--teble12 Result

insert into Result values(121,124,'B','Comilla Victorians vs Fortune Barishal')

select \*from Result

--table13 UmpireAlloted

insert into UmpireAlloted values('Bangladesh Premier League',421)

insert into UmpireAlloted values('IIUC INTRA DEPT. CRICKET TOURNAMENT',NULL)

TRUNCATE TABLE MATCHDETAILS

select \*from MATCHDETAILS

SELECT \*FROM NATIVETEAM TEAM\_INDIA

--OUTPUT

DESC NATIVETEAM

SELECT \*FROM NATIVETEAM ORDER BY P\_NO

DESC COACH

SELECT \*FROM COACH

DESC UMPIRE

SELECT \*FROM UMPIRE

DESC CEREMONY

SELECT \*FROM CEREMONY

DESC CEREMONYINVITATION

DESC BOARDOFDIRECTOR

DESC MATCHDETAILS

SELECT \*FROM MATCHDETAILS

DESC MATCHTYPE

SELECT \*FROM MATCHTYPE

DESC TEAMS

SELECT \*FROM TEAMS

DESC PLAYERSOFTEAMA

DESC PLAYERSOFTEAMB

DESC RESULT

SELECT \*FROM RESULT

DESC UMPIREALLOTED

SELECT \*FROM UMPIREALLOTED

➤ ANNEXURE 6: PLSQL

- NOTE:-The PLSQL code is written only for the essential purpose and for the checking the data base rest all whole scenario can easily be added in the database if the management of cricket wishes

```
DECLARE
```

```
UMP_ID NUMBER;
```

```
WIN CHAR(10);
```

```
D DATE:=SYSDATE;
```

```
D1 DATE;
```

```
BEGIN
```

```
SELECT U_ID INTO UMP_ID FROM UMPIRE WHERE U_NAME='Mark Hawthorne';
```

```
INSERT INTO UMPIREALLOTTED VALUES('IIUC INTRA DEPT. CRICKET  
TOURNAMENT',UMP_ID);
```

```
DELETE FROM UMPIREALLOTTED WHERE UMPIRE_ID=NULL;
```

```
INSERT INTO MATCHDETAILS VALUES('IIUC INTRA DEPT. CRICKET  
TOURNAMENT','IIUC CSE A VS IIUC CSE B','IIUC CENTRAL FIELD','IIUC CSE A','BAT','24-  
MAY-22',UMP_ID) ;
```

```
DELETE FROM MATCHDETAILS WHERE UMPIRE_ID=NULL;
```

```
INSERT INTO CEREMONY VALUES('Best Western Summerlea,GT Road, near BSF Chowk,  
Jalandhar, Punjab 144001',D);
```

```
END;
```



thank  
you