

DBMS Mini Project

IPL Management DataBase

Submitted By:

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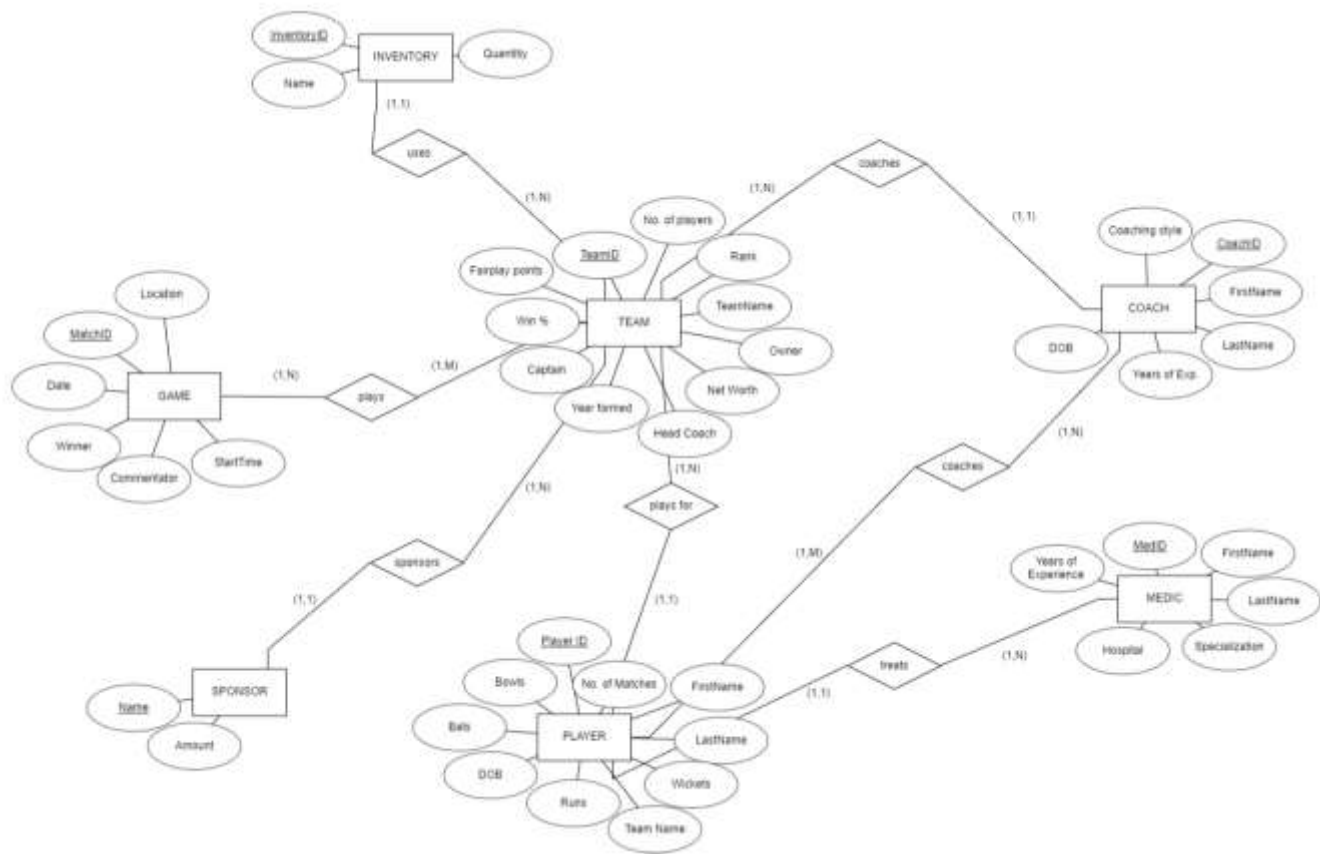
V Semester Section F

Short Description and Scope of the Project

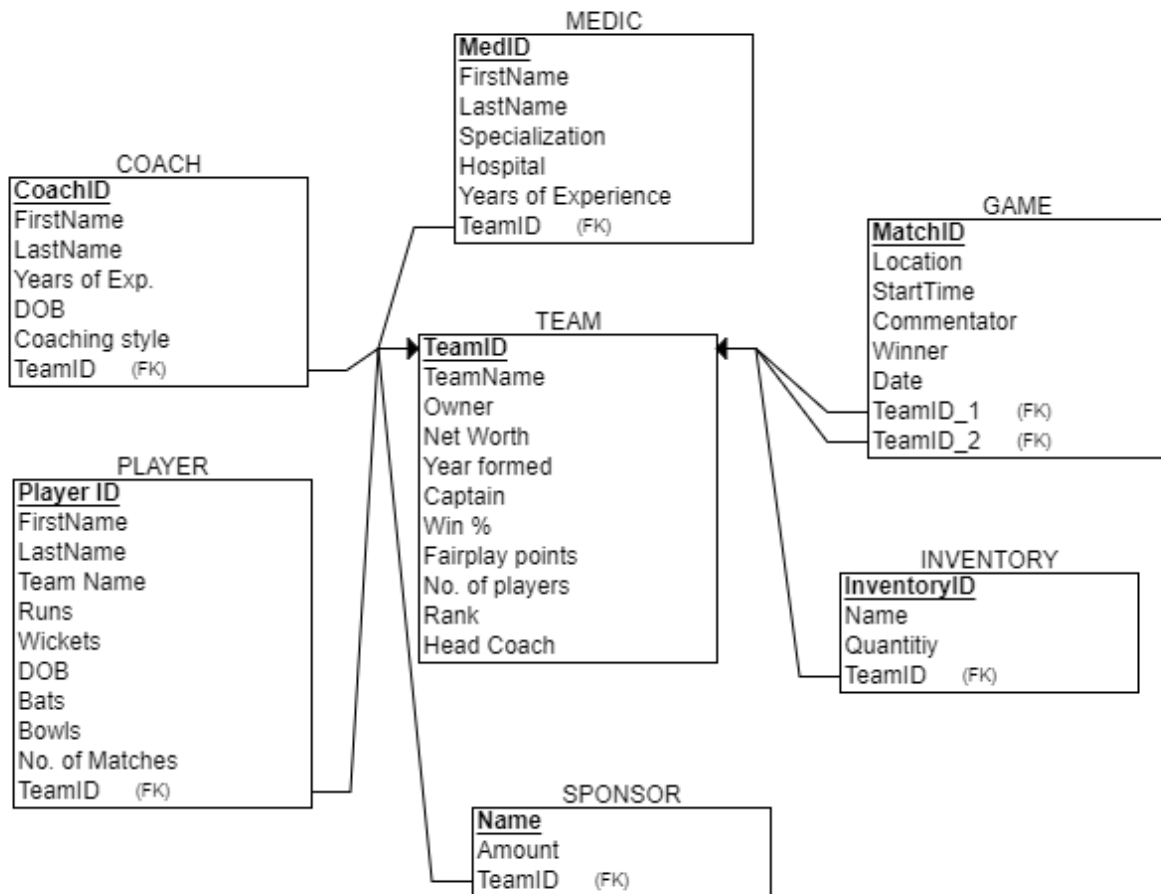
Have you have watched this really awesome movie called Moneyball? If you didn't, you definitely should because it points out the importance of statistics and structured data analysis, and this alone made a down-falling team to win the American Baseball League. My project has a similar approach towards sports management (particularly IPL).

In my project you can Add player, View the Team Statistics, Add the coach and much more.

ER Diagram



Relational Schema



DDL statements - Building the database

```
CREATE TABLE TEAM
(
    TeamID INT NOT NULL,
    TeamName VARCHAR(255) NOT NULL,
    Owner VARCHAR(255) NOT NULL,
    Net_Worth INT NOT NULL,
    Year_formed INT NOT NULL,
    Captain VARCHAR(255) NOT NULL,
    Win_percent INT NOT NULL,
    Fairplay_points INT NOT NULL,
    No_of_players INT NOT NULL,
    Table_Rank INT NOT NULL,
    Head_coach VARCHAR(255) NOT NULL
    PRIMARY KEY (TeamID)
);
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
CREATE TABLE TEAM ( TeamID INT NOT NULL, TeamName VARCHAR(255) NOT NULL, Owner VARCHAR(255) NOT NULL, Net_Worth INT NOT NULL, Year_formed INT NOT NULL,
Captain VARCHAR(255) NOT NULL, Win_percent INT NOT NULL, Fairplay_points INT NOT NULL, No_of_players INT NOT NULL, Table_Rank INT NOT NULL, PRIMARY KEY
(TeamID) );
```

[Edit inline] [Edit] [Create PHP code]

```
CREATE TABLE GAME
(
    MatchID INT NOT NULL,
    Location VARCHAR(255) NOT NULL,
    StartTime TIME NOT NULL,
    Commentator VARCHAR(255) NOT NULL,
    Winner VARCHAR(255) NOT NULL,
    Date DATE NOT NULL,
    TeamID_1 INT NOT NULL,
    TeamID_2 INT NOT NULL,
    PRIMARY KEY (MatchID),
    FOREIGN KEY (TeamID_1) REFERENCES TEAM(TeamID),
    FOREIGN KEY (TeamID_2) REFERENCES TEAM(TeamID)
);
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE GAME ( MatchID INT NOT NULL, Location VARCHAR(255) NOT NULL, StartTime TIME NOT NULL, Commentator VARCHAR(255) NOT NULL, Winner VARCHAR(255)
NOT NULL, Date DATE NOT NULL, TeamID_1 INT NOT NULL, TeamID_2 INT NOT NULL, PRIMARY KEY (MatchID), FOREIGN KEY (TeamID_1) REFERENCES TEAM(TeamID), FOREIGN
KEY (TeamID_2) REFERENCES TEAM(TeamID) );
```

[Edit inline] [Edit] [Create PHP code]

```

CREATE TABLE PLAYER
(
  PlayerID INT NOT NULL,
  FirstName VARCHAR(255) NOT NULL,
  LastName VARCHAR(255),
  Team_Name VARCHAR(255) NOT NULL,
  Runs INT NOT NULL,
  Wickets INT NOT NULL,
  DOB DATE NOT NULL,
  Bats VARCHAR(255) NOT NULL,
  Bowls VARCHAR(255) NOT NULL,
  No_of_Matches INT NOT NULL,
  TeamID INT NOT NULL,
  PRIMARY KEY (PlayerID),
  FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID)
);

```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```

CREATE TABLE PLAYER ( PlayerID INT NOT NULL, FirstName VARCHAR(255) NOT NULL, LastName VARCHAR(255), Team_Name VARCHAR(255) NOT NULL, Runs INT NOT NULL,
Wickets INT NOT NULL, DOB DATE NOT NULL, Bats VARCHAR(255) NOT NULL, Bowls VARCHAR(255) NOT NULL, No_of_Matches INT NOT NULL, TeamID INT NOT NULL, PRIMARY
KEY (PlayerID), FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID) );

```

[Edit inline] [Edit] [Create PHP code]

```

CREATE TABLE COACH
(
  CoachID INT NOT NULL,
  FirstName VARCHAR(255) NOT NULL,
  LastName VARCHAR(255),
  Years_of_Exp INT NOT NULL,
  DOB DATE NOT NULL,
  Coaching_style VARCHAR(255) NOT NULL,
  TeamID INT NOT NULL,
  PRIMARY KEY (CoachID),
  FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID)
);

```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```

CREATE TABLE COACH ( CoachID INT NOT NULL, FirstName VARCHAR(255) NOT NULL, LastName VARCHAR(255), Years_of_Exp INT NOT NULL, DOB DATE NOT NULL,
Coaching_style VARCHAR(255) NOT NULL, TeamID INT NOT NULL, PRIMARY KEY (CoachID), FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID) );

```

[Edit inline] [Edit] [Create PHP code]

```
CREATE TABLE MEDIC
(
  MedID INT NOT NULL,
  FirstName VARCHAR(255) NOT NULL,
  LastName VARCHAR(255),
  Specialization VARCHAR(255) NOT NULL,
  Hospital VARCHAR(255) NOT NULL,
  Years_of_Exp INT,
  TeamID INT NOT NULL,
  PRIMARY KEY (MedID),
  FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID)
);
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE MEDIC ( MedID INT NOT NULL, FirstName VARCHAR(255) NOT NULL, LastName VARCHAR(255), Specialization VARCHAR(255) NOT NULL, Hospital VARCHAR(255) NOT NULL, Years_of_Exp INT, TeamID INT NOT NULL, PRIMARY KEY (MedID), FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID) );
```

[Edit inline] [Edit] [Create PHP code]

```
CREATE TABLE INVENTORY
(
  Name INT NOT NULL,
  Quantity INT NOT NULL,
  InventoryID INT NOT NULL,
  TeamID INT NOT NULL,
  PRIMARY KEY (InventoryID),
  FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID)
);
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
CREATE TABLE INVENTORY ( Name INT NOT NULL, Quantity INT NOT NULL, InventoryID INT NOT NULL, TeamID INT NOT NULL, PRIMARY KEY (InventoryID), FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID) );
```

[Edit inline] [Edit] [Create PHP code]

```
CREATE TABLE SPONSOR
(
  Amount INT NOT NULL,
  Name INT NOT NULL,
  TeamID INT NOT NULL,
  PRIMARY KEY (Name),
  FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID)
);
```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
CREATE TABLE SPONSOR ( Amount INT NOT NULL, Name INT NOT NULL, TeamID INT NOT NULL, PRIMARY KEY (Name), FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID) );
```

[Edit inline] [Edit] [Create PHP code]

Populating the Database

1) Loading and excel sheet

```
✓ 20 rows inserted (Query took 0.0172 seconds.)  
  
LOAD DATA INFILE 'players.csv' INTO TABLE player COLUMNS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"' ESCAPED BY '\\' LINES TERMINATED BY '\n' IGNORE 1 LINES;  
  
[ Edit view ] [ Edit ] [ Create PHP code ]
```

2) Loading a .sql file

```
✓ 1 row inserted (Query took 0.0002 seconds.)  
  
INSERT INTO 'coach' VALUES (1, 'Mehala', 'Playwardale', 36, 1078-09-11, 'Head Coach', 6);  
  
[ Edit view ] [ Edit ] [ Create PHP code ]
```

3) Inserting manually though SQL command line

```
✓ 1 row inserted (Query took 0.0002 seconds.)  
  
INSERT INTO 'coach' VALUES (1, 'Mehala', 'Playwardale', 36, 1078-09-11, 'Head Coach', 6);  
  
[ Edit view ] [ Edit ] [ Create PHP code ]
```


Join Queries

- 1) Display all players of TeamID=1

```
SELECT P.FirstName, P.Bats, P.Bowls, P.No_of_Matches FROM player AS P
NATURAL JOIN team AS T WHERE P.TeamID=1;
```

Showing rows 0 - 2 (3 total). Query took 0.0017 seconds.

```
SELECT P.FirstName, P.Bats, P.Bowls, P.No_of_Matches FROM player AS P NATURAL JOIN team AS T WHERE P.TeamID=1;
```

☐ Profiling ☐ Edit view ☐ Edit ☐ Explain SQL ☐ Create PHP code ☐ Refresh

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: Name

Extra options

FirstName	Bats	Bowls	No_of_Matches
Yuvendra	Right-Handed	Leg break googly	65
Dewdutt	Right-Handed	Right-arm fast	60
Faf	Right-Handed	Left-arm slow	57

- 2) Display the medics and coaches of the same TeamID.

```
SELECT M.TeamID, M.LastName, M.Specialization, C.LastName, C.Coaching_style
FROM medic as M
INNER JOIN coach as C
ON M.TeamID = C.TeamID;
```

Showing rows 0 - 7 (8 total). Query took 0.0005 seconds.

```
SELECT M.TeamID, M.LastName, M.Specialization, C.LastName, C.Coaching_style FROM medic as M INNER JOIN coach as C ON M.TeamID = C.TeamID;
```

☐ Profiling ☐ Edit view ☐ Edit ☐ Explain SQL ☐ Create PHP code ☐ Refresh

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

TeamID	LastName	Specialization	LastName	Coaching_style
1	Batra	Orthoped	Hessari	Head Coach
1	Batra	Orthoped	De Villers	Batting Coach
4	Hondaveer	Physio-therapy	Kumbhar	Head Coach
1	Singh	ENT	Hessari	Head Coach
1	Singh	ENT	De Villers	Batting Coach
7	Stark	Orthoped	Hessari	Head Coach
7	Stark	Orthoped	De Villers	Batting Coach
10	White	Dental	Dewdutt	Head Coach

- 3) Display the players and coaches of the same team.

```
SELECT P.FirstName, P.LastName, C.FirstName, C.LastName, P.Team_Name
FROM player AS P
RIGHT JOIN coach as C
ON C.TeamID = P.TeamID;
```

Showing rows 0 - 15 (16 total. Query took 0.0035 seconds)

```
SELECT P.Firstname, P.LastName, C.Firstname, C.LastName, P.Team_Name FROM player AS P RIGHT JOIN coach as C ON C.TeamID = P.TeamID;
```

☐ Refresh
 ☐ Edit View
 ☐ Edit
 ☐ Export SQL
 ☐ Create PHP code
 ☐ Refresh

☐ Show all
 Number of rows: 25
 Filter rows: Search this table
 Sort by key: Name

Data options

Firstname	LastName	Firstname	LastName	Team_Name
Rohit	Sharma	Mahela	Jagwardene	Mumbai Indians
Kieron	Pollard	Mahela	Jagwardene	Mumbai Indians
Jaquell	Burnath	Mahela	Jagwardene	Mumbai Indians
Yuzvendra	Chahal	Mike	Hesson	Royal Challengers Bangalore
Dewdutt	Padikkal	Mike	Hesson	Royal Challengers Bangalore
Faf	Du Plessis	Mike	Hesson	Royal Challengers Bangalore
K.L.	Rahul	Ashish	Nehra	Lucknow Super Giants
Manish	Pandey	Ashish	Nehra	Lucknow Super Giants
Yuzvendra	Chahal	AB	De Villers	Royal Challengers Bangalore
Dewdutt	Padikkal	AB	De Villers	Royal Challengers Bangalore
Faf	Du Plessis	AB	De Villers	Royal Challengers Bangalore
Meyrick	Agarwal	Anil	Kumble	Punjab Kings
Mohammed	Shami	Rohit	Dravid	Gujarat Titans
Hardik	Pandya	Rohit	Dravid	Gujarat Titans
Andre	Russell	Rocky	Ponting	Kolkata Knight Riders
Sunil	Narine	Rocky	Ponting	Kolkata Knight Riders

4) Display the sponsors of a team.

```
SELECT S.Name, T.TeamName FROM sponsor AS S LEFT JOIN team AS T ON S.TeamID = T.TeamID;
```

Showing rows 0 - 9 (9 total. Query took 0.0036 seconds)

```
SELECT S.Name, T.TeamName FROM sponsor AS S LEFT JOIN team AS T ON S.TeamID = T.TeamID;
```

☐ Refresh
 ☐ Edit View
 ☐ Edit
 ☐ Export SQL
 ☐ Create PHP code
 ☐ Refresh

☐ Show all
 Number of rows: 25
 Filter rows: Search this table
 Sort by key: Name

Data options

Name	TeamName
Ather Energy	Royal Challengers Bangalore
Unacademy	Royal Challengers Bangalore
Sika	Chennai Super Kings
Dabur	Punjab Kings
Fewer 104 FM	Punjab Kings
Mulhooth Finance	Punjab Kings
JK Lakshmi Cement	Kolkata Knight Riders
Balance 360	Mumbai Indians
My11Circle	Gujarat Titans

Aggregate Functions

- 1) Select the maximum, minimum and the average Runs of a player

```
SELECT MAX(Runs), MIN(Runs), AVG(Runs) FROM player;
```

Showing rows 0 - 0 (1 total, Query took 0.0012 seconds)

```
SELECT MAX(Runs), MIN(Runs), AVG(Runs) FROM player;
```

Profiling | Edit view | Edit | Explain SQL | Create PHP code | Refresh

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

MAX(Runs)	MIN(Runs)	AVG(Runs)
3000	200	1370.4500

- 2) Select those teams who's win percentage is above the average win percentage

```
SELECT TeamID, TeamName, Captain FROM team WHERE Win_percent > (SELECT AVG(Win_percent) FROM team);
```

Showing rows 0 - 5 (6 total, Query took 0.0011 seconds)

```
SELECT TeamID, TeamName, Captain FROM team WHERE Win_percent > (SELECT AVG(Win_percent) FROM team);
```

Profiling | Edit view | Edit | Explain SQL | Create PHP code | Refresh

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

TeamID	TeamName	Captain
1	Royal Challengers Bangalore	Virat Kohli
4	Punjab Kings	Mayank Agarwal
5	Kolkata Knight Riders	Shreyas Iyer
6	Mumbai Indians	Rohit Sharma
7	Rajasthan Royals	Sandeep Sharma
10	Gujarat Titans	Hardik Pandya

Check all | With selected | Edit | Copy | Delete | Export

- 3) Display the number of players in a given Team

```
SELECT Team_Name, COUNT(*) FROM player GROUP BY Team_Name;
```

Showing rows 0 - 9 (10 total, Query took 0.0002 seconds)

```
SELECT Team_Name, COUNT(*) FROM player GROUP BY Team_Name;
```

Profiling | Edit view | Edit | Explain SQL | Create PHP code | Refresh

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

Team_Name	COUNT(*)
Chennai Super Kings	3
Delhi Capitals	1
Gujarat Titans	2
Kolkata Knight Riders	2
Lucknow Super Giants	2
Mumbai Indians	3
Punjab Kings	1
Rajasthan Royals	1
Royal Challengers Bangalore	3
Sunrisers Hyderabad	2

- 4) Display the average amount sponsored by a sponsorer

```
SELECT TeamID, AVG(Amount) FROM sponsor GROUP BY TeamID;
```

Showing rows 0 - 5 (6 total, Query took 0.0006 seconds)

SELECT TeamID, AVG(Amount) FROM sponsor GROUP BY TeamID;

Profiling [Edit table] [Edit] [Explain SQL] [Create PHP code] [Backup]

Show all Number of rows: 25 Filter rows: Search this table

Extra options

	TeamID	AVG(Amount)
<input type="checkbox"/> Edit 34 Copy Delete	1	240.0000
<input type="checkbox"/> Edit 34 Copy Delete	3	200.0000
<input type="checkbox"/> Edit 34 Copy Delete	4	211.3333
<input type="checkbox"/> Edit 34 Copy Delete	5	180.0000
<input type="checkbox"/> Edit 34 Copy Delete	6	190.0000
<input type="checkbox"/> Edit 34 Copy Delete	10	175.0000

Set Operations

- 1) Join the players and coaches of team Royal Challengers Bangalore

```
SELECT P.FirstName , P.LastName FROM player as P
WHERE P.Team_Name= "Royal Challengers Bangalore"
UNION
SELECT C.FirstName, C.LastName FROM coach as C
WHERE C.TeamID= 1;
```

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds)

```
SELECT P.FirstName , P.LastName FROM player as P WHERE P.Team_Name= "Royal Challengers Bangalore" UNION SELECT C.FirstName, C.LastName FROM coach as C WHERE C.TeamID= 1;
```

☐ Profiling ☐ Edit view ☐ Edit ☐ Explain SQL ☐ Create PHP code ☐ Refresh

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

FirstName	LastName
Yuvendra	Chahal
David	Patel
Fat	De Plessis
Mike	Henson
AB	De Villers

- 2) Display the team name who has no medic assigned

```
SELECT TeamName FROM team as T
WHERE NOT EXISTS (SELECT MedID FROM medic as M WHERE M.TeamID= T.TeamID);
```

Showing rows 0 - 4 (5 total, Query took 0.0015 seconds)

```
SELECT TeamName FROM team as T WHERE NOT EXISTS (SELECT MedID FROM medic as M WHERE M.TeamID= T.TeamID);
```

☐ Profiling ☐ Edit view ☐ Edit ☐ Explain SQL ☐ Create PHP code ☐ Refresh

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

TeamName
Kolkata Knight Riders
Mumbai Indians
Rajasthan Royals
Sunshine Hyderabad
Lakshmi Super Giants

- 3) Display the teams who have net worth above 500 and investment above 200

```
SELECT TeamID FROM team
WHERE Net_Worth > 500
INTERSECT
SELECT TeamID FROM sponsor
WHERE Amount > 200;
```



- 4) Display the Left-Handed batsman of a team of given teamID

```
SELECT FirstName, LastName, Team_Name FROM player
WHERE Bats= 'Left-Handed'
INTERSECT
SELECT FirstName, LastName, Team_Name FROM player
WHERE TeamID=5;
```



Functions and Procedures

Function to calculate the total wins of a given Team Name

```
DELIMITER $$
CREATE FUNCTION total_wins(Team_Name varchar(255))
RETURNS INT
DETERMINISTIC
BEGIN
DECLARE win int;
SELECT COUNT(*) INTO win FROM game
WHERE Team_Name= Winner;
RETURN win;
END $$

DELIMITER;
```

MySQL returned an empty result set (0 or zero rows). (Query took 0.0062 seconds.)

```
CREATE FUNCTION total_wins(Team_Name varchar(255)) RETURNS INT DETERMINISTIC BEGIN DECLARE win int; SELECT COUNT(*) INTO win FROM game WHERE Team_Name= Winner; RETURN win; END;
```

1.04 rows (1.04) | Create SQL code

```
SELECT TeamID, TeamName, total_wins(TeamName) FROM team;
```

Showing rows 0 - 9 (10 total, Query took 0.0024 seconds)

SELECT TeamID, TeamName, total_wins(TeamName) FROM team;

Profiling [Edit mode] [SQL] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Export

	TeamID	TeamName	total_wins(TeamName)
<input type="checkbox"/>	1	Royal Challengers Bangalore	3
<input type="checkbox"/>	2	Chennai Super Kings	1
<input type="checkbox"/>	3	Delhi Capitals	0
<input type="checkbox"/>	4	Punjab Kings	0
<input type="checkbox"/>	5	Kolkata Knight Riders	0
<input type="checkbox"/>	6	Mumbai Indians	3
<input type="checkbox"/>	7	Rajasthan Royals	0
<input type="checkbox"/>	8	Sunrisers Hyderabad	0
<input type="checkbox"/>	9	Lucknow Super Giants	0
<input type="checkbox"/>	10	Gujarat Titans	1

Check all | With selected | Edit | Copy | Delete | Export

Procedure to increase the No_of_wickets taken by a player by one when called

```
DELIMITER $$  
CREATE PROCEDURE howzaat(IN player_id INT(11))  
BEGIN  
UPDATE player SET Wickets= Wickets+1 WHERE player_id= PlayerID;  
END $$  
  
DELIMITER;
```

✓ MySQL returned an empty result set (0 a. 200 rows). (Query took 0.0047 seconds)

```
CREATE PROCEDURE howzaat(IN player_id INT(11)) BEGIN UPDATE player SET Wickets= Wickets+1 WHERE player_id= PlayerID; END;
```

[Edit script] [Run] [Create PHP code]

```
CALL howzaat(14);
```

14	Hardik Pandya	Gujarat Titans	1345	35	1991-05-30	Right-Handed	Right arm medium-slow	54	10
----	---------------	----------------	------	----	------------	--------------	-----------------------	----	----

Triggers and Cursors

A Trigger to increase the number of players in team table when a player is added into the player table.

```
DELIMITER $$
CREATE TRIGGER player_plus_one
AFTER INSERT
ON player FOR EACH ROW
BEGIN
UPDATE team
SET No_of_players= No_of_players+1
WHERE new.TeamID = team.TeamID;
END $$

DELIMITER;
```

```

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.000 seconds.)

CREATE TRIGGER player_join_new AFTER INSERT ON player FOR EACH ROW BEGIN DECLARE team SET @team:=player.team; DECLARE new_team_id = team_team_id; END;

[Database] [100] [Create PHP code]

```

```
INSERT INTO player VALUES (69, 'Virat', 'Kohli', 'Royal Challengers  
Bnagalore',2700,20,'1985-09-13','Left-Handed', 'Right-arm fast',61, 1);
```

Player table:

	TeamID	TeamName	Owner	Net_Worth	Year_formed	Captain	Win_percent	Fairplay_points	No_of_players	Table_Rank	Head_coach
	1	Royal Challengers Bangalore	Anand Kishalu	526	2008	Virat Kohli	100	9	17	1	Mike Hesson

Team table:

	TeamID	TeamName	Owner	Net_Worth	Year_formed	Captain	Win_percent	Fairplay_points	No_of_players	Table_Rank	Head_coach
  	1	Royal Challengers Bangalore	Anand Kripalu	536	2008	Virat Kohi	100	0	18	1	Mike Hesson

A cursor that helps in addition of a player in to the Senior_Player table if his date of birth is less than 1985-12-31

```
CREATE TABLE SENIOR_PLAYER
(
    PlayerID INT NOT NULL,
    FirstName VARCHAR(255) NOT NULL,
    LastName VARCHAR(255),
    Team_Name VARCHAR(255),
    Runs INT NOT NULL,
    Wickets INT NOT NULL,
    DOB DATE NOT NULL,
    Bats VARCHAR(255) NOT NULL,
    Bowls VARCHAR(255) NOT NULL,
    No_of_Matches INT NOT NULL,
    TeamID INT NOT NULL,
    PRIMARY KEY (PlayerID),
    FOREIGN KEY (TeamID) REFERENCES TEAM(TeamID)
);
```

```
DELIMITER $$
CREATE PROCEDURE insert_senior_players(pid INT(11))
BEGIN
    DECLARE done INT default 0;
    DECLARE player_id INT;
    DECLARE fName VARCHAR(255);
    DECLARE lName VARCHAR(255);
    DECLARE team_name_var VARCHAR(255);
    DECLARE runs_var INT;
    DECLARE wickets_var INT;
    DECLARE d_o_b DATE;
    DECLARE bat_style VARCHAR(255);
    DECLARE bowl_style VARCHAR(255);
    DECLARE no_of_matches_var INT;
    DECLARE team_id INT;
    DECLARE cur CURSOR FOR SELECT
        PlayerID, FirstName, LastName, Team_Name, Runs, Wickets, DOB, Bats, Bowls,
        No_of_Matches, TeamID
    FROM player WHERE PlayerID=pid;
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done=1;

    OPEN cur;
    FETCH cur INTO player_id, fName, lName, team_name_var, runs_var, wickets_var,
    d_o_b, bat_style, bowl_style, no_of_matches_var, team_id;
    INSERT INTO SENIOR_PLAYER VALUES(player_id, fName, lName, team_name_var,
    runs_var, wickets_var, d_o_b, bat_style, bowl_style, no_of_matches_var, team_id);
    CLOSE cur;
END$$
```

```

DELIMITER $$
CREATE TRIGGER boomer_players_detector
AFTER INSERT
ON player FOR EACH ROW
BEGIN

IF (new.DOB < '1985-12-31')
THEN CALL insert_senior_players(new.PlayerID);
END IF;
END$$

DELIMITER;

```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.013 seconds)

```

CREATE PROCEDURE insert_senior_players(pID INT(11)) BEGIN DECLARE new INT DEFAULT 0; DECLARE player_id INT; DECLARE team VARCHAR(255); DECLARE team VARCHAR(255); DECLARE runs INT; DECLARE wickets INT; DECLARE bats VARCHAR(255); DECLARE bow VARCHAR(255); DECLARE bat_style VARCHAR(255); DECLARE bow_style VARCHAR(255); DECLARE no_of_matches INT; DECLARE cur CURSOR FOR SELECT PlayerID, FirstName, LastName, Team, Runs, Wickets, DOB, Bats, Bowls, No_of_Matches FROM player WHERE PlayerID=pID; DECLARE CONTINUE HANDLER FOR NOT FOUND SET done1=1; OPEN cur; REPEAT UNTIL done1 DO FETCH cur INTO player_id, team, team, runs, wickets, dob, bat_style, bow_style, no_of_matches; INSERT INTO SENIOR_PLAYERS VALUES(player_id, team, team, runs, wickets, dob, bat_style, bow_style, no_of_matches); CLOSE cur; END;

```

MySQL returned an empty result set (i.e. zero rows). (Query took 0.013 seconds)

```

CREATE TRIGGER boomer_players_detector BEFORE INSERT ON player FOR EACH ROW BEGIN IF (new.DOB < '1985-12-31') THEN CALL insert_senior_players(new.PlayerID); END IF; END;

```

Senior_player table:

	PlayerID	FirstName	LastName	Team_Name	Runs	Wickets	DOB	Bats	Bowls	No_of_Matches	TeamID
<input type="checkbox"/>	99	Shane	Warne	Rajasthan Royals	3000	100	1969-12-24	Right-Handed	Right-arm off spin	136	7

Developing a Frontend

Add player

Menu

Add Player

Indian Premium League D-Base

Enter PLAYER Details:

Player ID	1234
First Name	Virat
Last Name	Kohli
Team Name	Mumbai Indians
Role	Batsman
Date of Birth	1988-07-05
Height (cm)	185
Weight (kg)	75
Years of Experience	12
Current Team	Mumbai Indians
Playing Style	Right-handed
Batting Style	Right-hand bat
bowling Style	Right-arm off-spin
No. of matches played	150
Runs Scored	5000
Wickets Taken	150

Add Player Details

Successfully added Player with ID: 1234

Add coach

Menu

Add coach

Indian Premium League D-Base

Enter COACH Details:

Coach ID	2038
Coach First Name	Ravi
Coach Last Name	Sharma
Years of Experience	15
Date of Birth	1975-03-10
Coaching Style	Experienced Coach
Team ID	1

Add Coach Details

Successfully added Coach with ID: 2038

Add Inventory

Menu

Add Inventory

Indian Premium League D-Base

Enter INVENTORY Details:

Inventory Name

Rate

Quantity

12

Inventory ID

234

Team ID

F

Add Inventory Details

Successfully added inventory with ID: 234

Player ID: 10000000

View players

Menu

View PLAYER

Indian Premium League D-Base

View created players

View all Players

Player ID	Profile Name	Location	Team Name	Rate	Matches	Score	Role
11	10_A1	Kolkata	Lucknow Super Giants	2400	20	1350.05.18	Right-h
12	10_Marsh	Delhi	Lucknow Super Giants	1800	20	1880.08.18	Right-h
13	12_Rishi	Madhya	Kolkata Knight Riders	400	47	1886.11.08	Right-h
14	10_Kane	Williamstown	Sunrisers Hyderabad	800	29	1884.05.02	Right-h
15	10_Fat	Osaka	Royal Challengers Bangalore	1800	20	1800.09.02	Right-h
16	10_Jagade	Bombay	Mumbai Indians	800	86	1880.05.29	Right-h
17	10_Kapil	Delhi	Mumbai Indians	9400	180	1880.02.12	Right-h
18	10_Virat	Kerala	Royal Challengers Bangalore	2700	20	1885.09.13	Left-h
19	100_Jackie	Tamil Nadu	Mumbai Indians	12200	87	1810.04.18	Right-h
21	1029_Rishi	Madhya	Mumbai Indians	2200	22	1370.09.09	Right-h

Player ID: 10000000

The screenshot displays the 'Indian Premium League D-Base' application. On the left, a sidebar contains a 'Home' link and a 'New TEAM' button. The main content area is titled 'View created teams' and includes a 'View all teams' link. Below this is a table listing 10 teams with columns for Rank, Name, Owner, Est. (Year), New_Team, and Captain. To the right of the table is a pie chart showing the distribution of teams by owner. The legend for the pie chart lists the teams and their corresponding colors: Royal Challengers Bangalore (blue), Kolkata Knight Riders (orange), Chennai Super Kings (green), Rajasthan Royals (red), Punjab Kings (purple), Sunrisers Hyderabad (yellow), Delhi Capitals (pink), Lucknow Super Giants (light blue), Somerset/Chennai (light green), and Chennai Super Kings (dark blue).

Rank	Name	Owner	Est. (Year)	New_Team	Captain
1	Royal Challengers Bangalore	Anand Krishna	2008	2008	Virat Kohli
2	Chennai Super Kings	Real Maharashtra	2008	2008	MS Dhoni
3	Delhi Capitals	Colours Visual Media	2008	2008	Kamran Akmal
4	Punjab Kings	Salim Mehta	2008	2008	Mayank Agarwal
5	Kolkata Knight Riders	Vijay Singh	2008	2008	Shreyas Iyer
6	Rajasthan Royals	Rahul Singh	2008	2008	Rohit Sharma
7	Sunrisers Hyderabad	John Laich MCL Sports	2011	2011	Baigun Sharma
8	Sunrisers Hyderabad	Kavya Kataria	2011	2011	Kavya Kataria
9	Lucknow Super Giants	Rajeev Iyer	2011	2011	Rajeev Iyer
10	Chennai Super Kings	Rajeev Iyer	2011	2011	Harish Patel

[illegible]

Remove players

[illegible]