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PROBLEM STATEMENT

The database design of Indian Premier League(IPL) •

In this project we have designed a database for Indian Premier League(IPL) which helps the system to manage the information on matches, players, stats etc.

- **This will be managed by the BCCI. All the approvals and the activities are being headed by the chairman of the BCCI.**
- **This will help them to maintain each player's records, information about the tournament, stats of each and every match which is very well required for the smooth conduction of the tournaments.**
- **The database also contains the stats of each and every player as well as every team's stats by which we can keep track of their records, match information and point table can be distributed accordingly, which must be done by a good database.**

- **The database rather working on each player works for the each match also so that we can keep track of each match stats and can improve the ranking of each IPL team by it. It gives us the facility to manage tournaments and awards accordingly.**

• ASSUMPTIONS

- A team can have multiple number of players but a player can play for only one team. Hence, there exists 1:M relationship between the entities.

- A team can play multiple number of matches and a match has multiple (i.e 2) number of teams. Hence, there exists M:N relationship between the entities.

- A match will be played at one venue and a venue can have many number of matches. Hence, there exists M:1 relationship between the entities.

There exists 1:1 relationship between team entity and points table entity. Also, there is 1:1 relationship between match and match stats.

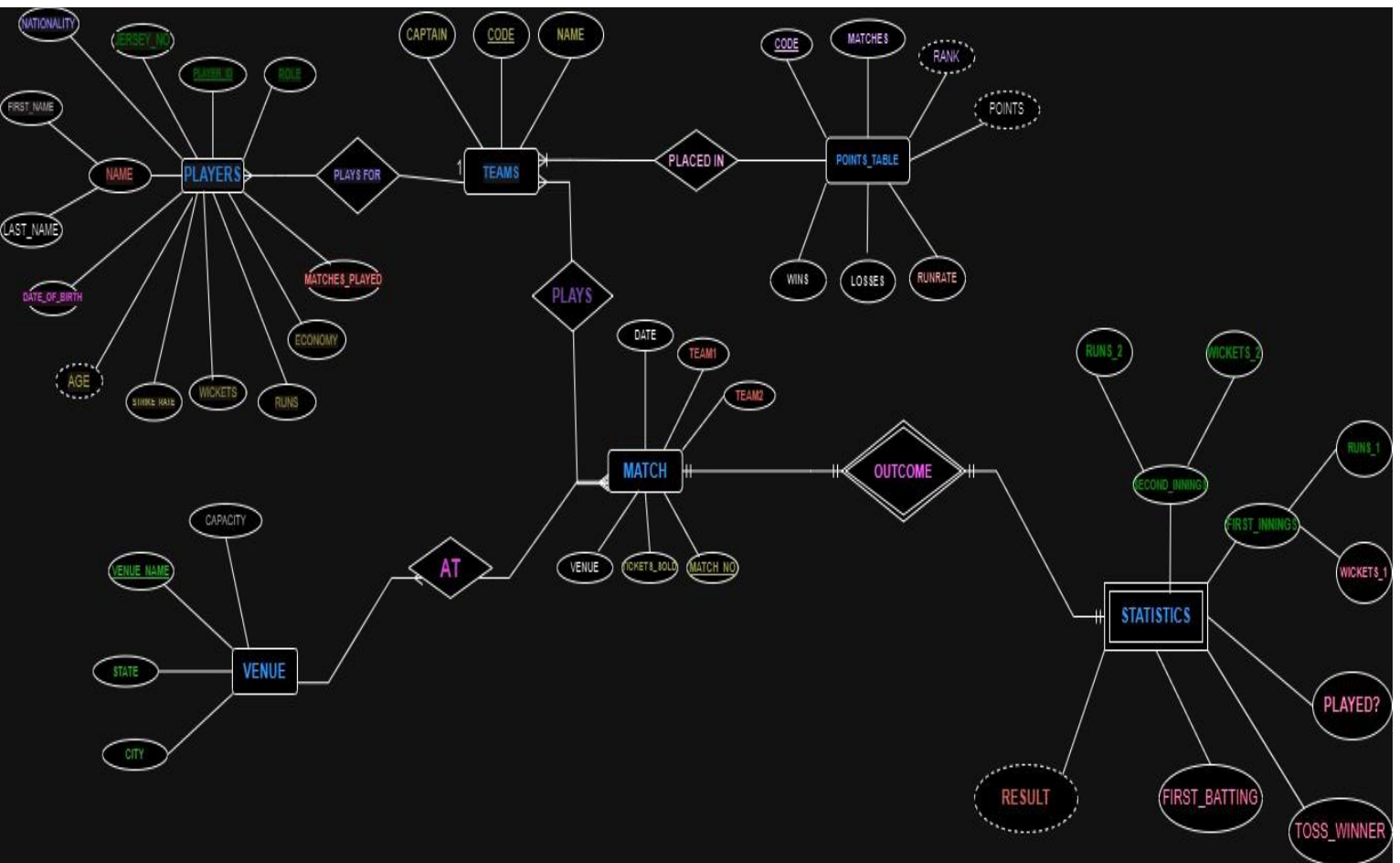
- In the entity set Points table, rank and points are derived attributes as points can be derived from wins and no result and rank is derived points and NRR.

-

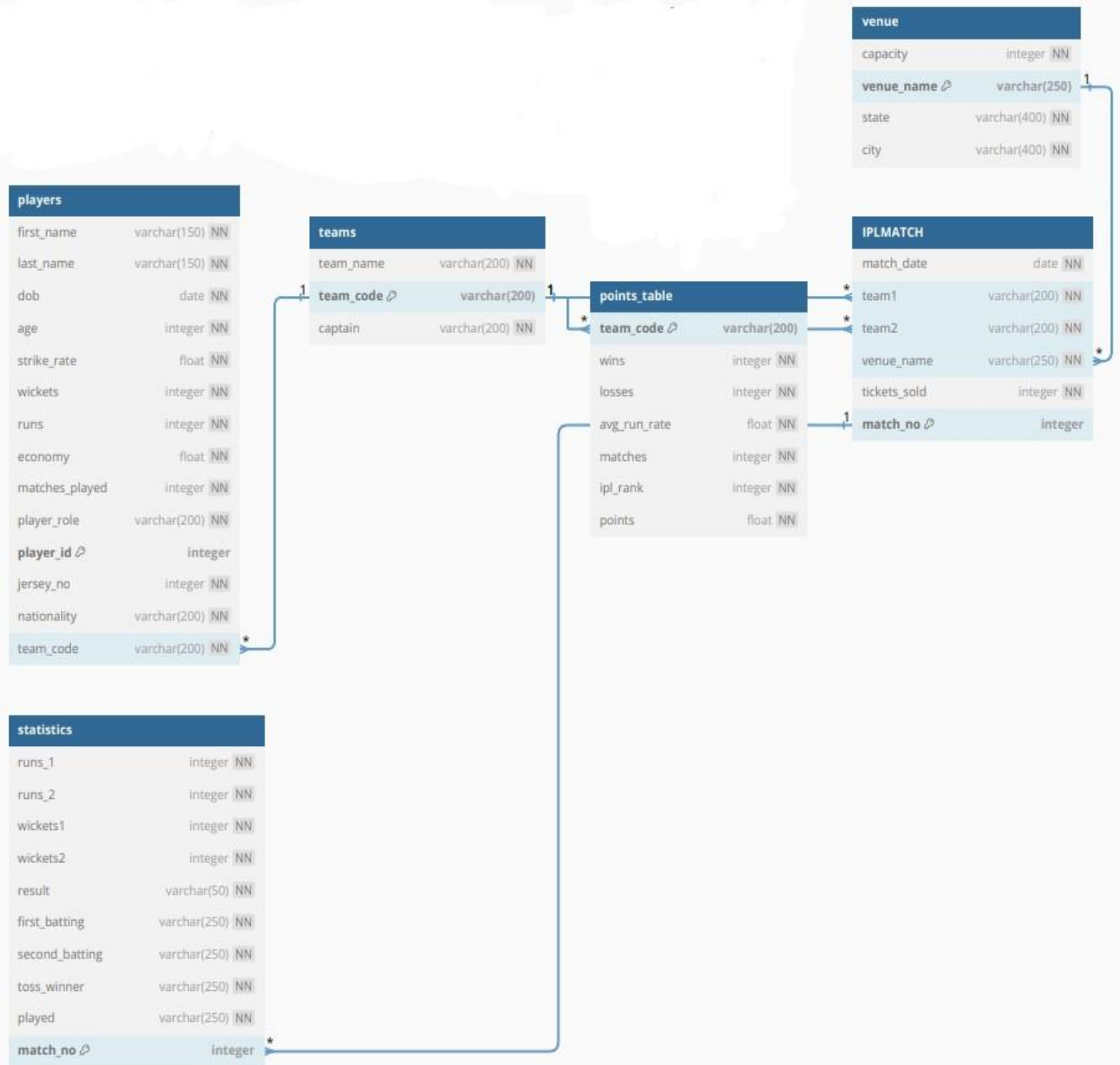
In the weak entity set statistics, result is derived from played or not, runs of team 1 and runs of team 2.

Here, we did not make a separate table for 'will play' relationship entity set because we already added foreign keys in Match entity set referring to Team code in Team entity set.

ER-MODEL



RELATIONAL SCHEMA



NORMALIZATION

Functional dependencies 1)

Team table

Team_code -> Name

Since Team_code is super key in the above relation, therefore it is already in BCNF.

2) Points table

Team_code -> Matches_played, wins, losses, no_result, net_rr, points, rank

Wins, losses, no_result -> points

Points, net_rr -> rank

Since we do not have super key in all the dependencies, therefore the above relation is not in BCNF. There is clear cut case of transitive dependency as Team_code -> wins, losses, no_result and wins, losses, no_result -> points.

Therefore, the above relation is not in 3NF as well.

There is no partial dependency in the above relation. Therefore, it is in 2NF.

3) Player table

Player_id -> first_name, last_name, nationality, date_of_birth, role, age, team_code, matches_played, runs, wickets, strike_rate, economy

Since Player_id is super key in the above relation, therefore it is already in BCNF.

4) IPLMatch table

Match_id -> team1, team2, date, stadium_name

Since Match_id is super key in the above relation, therefore it is already in BCNF.

5) statistics table

Match_id -> first_batting_team, runs1, wickets1, runs2, wickets2, played_or_not, result

Played_or_not, Runs1, runs2 -> result

Since we do not have super key in all the dependencies, therefore the above relation is not in BCNF. There is clear cut case of transitive dependency since Match_id -> Played_or_not, runs1, runs2 and played_or_not , runs1, runs2 -> result. There is no partial dependency in the above relation. Therefore, it is in 2NF.

6) Venue table

Stadium_name -> City, State

Since Stadium_name is super key in the above relation, therefore it is already in BCNF.

TABLE CREATION :

IPL DATA BASE CREATION:

```
1 • CREATE DATABASE IPL;
2 • USE IPL;
```

CREATION OF TABLES: VENUE TABLE:

```
3 • create table venue (
4     capacity integer not null,
5     venue_name varchar(250) primary key,
6     state varchar(400) not null,
7     city varchar(400) not null
8 );
```

PLAYERS TABLE:

```
• create table players (
    first_name varchar(150) not null,
    last_name varchar(150) not null,
    dob date not null,
    age integer not null,
    strike_rate float not null,
    wickets integer not null,
    runs integer not null,
    economy float not null,
    matches_played integer not null,
    player_role varchar(200) not null,
    player_id integer primary key auto_increment ,
    jersey_no integer not null,
    nationality varchar(200) not null,
    team_code varchar(200) not null,
    constraint fk_team_code foreign key (team_code) references teams (team_code)
);
```

TEAMS TABLE:

```
• create table teams(  
  team_name varchar(200) not null,  
  team_code varchar(200) primary key,  
  captain varchar(200) not null  
);
```

POINTS_TABLE :

```
• create table points_table (  
  team_code varchar(200) primary key,  
  wins integer not null,  
  losses integer not null,  
  avg_run_rate float not null,  
  matches integer not null,  
  ipl_rank integer not null,  
  points float not null,  
  constraint fk_team_code_points foreign key (team_code) references teams (team_code)  
);
```

IPL MATCH:

```
• create table IPLMATCH (  
  match_date date not null,  
  team1 varchar(200) not null,  
  team2 varchar(200) not null,  
  constraint team_1 foreign key (team1) references teams (team_code),  
  constraint team_2 foreign key (team2) references teams (team_code),  
  venue_name varchar(250) not null,  
  tickets_sold integer not null,  
  match_no integer primary key auto_increment,  
  constraint ven_fk foreign key (venue_name) references venue (venue_name)  
);
```

STATS TABLE:

```
• create table statistics (  
  runs_1 integer not null,  
  runs_2 integer not null,  
  wickets1 integer not null,  
  wickets2 integer not null,  
  result varchar(50) not null,  
  first_batting varchar(250) not null,  
  second_batting varchar(250) not null,  
  toss_winner varchar(250) not null,  
  played varchar(250) not null,  
  match_no integer primary key auto_increment,  
  constraint fk_match_no foreign key (match_no) references IPLMATCH (match_no)  
);
```

Adding foreign key constraints on all the tables

```
59 • ALTER TABLE
60   Player ADD CONSTRAINT player_team_code_foreign
61   FOREIGN KEY(team_code) REFERENCES Team(team_code);
62
63 • ALTER TABLE
64   Match_ ADD CONSTRAINT match_team1_foreign
65   FOREIGN KEY(team1) REFERENCES Team(team_code);
66
67 • ALTER TABLE
68   Match_ ADD CONSTRAINT match_team2_foreign
69   FOREIGN KEY(team2) REFERENCES Team(team_code);
70
71 • ALTER TABLE
72   Points_table ADD CONSTRAINT points_table_team_code_foreign
73   FOREIGN KEY(team_code) REFERENCES Team(team_code);
74
75 • ALTER TABLE
76   Match_ ADD CONSTRAINT match_stadium_name_foreign
77   FOREIGN KEY(stadium_name) REFERENCES Venue(stadium_name);
78
79 • ALTER TABLE
80   Match_stats ADD CONSTRAINT match_stats_match_id_foreign
81   FOREIGN KEY(match_id) REFERENCES Match_(match_id);
82
```


INSERTIONS

Into PLAYERS

- ```
INSERT INTO players (first_name, last_name, dob, age, strike_rate, wickets, runs, economy, matches_played, player_role, jersey_no, nationality, team_code)
VALUES
('Heinrich', 'Klaasen', '1991-07-30', 33, 177.07, 2, 448, 253, 12, 'Batsman', 12, 'South African', 'SRH'),
('Rahul', 'Tripathi', '1991-03-02', 33, 128.16, 1, 273, 213, 13, 'Batsman', 38, 'Indian', 'SRH'),
('Mayank', 'Agarwal', '1991-02-16', 33, 128.57, 0, 270, 210, 10, 'Batsman', 39, 'Indian', 'SRH'),
('Aiden', 'Markram', '1994-10-04', 29, 125.88, 2, 248, 197, 13, 'Batsman', 42, 'South African', 'SRH'),
('Abhishek', 'Sharma', '2000-09-04', 23, 143.94, 0, 226, 157, 11, 'All-rounder', 48, 'Indian', 'SRH'),
('Harry', 'Brook', '1999-03-24', 25, 123.37, 2, 190, 154, 11, 'Batsman', 52, 'English', 'SRH'),
('Abdul', 'Samad', '2001-10-28', 22, 132.03, 4, 169, 128, 9, 'All-rounder', 55, 'Indian', 'SRH'),
('Anmolpreet', 'Singh', '1998-03-28', 26, 128.04, 0, 105, 82, 4, 'Batsman', 72, 'Indian', 'SRH'),
('Vivrant', 'Sharma', '2000-08-15', 23, 146.80, 0, 69, 47, 3, 'Batsman', 82, 'Indian', 'SRH'),
('Washington', 'Sundar', '1999-10-05', 24, 100.00, 1, 60, 60, 7, 'All-rounder', 86, 'Indian', 'SRH'),
('Bhuvneshwar', 'Kumar', '1990-12-05', 33, 89.36, 3, 42, 47, 14, 'Bowler', 92, 'Indian', 'SRH');
```

```
select team_code,count(team_code) from players
group by team_code;
```

```
INSERT INTO players (first_name, last_name, dob, age, strike_rate, wickets, runs, economy, matches_played, player_role, jersey_no, nationality, team_code)
VALUES
('Shubman', 'Gill', '2000-09-08', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 157.80, 0, 890, 0, 17, 'Batsman', 1, 'Indian', 'GT'),
('Wriddhiman', 'Saha', '1984-10-24', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 129.26, 0, 371, 0, 17, 'Batsman', 21, 'Indian', 'GT'),
('Hardik', 'Pandya', '1993-10-11', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 141.40, 3, 346, 9.12, 16, 'All-Rounder', 23, 'Indian', 'GT'),
('Vijay', 'Shankar', '1991-01-26', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 160.00, 0, 301, 0, 14, 'All-Rounder', 31, 'Indian', 'GT'),
('David', 'Miller', '1989-06-10', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 145.50, 0, 259, 0, 16, 'Batsman', 41, 'South African', 'GT'),
('Rashid', 'Khan', '1998-09-20', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 216.66, 27, 130, 8.23, 17, 'Bowler', 64, 'Afghanistan', 'GT'),
('Mohammad', 'Shami', '1990-03-03', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 13.2, 28,522, 8.03, 14, 'Bowler', 1, 'Indian', 'GT'),
('Alzarri', 'Joseph', '1996-11-20', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 20.57, 7, 225, 9.37, 7, 'Bowler', 1, 'South African', 'GT'),
('Mohit', 'Sharma', '1988-09-18', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 9.81, 27, 361, 9.81, 14, 'Bowler', 1, 'Indian', 'GT'),
('Rahul', 'Tewatia', '1993-05-20', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 152.63, 0, 87, 0, 17, 'All-Rounder', 1, 'Indian', 'GT'),
('Sai', 'Sudarshan', '2000-12-10', TIMESTAMPDIFF(YEAR, dob, CURDATE()), 141.40, 0, 371, 0, 14, 'Batsman', 1, 'Indian', 'GT');
```

```
INSERT INTO players (first_name, last_name,dob,age,strike_rate,wickets,runs,economy,matches_played,player_role,jersey_no,nationality,team_code)
VALUES
('Shikhar', 'Dhawan', '1985-12-05', 37, 142.91, 0, 373, 0, 11, 'Batsman', 20, 'Indian', 'PBKS'),
('Simran', 'Singh', '1997-07-14', 24, 150.42, 0, 358, 0, 14, 'Batsman', 25, 'Indian', 'PBKS'),
('Jitesh', 'Sharma', '1993-11-08', 28, 156.06, 0, 309, 0, 14, 'Batsman', 30, 'Indian', 'PBKS'),
('Liam', 'Livingstone', '1993-08-04', 28, 163.15, 0, 279, 0, 9, 'Batsman', 35, 'English', 'PBKS'),
('Sam', 'Curran', '1998-06-03', 23, 135.96, 0, 276, 0, 14, 'All-rounder', 36, 'English', 'PBKS'),
('Atharva', 'Taide', '2000-02-14', 22, 144.18, 0, 186, 0, 7, 'Batsman', 54, 'Indian', 'PBKS'),
('Shahrukh', 'Khan', '1995-12-27', 26, 165.95, 0, 156, 0, 14, 'Batsman', 58, 'Indian', 'PBKS'),
('Sikandar', 'Raza', '1986-04-24', 35, 141.83, 0, 139, 0, 7, 'All-rounder', 62, 'Zimbabwean', 'PBKS'),
('Matthew', 'Short', '1995-06-04', 26, 127.17, 0, 117, 0, 6, 'Batsman', 67, 'Australian', 'PBKS'),
('Harpreet', 'Bhatia', '1991-10-17', 30, 128.81, 0, 76, 0, 3, 'Batsman', 80, 'Indian', 'PBKS'),
('Bhanuka', 'Rajapaksa', '1991-10-24', 30, 114.51, 0, 71, 0, 4, 'Batsman', 81, 'Sri Lankan', 'PBKS');
```

```

124 • INSERT INTO Player VALUES
125 (1,'Mahendra','Dhoni','Indian','1981-07-07','WicketKeeper','CSK',14,301,0,160,0),
126 (2,'Robin','Uthappa','Indian','1985-11-11','Batsman','CSK',14,144,0,150,0),
127 (3,'Shivam','Dubey','Indian','1993-06-26','Batsman','CSK',14,155,0,140,0),
128 (4,'Ruturaj','Gaikwad','Indian','1997-01-31','Batsman','CSK',14,542,0,130,0),
129 (5,'Ambati','Rayudu','Indian','1985-09-23','Batsman','CSK',14,341,0,120,0),
130 (6,'Ravindra','Jadeja','Indian','1988-12-06','All-Rounder','CSK',14,314,10,110,6.2),
131 (7,'Mukesh','Choudhary','Indian','1996-07-06','Bowler','CSK',14,213,20,100,6.5),
132 (8,'Dwayne','Pretorius','Foreign','1989-03-29','Bowler','CSK',14,300,15,90,6.8),
133 (9,'Chris','Jordan','Foreign','1988-10-04','All-Rounder','CSK',14,0,15,0,7.1),
134 (10,'Devon','Conway','Foreign','1991-07-08','Bowler','CSK',14,0,16,0,7.4),
135 (11,'Dwayne','Bravo','Foreign','1983-10-07','Bowler','CSK',14,0,17,0,7.7),
136 (12,'Ishan','Kishan','Indian','1998-07-18','WicketKeeper','MI',14,321,0,190,0),
137 (13,'Rohit','Sharma','Indian','1987-04-30','Batsman','MI',14,431,0,179,0),
138 (14,'Surya','Yadav','Indian','1990-09-14','Batsman','MI',14,650,0,134,0),
139 (15,'Tilak','Verma','Indian','2002-11-8','Batsman','MI',14,123,0,128,0),
140 (16,'Sachin','Tendulkar','Indian','1973-04-24','Batsman','MI',14,234,0,190,0),
141 (17,'Rahul','Sharma','Indian','1991-08-31','All-Rounder','MI',14,345,0,200,0),
142 (18,'Arjun','Tendulkar','Indian','1999-09-24','Bowler','MI',14,432,0,201,6.1),
143 (19,'Keiron','Pollard','Foreign','1987-05-12','Bowler','MI',14,342,0,90,6.4),
144 (20,'Lasith','Malinga','Foreign','1983-08-28','All-Rounder','MI',14,121,4,100,6.7),
145 (21,'Daniel','Sams','Foreign','1992-10-27','Bowler','MI',14,0,3,190,7),
146 (22,'Tim','David','Foreign','1996-03-16','Bowler','MI',14,0,2,239,7.3),

```



147 (23, 'Sheldon', 'Jackson', 'Indian', '1986-09-27', 'WicketKeeper', 'KKR', 14, 123, 0, 239, 0),  
 148 (24, 'Shreyas', 'Iyer', 'Indian', '1994-12-06', 'Batsman', 'KKR', 14, 231, 0, 239, 0),  
 149 (25, 'Ajinkya', 'Rahane', 'Indian', '1988-06-06', 'Batsman', 'KKR', 14, 423, 0, 239, 0),  
 150 (26, 'Shubman', 'Gill', 'Indian', '1999-09-08', 'Batsman', 'KKR', 14, 345, 0, 239, 0),  
 151 (27, 'Rinku', 'Singh', 'Indian', '1997-10-12', 'Batsman', 'KKR', 14, 643, 0, 239, 0),  
 152 (28, 'Venkatesh', 'Iyer', 'Indian', '1994-12-25', 'All-Rounder', 'KKR', 14, 1, 0, 100, 5.9),  
 153 (29, 'Prasidh', 'Krishna', 'Indian', '1996-02-19', 'Bowler', 'KKR', 14, 2, 11, 200, 6.1),  
 154 (30, 'Tim', 'Southee', 'Foreign', '1988-12-11', 'Bowler', 'KKR', 14, 423, 12, 121, 6.3),  
 155 (31, 'Andre', 'Russel', 'Foreign', '1988-04-29', 'All-Rounder', 'KKR', 14, 435, 13, 180, 6.5),  
 156 (32, 'Pat', 'Cummins', 'Foreign', '1987-07-11', 'Bowler', 'KKR', 14, 0, 14, 0, 6.7),  
 157 (33, 'Mitch', 'Starc', 'Foreign', '1989-09-15', 'Bowler', 'KKR', 14, 9, 15, 167, 0),  
 158 (34, 'Rishab', 'Pant', 'Indian', '1992-02-16', 'WicketKeeper', 'DC', 14, 190, 0, 119, 0),  
 159 (35, 'Prithvi', 'Shaw', 'Indian', '1993-11-11', 'Batsman', 'DC', 14, 176, 0, 120, 0),  
 160 (36, 'Mandeep', 'Singh', 'Indian', '1986-09-09', 'Batsman', 'DC', 14, 173, 0, 115, 0),  
 161 (37, 'Sarfaraz', 'Ahmed', 'Indian', '1981-12-12', 'Batsman', 'DC', 14, 156, 0, 117, 0),  
 162 (38, 'KS', 'Bharat', 'Indian', '1993-08-04', 'Batsman', 'DC', 14, 200, 0, 141, 9.2),  
 163 (39, 'Axar', 'Patel', 'Indian', '1993-08-04', 'AllRounder', 'DC', 14, 153, 0, 130, 8.8),  
 164 (40, 'Kamlesh', 'Nagarkoti', 'Indian', '1994-09-01', 'Bowler', 'DC', 14, 0, 10, 0, 8.4),  
 165 (41, 'Anrich', 'Nortje', 'Foreign', '1990-06-05', 'Bowler', 'DC', 14, 9, 0, 8, 8),  
 166 (42, 'Rowman', 'Powell', 'Foreign', '1989-09-12', 'AllRounder', 'DC', 14, 109, 8, 160, 7.6),  
 167 (43, 'Mitch', 'Marsh', 'Foreign', '1996-03-08', 'Bowler', 'DC', 14, 110, 7, 121, 7.2),  
 168 (44, 'Mustafiz', 'Rehman', 'Foreign', '1996-11-08', 'Bowler', 'DC', 14, 118, 6, 132, 6.8),  
 169 (45, 'Dinesh', 'Kartik', 'Indian', '1996-03-28', 'WicketKeeper', 'RCB', 14, 229, 0, 133, 0),  
 170 (46, 'Virat', 'Kohli', 'Indian', '1996-03-09', 'Batsman', 'RCB', 14, 445, 0, 143, 0),  
 171 (47, 'Anuj', 'Rawat', 'Indian', '1995-10-13', 'Batsman', 'RCB', 14, 332, 0, 136, 0),  
 172 (48, 'Mahipal', 'Lomror', 'Indian', '1998-11-19', 'Batsman', 'RCB', 14, 365, 0, 189, 0),  
 173 (49, 'Shahbaz', 'Ahmed', 'Indian', '1995-11-23', 'Batsman', 'RCB', 14, 343, 0, 190, 0),  
 174 (50, 'Harshal', 'Patel', 'Indian', '1995-10-16', 'AllRounder', 'RCB', 14, 252, 0, 178, 5.5),  
 175 (51, 'Akash', 'Deep', 'Indian', '1995-10-17', 'Bowler', 'RCB', 14, 151, 11, 153, 6),  
 176 (52, 'Josh', 'Hazelwood', 'Foreign', '1995-10-18', 'Bowler', 'RCB', 14, 0, 13, 0, 6.5),  
 177 (53, 'Sherfane', 'Rutherford', 'Foreign', '1990-11-23', 'Allrounder', 'RCB', 14, 2, 1, 20, 7),  
 178 (54, 'Glenn', 'Maxwell', 'Foreign', '1987-12-23', 'Bowler', 'RCB', 14, 363, 23, 100, 7.5),  
 179 (55, 'Faf', 'duplessis', 'Foreign', '1988-10-21', 'Bowler', 'RCB', 14, 535, 19, 200, 8),  
 180 (56, 'Naman', 'ojha', 'Indian', '1990-09-23', 'WicketKeeper', 'SRH', 14, 131, 0, 200, 0),  
 181 (57, 'Priyam', 'Garg', 'Indian', '1990-02-01', 'Batsman', 'SRH', 14, 232, 0, 132, 0),  
 182 (58, 'Rahul', 'Tripathi', 'Indian', '1988-11-30', 'Batsman', 'SRH', 14, 432, 0, 133, 0),  
 183 (59, 'Abhishek', 'Sharma', 'Indian', '1995-11-29', 'Batsman', 'SRH', 14, 540, 0, 139, 0),  
 184 (60, 'Vishnu', 'Vinod', 'Indian', '1990-12-23', 'Batsman', 'SRH', 14, 323, 0, 149, 0),  
 185 (61, 'Shashank', 'Singh', 'Indian', '1997-02-23', 'AllRounder', 'SRH', 14, 212, 0, 169, 6.6),  
 186 (62, 'Washington', 'Sunder', 'Indian', '1983-11-02', 'Bowler', 'SRH', 14, 160, 9, 134, 6.9),  
 187 (63, 'Kane', 'Williamson', 'Foreign', '1992-04-11', 'Bowler', 'SRH', 14, 170, 10, 200, 7.2),  
 188 (64, 'Umran', 'Malik', 'Foreign', '1992-05-27', 'Allrounder', 'SRH', 14, 180, 17, 129, 7.5),  
 189 (65, 'Sean', 'Abbott', 'Foreign', '1999-09-09', 'Bowler', 'SRH', 14, 9, 2, 90, 7.8),  
 190 (66, 'Marco', 'Jansen', 'Foreign', '1989-11-20', 'Bowler', 'SRH', 14, 0, 6, 0, 8.1);



```
INSERT INTO players (first_name, last_name, dob, age, strike_rate, wickets, runs, economy, matches_played, player_role
VALUES
```

```
('David', 'Warner', '1986-07-27', 37, 131.63, 0, 516, 0, 14, 'Batsman', 8, 'Australian', 'DC'),
('Axar', 'Patel', '1994-01-20', 28, 139.40, 0, 283, 0, 14, 'All-rounder', 34, 'Indian', 'DC'),
('Phil', 'Salt', '1996-12-28', 25, 163.90, 0, 218, 0, 9, 'Batsman', 49, 'English', 'DC'),
('Rilee', 'Rossouw', '1989-10-09', 32, 148.22, 0, 209, 0, 9, 'Batsman', 50, 'South African', 'DC'),
('Manish', 'Pandey', '1989-09-10', 32, 109.58, 0, 160, 0, 10, 'Batsman', 56, 'Indian', 'DC'),
('Mitchell', 'Marsh', '1991-10-20', 30, 131.95, 0, 128, 0, 9, 'All-rounder', 65, 'Australian', 'DC'),
('Aman', 'Khan', '1999-05-21', 23, 108.91, 0, 110, 0, 11, 'Batsman', 70, 'Indian', 'DC'),
('Prithvi', 'Shaw', '1999-11-09', 22, 124.70, 0, 106, 0, 8, 'Batsman', 71, 'Indian', 'DC'),
('Sarfaraz', 'Khan', '1997-10-27', 24, 85.48, 0, 53, 0, 4, 'Batsman', 88, 'Indian', 'DC'),
('Ripal', 'Patel', '2000-09-20', 21, 113.95, 0, 49, 0, 5, 'Batsman', 90, 'Indian', 'DC'),
('Anrich', 'Nortje', '1993-11-16', 28, 127.58, 0, 37, 0, 10, 'Bowler', 95, 'South African', 'DC'),
('Abishek', 'Porel', '1998-10-02', 24, 106.45, 0, 33, 0, 4, 'Bowler', 100, 'Indian', 'DC'),
('Kuldeep', 'Yadav', '1994-12-14', 27, 64.58, 0, 31, 0, 14, 'Bowler', 101, 'Indian', 'DC'),
('Priyam', 'Garg', '2000-11-30', 21, 95.65, 0, 22, 0, 2, 'Batsman', 108, 'Indian', 'DC'),
('Praveen', 'Dubey', '1994-06-05', 28, 80.00, 0, 16, 0, 1, 'All-rounder', 121, 'Indian', 'DC'),
('Yash', 'Dhull', '2002-12-05', 19, 69.56, 0, 16, 0, 4, 'Batsman', 123, 'Indian', 'DC'),
('Mukesh', 'Kumar', '1996-07-05', 25, 77.77, 0, 7, 0, 10, 'Bowler', 138, 'Indian', 'DC'),
('Rovman', 'Powell', '1993-07-23', 28, 77.77, 0, 7, 0, 3, 'All-rounder', 139, 'Jamaican', 'DC'),
('Chetan', 'Sakariya', '1998-02-28', 24, 66.66, 0, 4, 0, 2, 'Bowler', 148, 'Indian', 'DC');
```

```
('Marcus', 'Stoinis', '1990-08-16', 31, 150.00, 0, 408, 0, 15, 'All-Rounder', 15, 'Australian', 'LSG'),
('Kyle', 'Mayers', '1992-09-08', 29, 144.10, 0, 379, 0, 13, 'Batsman', 19, 'West Indian', 'LSG'),
('Nicholas', 'Pooran', '1995-10-02', 26, 172.94, 0, 358, 0, 15, 'Wicketkeeper Batsman', 24, 'West Indian', 'LSG'),
('K.L.', 'Rahul', '1992-04-18', 30, 113.22, 0, 274, 0, 9, 'Batsman', 37, 'Indian', 'LSG'),
('Ayush', 'Badoni', '1999-12-28', 22, 138.37, 0, 238, 0, 15, 'Batsman', 44, 'Indian', 'LSG'),
('Krunal', 'Pandya', '1991-03-24', 30, 113.93, 0, 188, 0, 15, 'All-Rounder', 53, 'Indian', 'LSG'),
('Quinton', 'De Kock', '1992-12-17', 29, 140.19, 0, 143, 0, 4, 'Wicketkeeper Batsman', 60, 'South African', 'LSG'),
('Prerak', 'Mankad', '1993-06-17', 28, 129.16, 0, 93, 0, 5, 'Batsman', 74, 'Indian', 'LSG'),
('Deepak', 'Hooda', '1995-04-19', 26, 93.33, 0, 84, 0, 12, 'All-Rounder', 78, 'Indian', 'LSG'),
('Krishnappa', 'Gowtham', '1988-10-20', 33, 164.86, 0, 61, 0, 7, 'All-Rounder', 85, 'Indian', 'LSG'),
('Ravi', 'Bishnoi', '2000-09-05', 21, 74.07, 5, 20, 6.67, 15, 'Bowler', 113, 'Indian', 'LSG'),
('Amit', 'Mishra', '1982-11-24', 39, 63.33, 19, 19, 19.00, 7, 'Bowler', 116, 'Indian', 'LSG'),
('Naveen', 'Ul Haq', '1982-11-24', 39, 76.19, 0, 16, 0, 8, 'Bowler', 122, '', 'LSG'),
('Karan', 'Sharma', '1987-10-23', 34, 57.14, 0, 12, 0, 2, 'Bowler', 130, 'Indian', 'LSG'),
('Mark', 'Wood', '1990-01-11', 32, 220.00, 1, 11, 11.00, 4, 'Bowler', 131, 'English', 'LSG'),
('Manan', 'Vohra', '1993-07-18', 28, 90.90, 0, 10, 10.00, 1, 'Batsman', 133, 'Indian', 'LSG'),
('Jaydev', 'Unadkat', '1991-10-18', 30, 128.57, 0, 9, 9.00, 3, 'Bowler', 136, 'Indian', 'LSG'),
('Swapnil', 'Singh', '1991-10-18', 30, 50.00, 0, 2, 0, 2, 'All-Rounder', 153, 'Indian', 'LSG'),
```

```

UPDATE players SET wickets = 16, economy = 7.74 WHERE first_name = 'Ravi' AND last_name = 'Bishnoi' AND team_code = 'LSG';
UPDATE players SET wickets = 13, economy = 9.07 WHERE first_name = 'Yash' AND last_name = 'Thakur' AND team_code = 'LSG';
UPDATE players SET wickets = 11, economy = 7.82 WHERE first_name = 'Naveen-Ul-Haq' AND team_code = 'LSG';
UPDATE players SET wickets = 11, economy = 8.12 WHERE first_name = 'Mark' AND last_name = 'Wood' AND team_code = 'LSG';
UPDATE players SET wickets = 9, economy = 7.45 WHERE first_name = 'Krunal' AND last_name = 'Pandya' AND team_code = 'LSG';
UPDATE players SET wickets = 8, economy = 9.75 WHERE first_name = 'Avesh' AND last_name = 'Khan' AND team_code = 'LSG';
UPDATE players SET wickets = 7, economy = 7.84 WHERE first_name = 'Amit' AND last_name = 'Mishra' AND team_code = 'LSG';
UPDATE players SET wickets = 5, economy = 9.23 WHERE first_name = 'Marcus' AND last_name = 'Stoinis' AND team_code = 'LSG';
UPDATE players SET wickets = 3, economy = 7.37 WHERE first_name = 'Krishnappa' AND last_name = 'Gowtham' AND team_code = 'LSG';
UPDATE players SET wickets = 3, economy = 8.75 WHERE first_name = 'Yudhvir' AND last_name = 'Singh' AND team_code = 'LSG';
UPDATE players SET wickets = 3, economy = 10.70 WHERE first_name = 'Mohsin' AND last_name = 'Khan' AND team_code = 'LSG';

INSERT INTO players (first_name, last_name, dob, age, strike_rate, wickets, runs, economy, matches_played, player_role, jersey_no, nationality, team_cod
('Faf', 'Du Plessis', '1994-03-20', 27, 153.68, 0, 730, 56.15, 14, 'Batsman', 2, 'South African', 'RCB'),
('Virat', 'Kohli', '1990-11-05', 33, 139.82, 0, 639, 53.25, 14, 'Batsman', 4, 'Indian', 'RCB'),
('Glenn', 'Maxwell', '1988-10-14', 33, 183.48, 0, 400, 33.33, 14, 'All-rounder', 17, 'Australian', 'RCB'),
('Dinesh', 'Karthik', '1985-06-01', 38, 134.61, 0, 140, 11.67, 13, 'Wicketkeeper', 61, 'Indian', 'RCB'),
('Mahipal', 'Lomror', '1999-11-16', 22, 139.17, 1, 135, 16.88, 12, 'All-rounder', 63, 'Indian', 'RCB'),
('Anuj', 'Rawat', '2000-10-17', 21, 128.16, 0, 91, 30.33, 9, 'Wicketkeeper', 75, 'Indian', 'RCB'),
('Michael', 'Bracewell', '1990-07-24', 31, 123.40, 0, 58, 29.00, 5, 'All-rounder', 87, 'New Zealander', 'RCB'),
('Shahbaz', 'Ahmed', '1994-08-17', 27, 107.69, 0, 42, 10.50, 10, 'All-rounder', 91, 'Indian', 'RCB'),
('Suyash', 'S Prabhudessai', '1998-08-17', 23, 120.68, 0, 35, 8.75, 5, 'All-rounder', 97, 'Indian', 'RCB'),
('David', 'Willey', '1990-02-28', 32, 109.37, 0, 35, 11.00, 4, 'All-rounder', 98, 'English', 'RCB'),
('Wanindu', 'Hasaranga', '1997-07-29', 24, 117.85, 0, 33, 16.50, 8, 'All-rounder', 99, 'Sri Lankan', 'RCB'),
('Akash', 'Deep', '1996-07-10', 25, 212.50, 0, 17, 17.00, 2, 'Bowler', 118, 'Indian', 'RCB'),
('Vyshak', 'Vijaykumar', '1997-05-09', 24, 144.44, 0, 13, 13.00, 7, 'Bowler', 127, 'Indian', 'RCB'),
('Kedar', 'Jadhav', '1985-03-26', 36, 120.00, 0, 12, 12.00, 2, 'All-rounder', 128, 'Indian', 'RCB'),
('Harshal', 'Patel', '1990-11-23', 31, 100.00, 0, 6, 3.00, 13, 'Bowler', 141, 'Indian', 'RCB'),
('Karn', 'Sharma', '1987-10-23', 34, 60.00, 0, 3, 1.50, 7, 'Bowler', 150, 'Indian', 'RCB'),
('Wayne', 'Parnell', '1989-07-30', 32, 40.00, 0, 2, 2.00, 7, 'Bowler', 154, 'South African', 'RCB'),
('Josh', 'Hazlewood', '1991-01-08', 31, 50.00, 0, 1, 1.00, 3, 'Bowler', 161, 'Australian', 'RCB'),

```

UPDATE players

SET wickets = CASE

```
 WHEN first_name = 'Mohammed' AND last_name = 'Siraj' THEN 19
 WHEN first_name = 'Harshal' AND last_name = 'Patel' THEN 14
 WHEN first_name = 'Karn' AND last_name = 'Sharma' THEN 10
 WHEN first_name = 'Wanindu' AND last_name = 'Hasaranga' THEN 9
 WHEN first_name = 'Wayne' AND last_name = 'Parnell' THEN 9
 WHEN first_name = 'Vyshak' AND last_name = 'Vijaykumar' THEN 9
 WHEN first_name = 'Michael' AND last_name = 'Bracewell' THEN 6
 WHEN first_name = 'David' AND last_name = 'Willey' THEN 3
 WHEN first_name = 'Josh' AND last_name = 'Hazlewood' THEN 3
 WHEN first_name = 'Glenn' AND last_name = 'Maxwell' THEN 3
 WHEN first_name = 'Reece' AND last_name = 'Topley' THEN 1
 WHEN first_name = 'Akash' AND last_name = 'Deep' THEN 1
 WHEN first_name = 'Shahbaz' AND last_name = 'Ahmed' THEN 1
END,
```

economy = CASE

```
 WHEN first_name = 'Mohammed' AND last_name = 'Siraj' THEN 7.52
 WHEN first_name = 'Harshal' AND last_name = 'Patel' THEN 9.65
 WHEN first_name = 'Karn' AND last_name = 'Sharma' THEN 10.37
 WHEN first_name = 'Wanindu' AND last_name = 'Hasaranga' THEN 8.89
 WHEN first_name = 'Wayne' AND last_name = 'Parnell' THEN 9.37
 WHEN first_name = 'Harshal' AND last_name = 'Patel' THEN 9.65
 WHEN first_name = 'Karn' AND last_name = 'Sharma' THEN 10.37
 WHEN first_name = 'Wanindu' AND last_name = 'Hasaranga' THEN 8.89
 WHEN first_name = 'Wayne' AND last_name = 'Parnell' THEN 9.37
 WHEN first_name = 'Vyshak' AND last_name = 'Vijaykumar' THEN 10.54
 WHEN first_name = 'Michael' AND last_name = 'Bracewell' THEN 8.63
 WHEN first_name = 'David' AND last_name = 'Willey' THEN 7.00
 WHEN first_name = 'Josh' AND last_name = 'Hazlewood' THEN 8.44
 WHEN first_name = 'Glenn' AND last_name = 'Maxwell' THEN 9.09
 WHEN first_name = 'Reece' AND last_name = 'Topley' THEN 7.00
 WHEN first_name = 'Akash' AND last_name = 'Deep' THEN 11.80
 WHEN first_name = 'Shahbaz' AND last_name = 'Ahmed' THEN 13.57
END
```

WHERE team\_code = 'RCB';

SET wickets = CASE

```
 WHEN first_name = 'Tushar' AND last_name = 'Deshpande' THEN 21
 WHEN first_name = 'Ravindra' AND last_name = 'Jadeja' THEN 20
 WHEN first_name = 'Matheesha' AND last_name = 'Pathirana' THEN 19
 WHEN first_name = 'Deepak' AND last_name = 'Chahar' THEN 13
 WHEN first_name = 'Maheesh' AND last_name = 'Theekshana' THEN 11
 WHEN first_name = 'Moeen' AND last_name = 'Ali' THEN 9
 WHEN first_name = 'Akash' AND last_name = 'Singh' THEN 5
 WHEN first_name = 'Mitchell' AND last_name = 'Santner' THEN 3
 WHEN first_name = 'Rajvardhan' AND last_name = 'Hangargekar' THEN 3
 WHEN first_name = 'Sisanda' AND last_name = 'Magala' THEN 1
END,
```

economy = CASE

```
 WHEN first_name = 'Tushar' AND last_name = 'Deshpande' THEN 9.92
 WHEN first_name = 'Ravindra' AND last_name = 'Jadeja' THEN 7.56
 WHEN first_name = 'Matheesha' AND last_name = 'Pathirana' THEN 8.00
 WHEN first_name = 'Deepak' AND last_name = 'Chahar' THEN 8.73
 WHEN first_name = 'Maheesh' AND last_name = 'Theekshana' THEN 8.00
 WHEN first_name = 'Moeen' AND last_name = 'Ali' THEN 7.50
 WHEN first_name = 'Akash' AND last_name = 'Singh' THEN 9.89
```



|   | player_id | first_name | last_name | nationality | date_of_birth | role         | team_code | matches_played | runs | wickets | strike_rate | economy |
|---|-----------|------------|-----------|-------------|---------------|--------------|-----------|----------------|------|---------|-------------|---------|
| ▶ | 1         | Mahendra   | Dhoni     | Indian      | 1981-07-07    | WicketKeeper | CSK       | 14             | 301  | 0       | 160         | 0       |
|   | 2         | Robin      | Uthappa   | Indian      | 1985-11-11    | Batsman      | CSK       | 14             | 144  | 0       | 150         | 0       |
|   | 3         | Shivam     | Dubey     | Indian      | 1993-06-26    | Batsman      | CSK       | 14             | 155  | 0       | 140         | 0       |
|   | 4         | Ruturaj    | Gaikwad   | Indian      | 1997-01-31    | Batsman      | CSK       | 14             | 542  | 0       | 130         | 0       |
|   | 5         | Ambati     | Rayudu    | Indian      | 1985-09-23    | Batsman      | CSK       | 14             | 341  | 0       | 120         | 0       |
|   | 6         | Ravindra   | Jadeja    | Indian      | 1988-12-06    | All-Rounder  | CSK       | 14             | 314  | 10      | 110         | 6.2     |
|   | 7         | Mukesh     | Choudhary | Indian      | 1996-07-06    | Bowler       | CSK       | 14             | 213  | 20      | 100         | 6.5     |
|   | 8         | Dwayne     | Pretorius | Foreign     | 1989-03-29    | Bowler       | CSK       | 14             | 300  | 15      | 90          | 6.8     |
|   | 9         | Chris      | Jordan    | Foreign     | 1988-10-04    | All-Rounder  | CSK       | 14             | 0    | 15      | 0           | 7.1     |
|   | 10        | Devon      | Conway    | Foreign     | 1991-07-08    | Bowler       | CSK       | 14             | 0    | 16      | 0           | 7.4     |
|   | 11        | Dwayne     | Bravo     | Foreign     | 1983-10-07    | Bowler       | CSK       | 14             | 0    | 17      | 0           | 7.7     |
|   | 12        | Ishan      | Kishan    | Indian      | 1998-07-18    | WicketKeeper | MI        | 14             | 321  | 0       | 190         | 0       |
|   | 13        | Rohit      | Sharma    | Indian      | 1987-04-30    | Batsman      | MI        | 14             | 431  | 0       | 179         | 0       |
|   | 14        | Surya      | Yadav     | Indian      | 1990-09-14    | Batsman      | MI        | 14             | 650  | 0       | 134         | 0       |
|   | 15        | Tilak      | Verma     | Indian      | 2002-11-08    | Batsman      | MI        | 14             | 123  | 0       | 128         | 0       |
|   | 16        | Sachin     | Tendulkar | Indian      | 1973-04-24    | Batsman      | MI        | 14             | 234  | 0       | 190         | 0       |

|  | player_id | first_name | last_name | nationality | date_of_birth | role         | team_code | matches_played | runs | wickets | strike_rate | economy |
|--|-----------|------------|-----------|-------------|---------------|--------------|-----------|----------------|------|---------|-------------|---------|
|  | 17        | Rahul      | Sharma    | Indian      | 1991-08-31    | All-Rounder  | MI        | 14             | 345  | 0       | 200         | 0       |
|  | 18        | Arjun      | Tendulkar | Indian      | 1999-09-24    | Bowler       | MI        | 14             | 432  | 0       | 201         | 6.1     |
|  | 19        | Keiron     | Pollard   | Foreign     | 1987-05-12    | Bowler       | MI        | 14             | 342  | 0       | 90          | 6.4     |
|  | 20        | Lasith     | Malinga   | Foreign     | 1983-08-28    | All-Rounder  | MI        | 14             | 121  | 4       | 100         | 6.7     |
|  | 21        | Daniel     | Sams      | Foreign     | 1992-10-27    | Bowler       | MI        | 14             | 0    | 3       | 190         | 7       |
|  | 22        | Tim        | David     | Foreign     | 1996-03-16    | Bowler       | MI        | 14             | 0    | 2       | 239         | 7.3     |
|  | 23        | Sheldon    | Jackson   | Indian      | 1986-09-27    | WicketKeeper | KKR       | 14             | 123  | 0       | 239         | 0       |
|  | 24        | Shreyas    | Iyer      | Indian      | 1994-12-06    | Batsman      | KKR       | 14             | 231  | 0       | 239         | 0       |
|  | 25        | Ajinkya    | Rahane    | Indian      | 1988-06-06    | Batsman      | KKR       | 14             | 423  | 0       | 239         | 0       |
|  | 26        | Shubman    | Gill      | Indian      | 1999-09-08    | Batsman      | KKR       | 14             | 345  | 0       | 239         | 0       |
|  | 27        | Rinku      | Singh     | Indian      | 1997-10-12    | Batsman      | KKR       | 14             | 643  | 0       | 239         | 0       |
|  | 28        | Venkatesh  | Iyer      | Indian      | 1994-12-25    | All-Rounder  | KKR       | 14             | 1    | 0       | 100         | 5.9     |
|  | 29        | Prasidh    | Krishna   | Indian      | 1996-02-19    | Bowler       | KKR       | 14             | 2    | 11      | 200         | 6.1     |
|  | 30        | Tim        | Southee   | Foreign     | 1988-12-11    | Bowler       | KKR       | 14             | 423  | 12      | 121         | 6.3     |
|  | 31        | Andre      | Russel    | Foreign     | 1988-04-29    | All-Rounder  | KKR       | 14             | 435  | 13      | 180         | 6.5     |
|  | 32        | Pat        | Cummins   | Foreign     | 1987-07-11    | Bowler       | KKR       | 14             | 0    | 14      | 0           | 6.7     |

|  | player_id | first_name | last_name | nationality | date_of_birth | role         | team_code | matches_played | runs | wickets | strike_rate | economy |
|--|-----------|------------|-----------|-------------|---------------|--------------|-----------|----------------|------|---------|-------------|---------|
|  | 33        | Mitch      | Starc     | Foreign     | 1989-09-15    | Bowler       | KKR       | 14             | 9    | 15      | 167         | 0       |
|  | 34        | Rishab     | Pant      | Indian      | 1992-02-16    | WicketKeeper | DC        | 14             | 190  | 0       | 119         | 0       |
|  | 35        | Prithvi    | Shaw      | Indian      | 1993-11-11    | Batsman      | DC        | 14             | 176  | 0       | 120         | 0       |
|  | 36        | Mandeep    | Singh     | Indian      | 1986-09-09    | Batsman      | DC        | 14             | 173  | 0       | 115         | 0       |
|  | 37        | Sarfaraz   | Ahmed     | Indian      | 1981-12-12    | Batsman      | DC        | 14             | 156  | 0       | 117         | 0       |
|  | 38        | KS         | Bharat    | Indian      | 1993-08-04    | Batsman      | DC        | 14             | 200  | 0       | 141         | 9.2     |
|  | 39        | Axar       | Patel     | Indian      | 1993-08-04    | AllRounder   | DC        | 14             | 153  | 0       | 130         | 8.8     |
|  | 40        | Kamlesh    | Nagarkoti | Indian      | 1994-09-01    | Bowler       | DC        | 14             | 0    | 10      | 0           | 8.4     |
|  | 41        | Anrich     | Nortje    | Foreign     | 1990-06-05    | Bowler       | DC        | 14             | 9    | 0       | 8           | 8       |
|  | 42        | Rowman     | Powell    | Foreign     | 1989-09-12    | AllRounder   | DC        | 14             | 109  | 8       | 160         | 7.6     |
|  | 43        | Mitch      | Marsh     | Foreign     | 1996-03-08    | Bowler       | DC        | 14             | 110  | 7       | 121         | 7.2     |
|  | 44        | Mustafiz   | Rehman    | Foreign     | 1996-11-08    | Bowler       | DC        | 14             | 118  | 6       | 132         | 6.8     |
|  | 45        | Dinesh     | Kartik    | Indian      | 1996-03-28    | WicketKeeper | RCB       | 14             | 229  | 0       | 133         | 0       |
|  | 46        | Virat      | Kohli     | Indian      | 1996-03-09    | Batsman      | RCB       | 14             | 445  | 0       | 143         | 0       |
|  | 47        | Anuj       | Rawat     | Indian      | 1995-10-13    | Batsman      | RCB       | 14             | 332  | 0       | 136         | 0       |
|  | 48        | Mahipal    | Lomror    | Indian      | 1998-11-19    | Batsman      | RCB       | 14             | 365  | 0       | 189         | 0       |

| player_id | first_name | last_name  | nationality | date_of_birth | role         | team_code | matches_played | runs | wickets | strike_rate | economy |
|-----------|------------|------------|-------------|---------------|--------------|-----------|----------------|------|---------|-------------|---------|
| 49        | Shahbaz    | Ahmed      | Indian      | 1995-11-23    | Batsman      | RCB       | 14             | 343  | 0       | 190         | 0       |
| 50        | Harshal    | Patel      | Indian      | 1995-10-16    | AllRounder   | RCB       | 14             | 252  | 0       | 178         | 5.5     |
| 51        | Akash      | Deep       | Indian      | 1995-10-17    | Bowler       | RCB       | 14             | 151  | 11      | 153         | 6       |
| 52        | Josh       | Hazeldwood | Foreign     | 1995-10-18    | Bowler       | RCB       | 14             | 0    | 13      | 0           | 6.5     |
| 53        | Sherfane   | Rutherford | Foreign     | 1990-11-23    | Allrounder   | RCB       | 14             | 2    | 1       | 20          | 7       |
| 54        | Glenn      | Maxwell    | Foreign     | 1987-12-23    | Bowler       | RCB       | 14             | 363  | 23      | 100         | 7.5     |
| 55        | Faf        | duplessis  | Foreign     | 1988-10-21    | Bowler       | RCB       | 14             | 535  | 19      | 200         | 8       |
| 56        | Naman      | ojha       | Indian      | 1990-09-23    | WicketKeeper | SRH       | 14             | 131  | 0       | 200         | 0       |
| 57        | Priyam     | Garg       | Indian      | 1990-02-01    | Batsman      | SRH       | 14             | 232  | 0       | 132         | 0       |
| 58        | Rahul      | Tripathi   | Indian      | 1988-11-30    | Batsman      | SRH       | 14             | 432  | 0       | 133         | 0       |
| 59        | Abhishek   | Sharma     | Indian      | 1995-11-29    | Batsman      | SRH       | 14             | 540  | 0       | 139         | 0       |
| 60        | Vishnu     | Vinod      | Indian      | 1990-12-23    | Batsman      | SRH       | 14             | 323  | 0       | 149         | 0       |
| 61        | Shashank   | Singh      | Indian      | 1997-02-23    | AllRounder   | SRH       | 14             | 212  | 0       | 169         | 6.6     |
| 62        | Washington | Sunder     | Indian      | 1983-11-02    | Bowler       | SRH       | 14             | 160  | 9       | 134         | 6.9     |
| 63        | Kane       | Williamson | Foreign     | 1992-04-11    | Bowler       | SRH       | 14             | 170  | 10      | 200         | 7.2     |
| 64        | Umran      | Malik      | Foreign     | 1992-05-27    | Allrounder   | SRH       | 14             | 180  | 17      | 129         | 7.5     |
| 65        | Sean       | Abbott     | Foreign     | 1999-09-09    | Bowler       | SRH       | 14             | 9    | 2       | 90          | 7.8     |
| 66        | Marco      | Jansen     | Foreign     | 1989-11-20    | Bowler       | SRH       | 14             | 0    | 6       | 0           | 8.1     |

DISPLAYING FEW PLAYERS FROM PLAYERS TABLE

## INSERTIONS INTO TEAMS

```

insert into teams (team_name,team_code,captain) values ('Chennai Super Kings','CSK','RuthuRaj Gaikwad');
insert into teams (team_name,team_code,captain) values ('Sun Risers','SRH','David Warner');
insert into teams (team_name,team_code,captain) values ('Mumbai Indians','MI','Rohit Sharma');
insert into teams (team_name,team_code,captain) values ('Kolkata Night Riders','KKR','Shubman Gill');-- --update
insert into teams (team_name,team_code,captain) values ('Delhi Capitals','DC','Rishab Pant');
insert into teams (team_name,team_code,captain) values ('Royal Challengers Bangalore','RCB','Virat Kohli');
insert into teams (team_name,team_code,captain) values ('Pujab Kings','PKBS','Shikar Dhawan');
insert into teams (team_name,team_code,captain) values ('Gujarath Titans','GT','Hardik Pandya');
insert into teams (team_name,team_code,captain) values ('Lucknow Super Giants','LSG','K.L.Rahul');
insert into teams (team_name,team_code,captain) values ('Rajasthan Royals','RR','Sanju Samson');
update teams
set captain='M.S Dhoni'
where team_code = 'CSK';

```

```

update teams
set captain = 'Aiden Markram'
where team_code = 'SRH';
update teams
set captain = 'Nitish Rana'
where team_code = 'KKR';
update teams
set captain = 'David Warner'
where team_code = 'DC';

SELECT * FROM teams;

```



## TEAMS TABLE

|   | team_name            | team_code | captain          |
|---|----------------------|-----------|------------------|
| ▶ | Chennai Super Kings  | CSK       | RuthuRaj Gaikwad |
|   | Delhi Capitals       | DC        | David Warner     |
|   | Gujarath Titans      | GT        | Hardik Pandya    |
|   | Kolkata Night Riders | KKR       | Nitish Rana      |
|   | Lucknow Super Giants | LSG       | K.L.Rahul        |
|   | Mumbai Indians       | MI        | Rohit Sharma     |
|   | Punjab Kings         | PBKS      | K.L.Rahul        |
|   | Royal Challengers    | RCB       | Virat Kohli      |
|   | Rajasthan Royals     | RR        | Sanju Samson     |
|   | Sun Risers           | SRH       | Aiden Markram    |
| ● | NULL                 | NULL      | NULL             |

## POINTS TABLE:

```
insert into points_table (team_code,matches,wins,losses,avg_run_rate,ipl_rank,points) values
('GT',5,4,1,0.804,1,20),
('CSK',5,3,2,0.652,2,17),
('LSG',5,3,2,0.284,3,17),
('MI',5,3,2,-0.044,4,16),
('RR',5,2,3,0.148,5,14),
('RCB',5,2,3,0.135,6,14),
('KKR',5,3,2,-0.239,7,12),
('PBKS',5,4,1,-0.304,8,12),
('DC',5,3,2,-0.808,9,10),
('SRH',5,1,4,-0.590,10,8);
```

## FIXTURES(IPL MATCH):

```
('2023-04-06', 'RCB', 'KKR', 'M. Chinnaswamy Stadium', 6),
('2023-04-07', 'MI', 'PBKS', 'Wankhede Stadium', 7),
('2023-04-08', 'DC', 'SRH', 'Arun Jaitley Stadium', 8),
('2023-04-09', 'CSK', 'RR', 'M. A. Chidambaram Stadium', 9),
('2023-04-10', 'GT', 'LSG', 'Brabourne Stadium', 10),
-- Continue inserting fixtures for all teams and matches as per the schedule
('2023-04-11', 'KKR', 'PBKS', 'Eden Gardens', 11),
('2023-04-12', 'RCB', 'CSK', 'M. Chinnaswamy Stadium', 12),
('2023-04-13', 'MI', 'SRH', 'Wankhede Stadium', 13),
('2023-04-14', 'MI', 'RR', 'Brabourne Stadium', 14),
('2023-04-15', 'LSG', 'DC', 'PCA Stadium', 15),
('2023-04-16', 'KKR', 'SRH', 'Eden Gardens', 16),
('2023-04-17', 'RCB', 'RR', 'M. Chinnaswamy Stadium', 17),
('2023-04-18', 'MI', 'DC', 'Wankhede Stadium', 18),
('2023-04-19', 'RCB', 'SRH', 'Brabourne Stadium', 19),
('2023-04-20', 'LSG', 'PBKS', 'PCA Stadium', 20);
```

MySQL Workbench

local host x

File Edit View Query Database Server Tools Scripting Help

Navigator

ip1 database project\_1\_finished project\_2\_dbms

Limit to 1000 rows

609 • USE IPL;

610 • SELECT \* FROM IPLMATCH;

611 • UPDATE POINTS\_TABLE SET LOSSES = 2

612 WHERE TEAM\_CODE IN ('RR');

613 • UPDATE POINTS\_TABLE SET LOSSES = 2

Result Grid

| match_date | team1 | team2 | venue_name                | match_no |
|------------|-------|-------|---------------------------|----------|
| 2023-04-01 | KKR   | RCB   | Wankhede Stadium          | 1        |
| 2023-04-02 | DC    | KKR   | Arun Jaitley Stadium      | 2        |
| 2023-04-03 | CSK   | PBKS  | M. A. Chidambaram Stadium | 3        |
| 2023-04-04 | RR    | SRH   | Sawai Mansingh Stadium    | 4        |
| 2023-04-05 | LSG   | GT    | Brabourne Stadium         | 5        |
| 2023-04-06 | RCB   | KKR   | M. Chinnaswamy Stadium    | 6        |
| 2023-04-07 | MI    | PBKS  | Wankhede Stadium          | 7        |
| 2023-04-08 | DC    | SRH   | Arun Jaitley Stadium      | 8        |
| 2023-04-09 | CSK   | RR    | M. A. Chidambaram Stadium | 9        |
| 2023-04-10 | GT    | LSG   | Brabourne Stadium         | 10       |
| 2023-04-11 | KKR   | PBKS  | Eden Gardens              | 11       |
| 2023-04-12 | RCB   | CSK   | M. Chinnaswamy Stadium    | 12       |
| 2023-04-13 | MI    | GT    | Wankhede Stadium          | 13       |
| 2023-04-14 | MI    | RR    | Brabourne Stadium         | 14       |

Object Info

Output

100°

Search

ENG IN

16:37 31-03-2024

## PLAYOFF'S AND FINAL:

```
50
51 -- Inserting playoff fixtures
52 * INSERT INTO iplmatch (match_date, team1, team2, venue_name, match_no)
53 VALUES
54 ('2023-05-01', 'SRH', 'GT', 'Eden Gardens', 41), -- Playoff 1
55 ('2023-05-02', 'MI', 'CSK', 'Wankhede Stadium', 42); -- Playoff 2
56
57 -- Inserting tournament result
58 * INSERT INTO iplmatch(match_date, team1, team2, venue_name,match_no)
59 VALUES
60 ('2023-05-04', 'CSK', 'GT', 'Wankhede Stadium',43); -- Final
61
```

MySQL Workbench

local host x

File Edit View Query Database Server Tools Scripting Help

Navigator | ipl database project\_1\_finished | project\_2\_dbms

Limit to 1000 rows

SCHEMAS

Filter objects

- cons
- hospital
- hospital\_
- ipl
  - Table
  - Views
  - Store
  - Funcs
- mydb
- newempl
- str1
- students

Administrat

Information

No object selected

```
609 * USE IPL;
610 * SELECT * FROM IPLMATCH;
611 * UPDATE POINTS_TABLE SET LOSSES = 2
612 WHERE TEAM_CODE IN ('RR');
613 * UPDATE POINTS_TABLE SET WINNERS = 2
```

Result Grid

| match_date | team1 | team2 | venue_name             | match_no |
|------------|-------|-------|------------------------|----------|
| 2023-04-12 | RCB   | CSK   | M. Chinnaswamy Stadium | 12       |
| 2023-04-13 | MI    | GT    | Wankhede Stadium       | 13       |
| 2023-04-14 | MI    | RR    | Brabourne Stadium      | 14       |
| 2023-04-15 | LSG   | DC    | PCA Stadium            | 15       |
| 2023-04-16 | KKR   | SRH   | Eden Gardens           | 16       |
| 2023-04-17 | RCB   | RR    | M. Chinnaswamy Stadium | 17       |
| 2023-04-18 | MI    | DC    | Wankhede Stadium       | 18       |
| 2023-04-19 | RCB   | SRH   | Brabourne Stadium      | 19       |
| 2023-04-20 | LSG   | PBKS  | PCA Stadium            | 20       |
| 2023-05-01 | SRH   | GT    | Eden Gardens           | 41       |
| 2023-05-02 | MI    | CSK   | Wankhede Stadium       | 42       |
| 2023-05-04 | CSK   | GT    | Wankhede Stadium       | 43       |
| 4000       | 4000  | 4000  | 4000                   | 4000     |

IPLMATCH 2 x

Object Info

Output

Apply Revert

100°

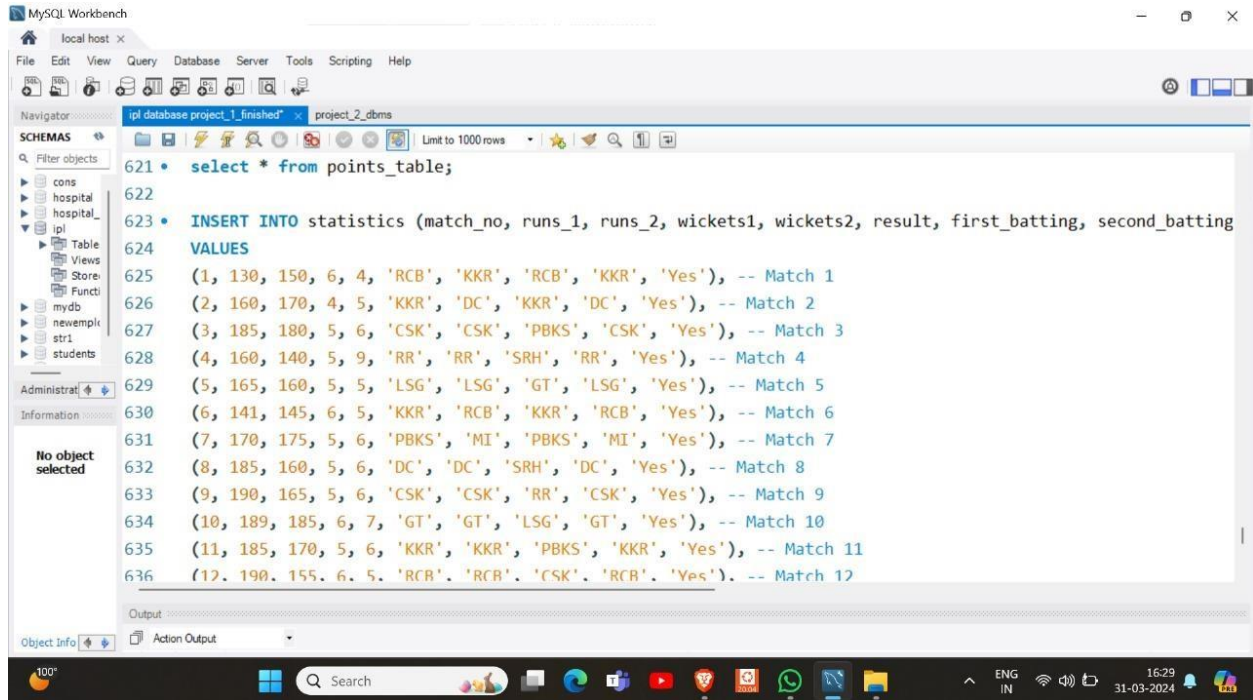
Search

ENG IN

16:37 31-03-2024



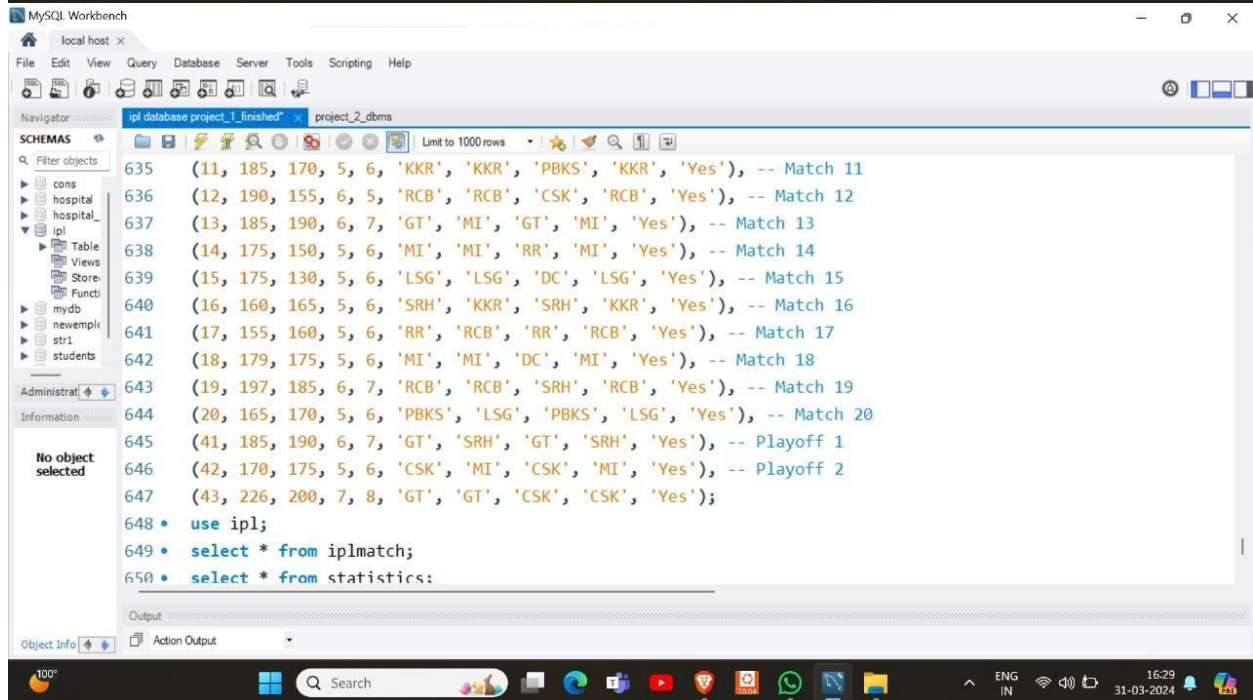
## STATS:



The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' panel with a tree view containing 'cons', 'hospital', 'hospital\_', 'ipl', 'mydb', 'newempl', 'stri', and 'students'. The 'ipl' schema is selected. The main editor window shows a query editor with the following SQL code:

```
621 • select * from points_table;
622
623 • INSERT INTO statistics (match_no, runs_1, runs_2, wickets1, wickets2, result, first_batting, second_batting
624 VALUES
625 (1, 130, 150, 6, 4, 'RCB', 'KKR', 'RCB', 'KKR', 'Yes'), -- Match 1
626 (2, 160, 170, 4, 5, 'KKR', 'DC', 'KKR', 'DC', 'Yes'), -- Match 2
627 (3, 185, 180, 5, 6, 'CSK', 'CSK', 'PBKS', 'CSK', 'Yes'), -- Match 3
628 (4, 160, 140, 5, 9, 'RR', 'RR', 'SRH', 'RR', 'Yes'), -- Match 4
629 (5, 165, 160, 5, 5, 'LSG', 'LSG', 'GT', 'LSG', 'Yes'), -- Match 5
630 (6, 141, 145, 6, 5, 'KKR', 'RCB', 'KKR', 'RCB', 'Yes'), -- Match 6
631 (7, 170, 175, 5, 6, 'PBKS', 'MI', 'PBKS', 'MI', 'Yes'), -- Match 7
632 (8, 185, 160, 5, 6, 'DC', 'DC', 'SRH', 'DC', 'Yes'), -- Match 8
633 (9, 190, 165, 5, 6, 'CSK', 'CSK', 'RR', 'CSK', 'Yes'), -- Match 9
634 (10, 189, 185, 6, 7, 'GT', 'GT', 'LSG', 'GT', 'Yes'), -- Match 10
635 (11, 185, 170, 5, 6, 'KKR', 'KKR', 'PBKS', 'KKR', 'Yes'), -- Match 11
636 (12, 190, 155, 6, 5, 'RCB', 'RCB', 'CSK', 'RCB', 'Yes'), -- Match 12
```

The bottom status bar shows the system clock at 16:29 on 31-03-2024.



The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' panel with a tree view containing 'cons', 'hospital', 'hospital\_', 'ipl', 'mydb', 'newempl', 'stri', and 'students'. The 'ipl' schema is selected. The main editor window shows a query editor with the following SQL code:

```
635 (11, 185, 170, 5, 6, 'KKR', 'KKR', 'PBKS', 'KKR', 'Yes'), -- Match 11
636 (12, 190, 155, 6, 5, 'RCB', 'RCB', 'CSK', 'RCB', 'Yes'), -- Match 12
637 (13, 185, 190, 6, 7, 'GT', 'MI', 'GT', 'MI', 'Yes'), -- Match 13
638 (14, 175, 150, 5, 6, 'MI', 'MI', 'RR', 'MI', 'Yes'), -- Match 14
639 (15, 175, 130, 5, 6, 'LSG', 'LSG', 'DC', 'LSG', 'Yes'), -- Match 15
640 (16, 160, 165, 5, 6, 'SRH', 'KKR', 'SRH', 'KKR', 'Yes'), -- Match 16
641 (17, 155, 160, 5, 6, 'RR', 'RCB', 'RR', 'RCB', 'Yes'), -- Match 17
642 (18, 179, 175, 5, 6, 'MI', 'MI', 'DC', 'MI', 'Yes'), -- Match 18
643 (19, 197, 185, 6, 7, 'RCB', 'RCB', 'SRH', 'RCB', 'Yes'), -- Match 19
644 (20, 165, 170, 5, 6, 'PBKS', 'LSG', 'PBKS', 'LSG', 'Yes'), -- Match 20
645 (41, 185, 190, 6, 7, 'GT', 'SRH', 'GT', 'SRH', 'Yes'), -- Playoff 1
646 (42, 170, 175, 5, 6, 'CSK', 'MI', 'CSK', 'MI', 'Yes'), -- Playoff 2
647 (43, 226, 200, 7, 8, 'GT', 'GT', 'CSK', 'CSK', 'Yes');
648 • use ipl;
649 • select * from iplmatch;
650 • select * from statistics;
```

The bottom status bar shows the system clock at 16:29 on 31-03-2024.

## General Queries:

### 1) Query to find CSK players whose nationality is Indian

```
196 • SELECT * FROM Player
197 WHERE Team_code='CSK'
198 AND nationality='Indian';
```

|   | player_id | first_name | last_name | nationality | date_of_birth | role         | team_code | matches_played | runs | wickets | strike_rate | economy |
|---|-----------|------------|-----------|-------------|---------------|--------------|-----------|----------------|------|---------|-------------|---------|
| ▶ | 1         | Mahendra   | Dhoni     | Indian      | 1981-07-07    | WicketKeeper | CSK       | 14             | 301  | 0       | 160         | 0       |
|   | 2         | Robin      | Uthappa   | Indian      | 1985-11-11    | Batsman      | CSK       | 14             | 144  | 0       | 150         | 0       |
|   | 3         | Shivam     | Dubey     | Indian      | 1993-06-26    | Batsman      | CSK       | 14             | 155  | 0       | 140         | 0       |
|   | 4         | Ruturaj    | Gaikwad   | Indian      | 1997-01-31    | Batsman      | CSK       | 14             | 542  | 0       | 130         | 0       |
|   | 5         | Ambati     | Rayudu    | Indian      | 1985-09-23    | Batsman      | CSK       | 14             | 341  | 0       | 120         | 0       |
|   | 6         | Ravindra   | Jadeja    | Indian      | 1988-12-06    | All-Rounder  | CSK       | 14             | 314  | 10      | 110         | 6.2     |
|   | 7         | Mukesh     | Choudhary | Indian      | 1996-07-06    | Bowler       | CSK       | 14             | 213  | 20      | 100         | 6.5     |

### 2) Query to find first 10 players with maximum runs

```
202 • SELECT first_name, last_name, team_code, runs
203 FROM Player
204 ORDER BY runs DESC LIMIT 10;

```

|   | first_name | last_name | team_code | runs |
|---|------------|-----------|-----------|------|
| ▶ | Surya      | Yadav     | MI        | 650  |
|   | Rinku      | Singh     | KKR       | 643  |
|   | Ruturaj    | Gaikwad   | CSK       | 542  |
|   | Abhishek   | Sharma    | SRH       | 540  |
|   | Faf        | duplessis | RCB       | 535  |
|   | Virat      | Kohli     | RCB       | 445  |
|   | Andre      | Russel    | KKR       | 435  |
|   | Rahul      | Tripathi  | SRH       | 432  |
|   | Arjun      | Tendulkar | MI        | 432  |
|   | Rohit      | Sharma    | MI        | 431  |

### 3) Query to display the name and age of MI players in the increasing order of their age.

```
207 • SELECT first_name, last_name, TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE()) AS age FROM player
208 WHERE team_code='MI'
209 ORDER BY age;
```

| first_name | last_name | age |
|------------|-----------|-----|
| Tilak      | Verma     | 19  |
| Arjun      | Tendulkar | 22  |
| Ishan      | Kishan    | 23  |
| Tim        | David     | 26  |
| Daniel     | Sams      | 29  |
| Rahul      | Sharma    | 30  |
| Surya      | Yadav     | 31  |
| Keiron     | Pollard   | 34  |
| Rohit      | Sharma    | 35  |
| Lasith     | Malinga   | 38  |
| Sachin     | Tendulkar | 49  |

### 4) Query to find the name of youngest and oldest players

```
211 • SELECT first_name, last_name, TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE())
212 AS age FROM player WHERE date_of_birth = (SELECT min(date_of_birth) FROM player);
213
214 • SELECT first_name, last_name, TIMESTAMPDIFF(YEAR, date_of_birth, CURDATE()) AS
215 age FROM player WHERE date_of_birth = (SELECT max(date_of_birth) FROM player);
```

|   | first_name | last_name | age |
|---|------------|-----------|-----|
| ► | Sachin     | Tendulkar | 49  |

|   | first_name | last_name | age |
|---|------------|-----------|-----|
| ► | Tilak      | Verma     | 19  |

### 5) Query to show total information of all matches

```
217 • SELECT * FROM match_ NATURAL JOIN match_stats;
```

| match_id | team1 | team2 | date       | stadium_name          | first_batting_team | runs1 | wickets1 | runs2 | wickets2 | playes_or_not | result  |
|----------|-------|-------|------------|-----------------------|--------------------|-------|----------|-------|----------|---------------|---------|
| 1        | CSK   | KKR   | 2021-04-03 | WANKHEDE STADIUM      | KKR                | 190   | 8        | 192   | 3        | 1             | CSK WON |
| 2        | KKR   | DC    | 2021-04-04 | EDEN GARDEN STADIUM   | MI                 | 203   | 0        | 190   | 3        | 1             | KKR WON |
| 3        | RCB   | SRH   | 2021-04-05 | M CHINNASWAMY STADIUM | CSK                | 212   | 3        | 177   | 8        | 1             | RCB WON |
| 5        | KKR   | RCB   | 2021-04-07 | EDEN GARDEN STADIUM   | KKR                | 139   | 0        | 49    | 10       | 1             | KKR WON |
| 6        | SRH   | DC    | 2021-04-08 | M CHINNASWAMY STADIUM | SRH                | 160   | 4        | 99    | 10       | 1             | DC WON  |
| 7        | CSK   | DC    | 2021-04-09 | WANKHEDE STADIUM      | CSK                | 187   | 2        | 166   | 3        | 1             | CSK WON |
| 8        | MI    | SRH   | 2021-04-10 | EDEN GARDEN STADIUM   | MI                 | 203   | 3        | 177   | 8        | 1             | MI WON  |
| 9        | DC    | RCB   | 2021-04-11 | M CHINNASWAMY STADIUM | DC                 | 190   | 1        | 156   | 2        | 1             | DC WON  |
| 10       | RCB   | CSK   | 2021-04-12 | WANKHEDE STADIUM      | RCB                | 149   | 7        | 150   | 8        | 1             | CSK WON |
| 11       | KKR   | MI    | 2021-04-13 | EDEN GARDEN STADIUM   | KKR                | 133   | 4        | 99    | 10       | 1             | KKR WON |
| 12       | MI    | RCB   | 2021-04-14 | M CHINNASWAMY STADIUM | MI                 | 203   | 0        | 190   | 3        | 1             | MI WON  |
| 13       | CSK   | SRH   | 2021-04-15 | WANKHEDE STADIUM      | CSK                | 212   | 3        | 177   | 8        | 1             | CSK WON |
| 14       | DC    | MI    | 2021-04-16 | EDEN GARDEN STADIUM   | DC                 | 155   | 1        | 156   | 2        | 1             | MI WON  |
| 15       | KKR   | SRH   | 2021-04-17 | M CHINNASWAMY STADIUM | KKR                | 149   | 7        | 113   | 8        | 1             | KKR WON |

## 6) Query to find players who belong to RCB or CSK:

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
select a.player_id,a.first_name,b.team_name from
players a
inner join teams b on a.team_code = b.team_code
where a.team_code = 'CSK' || a.team_code='RCB';
```

The result grid displays the following data:

| player_id | first_name | team_name           |
|-----------|------------|---------------------|
| 28        | Ambati     | Chennai Super Kings |
| 29        | Moeen      | Chennai Super Kings |
| 30        | MS         | Chennai Super Kings |
| 31        | Ben        | Chennai Super Kings |
| 32        | Mitchell   | Chennai Super Kings |
| 33        | Deepak     | Chennai Super Kings |
| 100       | Faf        | Royal Challengers   |
| 101       | Virat      | Royal Challengers   |
| 102       | Glenn      | Royal Challengers   |
| 103       | Dinesh     | Royal Challengers   |
| 104       | Mahipal    | Royal Challengers   |
| 105       | Anuj       | Royal Challengers   |
| 106       | Michael    | Royal Challengers   |
| 107       | Shahbaz    | Royal Challengers   |
| 108       | Suvash     | Royal Challengers   |



## 7) QUERY TO FIND THE SEASON WINNER.

MySQL Workbench

local host x

File Edit View Query Database Server Tools Scripting Help

Navigator: ipl database project\_1\_finished x project\_2\_dbms

SCHEMAS

Filter objects

cons  
hospital  
hospital\_  
ipl  
Table  
Views  
Store  
Functi  
mydb  
newempl  
str1  
students

Administrat

Information

No object selected

666  
667 • `select first_batting,second_batting,concat("winner is :",result) as tournament_winner from statistics`  
668 `ORDER BY match_no DESC LIMIT 1;`  
669

Result Grid

| first_batting | second_batting | tournament_winner |
|---------------|----------------|-------------------|
| GT            | CSK            | winner is :GT Won |

Result 2 x

Output

Action Output

| # | Time       | Action                                                                                             | Message                                                                                        | Duration / Fetch      |
|---|------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------|
| ✓ | 2 17:00:11 | USE IPL                                                                                            | 0 row(s) affected                                                                              | 0.000 sec             |
| ✗ | 3 17:00:13 | select * from statistics ORDER BY customer_id DESC LIMIT 1                                         | Error Code: 1054. Unknown column 'customer_id' in 'order clause'                               | 0.015 sec             |
| ✗ | 4 17:00:32 | select result from statistics ORDER BY DESC LIMIT 1                                                | Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds t... | 0.000 sec             |
| ✗ | 5 17:01:41 | select team1,team2,concat("winner is :",result) from statistics ORDER BY match_no DESC LI...       | Error Code: 1054. Unknown column 'team1' in 'field list'                                       | 0.000 sec             |
| ✓ | 6 17:02:02 | select first_batting,second_batting,concat("winner is :",result) from statistics ORDER BY matc...  | 1 row(s) returned                                                                              | 0.000 sec / 0.000 sec |
| ✓ | 7 17:02:19 | select first_batting,second_batting,concat("winner is :",result) as tournament_winner from stat... | 1 row(s) returned                                                                              | 0.000 sec / 0.000 sec |

Object Info

99°F Sunny

Search

ENG IN

17:02 31-03-2024