



# IPL-2020 Project.



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## Table Creation:

```
mysql> create database IPL;
Query OK, 1 row affected (0.20 sec)
mysql> use IPL
Database changed
```

```
CREATE TABLE Venue(
    ->V_ID varchar(10),
    ->V_Name varchar(30),
    ->City varchar(20)
    ->PRIMARY KEY (V_ID),
);
```

```
mysql> CREATE TABLE Venue(V_ID varchar(10), V_Name  
varchar(20),City varchar(20), PRIMARY KEY (V_ID));  
Query OK, 0 rows affected (1.02 sec)
```

```
mysql>CREATE TABLE Umpire(  
->U_ID varchar(20),  
->U_Name varchar(30),  
->PRIMARY KEY (U_ID),  
);  
Query OK, 0 rows affected (0.58 sec)
```

```
mysql> CREATE TABLE Team(  
-> T_ID varchar(10),  
-> T_Name varchar(30),  
-> T_Cap varchar(30),  
-> PRIMARY KEY (T_ID)  
-> );  
Query OK, 0 rows affected (0.94 sec)
```

```
mysql> CREATE TABLE Point_table(  
-> P_Team varchar(10),  
-> Wins int,  
-> Loss int,  
-> Total int,  
-> Pts int,  
-> NRR decimal(4,3),  
-> PRIMARY KEY(P_TEAM),  
-> FOREIGN KEY (P_Team) REFERENCES
```

```
Team(T_ID)
-> );
Query OK, 0 rows affected, 1 warning (2.14 sec)
```

```
CREATE TABLE Owner(
-> O_ID varchar(30),
-> O_Team varchar(20),
-> PRIMARY KEY (Owner_ID),
-> FOREIGN KEY (O_Team) REFERENCES Team(T_ID)
);
Query OK, 0 rows affected (0.94 sec)
```

```
mysql> CREATE TABLE MatchD(
-> M_ID varchar(10),
-> Team1 varchar(10),
-> Team2 varchar(10),
-> Result varchar(10),
-> M_Date DATE,
-> PRIMARY KEY (M_ID),
-> FOREIGN KEY (Result) REFERENCES
Team(T_ID),
-> FOREIGN KEY (Team1) REFERENCES
Team(T_ID),
-> FOREIGN KEY (Team2) REFERENCES
Team(T_ID)
-> );
Query OK, 0 rows affected (3.08 sec)
```

```
mysql> CREATE TABLE MatchE(
->      M_ID varchar(10),
->      M_Venue varchar(10),
->      Umpire1 varchar(20),
->      Umpire2 varchar(20),
->      PRIMARY KEY (M_ID),
->      FOREIGN KEY (M_Venue) REFERENCES
Venue(V_ID),
->      FOREIGN KEY (Umpire1) REFERENCES
Umpire(U_ID),
->      FOREIGN KEY (Umpire2) REFERENCES
Umpire(U_ID)
-> );
Query OK, 0 rows affected (3.05 sec)
```

## Table Values Insertion:

```
mysql> INSERT INTO Venue(V_ID,V_Name,City)values
-> ('SCS','SHARJAH CRICKET
STADIUM','Sharjah'),
-> ('SZS','SHEIKH ZAYED STADIUM','Abu Dhabi'),
-> ('DIS','DUBAI INTERNATIONAL
STADIUM','Dubai');
Query OK, 3 rows affected (0.24 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO Umpire(U_ID,U_Name)values
-> ('C.Gaffaney','Chris Gaffaney'),
-> ('R.Ilingworth','Richard Ilingworth'),
-> ('P.Reiffel','Paul Reiffel'),
-> ('S.Ravi','Sundaram Ravi'),
-> ('P.Pathak','Pashchim Pathak'),
-> ('U.Gandhe','Ulhas Gandhe'),
-> ('C.Shamshuddin','Chettithody
Shamshuddin'),
-> ('V.Kulkarni','Vineet Kulkarni'),
-> ('K,Srinivasan','Krishnamachari
Srinivasan'),
-> ('N.Menon','Nitin Menon'),
-> ('A.Chaudhary','Anil Chaudhary'),
-> ('A.Dandekar','Anil Dandekar'),
-> ('V.Sharma','Virender Sharma'),
-> ('K.Anantha','KN Ananthapadmanabhan'),
-> ('Y.Barde','Yeshwant Barde');
Query OK, 15 rows affected (0.16 sec)
Records: 15  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO Team(T_ID,T_Name,T_Cap)values
-> ('CSK','Chennai Super Kings','MS Dhoni'),
-> ('KKR','Kolkata Knight Riders','Dinesh
Karthik'),
-> ('MI','Mumbai Indians','Rohit Sharma'),
-> ('SRH','Sunrisers Hyderabad','David
```

```
Warner'),
-> ('RCB', 'Royal Challengers Bangalore', 'Virat
Kohli'),
-> ('KXIP', 'Kings XI Punjab', 'KL Rahul'),
-> ('DC', 'Delhi Capitals', 'Shreyas Iyer'),
-> ('RR', 'Rajasthan Royals', 'Steve Smith');
Query OK, 8 rows affected (0.25 sec)
Records: 8  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO Owner(0_Team,0_ID)values
-> ('CSK', 'CSK Cricket Limited'),
-> ('KKR', 'Red Chillies Entertainment'),
-> ('MI', 'Reliance Industries'),
-> ('SRH', 'Sun TV Network'),
-> ('RCB', 'United Spirits'),
-> ('KXIP', 'Preity Zinta'),
-> ('DC', 'GMR Group and JSW Group'),
-> ('RR', 'Manoj Badale');
Query OK, 8 rows affected (0.16 sec)
Records: 8  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO
Point_table(P_team,Wins,Loss,Total,Pts,NRR)values
-> ('CSK',6,8,14,12,-0.455),
-> ('KKR',7,7,14,14,-0.214),
-> ('MI',9,5,14,18,1.107),
```

```
-> ('SRH',7,7,14,14,0.608),
-> ('RCB',7,7,14,14,-0.172),
-> ('KXIP',6,8,14,12,-0.162),
-> ('DC',8,6,14,16,-0.109),
-> ('RR',6,8,14,12,-0.569);
Query OK, 8 rows affected (0.16 sec)
Records: 8  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO
MatchE(M_ID,Umpire1,Umpire2,M_Venue)values
-> ('1216492','C.Gaffaney','V.Sharma','SCS'),
-> ('1216493','A.Chaudhary','N.Menon','DIS'),
-> ('1216534','A.Dandekar','N.Menon','SZS'),
->
('1216496','C.Shamshuddin','V.Kulkarni','SCS'),
-> ('1216508','C.Gaffaney','S.Ravi','SZS'),
->
('1216510','A.Chaudhary','P.Reiffel','SCS'),
->
('1216539','K.Anantha','R.Ilingworth','DIS'),
-> ('1216545','C.Gaffaney','V.Sharma','SZS'),
->
('1216527','R.Ilingworth','K.Srinivasan','SZS'),
-> ('1216547','N.Menon','P.Reiffel','DIS'),
-> ('1216532','V.Sharma','S.Ravi','DIS'),
->
('1216504','K.Anantha','C.Shamshuddin','SCS'),
```

```

-> ('1216503', 'V.Sharma', 'S.Ravi', 'SCS'),
->
('1216516', 'A.Chaudhary', 'P.Reiffel', 'DIS'),
-> ('1216514', 'C.Gaffaney', 'S.Ravi', 'SZS'),
->
('1216515', 'V.Kulkarni', 'R.Ilingworth', 'SZS'),
->
('1216538', 'K.Anantha', 'R.Ilingworth', 'SCS'),
-> ('1216513', 'A.Dandekar', 'N.Menon', 'SCS'),
-> ('1216519', 'N.Menon', 'Y.Barde', 'DIS'),
-> ('1216511', 'V.Sharma', 'S.Ravi', 'DIS'),
->
('1216501', 'K.Anantha', 'R.Ilingworth', 'SCS'),
-> ('1216542', 'A.Chaudhary', 'N.Menon', 'SZS'),
->
('1216500', 'K.Anantha', 'C.Shamshuddin', 'SZS'),
-> ('1216523', 'U.Gandhe', 'C.Gaffaney', 'SCS'),
->
('1216525', 'A.Chaudhary', 'P.Reiffel', 'DIS'),
-> ('1216507', 'Y.Barde', 'P.Reiffel', 'DIS');
Query OK, 26 rows affected (0.21 sec)
Records: 26  Duplicates: 0  Warnings: 0

```

```

mysql> INSERT INTO
MatchD(M_ID,Team1,Team2,Result,M_Date)values
-> ('1216492', 'MI', 'CSK', 'CSK', '20-09-19'),
-> ('1216493', 'DC', 'KXIP', 'DC', '20-09-20'),

```

```

-> ('1216534', 'SRH', 'RCB', 'RCB', '20-09-21'),
-> ('1216496', 'RR', 'CSK', 'RR', '20-09-22'),
-> ('1216508', 'KKR', 'MI', 'MI', '20-09-23'),
-> ('1216510', 'KXIP', 'RCB', 'KXIP', '20-09-24'),
-> ('1216539', 'CSK', 'DC', 'DC', '20-09-25'),
-> ('1216545', 'KKR', 'SRH', 'KKR', '20-09-26'),
-> ('1216527', 'RR', 'KXIP', 'RR', '20-09-27'),
-> ('1216547', 'RCB', 'MI', 'RCB', '20-09-28'),
-> ('1216532', 'DC', 'SRH', 'SRH', '20-09-29'),
-> ('1216504', 'RR', 'KKR', 'KKR', '20-09-30'),
-> ('1216503', 'KXIP', 'MI', 'MI', '20-10-01'),
-> ('1216516', 'CSK', 'SRH', 'SRH', '20-10-02'),
-> ('1216514', 'RCB', 'RR', 'RCB', '20-10-03'),
-> ('1216515', 'DC', 'KKR', 'DC', '20-10-03'),
-> ('1216538', 'MI', 'SRH', 'MI', '20-10-04'),
-> ('1216513', 'KXIP', 'CSK', 'CSK', '20-10-04'),
-> ('1216519', 'RCB', 'DC', 'DC', '20-10-05'),
-> ('1216511', 'MI', 'RR', 'MI', '20-10-06'),
-> ('1216501', 'KKR', 'CSK', 'KKR', '20-10-07'),
-> ('1216542', 'SRH', 'KXIP', 'SRH', '20-10-08'),
-> ('1216500', 'RR', 'DC', 'DC', '20-10-09'),
-> ('1216523', 'KXIP', 'KKR', 'KKR', '20-10-10'),
-> ('1216525', 'CSK', 'RCB', 'RCB', '20-10-10'),
-> ('1216507', 'SRH', 'RR', 'RR', '20-10-11');

```

Query OK, 26 rows affected (0.11 sec)

Records: 26 Duplicates: 0 Warnings: 0

## Table Representation:

```
mysql> select * from Venue;
+----+-----+-----+
| V_ID | V_Name          | City   |
+----+-----+-----+
| DIS  | DUBAI INTERNATIONAL STADIUM | Dubai  |
| SCS  | SHARJAH CRICKET STADIUM    | Sharjah |
| SZS  | SHEIKH ZAYED STADIUM      | Abu Dhabi |
+----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select * from Umpire;
+-----+-----+
| U_ID       | U_Name        |
+-----+-----+
| A.Chaudhary | Anil Chaudhary |
| A.Dandekar   | Anil Dandekar  |
| C.Gaffaney   | Chris Gaffaney |
| C.Shamshuddin | Chettithody Shamshuddin |
| K.Anantha     | KN Ananthapadmanabhan |
| K.Srinivasan  | Krishnamachari Srinivasan |
| N.Menon       | Nitin Menon    |
| P.Pathak      | Pashchim Pathak  |
| P.Reiffel     | Paul Reiffel   |
| R.Ilingworth  | Richard Ilingworth |
| S.Ravi        | Sundaram Ravi  |
| U.Gandhe      | Ulhas Gandhe   |
| V.Kulkarni    | Vineet Kulkarni |
| V.Sharma      | Virender Sharma |
+-----+-----+
```

```
| Y.Barde           | Yeshwant Barde          |
+-----+-----+
15 rows in set (0.00 sec)
```

```
mysql> select * from Team;
+-----+-----+
| T_ID | T_Name          | T_Cap
|      |
+-----+-----+
| CSK  | Chennai Super Kings | MS Dhoni
|      |
| DC   | Delhi Capitals    | Shreyas
Iyer  |
| KKR  | Kolkata Knight Riders | Dinesh
Karthik |
| KXIP | Kings XI Punjab   | KL Rahul
|      |
| MI   | Mumbai Indians     | Rohit
Sharma |
| RCB  | Royal Challengers Bangalore | Virat Kohli
|      |
| RR   | Rajasthan Royals    | Steve Smith
|      |
| SRH  | Sunrisers Hyderabad  | David
Warner |
+-----+-----+
```

```

-----+
8 rows in set (0.00 sec)

mysql> select * from Owner;
+-----+-----+
| O_ID          | O_Team |
+-----+-----+
| CSK Cricket Limited | CSK      |
| GMR Group and JSW Group | DC       |
| Red Chillies Entertainment | KKR      |
| Preity Zinta | KXIP     |
| Reliance Industries | MI       |
| United Spirits | RCB      |
| Manoj Badale | RR       |
| Sun TV Network | SRH      |
+-----+-----+
8 rows in set (0.01 sec)

mysql> select * from Point_table;
+-----+-----+-----+-----+-----+-----+-----+
| P_Team | Wins | Loss | Total | NRR    | Pts   |
+-----+-----+-----+-----+-----+-----+
| CSK   | 6    | 8    | 14   | -0.455 | 12    |
| DC    | 8    | 6    | 14   | -0.109 | 16    |
| KKR   | 7    | 7    | 14   | -0.214 | 14    |
| KXIP  | 6    | 8    | 14   | -0.162 | 12    |
| MI    | 9    | 5    | 14   | 1.107  | 18    |
| RCB   | 7    | 7    | 14   | -0.172 | 14    |

```

```

| RR      |    6 |    8 |    14 | -0.569 |    12 |
| SRH     |    7 |    7 |    14 |  0.608 |    14 |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

```

mysql> select * from MatchE;
+-----+-----+-----+-----+
--+
| M_ID      | M_Venue | Umpire1           | Umpire2
|
+-----+-----+-----+-----+
--+
| 1216492 | SCS      | C.Gaffaney        | V.Sharma
|
| 1216493 | DIS      | A.Chaudhary       | N.Menon
|
| 1216496 | SCS      | C.Shamshuddin     | V.Kulkarni
|
| 1216500 | SZS      | K.Anantha         |
C.Shamshuddin |
| 1216501 | SCS      | K.Anantha         | R.Ilingworth
|
| 1216503 | SCS      | V.Sharma          | S.Ravi
|
| 1216504 | SCS      | K.Anantha         |
C.Shamshuddin |
| 1216507 | DIS      | Y.Barde           | P.Reiffel
|

```

	1216508	Szs	C.Gaffaney	S.Ravi
	1216510	SCS	A.Chaudhary	P.Reiffel
	1216511	DIS	V.Sharma	S.Ravi
	1216513	SCS	A.Dandekar	N.Menon
	1216514	SZS	C.Gaffaney	S.Ravi
	1216515	SZS	V.Kulkarni	R.Ilingworth
	1216516	DIS	A.Chaudhary	P.Reiffel
	1216519	DIS	N.Menon	Y.Barde
	1216523	SCS	U.Gandhe	C.Gaffaney
	1216525	DIS	A.Chaudhary	P.Reiffel
	1216527	SZS	R.Ilingworth	K.Srinivasan
	1216532	DIS	V.Sharma	S.Ravi
	1216534	SZS	A.Dandekar	N.Menon
	1216538	SCS	K.Anantha	R.Ilingworth

```

| 1216539 | DIS      | K.Anantha    | R.Ilingworth
|
| 1216542 | Szs      | A.Chaudhary | N.Menon
|
| 1216545 | Szs      | C.Gaffaney  | V.Sharma
|
| 1216547 | DIS      | N.Menon     | P.Reiffel
|
+-----+-----+-----+
--+

```

26 rows in set (0.01 sec)

```
mysql> select * from MatchD;
```

```
+-----+-----+-----+-----+-----+
| M_ID   | Team1  | Team2  | Result | M_Date
+-----+-----+-----+-----+-----+
| 1216492 | MI     | CSK    | CSK    | 2020-09-19 |
| 1216493 | DC     | KXIP   | DC     | 2020-09-20 |
| 1216496 | RR     | CSK    | RR     | 2020-09-22 |
| 1216500 | RR     | DC     | DC     | 2020-10-09 |
| 1216501 | KKR    | CSK    | KKR    | 2020-10-07 |
| 1216503 | KXIP   | MI     | MI     | 2020-10-01 |
| 1216504 | RR     | KKR    | KKR    | 2020-09-30 |
| 1216507 | SRH    | RR     | RR     | 2020-10-11 |
| 1216508 | KKR    | MI     | MI     | 2020-09-23 |
| 1216510 | KXIP   | RCB    | KXIP   | 2020-09-24 |
| 1216511 | MI     | RR     | MI     | 2020-10-06 |
| 1216513 | KXIP   | CSK    | CSK    | 2020-10-04 |

```

	1216514	RCB	RR	RCB	2020-10-03	
	1216515	DC	KKR	DC	2020-10-03	
	1216516	CSK	SRH	SRH	2020-10-02	
	1216519	RCB	DC	DC	2020-10-05	
	1216523	KXIP	KKR	KKR	2020-10-10	
	1216525	CSK	RCB	RCB	2020-10-10	
	1216527	RR	KXIP	RR	2020-09-27	
	1216532	DC	SRH	SRH	2020-09-29	
	1216534	SRH	RCB	RCB	2020-09-21	
	1216538	MI	SRH	MI	2020-10-04	
	1216539	CSK	DC	DC	2020-09-25	
	1216542	SRH	KXIP	SRH	2020-10-08	
	1216545	KKR	SRH	KKR	2020-09-26	
	1216547	RCB	MI	RCB	2020-09-28	
+-----+-----+-----+-----+-----+-----+						
26 rows in set (0.00 sec)						

## Queries:

### Query:1

Show the names of the Umpires who participated as the main Umpire for the most number of Matches.

```
mysql>select U_Name from Umpire where U_ID in
(select Umpire1 from MatchE group by Umpire1
having count(Umpire1)=(select max(count) from
(select (count(Umpire1)) as Count from MatchE
group by Umpire1)as Umpire));
```

```
+-----+  
| U_Name |  
+-----+  
| Anil Chaudhary |  
| KN Ananthapadmanabhan |  
+-----+  
2 rows in set (0.00 sec)
```

## Query:2

**Find the name of the Owner who's team scored the most Points in the league.**

```
mysql> select O_ID from Owner O,Point_table P  
where O_Team=P_Team and P.Pts=(select  
max(Points)from(select(Pts)as Points from  
Point_table group by Pts) as Max);  
+-----+  
| O_ID |  
+-----+  
| Reliance Industries |  
+-----+  
1 row in set (0.00 sec)
```

## Query:3

**Select the name of the teams who won at least 7 games.**

```
mysql> select T_Name,Wins from Point_table P,Team  
T where P.P_Team=T.T_ID and P.Wins>=7;
```

```

+-----+-----+
| T_Name          | Wins |
+-----+-----+
| Delhi Capitals | 8   |
| Kolkata Knight Riders | 7   |
| Mumbai Indians | 9   |
| Royal Challengers Bangalore | 7   |
| Sunrisers Hyderabad | 7   |
+-----+-----+
5 rows in set (0.00 sec)

```

#### Query:4

**Find the name of the Captains of the Teams who scored 14 Points out of 14 matches.**

```

mysql> select T_Cap from Team T,Point_table P
where T.T_ID=P_Team and P.Pts=14;
+-----+
| T_Cap      |
+-----+
| Dinesh Karthik |
| Virat Kohli  |
| David Warner  |
+-----+
3 rows in set (0.00 sec)

```

#### Query:5

**Find the name of Venue where most matches took place.**

```
mysql> select V_Name from Venue where V_ID=(select max(Count) from (select M_Venue as Count  from MatchE group by M_Venue) as Max);
+-----+
| V_Name          |
+-----+
| SHEIKH ZAYED STADIUM |
+-----+
1 row in set (0.00 sec)
```

## Query:6

**Find the name of the Teams with Positive Net Run Rates.**

```
mysql> select T_Name from Team T,Point_table P
where T.T_ID=P_Team and NRR>0;
+-----+
| T_Name          |
+-----+
| Mumbai Indians   |
| Sunrisers Hyderabad |
+-----+
2 rows in set (0.01 sec)
```

## Query:7

**Find the match IDs which took place on October 2020.**

```
mysql> select M_ID,M_Date from MatchD where M_Date
Between '2020-10-01' AND '2020-10-30';
```

```

+-----+-----+
| M_ID      | M_Date      |
+-----+-----+
| 1216500   | 2020-10-09  |
| 1216501   | 2020-10-07  |
| 1216503   | 2020-10-01  |
| 1216507   | 2020-10-11  |
| 1216511   | 2020-10-06  |
| 1216513   | 2020-10-04  |
| 1216514   | 2020-10-03  |
| 1216515   | 2020-10-03  |
| 1216516   | 2020-10-02  |
| 1216519   | 2020-10-05  |
| 1216523   | 2020-10-10  |
| 1216525   | 2020-10-10  |
| 1216538   | 2020-10-04  |
| 1216542   | 2020-10-08  |
+-----+-----+
14 rows in set (0.00 sec)

```

## Query:8

**Find the name of the Teams who won against Rajasthan Royals.**

```

mysql> select T_Name from Team where T_ID IN
(select Result from MatchD where (Team1='RR' OR
Team2='RR') and Result!='RR');
+-----+
| T_Name          |
+-----+

```

```
+-----+
| Delhi Capitals          |
| Kolkata Knight Riders   |
| Mumbai Indians          |
| Royal Challengers Bangalore |
+-----+
4 rows in set (0.03 sec)
```

## Query:9

**Find the match IDs which took place on Abu Dhabi.**

```
mysql> Select M_ID from MatchE where M_Venue
IN(Select V_ID from Venue where City='Abu Dhabi');
+-----+
| M_ID      |
+-----+
| 1216500   |
| 1216508   |
| 1216514   |
| 1216515   |
| 1216527   |
| 1216534   |
| 1216542   |
| 1216545   |
+-----+
8 rows in set (0.00 sec)
```

## Query:10

**Find the details of the teams who's number of wins and losses are Equal.**

```
mysql> Select P_Team,Wins,Loss,NRR,Pts from  
Point_table where Wins=Loss;  
+-----+-----+-----+-----+-----+  
| P_Team | Wins | Loss | NRR      | Pts   |  
+-----+-----+-----+-----+-----+  
| KKR    |    7 |    7 | -0.214   | 14   |  
| RCB    |    7 |    7 | -0.172   | 14   |  
| SRH    |    7 |    7 | 0.608    | 14   |  
+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```