IPL DATA ANALYSIS USING PIG AND HIVE

Project Title- IPL DATA ANALYSIS USING PIG AND HIVE

ABSTRACT:

The Indian Premier League (IPL), also known as TATA IPL for sponsorship reasons, is a men's T20 franchise cricket league of India. It is annually contested by ten teams based out of seven Indian cities and three Indian states. The league was founded by the Board of Control for Cricket in India (BCCI) in 2007. Brijesh Patel is the incumbent chairman of IPL. It is usually held annually in summer across India between March to May and has an exclusive window in the ICC Future Tours Programme.

The IPL is the most-attended cricket league in the world and in 2014 was ranked sixth by average attendance among all sports leagues. In 2010, the IPL became the first sporting event in the world to be broadcast live on YouTube.

Over the course of its run starting from its inaugural season in 2008 till the recently concluded one in 2022, there have been various winners with the franchises of Chennai and Mumbai winning the title multiple times.

In this project we have taken the IPL data from the years 2008 to 2016 and have applied the concepts of Hadoop and implemented in hive and pig.

ABOUT THE DATA:

Two cricket data files with Indian Premier League data from 2008 to 2016 is used as a data source. The files are as follows:
1.matches.csv – Provides details about each match played

2.deliveries.csv – Provides details about consolidated deliveries of all the matches

These files are extracted and loaded into Hive. The data is further processed, transformed, and analyzed to get the winner for each season and the top 5 batsmen with maximum run in each season and overall season.

AIM:

To find the information of certain players and to find the winner of the IPL editions from 2008 to 2016 on the two given datasets and analyse them using pig and hive in Hadoop.

Deliveries File:

```
match_id,inning,batting_team,bowling_team,over,ball,batsman,non_striker,bowler,is_super_over,wide_runs,bye_runs,legbye_runs,noball_runs,penalty_runs,batsman_runs,extra_runs,total_runs,player_dismissed,dismissal
_kind,fielder
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,1,SC Ganguly,BB McCullum,P Kumar,0,0,0,1,0,0,1,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,2,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,3,BB McCullum,SC Ganguly,P Kumar,0,1,0,0,0,0,1,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,4,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,5,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,6,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,7,BB McCullum,SC Ganguly,P Kumar,0,0,0,1,0,0,1,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,1,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,2,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,3,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,4,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,6,0,6,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,5,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,6,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,1,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,2,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,3,SC Ganguly,BB McCullum,P Kumar,0,0,0,1,0,0,1,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,4,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,5,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,6,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,1,BB McCullum,SC Ganguly,AA Noffke,0,5,0,0,0,0,5,5,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,2,BB McCullum,SC Ganguly,AA Noffke,0,0,0,0,0,6,0,6,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,3,BB McCullum,SC Ganguly,AA Noffke,0,0,0,1,0,0,1,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,4,SC Ganguly,BB McCullum,AA Noffke,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,5,SC Ganguly,BB McCullum,AA Noffke,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,6,SC Ganguly,BB McCullum,AA Noffke,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,7,BB McCullum,SC Ganguly,AA Noffke,0,0,0,0,0,6,0,6,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,1,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,2,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,3,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,4,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,5,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,6,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,1,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,2,SC Ganguly,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,SC Ganguly,caught,JH Kallis
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,3,RT Ponting,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,4,RT Ponting,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,5,RT Ponting,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,6,RT Ponting,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,1,BB McCullum,RT Ponting,AA Noffke,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,2,RT Ponting,BB McCullum,AA Noffke,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,3,BB McCullum,RT Ponting,AA Noffke,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,4,RT Ponting,BB McCullum,AA Noffke,0,0,0,0,0,2,0,2,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,5,RT Ponting,BB McCullum,AA Noffke,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,6,BB McCullum,RT Ponting,AA Noffke,0,0,0,0,0,1,0,1,,,
```

The deliveries file has the attributes of match_id, innings, batting team, bowling_team, over, ball, batsman, non striker, bowler, super_over, wide_runs, bye_runs, legbye_runs, no_ball_runs, penalty_runs, batsman_run, extra_runs, total_run, player_dismissed, dismissal_kind, fielder

Matches File:

id	season	city	date	team1	team2	toss_winner	toss_decision	result	dl_applied	winner	win_by_runs
1	2008	Bangalore	2008-04-18	Kolkata Knight Riders	Royal Challengers Bangalore	Royal Challengers Bangalore	field	normal	0	Kolkata Knight Riders	140
2	2008	Chandigarh	2008-04-19	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings	bat	normal	0	Chennai Super Kings	33
3	2008	Delhi	2008-04-19	Rajasthan Royals	Delhi Daredevils	Rajasthan Royals	bat	normal	0	Delhi Daredevils	0
4	2008	Mumbai	2008-04-20	Mumbai Indians	Royal Challengers Bangalore	Mumbai Indians	bat	normal	0	Royal Challengers Bangalore	0
5	2008	Kolkata	2008-04-20	Deccan Chargers	Kolkata Knight Riders	Deccan Chargers	bat	normal	0	Kolkata Knight Riders	0
6	2008	Jaipur	2008-04-21	Kings XI Punjab	Rajasthan Royals	Kings XI Punjab	bat	normal	0	Rajasthan Royals	0
7	2008	Hyderabad	2008-04-22	Deccan Chargers	Delhi Daredevils	Deccan Chargers	bat	normal	0	Delhi Daredevils	0
8	2008	Chennai	2008-04-23	Chennai Super Kings	Mumbai Indians	Mumbai Indians	field	normal	0	Chennai Super Kings	6
9	2008	Hyderabad	2008-04-24	Deccan Chargers	Rajasthan Royals	Rajasthan Royals	field	normal	0	Rajasthan Royals	0
10	2008	Chandigarh	2008-04-25	Kings XI Punjab	Mumbai Indians	Mumbai Indians	field	normal	0	Kings XI Punjab	66
11	2008	Bangalore	2008-04-26	Royal Challengers Bangalore	Rajasthan Royals	Rajasthan Royals	field	normal	0	Rajasthan Royals	0
12	2008	Chennai	2008-04-26	Kolkata Knight Riders	Chennai Super Kings	Kolkata Knight Riders	bat	normal	0	Chennai Super Kings	0
13	2008	Mumbai	2008-04-27	Mumbai Indians	Deccan Chargers	Deccan Chargers	field	normal	0	Deccan Chargers	0
14	2008	Chandigarh	2008-04-27	Delhi Daredevils	Kings XI Punjab	Delhi Daredevils	bat	normal	0	Kings XI Punjab	0
15	2008	Bangalore	2008-04-28	Chennai Super Kings	Royal Challengers Bangalore	Chennai Super Kings	bat	normal	0	Chennai Super Kings	13
16	2008	Kolkata	2008-04-29	Kolkata Knight Riders	Mumbai Indians	Kolkata Knight Riders	bat	normal	0	Mumbai Indians	0
17	2008	Delhi	2008-04-30	Delhi Daredevils	Royal Challengers Bangalore	Royal Challengers Bangalore	field	normal	0	Delhi Daredevils	10
18	2008	Hyderabad	2008-05-01	Deccan Chargers	Kings XI Punjab	Kings XI Punjab	field	normal	0	Kings XI Punjab	0
19	2008	Jaipur	2008-05-01	Rajasthan Royals	Kolkata Knight Riders	Rajasthan Royals	bat	normal	0	Rajasthan Royals	45
20	2008	Chennai	2008-05-02	Chennai Super Kings	Delhi Daredevils	Chennai Super Kings	bat	normal	0	Delhi Daredevils	0
21	2008	Hyderabad	2008-05-25	Deccan Chargers	Royal Challengers Bangalore	Deccan Chargers	bat	normal	0	Royal Challengers Bangalore	0
22	2008	Chandigarh	2008-05-03	Kings XI Punjab	Kolkata Knight Riders	Kings XI Punjab	bat	normal	0	Kings XI Punjab	0

The matches dataset contains the attributes id, season, city, date, team1, team2, toss_winner, toss_decision, dl_applied, winner, win_by_runs.

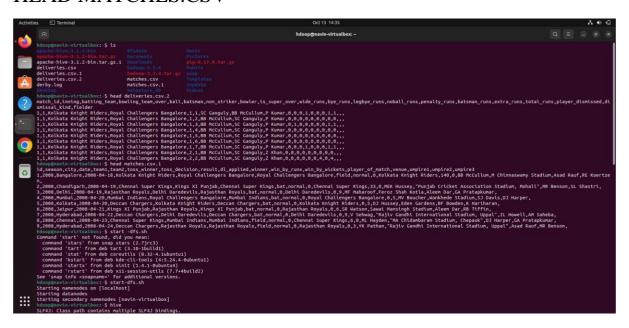# HIVE QUERIES

Creating table for matches and deliveries

Displaying contents of the table

HEAD MATCHES.CSV

HEAD DELIVERIES.CSV

Storing the Data as a database and loading the data saved in the hdfs directory.

Code:

CREATE TABLE MATCHES

```
FAILED: ParseException (line 1:107 cannot recognize input near 'Applied' 'INT' ',' in column type
hive> CREATE TABLE MATCHES ( Id INT, Season STRING, City STRING, Date_Of_Match DATE, Team1 STRING, Team2 STRING, Toss_Winner STRING, Toss_Decision STRING, Result STRING, Dl_Applied INT, Winner STRING, Win_By_Runs INT, Win_By_Wickets INT, Player_Of_Match STRING, Venue STRING, Umpire1 STRING, Umpire2 STRING, Umpire3 STRING) ROW FORMAT DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
OK
Time taken: 0.884 seconds
hive> LOAD DATA LOCAL INPATH 'matches.csv.1' OVERWRITE INTO TABLE MATCHES;
Loading data to table default.matches
OK
Time taken: 1.631 seconds
hive> CREATE TABLE DELIVERIES ( Match_Id INT, Inning INT, Batting_Team STRING, Bowling_Team STRING, Overs INT, Ball INT, Batsman STRING, Non_Striker STRING, Bowler STRING, Is_Super_Over INT, Wide_Runs INT, Bye_Runs INT, Leg_Bye_Runs INT, No_Ball_Runs INT, Penalty_Runs INT, Batsman_Runs INT, Extra_Runs INT, Total_Runs INT, Player_Dismissed STRING, Dismissal_Kind STRING, Fielder STRING) ROW FORMAT DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n' ;
OK
Time taken: 0.895 seconds
hive> LOAD DATA LOCAL INPATH 'deliveries.csv.2' OVERWRITE INTO TABLE DELIVERIES;
Loading data to table default.deliveries
OK
Time taken: 0.334 seconds
hive>
```

Query to select the winner of each season

CODE:

```
SELECT season AS SEASON, winner AS WINNER,
IF(win_by_runs='0', CONCAT('Won by ',win_by_wickets, 'Wickets'),
CONCAT('Won by ',win_by_runs,' Runs')) AS `WINNING
MARGIN`, IF(winner=team1,team2,team1) AS RUNNER,
player_of_match FROM matches WHERE id IN(SELECT MAX(id)
FROM matches GROUP BY season) ;
```

```
resutt, dt_apptted, winner, win_by_runs, win_by_wickets, player_of_match, venue, umptre1, umptre2, umptre3)
hive> SELECT season  AS SEASON, winner AS WINNER, IF(win_by_runs='0',CONCAT('Won by ',win_by_wickets,' Wickets'), CONCAT('Won by ',win_by_runs,' Runs')) AS `WINNING MARGIN`, IF(winner=team1,team2,team1
AS RUNNER, player_of_match FROM matches WHERE id IN(SELECT MAX(id) FROM matches GROUP BY season) ;
Query ID = hdoop_20221018200256_6595bc58-d132-4394-b3b8-952a27334dcd
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1666017721580_0012, Tracking URL = http://navin-virtualbox:8088/proxy/application_1666017721580_0012/
Kill Command = /home/hdoop/hadoop-3.3.4/bin/mapred job  -kill job_1666017721580_0012
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
2022-10-18 20:03:25,862 Stage-2 map = 0%,  reduce = 0%
2022-10-18 20:03:37,481 Stage-2 map = 100%,  reduce = 0%, Cumulative CPU 2.71 sec
2022-10-18 20:03:56,342 Stage-2 map = 100%,  reduce = 100%, Cumulative CPU 6.42 sec
MapReduce Total cumulative CPU time: 6 seconds 420 msec
Ended Job = job_1666017721580_0012
Stage-5 is selected by condition resolver.
Stage-1 is filtered out by condition resolver.
Execution completed successfully
MapredLocal task succeeded
Launching Job 3 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1666017721580_0013, Tracking URL = http://navin-virtualbox:8088/proxy/application_1666017721580_0013/
Kill Command = /home/hdoop/hadoop-3.3.4/bin/mapred job  -kill job_1666017721580_0013
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2022-10-18 20:04:16,796 Stage-3 map = 0%,  reduce = 0%
2022-10-18 20:04:24,191 Stage-3 map = 100%,  reduce = 0%, Cumulative CPU 4.44 sec
MapReduce Total cumulative CPU time: 4 seconds 440 msec
Ended Job = job_1666017721580_0013
MapReduce Jobs Launched:
Stage-Stage-2: Map: 1  Reduce: 1   Cumulative CPU: 6.42 sec   HDFS Read: 121415 HDFS Write: 270 SUCCESS
Stage-Stage-3: Map: 1   Cumulative CPU: 4.44 sec   HDFS Read: 119033 HDFS Write: 829 SUCCESS
Total MapReduce CPU Time Spent: 10 seconds 860 msec
OK
2008    Rajasthan Royals       Won by 3 Wickets        Chennai Super Kings     YK Pathan
2009    Deccan Chargers Won by 6 Runs   Royal Challengers Bangalore     A Kumble
2010    Chennai Super Kings    Won by 22 Runs  Mumbai Indians  SK Raina
2011    Chennai Super Kings    Won by 58 Runs  Royal Challengers Bangalore     M Vijay
2012    Kolkata Knight Riders  Won by 5 Wickets        Chennai Super Kings     MS Bisla
2013    Mumbai Indians  Won by 23 Runs  Chennai Super Kings     KA Pollard
2014    Kolkata Knight Riders  Won by 3 Wickets        Kings XI Punjab MK Pandey
2015    Mumbai Indians  Won by 41 Runs  Chennai Super Kings     RG Sharma
2016    Sunrisers Hyderabad    Won by 8 Runs   Royal Challengers Bangalore     BCJ Cutting
```

Query to get info on MS Dhoni

Code:

SELECT * FROM MATCHES WHERE
PLAYER_OF_MATCH='MS DHONI' ;

OUTPUT:

```
n, non_striker, bowler, is_super_over, wide_runs, bye_runs, leg_bye_runs, no_ball_runs, penalty_runs, batsman_runs, extra_runs, total_runs, player_dismissed, dismissal_kind, fielder)
hive> SELECT * FROM matces WHERE player_of_match='MS Dhoni' ;
FAILED: SemantlcException [Error 10001]: Line 1:14 Table not found 'matces'
hive> SELECT * FROM matches WHERE player_of_match='MS Dhoni' ;
OK
15      2008    Bangalore       2008-04-28      Chennai Super Kings     Royal Challengers Bangalore     Chennai Super Kings     bat     normal 0        Chennai Super Kings     13      0       MS Dhoni
Chinnaswamy Stadium     BR Doctrove     RB Tiffin
28      2008    Delhi   2008-05-08      Delhi Daredevils        Chennai Super Kings     Chennai Super Kings     field   normal 0        Chennai Super Kings     0       4       MS Dhoni        Feroz Shah
Kotla   Aleem Dar       RB Tiffin
85      2009    East London     2009-05-04      Chennai Super Kings     Deccan Chargers Chennai Super Kings     bat     normal 0        Chennai Super Kings     78      0       MS Dhoni        Buffalo Pa
k       BR Doctrove     M Erasmus
123     2010    Kolkata 2010-03-16      Chennai Super Kings     Kolkata Knight Riders   Chennai Super Kings     bat     normal 0        Chennai Super Kings     55      0       MS Dhoni        Eden Garde
s       HDPK Dharmasena AM Saheba
169     2010    Dharamsala      2010-04-18      Kings XI Punjab Chennai Super Kings     Chennai Super Kings     field   normal 0        Chennai Super Kings     0       6       MS Dhoni        Himachal P
adesh Cricket Association Stadium       BF Bowden       AM Saheba
230     2011    Chennai 2011-05-12      Chennai Super Kings     Delhi Daredevils        Chennai Super Kings     bat     normal 0        Chennai Super Kings     18      0       MS Dhoni        "MA Chidam
aram Stadium    Chepauk"        AM Saheba       SL Shastri
320     2012    Bangalore       2012-05-23      Chennai Super Kings     Mumbai Indians  Mumbai Indians  field   normal 0        Chennai Super Kings     38      0       MS Dhoni        M Chinnaswamy Stad
um      BF Bowden       HDPK Dharmasena
355     2013    Chennai 2013-04-25      Sunrisers Hyderabad     Chennai Super Kings     Sunrisers Hyderabad     bat     normal 0        Chennai Super Kings     0       5       MS Dhoni        "MA Chidam
aram Stadium    Chepauk"        Aleem Dar       S Das
363     2013    Pune    2013-04-30      Chennai Super Kings     Pune Warriors   Chennai Super Kings     bat     normal 0        Chennai Super Kings     37      0       MS Dhoni        Subrata Roy Sahara
Stadium S Das   SJA Taufel
387     2013    Chennai 2013-05-14      Chennai Super Kings     Delhi Daredevils        Chennai Super Kings     bat     normal 0        Chennai Super Kings     33      0       MS Dhoni        "MA Chidam
aram Stadium    Chepauk"        C Shamshuddin   RJ Tucker
451     2014    Bangalore       2014-05-24      Royal Challengers Bangalore     Chennai Super Kings     Chennai Super Kings     field   normal 0        Chennai Super Kings     0       8       MS Dhoni
Chinnaswamy Stadium     AK Chaudhary    NJ Llong
570     2016    Visakhapatnam   2016-05-21      Kings XI Punjab Rising Pune Supergiants Kings XI Punjab bat     normal 0        Rising Pune Supergiants 0       4       MS Dhoni        Dr. Y.S. Rajasekha
a Reddy ACA-VDCA Cricket Stadium        HDPK Dharmasena Nitin Menon
Time taken: 0.206 seconds, Fetched: 12 row(s)
hive>
```

Query to get info on Rohit Sharma

CODE:

SELECT * FROM MATCHES WHERE PLAYER_OF_MATCH='RG SHARMA';

OUTPUT:

```
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2022-10-18 20:04:16,796 Stage-3 map = 0%,  reduce = 0%
2022-10-18 20:04:24,191 Stage-3 map = 100%,  reduce = 0%, Cumulative CPU 4.44 sec
MapReduce Total cumulative CPU time: 4 seconds 440 msec
Ended Job = job_1666017721580_0013
MapReduce Jobs Launched:
Stage-Stage-2: Map: 1  Reduce: 1   Cumulative CPU: 6.42 sec   HDFS Read: 121415 HDFS Write: 270 SUCCESS
Stage-Stage-3: Map: 1   Cumulative CPU: 4.44 sec   HDFS Read: 119033 HDFS Write: 829 SUCCESS
Total MapReduce CPU Time Spent: 10 seconds 860 msec
OK
2008   Rajasthan Royals       Won by 3 Wickets       Chennai Super Kings    YK Pathan
2009   Deccan Chargers Won by 6 Runs  Royal Challengers Bangalore    A Kumble
2010   Chennai Super Kings    Won by 22 Runs  Mumbai Indians  SK Raina
2011   Chennai Super Kings    Won by 58 Runs Royal Challengers Bangalore    M Vijay
2012   Kolkata Knight Riders  Won by 5 Wickets       Chennai Super Kings    MS Bisla
2013   Mumbai Indians  Won by 23 Runs  Chennai Super Kings     KA Pollard
2014   Kolkata Knight Riders  Won by 3 Wickets       Kings XI Punjab MK Pandey
2015   Mumbai Indians  Won by 41 Runs  Chennai Super Kings     RG Sharma
2016   Sunrisers Hyderabad    Won by 8 Runs  Royal Challengers Bangalore    BCJ Cutting
Time taken: 88.551 seconds, Fetched: 9 row(s)
hive> SELECT * FROM matches WHERE player_of_match = 'RG Sharma' ;
OK
88    2009    Centurion    2009-05-06     Deccan Chargers Mumbai Indians Deccan Chargers bat    normal 0     Deccan Chargers 19    0    RG Sharma    SuperSport Park MR Benson    H
K Dharmasena
104   2009    Johannesburg 2009-05-16    Kolkata Knight Riders  Deccan Chargers Deccan Chargers field  normal 0    Deccan Chargers 0    6    RG Sharma    New Wanderers Stadium  R
Koertzen   S Ravi
166   2010    Dharamsala   2010-04-16    Kings XI Punjab Deccan Chargers Deccan Chargers field  normal 0    Deccan Chargers 0    5    RG Sharma    Himachal Pradesh Cricket Associat
n Stadium    M Erasmus    AM Saheba
257   2012    Visakhapatnam 2012-04-09    Deccan Chargers Mumbai Indians Deccan Chargers bat    normal 0    Mumbai Indians 0    5    RG Sharma    Dr. Y.S. Rajasekhara Reddy ACA-VD
Cricket Stadium    AK Chaudhary    JD Cloete
304   2012    Kolkata 2012-05-12    Mumbai Indians Kolkata Knight Riders  Mumbai Indians bat    normal 0    Mumbai Indians 27    0    RG Sharma    Eden Gardens    S Ravi  SJA Taufe
336   2013    Mumbai 2013-04-13    Mumbai Indians Pune Warriors  Mumbai Indians bat    normal 0    Mumbai Indians 41    0    RG Sharma    Wankhede Stadium    S Ravi  SJA Taufe
362   2013    Mumbai 2013-04-29    Mumbai Indians Kings XI Punjab Mumbai Indians bat    normal 0    Mumbai Indians 4    0    RG Sharma    Wankhede Stadium    Asad Rauf    A
Chaudhary
425   2014    Mumbai 2014-05-06    Mumbai Indians Royal Challengers Bangalore    Royal Challengers Bangalore    field  normal 0    Mumbai Indians 19    0    RG Sharma    Wankhede
adium   S Ravi  K Srinath
517   2015    Kolkata 2015-05-24    Mumbai Indians Chennai Super Kings    Chennai Super Kings    field  normal 0    Mumbai Indians 41    0    RG Sharma    Eden Gardens    HDPK Dhar
sena   RK Illingworth
522   2016    Kolkata 2016-04-13    Kolkata Knight Riders  Mumbai Indians Mumbai Indians field  normal 0    Mumbai Indians 0    6    RG Sharma    Eden Gardens    Nitin Menon    S
avi
531   2016    Mumbai 2016-04-20    Royal Challengers Bangalore    Mumbai Indians Mumbai Indians field  normal 0    Mumbai Indians 0    6    RG Sharma    Wankhede Stadium    A
Chaudhary    CK Nandan
541   2016    Mumbai 2016-04-28    Kolkata Knight Riders  Mumbai Indians Mumbai Indians field  normal 0    Mumbai Indians 0    6    RG Sharma    Wankhede Stadium    Nitin Men
RJ Tucker
546   2016    Pune   2016-05-01    Rising Pune Supergiants Mumbai Indians Mumbai Indians field  normal 0    Mumbai Indians 0    8    RG Sharma    Maharashtra Cricket Association S
dium   AY Dandekar    RJ Tucker
Time taken: 0.226 seconds, Fetched: 13 row(s)
hive>
```

From Deliveries table

Query to fetch detail for bowler DJ Bravo

CODE:

SELECT * FROM DELIVERIES WHERE BOWLER='DJ BRAVO';

OUTPUT:

```
hive> SELECT * FROM deliveries WHERE bowler = 'DJ Bravo' ;
OK
8    1    Chennai Super Kings    Mumbai Indians 9     1    SK Raina      ML Hayden     DJ Bravo    0    0    0    0    0    0    0    0    0
8    1    Chennai Super Kings    Mumbai Indians 9     2    SK Raina      ML Hayden     DJ Bravo    0    0    0    0    0    0    0    0    0
8    1    Chennai Super Kings    Mumbai Indians 9     3    SK Raina      ML Hayden     DJ Bravo    0    0    0    1    0    0    0    1    1
8    1    Chennai Super Kings    Mumbai Indians 9     4    ML Hayden     SK Raina      DJ Bravo    0    0    0    0    0    0    4    0    4
8    1    Chennai Super Kings    Mumbai Indians 9     5    ML Hayden     SK Raina      DJ Bravo    0    0    0    0    0    0    1    0    1
8    1    Chennai Super Kings    Mumbai Indians 9     6    SK Raina      ML Hayden     DJ Bravo    0    0    0    0    0    0    2    0    2
8    1    Chennai Super Kings    Mumbai Indians 11    1    SK Raina      ML Hayden     DJ Bravo    0    0    0    0    0    0    6    0    6
8    1    Chennai Super Kings    Mumbai Indians 11    2    SK Raina      ML Hayden     DJ Bravo    0    0    0    0    0    0    1    0    1
8    1    Chennai Super Kings    Mumbai Indians 11    3    ML Hayden     SK Raina      DJ Bravo    0    0    0    0    0    0    1    0    1
8    1    Chennai Super Kings    Mumbai Indians 11    4    SK Raina      ML Hayden     DJ Bravo    0    0    0    0    0    0    1    0    1
8    1    Chennai Super Kings    Mumbai Indians 11    5    ML Hayden     SK Raina      DJ Bravo    0    0    0    0    0    0    4    0    4
8    1    Chennai Super Kings    Mumbai Indians 11    6    ML Hayden     SK Raina      DJ Bravo    0    0    0    0    0    0    1    0    1
8    1    Chennai Super Kings    Mumbai Indians 16    1    MS Dhoni      ML Hayden     DJ Bravo    0    1    0    0    0    0    0    1    1
8    1    Chennai Super Kings    Mumbai Indians 16    2    MS Dhoni      ML Hayden     DJ Bravo    0    0    0    0    0    0    4    0    4
8    1    Chennai Super Kings    Mumbai Indians 16    3    MS Dhoni      ML Hayden     DJ Bravo    0    0    0    0    0    0    0    0    0
8    1    Chennai Super Kings    Mumbai Indians 16    4    MS Dhoni      ML Hayden     DJ Bravo    0    0    0    0    0    0    4    0    4
8    1    Chennai Super Kings    Mumbai Indians 16    5    MS Dhoni      ML Hayden     DJ Bravo    0    0    0    0    0    0    1    0    1
8    1    Chennai Super Kings    Mumbai Indians 16    6    ML Hayden     MS Dhoni      DJ Bravo    0    0    0    0    0    0    4    0    4
8    1    Chennai Super Kings    Mumbai Indians 16    7    ML Hayden     MS Dhoni      DJ Bravo    0    0    0    0    0    0    1    0    1
10   1    Kings XI Punjab Mumbai Indians 8     1    KC Sangakkara   K Goel   DJ Bravo    0    0    0    0    0    0    4    0    4
10   1    Kings XI Punjab Mumbai Indians 8     2    KC Sangakkara   K Goel   DJ Bravo    0    0    0    0    0    0    1    0    1
10   1    Kings XI Punjab Mumbai Indians 8     3    K Goel  KC Sangakkara   DJ Bravo    0    0    0    0    0    0    0    0
10   1    Kings XI Punjab Mumbai Indians 8     4    K Goel  KC Sangakkara   DJ Bravo    0    0    0    0    0    0    0    0
10   1    Kings XI Punjab Mumbai Indians 8     5    K Goel  KC Sangakkara   DJ Bravo    0    0    0    0    0    0    6    0    6
10   1    Kings XI Punjab Mumbai Indians 8     6    K Goel  KC Sangakkara   DJ Bravo    0    0    0    0    0    0    0    0
10   1    Kings XI Punjab Mumbai Indians 10    1    Yuvraj Singh    KC Sangakkara   DJ Bravo    0    0    0    0    0    0    1    0    1
10   1    Kings XI Punjab Mumbai Indians 10    2    KC Sangakkara   Yuvraj Singh    DJ Bravo    0    0    0    0    0    0    2    0    2
10   1    Kings XI Punjab Mumbai Indians 10    3    KC Sangakkara   Yuvraj Singh    DJ Bravo    0    0    0    0    0    0    2    0    2
10   1    Kings XI Punjab Mumbai Indians 10    4    KC Sangakkara   Yuvraj Singh    DJ Bravo    0    0    0    0    0    0    0    0    0
10   1    Kings XI Punjab Mumbai Indians 10    5    KC Sangakkara   Yuvraj Singh    DJ Bravo    0    0    0    0    0    0    1    0    1
10   1    Kings XI Punjab Mumbai Indians 10    6    Yuvraj Singh    KC Sangakkara   DJ Bravo    0    0    0    0    0    0    2    0    2
10   1    Kings XI Punjab Mumbai Indians 16    1    KC Sangakkara   DPMD Jayawardene    DJ Bravo    0    0    0    0    0    0    4    0    4
10   1    Kings XI Punjab Mumbai Indians 16    2    KC Sangakkara   DPMD Jayawardene    DJ Bravo    0    0    0    0    0    0    0    0    0
10   1    Kings XI Punjab Mumbai Indians 16    3    KC Sangakkara   DPMD Jayawardene    DJ Bravo    0    0    0    0    0    0    0    0    0
10   1    Kings XI Punjab Mumbai Indians 16    4    KC Sangakkara   DPMD Jayawardene    DJ Bravo    0    0    0    0    0    0    1    0    1
10   1    Kings XI Punjab Mumbai Indians 16    5    DPMD Jayawardene    KC Sangakkara   DJ Bravo    0    0    0    0    0    0    2    0    2
10   1    Kings XI Punjab Mumbai Indians 16    6    DPMD Jayawardene    KC Sangakkara   DJ Bravo    0    0    0    0    0    0    1    0    1
13   2    Deccan Chargers Mumbai Indians 8     1    VVS Laxman      AC Gilchrist    DJ Bravo    0    0    0    0    0    0    1    0    1
13   2    Deccan Chargers Mumbai Indians 8     2    AC Gilchrist    VVS Laxman      DJ Bravo    0    0    0    0    0    0    1    0    1
13   2    Deccan Chargers Mumbai Indians 8     3    VVS Laxman      AC Gilchrist    DJ Bravo    0    0    0    0    0    0    4    0    4
13   2    Deccan Chargers Mumbai Indians 8     4    VVS Laxman      AC Gilchrist    DJ Bravo    0    1    0    0    0    0    1    1
13   2    Deccan Chargers Mumbai Indians 8     5    VVS Laxman      AC Gilchrist    DJ Bravo    0    0    0    0    0    0    1    0    1
13   2    Deccan Chargers Mumbai Indians 8     6    AC Gilchrist    VVS Laxman      DJ Bravo    0    0    0    0    0    0    6    0    6
```

571	1	Mumbai Indians	Gujarat Lions	19	7	Harbhajan Singh	HH Pandya	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	12	1	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	12	2	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	12	3	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	12	4	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	0	0	0	4	0	4	
574	2	Royal Challengers Bangalore	Gujarat Lions	12	5	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	12	6	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	0	0	0	
574	2	Royal Challengers Bangalore	Gujarat Lions	14	1	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	14	2	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	0	0	0	
574	2	Royal Challengers Bangalore	Gujarat Lions	14	3	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	14	4	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	14	5	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	0	0	0	
574	2	Royal Challengers Bangalore	Gujarat Lions	14	6	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	18	1	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	4	0	0	0	4	4	
574	2	Royal Challengers Bangalore	Gujarat Lions	18	2	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	0	0	0	0	0	0	
574	2	Royal Challengers Bangalore	Gujarat Lions	18	3	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	1	0	0	0	0	0	1	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	18	4	AB de Villiers	Iqbal Abdulla	DJ Bravo	0	0	0	0	0	0	1	0	1	
574	2	Royal Challengers Bangalore	Gujarat Lions	18	5	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	4	0	4	
574	2	Royal Challengers Bangalore	Gujarat Lions	18	6	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	4	0	4	
574	2	Royal Challengers Bangalore	Gujarat Lions	18	7	Iqbal Abdulla	AB de Villiers	DJ Bravo	0	0	0	0	0	0	4	0	4	
576	2	Sunrisers Hyderabad	Gujarat Lions	10	1	DA Warner	DJ Hooda	DJ Bravo	0	0	0	0	0	0	0	0	0	
576	2	Sunrisers Hyderabad	Gujarat Lions	10	2	DA Warner	DJ Hooda	DJ Bravo	0	0	0	0	0	0	1	0	1	
576	2	Sunrisers Hyderabad	Gujarat Lions	10	3	DJ Hooda	DA Warner	DJ Bravo	0	0	0	0	0	0	1	0	1	
576	2	Sunrisers Hyderabad	Gujarat Lions	10	4	DA Warner	DJ Hooda	DJ Bravo	0	0	0	0	0	0	0	0	0	
576	2	Sunrisers Hyderabad	Gujarat Lions	10	5	DA Warner	DJ Hooda	DJ Bravo	0	0	0	0	0	0	1	0	1	
576	2	Sunrisers Hyderabad	Gujarat Lions	10	6	DJ Hooda	DA Warner	DJ Bravo	0	0	0	0	0	0	1	0	1	
576	2	Sunrisers Hyderabad	Gujarat Lions	12	1	DJ Hooda	DA Warner	DJ Bravo	0	0	0	0	0	0	0	0	0	DJ Hooda bw
576	2	Sunrisers Hyderabad	Gujarat Lions	12	2	BCJ Cutting	DA Warner	DJ Bravo	0	0	0	0	0	0	0	0	0	
576	2	Sunrisers Hyderabad	Gujarat Lions	12	3	BCJ Cutting	DA Warner	DJ Bravo	0	0	0	0	0	0	4	0	4	
576	2	Sunrisers Hyderabad	Gujarat Lions	12	4	BCJ Cutting	DA Warner	DJ Bravo	0	0	0	0	0	0	2	0	2	
576	2	Sunrisers Hyderabad	Gujarat Lions	12	5	BCJ Cutting	DA Warner	DJ Bravo	0	0	0	0	0	0	0	0	0	
576	2	Sunrisers Hyderabad	Gujarat Lions	12	6	BCJ Cutting	DA Warner	DJ Bravo	0	0	0	0	0	0	1	0	1	
576	2	Sunrisers Hyderabad	Gujarat Lions	16	1	DA Warner	NV Ojha	DJ Bravo	0	0	0	0	0	0	0	0	0	
576	2	Sunrisers Hyderabad	Gujarat Lions	16	2	DA Warner	NV Ojha	DJ Bravo	0	0	0	0	0	0	0	0	0	
576	2	Sunrisers Hyderabad	Gujarat Lions	16	3	DA Warner	NV Ojha	DJ Bravo	0	0	0	0	0	0	1	0	1	
576	2	Sunrisers Hyderabad	Gujarat Lions	16	4	NV Ojha	DA Warner	DJ Bravo	0	0	0	0	0	0	0	0	0	
576	2	Sunrisers Hyderabad	Gujarat Lions	16	5	NV Ojha	DA Warner	DJ Bravo	0	0	0	0	0	0	0	0	0	NV Ojha caught R Jadeja
576	2	Sunrisers Hyderabad	Gujarat Lions	16	6	Bipul Sharma	DA Warner	DJ Bravo	0	0	0	0	0	0	1	0	1	
576	2	Sunrisers Hyderabad	Gujarat Lions	19	1	DA Warner	Bipul Sharma	DJ Bravo	0	0	0	0	0	0	4	0	4	
576	2	Sunrisers Hyderabad	Gujarat Lions	19	2	DA Warner	Bipul Sharma	DJ Bravo	0	0	0	0	0	0	2	0	2	
576	2	Sunrisers Hyderabad	Gujarat Lions	19	3	DA Warner	Bipul Sharma	DJ Bravo	0	0	0	0	0	0	2	0	2	
576	2	Sunrisers Hyderabad	Gujarat Lions	19	4	DA Warner	Bipul Sharma	DJ Bravo	0	0	0	0	0	0	4	0	4	
576	2	Sunrisers Hyderabad	Gujarat Lions	19	5	DA Warner	Bipul Sharma	DJ Bravo	0	0	0	0	0	0	1	0	1	

Query to get info on the team Chennai Super Kings

CODE:

SELECT * FROM DELIVERIES WHERE BATTING_TEAM='CHENNAI SUPER KINGS' ;

OUTPUT:

```
517   2    Chennai Super Kings   Mumbai Indians  14   4   DJ Bravo          MS Dhoni      Harbhajan Singh 0    0   0   0   0   0   2   0   2
517   2    Chennai Super Kings   Mumbai Indians  14   5   DJ Bravo          MS Dhoni      Harbhajan Singh 0    0   0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  14   6   DJ Bravo          MS Dhoni      Harbhajan Singh 0    0   0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  15   1   DJ Bravo          MS Dhoni      MJ McClenaghan  0    0   0   0   0   0   6   0   6
517   2    Chennai Super Kings   Mumbai Indians  15   2   DJ Bravo          MS Dhoni      MJ McClenaghan  0    0   0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  15   3   DJ Bravo          MS Dhoni      MJ McClenaghan  0    0   0   0   0   0   0   0   0   DJ Bravo
aught   LMP Simmons
517   2    Chennai Super Kings   Mumbai Indians  15   4   MS Dhoni      P Negi MJ McClenaghan  0    0   0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  15   5   MS Dhoni      P Negi MJ McClenaghan  0    0   0   0   0   4   0   4
517   2    Chennai Super Kings   Mumbai Indians  15   6   MS Dhoni      P Negi MJ McClenaghan  0    0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  16   1   P Negi  MS Dhoni          SL Malinga    0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  16   2   MS Dhoni      P Negi  SL Malinga    0    0   0   0   0   6   0   6
517   2    Chennai Super Kings   Mumbai Indians  16   3   MS Dhoni      P Negi  SL Malinga    0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  16   4   P Negi  MS Dhoni          SL Malinga    0    0   0   0   1   0   1   1   2
517   2    Chennai Super Kings   Mumbai Indians  16   5   MS Dhoni      P Negi  SL Malinga    0    0   0   0   0   2   0   2
517   2    Chennai Super Kings   Mumbai Indians  16   6   MS Dhoni      P Negi  SL Malinga    0    0   0   0   0   0   0   0   MS Dhoni       b
led
517   2    Chennai Super Kings   Mumbai Indians  16   7   F du Plessis  P Negi  SL Malinga    0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  17   1   F du Plessis  P Negi  R Vinay Kumar 0    0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  17   2   F du Plessis  P Negi  R Vinay Kumar 0    0   0   0   0   0   0   0   F du Plessis   c
ght   RG Sharma
517   2    Chennai Super Kings   Mumbai Indians  17   3   RA Jadeja     P Negi  R Vinay Kumar 0    0   0   0   0   4   0   4
517   2    Chennai Super Kings   Mumbai Indians  17   4   RA Jadeja     P Negi  R Vinay Kumar 0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  17   5   P Negi  RA Jadeja       R Vinay Kumar 0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  17   6   RA Jadeja     P Negi  R Vinay Kumar 0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  18   1   RA Jadeja     P Negi  SL Malinga    0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  18   2   P Negi  RA Jadeja       SL Malinga    0    1   0   0   0   0   1   1
517   2    Chennai Super Kings   Mumbai Indians  18   3   P Negi  RA Jadeja       SL Malinga    0    0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  18   4   P Negi  RA Jadeja       SL Malinga    0    0   0   0   0   0   0   0   P Negi  caught  H
Pandya
517   2    Chennai Super Kings   Mumbai Indians  18   5   R Ashwin      RA Jadeja     SL Malinga    0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  18   6   RA Jadeja     R Ashwin      SL Malinga    0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  18   7   R Ashwin      RA Jadeja     SL Malinga    0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  19   1   R Ashwin      RA Jadeja     MJ McClenaghan 0    0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  19   2   R Ashwin      RA Jadeja     MJ McClenaghan 0    0   0   0   0   0   0   0   R Ashwin
aught   J Suchith
517   2    Chennai Super Kings   Mumbai Indians  19   3   RA Jadeja     MM Sharma     MJ McClenaghan 0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  19   4   MM Sharma     RA Jadeja     MJ McClenaghan 0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  19   5   RA Jadeja     MM Sharma     MJ McClenaghan 0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  19   6   MM Sharma     RA Jadeja     MJ McClenaghan 0    0   0   0   0   0   0   0
517   2    Chennai Super Kings   Mumbai Indians  20   1   RA Jadeja     MM Sharma     R Vinay Kumar 0    0   0   0   0   1   0   1
517   2    Chennai Super Kings   Mumbai Indians  20   2   MM Sharma     RA Jadeja     R Vinay Kumar 0    0   0   0   0   2   0   2
517   2    Chennai Super Kings   Mumbai Indians  20   3   MM Sharma     RA Jadeja     R Vinay Kumar 0    0   0   0   0   6   0   6
517   2    Chennai Super Kings   Mumbai Indians  20   4   MM Sharma     RA Jadeja     R Vinay Kumar 0    0   0   0   0   2   0   2
517   2    Chennai Super Kings   Mumbai Indians  20   5   MM Sharma     RA Jadeja     R Vinay Kumar 0    0   0   0   0   6   0   6
517   2    Chennai Super Kings   Mumbai Indians  20   6   MM Sharma     RA Jadeja     R Vinay Kumar 0    0   0   0   0   4   0   4
Time taken: 0.193 seconds, Fetched: 15754 row(s)
hive> SELECT * FROM deliveries WHERE batting_team = 'Chennai Super Kings' ;
```

```
203   1   Chennai Super Kings   Pune Warriors   4    4   M Vijay MEK Hussey     AC Thomas      0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   4    5   M Vijay MEK Hussey     AC Thomas      0   0   0   0   0   0   2   0   2
203   1   Chennai Super Kings   Pune Warriors   4    6   M Vijay MEK Hussey     AC Thomas      0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   5    1   M Vijay MEK Hussey     JE Taylor      0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   5    2   MEK Hussey    M Vijay JE Taylor      0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   5    3   MEK Hussey    M Vijay JE Taylor      0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   5    4   MEK Hussey    M Vijay JE Taylor      0   0   0   0   0   0   4   0   4
203   1   Chennai Super Kings   Pune Warriors   5    5   MEK Hussey    M Vijay JE Taylor      0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   5    6   M Vijay MEK Hussey     JE Taylor      0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   6    1   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   6    2   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   6    3   M Vijay MEK Hussey     M Kartik       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   6    4   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   4   0   4
203   1   Chennai Super Kings   Pune Warriors   6    5   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   4   0   4
203   1   Chennai Super Kings   Pune Warriors   6    6   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   7    1   M Vijay MEK Hussey     R Sharma       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   7    2   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   7    3   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   7    4   M Vijay MEK Hussey     R Sharma       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   7    5   M Vijay MEK Hussey     R Sharma       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   7    6   M Vijay MEK Hussey     R Sharma       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   8    1   M Vijay MEK Hussey     M Kartik       0   0   0   0   0   0   6   0   6
203   1   Chennai Super Kings   Pune Warriors   8    2   M Vijay MEK Hussey     M Kartik       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   8    3   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   8    4   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   8    5   M Vijay MEK Hussey     M Kartik       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   8    6   MEK Hussey    M Vijay M Kartik       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   9    1   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   9    2   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   2   0   2
203   1   Chennai Super Kings   Pune Warriors   9    3   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   2   0   2
203   1   Chennai Super Kings   Pune Warriors   9    4   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   9    5   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   9    6   MEK Hussey    M Vijay R Sharma       0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   10   1   MEK Hussey    M Vijay AC Thomas      0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   10   2   M Vijay MEK Hussey     AC Thomas      0   0   0   0   0   0   0   0   0   M Vijay caught  N
McCullum
203   1   Chennai Super Kings   Pune Warriors   10   3   SK Raina      MEK Hussey    AC Thomas  0   0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   10   4   SK Raina      MEK Hussey    AC Thomas  0   0   0   0   0   0   0   2   0   2
203   1   Chennai Super Kings   Pune Warriors   10   5   SK Raina      MEK Hussey    AC Thomas  0   0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   10   6   SK Raina      MEK Hussey    AC Thomas  0   0   0   0   0   0   0   0   0   0   SK Raina
owled
203   1   Chennai Super Kings   Pune Warriors   11   1   MEK Hussey    MS Dhoni      Yuvraj Singh  0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   11   2   MS Dhoni      MEK Hussey    Yuvraj Singh  0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   11   3   MS Dhoni      MEK Hussey    Yuvraj Singh  0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   11   4   MS Dhoni      MEK Hussey    Yuvraj Singh  0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   11   5   MEK Hussey    MS Dhoni      Yuvraj Singh  0   0   0   0   0   0   1   0   1
203   1   Chennai Super Kings   Pune Warriors   11   6   MS Dhoni      MEK Hussey    Yuvraj Singh  0   0   0   0   0   0   0   0   0
203   1   Chennai Super Kings   Pune Warriors   12   1   MEK Hussey    MS Dhoni      M Kartik      0   0   0   0   0   0   1   0   1
```

Query to get info on non striker batsman

CODE:

SELECT * FROM deliveries WHERE inning='2' AND
non_striker='BB McCullum';

OUTPUT:

```
hive> SELECT * FROM deliveries WHERE inning='2' AND non_striker='BB McCullum' ;
OK
5    2    Kolkata Knight Riders  Deccan Chargers  1    1    WP Saha BB McCullum    WPUJC Vaas      0    0    0    0    0    0    1    0    1
5    2    Kolkata Knight Riders  Deccan Chargers  1    5    WP Saha BB McCullum    WPUJC Vaas      0    0    0    0    0    0    0    0    0
5    2    Kolkata Knight Riders  Deccan Chargers  1    6    WP Saha BB McCullum    WPUJC Vaas      0    0    0    0    0    0    0    0    0
64   2    Kolkata Knight Riders  Kings XI Punjab  1    5    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    0    0    0    0
64   2    Kolkata Knight Riders  Kings XI Punjab  1    6    CH Gayle     BB McCullum   IK Pathan    0    1    0    0    0    0    0    1    1
64   2    Kolkata Knight Riders  Kings XI Punjab  1    7    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    1    0    1
64   2    Kolkata Knight Riders  Kings XI Punjab  2    1    CH Gayle     BB McCullum   YA Abdulla   0    0    0    0    0    0    1    0    1
64   2    Kolkata Knight Riders  Kings XI Punjab  2    6    CH Gayle     BB McCullum   YA Abdulla   0    1    0    0    0    0    0    1    1
64   2    Kolkata Knight Riders  Kings XI Punjab  2    7    CH Gayle     BB McCullum   YA Abdulla   0    0    0    0    0    0    0    0    0
64   2    Kolkata Knight Riders  Kings XI Punjab  2    8    CH Gayle     BB McCullum   YA Abdulla   0    0    0    0    0    0    2    0    2
64   2    Kolkata Knight Riders  Kings XI Punjab  3    2    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    0    0    0
64   2    Kolkata Knight Riders  Kings XI Punjab  3    3    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    0    0    0
64   2    Kolkata Knight Riders  Kings XI Punjab  3    4    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    0    0    0
64   2    Kolkata Knight Riders  Kings XI Punjab  3    5    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    6    0    6
64   2    Kolkata Knight Riders  Kings XI Punjab  3    6    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    0    0    0
64   2    Kolkata Knight Riders  Kings XI Punjab  4    3    CH Gayle     BB McCullum   YA Abdulla   0    0    0    0    0    0    6    0    6
64   2    Kolkata Knight Riders  Kings XI Punjab  4    4    CH Gayle     BB McCullum   YA Abdulla   0    0    0    0    0    0    1    0    1
64   2    Kolkata Knight Riders  Kings XI Punjab  5    1    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    4    0    4
64   2    Kolkata Knight Riders  Kings XI Punjab  5    2    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    4    0    4
64   2    Kolkata Knight Riders  Kings XI Punjab  5    3    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    6    0    6
64   2    Kolkata Knight Riders  Kings XI Punjab  5    4    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    1    0    1
64   2    Kolkata Knight Riders  Kings XI Punjab  5    6    CH Gayle     BB McCullum   IK Pathan    0    1    0    0    0    0    0    1    1
64   2    Kolkata Knight Riders  Kings XI Punjab  5    7    CH Gayle     BB McCullum   IK Pathan    0    0    0    0    0    0    0    0    0
67   2    Kolkata Knight Riders  Rajasthan Royals 1    1    CH Gayle     BB McCullum   YK Pathan    0    0    0    0    0    0    0    0    0
67   2    Kolkata Knight Riders  Rajasthan Royals 1    2    CH Gayle     BB McCullum   YK Pathan    0    0    0    0    0    0    0    0    0
67   2    Kolkata Knight Riders  Rajasthan Royals 1    3    CH Gayle     BB McCullum   YK Pathan    0    1    0    0    0    0    0    1    1
67   2    Kolkata Knight Riders  Rajasthan Royals 1    4    CH Gayle     BB McCullum   YK Pathan    0    0    0    0    0    0    2    0    2
67   2    Kolkata Knight Riders  Rajasthan Royals 1    5    CH Gayle     BB McCullum   YK Pathan    0    0    0    0    0    0    0    0    0
67   2    Kolkata Knight Riders  Rajasthan Royals 1    6    CH Gayle     BB McCullum   YK Pathan    0    0    0    0    0    0    0    0    0
67   2    Kolkata Knight Riders  Rajasthan Royals 1    7    CH Gayle     BB McCullum   YK Pathan    0    0    0    0    0    0    4    0    4
67   2    Kolkata Knight Riders  Rajasthan Royals 2    4    CH Gayle     BB McCullum   AD Mascarenhas 0    0    0    0    0    0    0    0    0
67   2    Kolkata Knight Riders  Rajasthan Royals 2    5    CH Gayle     BB McCullum   AD Mascarenhas 0    0    0    0    0    0    0    0    0
```

Query to get info on Virat Kohli

CODE:

SELECT * FROM matches WHERE player_of_match='V Kohli';

OUTPUT:

ORDER BY CLAUSE:

CODE:

SELECT * FROM MATCHES WHERE batsman='V Kohli' ORDER BY total_runs DESC;

OUTPUT:

```
35    1    Royal Challengers Bangalore    Kings XI Punjab 1      3    V Kohli J Arunkumar    S Sreesanth       0    0    0    0    0    0    0    0    0
35    1    Royal Challengers Bangalore    Kings XI Punjab 1      2    V Kohli J Arunkumar    S Sreesanth       0    0    0    0    0    0    0    0    0
31    1    Royal Challengers Bangalore    Mumbai Indians  13     2    V Kohli R Dravid       A Nehra 0         0    0    0    0    0    0    0    0    V Kohli caught  YV
Takawale
25    1    Royal Challengers Bangalore    Kings XI Punjab 13     1    V Kohli R Dravid       IK Pathan         0    0    0    0    0    0    0    0    V Kohli cau
ght    S Sreesanth
25    1    Royal Challengers Bangalore    Kings XI Punjab 11     5    V Kohli R Dravid       S Sreesanth       0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 11     4    V Kohli R Dravid       S Sreesanth       0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 9      2    V Kohli R Dravid       VRV Singh         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 8      1    V Kohli R Dravid       Gagandeep Singh 0  0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 7      2    V Kohli R Dravid       VRV Singh         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 4      6    V Kohli R Dravid       IK Pathan         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 4      5    V Kohli R Dravid       IK Pathan         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 4      4    V Kohli R Dravid       IK Pathan         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 4      3    V Kohli JH Kallis      IK Pathan         0    0    0    0    0    0    0    0    JH Kallis r
un out  SE Marsh
25    1    Royal Challengers Bangalore    Kings XI Punjab 4      2    V Kohli JH Kallis      IK Pathan         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 3      2    V Kohli JH Kallis      S Sreesanth       0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 3      1    V Kohli JH Kallis      S Sreesanth       0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 2      6    V Kohli JH Kallis      IK Pathan         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 2      4    V Kohli JH Kallis      IK Pathan         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 2      2    V Kohli JH Kallis      IK Pathan         0    0    0    0    0    0    0    0    0
25    1    Royal Challengers Bangalore    Kings XI Punjab 2      1    V Kohli JH Kallis      IK Pathan         0    0    0    0    0    0    0    0    0
21    2    Royal Challengers Bangalore    Deccan Chargers 18     2    V Kohli CL White       WPUJC Vaas        0    0    0    0    0    0    0    0    V Kohli cau
ght    DB Ravi Teja
15    2    Royal Challengers Bangalore    Chennai Super Kings    18   2    V Kohli P Kumar JA Morkel      0    0    0    0    0    0    0    0    0    V Kohli bow
led
15    2    Royal Challengers Bangalore    Chennai Super Kings    16   5    V Kohli MV Boucher       P Amarnath   0    0    0    0    0    0    0    0    0
11    1    Royal Challengers Bangalore    Rajasthan Royals       10   4    V Kohli MV Boucher       MM Patel     0    0    0    0    0    0    0    0    0    V K
ohli   caught  M Rawat
11    1    Royal Challengers Bangalore    Rajasthan Royals       10   3    V Kohli MV Boucher       MM Patel     0    0    0    0    0    0    0    0    0
11    1    Royal Challengers Bangalore    Rajasthan Royals       10   2    V Kohli MV Boucher       MM Patel     0    0    0    0    0    0    0    0    0
11    1    Royal Challengers Bangalore    Rajasthan Royals       9    6    V Kohli MV Boucher       SK Trivedi   0    0    0    0    0    0    0    0    0
11    1    Royal Challengers Bangalore    Rajasthan Royals       9    5    V Kohli MV Boucher       SK Trivedi   0    0    0    0    0    0    0    0    0
11    1    Royal Challengers Bangalore    Rajasthan Royals       9    1    V Kohli MV Boucher       SK Trivedi   0    0    0    0    0    0    0    0    0
11    1    Royal Challengers Bangalore    Rajasthan Royals       7    5    V Kohli LRPL Taylor      SK Trivedi   0    0    0    0    0    0    0    0    0
4     2    Royal Challengers Bangalore    Mumbai Indians  14     4    V Kohli JH Kallis      A Nehra 0         0    0    0    0    0    0    0    0    V Kohli caught  L R
onchi
4     2    Royal Challengers Bangalore    Mumbai Indians  14     3    V Kohli JH Kallis      A Nehra 0         0    0    0    0    0    0    0    0
4     2    Royal Challengers Bangalore    Mumbai Indians  13     4    V Kohli JH Kallis      AM Nayar          0    0    0    0    0    0    0    0
4     2    Royal Challengers Bangalore    Mumbai Indians  13     1    V Kohli JH Kallis      AM Nayar          0    0    0    0    0    0    0    0
4     2    Royal Challengers Bangalore    Mumbai Indians  11     3    V Kohli JH Kallis      Harbhajan Singh 0  0    0    0    0    0    0    0    0
1     2    Royal Challengers Bangalore    Kolkata Knight Riders  3    2    V Kohli W Jaffer       AB Dinda     0    0    0    0    0    0    0    0    0    V K
ohli   bowled
1     2    Royal Challengers Bangalore    Kolkata Knight Riders  3    1    V Kohli W Jaffer       AB Dinda     0    0    0    0    0    0    0    0    0
1     2    Royal Challengers Bangalore    Kolkata Knight Riders  2    2    V Kohli W Jaffer       I Sharma     0    0    0    0    0    0    0    0    0
Time taken: 78.618 seconds, Fetched: 3237 row(s)
hive>
```

Query to get count of a team

CODE:

SELECT COUNT('Chennai Super Kings') FROM matches;

OUTPUT:

```
hive> SELECT COUNT( 'Chennai Super Kings' ) FROM matches ;
Query ID = hdoop_20221019224907_863dcc33-483c-450f-83bb-00cff040bc03
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1666017721580_0019, Tracking URL = http://navin-virtualbox:8088/proxy/application_1666017721580_0019/
Kill Command = /home/hdoop/hadoop-3.3.4/bin/mapred job  -kill job_1666017721580_0019
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-10-19 22:49:16,610 Stage-1 map = 0%,  reduce = 0%
2022-10-19 22:49:21,905 Stage-1 map = 100%,  reduce = 0%, Cumulative CPU 2.73 sec
2022-10-19 22:49:29,246 Stage-1 map = 100%,  reduce = 100%, Cumulative CPU 5.75 sec
MapReduce Total cumulative CPU time: 5 seconds 750 msec
Ended Job = job_1666017721580_0019
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1  Reduce: 1   Cumulative CPU: 5.75 sec   HDFS Read: 121112 HDFS Write: 103 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 750 msec
OK
578
Time taken: 23.093 seconds, Fetched: 1 row(s)
hive>
```

Query to get the count of matches played between two teams throughout the seasons

CODE:

SELECT COUNT('Chennai Super Kings') FROM matches WHERE team1='Chennai Super Kings' AND team2='Mumbai Indians' ;

SELECT COUNT('Royal Challengers Bangalore') FROM matches WHERE team1='Kolkata Knight Riders' AND team2='Royal Challengers Bangalore' ;

OUTPUT:

```
hive> SELECT COUNT( 'Chennai Super Kings' ) FROM matches WHERE team1='Chennai Super Kings' AND team2='Mumbai Indians' ;
Query ID = hdoop_20221019225036_cdb21c6a-2f15-434e-bf08-a5986b7f40b8
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1666017721580_0020, Tracking URL = http://navin-virtualbox:8088/proxy/application_1666017721580_0020/
Kill Command = /home/hdoop/hadoop-3.3.4/bin/mapred job  -kill job_1666017721580_0020
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-10-19 22:50:49,701 Stage-1 map = 0%,  reduce = 0%
2022-10-19 22:50:57,005 Stage-1 map = 100%,  reduce = 0%, Cumulative CPU 3.78 sec
2022-10-19 22:51:04,288 Stage-1 map = 100%,  reduce = 100%, Cumulative CPU 7.11 sec
MapReduce Total cumulative CPU time: 7 seconds 110 msec
Ended Job = job_1666017721580_0020
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1  Reduce: 1   Cumulative CPU: 7.11 sec   HDFS Read: 123102 HDFS Write: 102 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 110 msec
OK
10
Time taken: 28.965 seconds, Fetched: 1 row(s)
hive>
```

```
hive> SELECT COUNT( 'Royal Challengers Bangalore' ) FROM matches WHERE team1='Kolkata Knight Riders' AND team2='Royal Challengers Bangalore' ;
Query ID = hdoop_20221019230239_ca07744a-c23f-432e-a5cf-44575715d6df
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1666017721580_0024, Tracking URL = http://navin-virtualbox:8088/proxy/application_1666017721580_0024/
Kill Command = /home/hdoop/hadoop-3.3.4/bin/mapred job  -kill job_1666017721580_0024
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2022-10-19 23:02:50,806 Stage-1 map = 0%,  reduce = 0%
2022-10-19 23:02:59,253 Stage-1 map = 100%,  reduce = 0%, Cumulative CPU 4.23 sec
2022-10-19 23:03:09,693 Stage-1 map = 100%,  reduce = 100%, Cumulative CPU 8.98 sec
MapReduce Total cumulative CPU time: 8 seconds 980 msec
Ended Job = job_1666017721580_0024
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1  Reduce: 1   Cumulative CPU: 8.98 sec   HDFS Read: 123162 HDFS Write: 102 SUCCESS
Total MapReduce CPU Time Spent: 8 seconds 980 msec
OK
15
Time taken: 32.157 seconds, Fetched: 1 row(s)
hive>
```