

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_parting_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_dismissed
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,1,SC Ganguly,BB McCullum,P Kumar,0,0,0,1,0,0,0,1,1,...
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,2,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,0,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,3,88 McCullum,SC Ganguly,P Kumar,0,1,0,0,0,0,0,1,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,4,88 McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,0,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,5,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,0,0,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,6,88 McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,0,0,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,1,7,BB McCullum,SC Ganguly,P Kumar,0,0,0,1,0,0,0,1,1,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,1,88 McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,0,0,0,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,2,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,3,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,4,88 McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,6,0,5,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,5,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,2,6,88 McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,0,0,0,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,1,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,2,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,0,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,3,SC Ganguly,BB McCullum,P Kumar,0,0,0,1,0,0,0,1,1,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,4,88 McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,4,0,4,,,
 1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,5,88 McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,1,0,1,,,
 1,1,Kolkata Knight Riders,Royal Challengers Bangalore,3,6,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,0,0,,
 1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,1,BB McCullum,SC Ganguly,AA Noffke,0,5,0,0,0,0,0,5,5,,,
 l,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,2,BB McCullum,SC Ganguly,AA Noffke,0,0,0,0,0,0,0,6,0,6,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,3,88 McCullum,SC Ganguly,AA Noffke,0,0,0,1,0,0,0,1,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,4,SC Ganguly,BB McCullum,AA Noffke,0,0,0,0,0,0,0,4,0,4,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,5,SC Ganguly,88 McCullum,44 Noffke,0,0,0,0,0,0,0,0,0,0,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,6,SC Ganguly,BB McCullum,AA Noffke,0,0,0,0,0,0,1,0,1,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,4,7,BB McCullum,SC Ganguly,AA Noffke,8,8,8,8,8,6,6,6,6,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,1,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,4,0,4,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,2,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,1,0,1,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,3,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,4,0,4,,,
 l,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,4,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,0,0,0,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,5,BB McCullum,SC Ganguly,P Kumar,0,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,5,6,SC Ganguly,BB McCullum,P Kumar,0,0,0,0,0,0,0,0,0,0,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,1,BB McCullum,SC Ganguly,Z Khan,0,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,2,SC Ganguly,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,0,0,5C Ganguly,caught,JH Kallis
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,3,RT Ponting,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,0,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,6,5,RT Ponting,BB McCullum,Z Khan,0,0,0,0,0,0,0,0,0,,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,1,BB McCullum,RT Ponting,AA Noffke,0,0,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,2,RT Ponting,BB McCullum,AA Noffke,0,0,0,0,0,0,1,0,1,,,
1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,3,BB McCullum,RT Ponting,AA Noffke,0,0,0,0,0,0,0,1,0,1,,,
 1,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,4,RT Ponting,88 McCullum,44 Noffke,0,0,0,0,0,0,0,2,0,2,,,
 ,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,5,RT Ponting,BB McCullum,AA Noffke,0,0,0,0,0,0,1,0,1,,,
 ,1,Kolkata Knight Riders,Royal Challengers Bangalore,7,6,88 McCullum,NT Ponting,AA Noffke,0,0,0,0,0,0,1,0,1,,,
```

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:



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

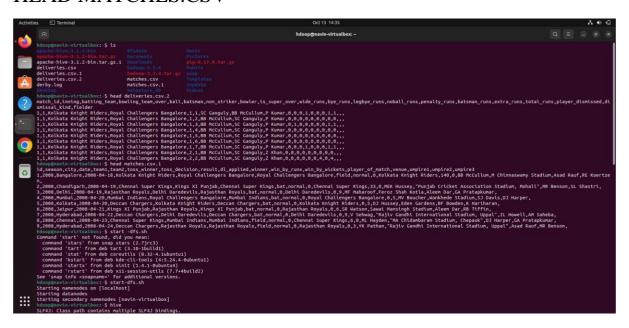
HIVE QUERIES

Creating table for matches and deliveries

```
The taken: 1.633 Seconds
hive of Realt Eable Deliveres ( hatch id int, moning int, matting Team String, over int, ball int, batsaan String, no. String
```

Displaying contents of the table

HEAD MATCHES.CSV



HEAD DELIVERIES.CSV

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Addoorginatin-virtualbos: 5 head deltwerter.Cov.2

arach_ld, Inting_batting_team, owting_team, over, ball, bataman, non_striker, bowler, is_super_over, wide_runs, bye_runs, legbye_runs, noball_runs, penalty_runs, bataman_runs, extre_runs, total_runs, player_dismissed, dismissed, dismis
```

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

Code:

CREATE TABLE MATCHES

```
FALLED: PARSEEXCEPTION TIME 1:107 CANNOT RECOGNIZE LIDUT NEAR APPLIED. INT. , IN COTUMN TYPE
     hive> CREATE TABLE MATCHES ( Id INT, Season STRING, City STRING, Date Of Match DATE, Teaml STRING, Teaml STRING, Toss Minner STRING, Toss Decision STRING, Result STRING, DI Applied INT, Winner STRING, N
     n By Runs INT, Win By Wickets INT, Player Of Match STRING, Venue STRING, Unpire1 STRING, Unpire2 STRING, Unpire3 STRING) ROW FORMAT DELIMITED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
     Time taken: 0.884 seconds
     hive> LOAD DATA LOCAL INPATH 'matches.csv.1' OVERWRITE INTO TABLE MATCHES;
     Loading data to table default.matches
     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, Nide_Runs IN
     T, 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 DELIMIT
     ED FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
     Time taken: 0.095 seconds
     hive> LOAD DATA LOCAL INPATH 'deliveries.csv.2' OVERWRITE INTO TABLE DELIVERIES;
     Loading data to table default.deliveries
Ш
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);

```
hive> SELECT season AS SEASON, winner AS WINNER, IF(win_by_runs=0',CONCAT('Non by ',win_by_wickets,' Wickets'), CONCAT('Non by ',win_by_runs,' Runs')) AS 'WINNING MARGIN', IF(winner=team1,team2,team1 AS RUNNER, player_of_match FRON 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/
Klll Command = /home/hdoop/hadoop-3.3.4/bin/mapred job -klll 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_1666817721586 8812
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
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 Chennal Super Kings Won by 22 Runs Mumbal Indians SK Raina
2011 Chennal Super Kings Won by 58 Runs Royal Challengers Bangalore
        Kolkata Knight Riders Won by 5 Wickets
                                                               Chennal Super Kings
         Mumbai Indians Won by 23 Runs Chennai Super Kings KA Pollard
                                                               Kings XI Punjab MK Pandey
        Kolkata Knight Riders Won by 3 Wickets
         Mumbai Indians Won by 41 Runs Chennai Super Kings RG Sharma
         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';

Query to get info on Rohit Sharma

CODE:

SELECT * FROM MATCHES WHERE PLAYER OF MATCH='RG SHARMA';

```
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
                           Won by 3 Wickets
2008 Rajasthan Royals
                                                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
      Chennai Super Kings Won by 58 Runs Royal Challengers Bangalore
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 Kon 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';
                           2009-05-06 Deccan Chargers Mumbai Indians Deccan Chargers bat normal 0 Deccan Chargers 19 0
88
             Centurion
                                                                                                                                    RG Sharma
                                                                                                                                               SuperSport Park MR Benson
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
              S Ravt
Koertzen
             Dharamsala
                                         Kings XI Punjab Deccan Chargers Deccan Chargers field normal 0
                                                                                                        Deccan Chargers 0
                                                                                                                                    RG Sharma
                                                                                                                                                  Himachal Pradesh Cricket Associat
n Stadium
              M Erasmus
                            AM Saheba
257 2012 Visakhapatnam 2012-04-09
                                         Deccan Chargers Mumbal Indians Deccan Chargers bat normal 0
                                                                                                         Mumbal Indians 0
                                                                                                                                    RG Sharma
                                                                                                                                                  Dr. Y.S. Rajasekhara Reddy ACA-VD
Cricket Stadium
                    AK Chaudhary JD Cloete
304 2012 Kolkata 2012-05-12
                                  Mumbal Indians Kolkata Knight Riders Mumbal Indians bat
                                                                                          normal 0
                                                                                                         Mumbal Indians 27
                                                                                                                                    RG Sharma
                                                                                                                                                  Eden Gardens S Ravt SJA Taufe
                                                                                                                                          Wankhede Stadium
                                                                                                                                                                S Ravi SJA Taufe
    2013 Mumbai 2013-04-13
                                  Numbai Indians Pune Warriors Mumbai Indians bat normal 0 Mumbai Indians 41 0
                                                                                                                             RG Sharma
336
362 2013 Mumbai 2013-04-29
                                Mumbai Indians Kings XI Punjab Mumbai Indians bat normal 0
                                                                                                                                                                Asad Rauf
Chaudhary
                                  Mumbai Indians Royal Challengers Bangalore Royal Challengers Bangalore field normal 0
425 2014 Mumbai 2014-05-06
                                                                                                                             Mumbai Indians 19 0
                                                                                                                                                         RG Sharma
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
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                                                                                                                                    RG Sharma
                                                                                                                                                 Eden Gardens Nitin Menon
531 2016 Mumbai 2016-04-20
                                  Royal Challengers Bangalore Mumbai Indians Mumbai Indians field normal 0
                                                                                                               Mumbal Indians 0
                                                                                                                                    6 RG Sharma
                                                                                                                                                         Wankhede Stadium
Chaudhary
             CK Nandan
541 2016 Mumbai 2016-04-28
                                  Kolkata Knight Riders - Mumbal Indians - Mumbal Indians - field - normal - 6 - Mumbal Indians - 6
                                                                                                                                    RC 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
                                                                                                                                    RG Sharma
                                                                                                                                                  Maharashtra Cricket Association S
dium AY Dandekar RJ Tucker
Time taken: 0.226 seconds, Fetched: 13 row(s)
```

From Deliveries table

Query to fetch detail for bowler DJ Bravo

CODE:

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

Marie	CELECT	FOOM deliveries INCOL	baulas IDI Dani	7.5							_		_		_		
htve>	2FFFC	FROM deliveries WHERE I	powrer = DJ Brav) ;													
8		Chennai Super Kings	Mumbai Indians	9	1 SK Raina	ML Hayden	DJ Bravo	0	0	0	θ	0	ð	0	0	8	
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8		Chennal Super Kings	Mumbai Indians	9	4 ML Hayden	SK Raina	DJ Bravo	0	0	0	0	0	0	4	0	4	
8	1	Chennal Super Kings	Mumbai Indians	9	5 ML Hayden	SK Raina	DJ Bravo	0	0	0	0	0	Ð	1	0	1	
8		Chennai Super Kings	Mumbai Indians	9	6 SK Raina	ML Hayden	DJ Bravo	θ	Ø	0	θ	0	0		0	2	
8		Chennal Super Kings	Mumbai Indians	11	1 SK Raina	ML Hayden	DJ Bravo	0	0	0	0	0	0	6	0	6	
8		Chennai Super Kings	Mumbai Indians	11	2 SK Raina	ML Hayden	DJ Bravo	θ	0	0	θ	0	θ		0		
8		Chennal Super Kings	Mumbal Indians	11	3 ML Hayden	SK Ratna	DJ Bravo	0	0	0	0	0	0		0		
8		Chennai Super Kings	Mumbai Indians	11	4 SK Raina	ML Hayden	DJ Bravo	0	θ	0	θ	0	θ		θ		
8		Chennai Super Kings	Mumbai Indians	11	5 ML Hayden	SK Raina	DJ Bravo	0	0	0	0	0	0	4	0	4	
8		Chennal Super Kings	Mumbai Indians		6 ML Hayden	SK Ratna	DJ Bravo	0	0	0	0	0	0		0		
8		Chennai Super Kings	Mumbai Indians		1 MS Dhoni	ML Hayden	DJ Bravo	θ		0	θ	θ	θ	θ	1		
8		Chennal Super Kings	Mumbai Indians		2 MS Dhoni	ML Hayden	DJ Bravo	0	0	0	0	0	0	4	0	4	
8		Chennai Super Kings	Mumbai Indians		3 MS Dhoni	ML Hayden	DJ Bravo	0	θ	0	θ	0	0	Ð	θ	8	
8		Chennal Super Kings	Mumbai Indians		4 MS Dhoni	ML Hayden	DJ Bravo	0	0	0	0	0	0	4	0	4	
8		Chennai Super Kings	Mumbai Indians		5 MS Dhoni	ML Hayden	DJ Bravo	0	0	0	θ	0	0		0		
8		Chennal Super Kings	Mumbai Indians		6 ML Hayden	MS Dhont	DJ Bravo	θ	0	0	0	0	0	4	θ	4	
8		Chennal Super Kings	Mumbai Indians		7 ML Hayden	MS Dhoni	DJ Bravo	0	0	0	0	0	0		0		
10		Kings XI Punjab Mumbai			KC Sangakkara K Goel		0 0	θ	θ	0	θ		0	4			
10		Kings XI Punjab Mumbai			KC Sangakkara K Goel		0 0	0	0	0	0	1	0				
10		Kings XI Punjab Mumbai		3	K Goel KC Sangakkara		0 0	0	0	0	0	0	0	0			
10		Kings XI Punjab Mumbai		4	K Goel KC Sangakkara		0 0	0	0	0	0	0	0	0			
10		Kings XI Punjab Mumbai			K Goel KC Sangakkara		0 0	0	0	0	θ	6	0	6			
10	1	Kings XI Punjab Mumbai		6	K Goel KC Sangakkara		0 0	8	0	0	0	0	0	0			
10	1	Kings XI Punjab Mumbai				gakkara DJ B		8	0	0	8	0	1	8	1		
10		Kings XI Punjab Mumbai		2	KC Sangakkara Yuvraj								2		2 2		
10	1	Kings XI Punjab Mumbai Kings XI Punjab Mumbai		3	KC Sangakkara Yuvraj KC Sangakkara Yuvraj			0	0	0	8	0	2 8	8	8		
10	1	Kings XI Punjab Mumbai Kings XI Punjab Mumbai		5	KC Sangakkara Yuvraj			8	0	0	0	0	1	0	1		
10	1	Kings XI Punjab Mumbai		6		singn DJB Jakkara DJB		8	0	0	θ	0	2	θ	2		
10	1	Kings XI Punjab Mumbai		1	KC Sangakkara DPMD J		DJ Bravo	8	0	0	0	0	0	4	0	4	
10	i	Kings XI Punjab Mumbai		2	KC Sangakkara DPMD J		DJ Bravo	0	0	0	0	0	0	Ö	0	8	
10	i	Kings XI Punjab Mumbai		3	KC Sangakkara DPMD Ja		DJ Bravo	0	ő	0	θ	0	ð	ð	θ	8	
10	î	Kings XI Punjab Mumbai		4	KC Sangakkara DPMD J		DJ Bravo	ě	ŏ	Ö	ő	ŏ	Ö	í	ő	1	
10	1	Kings XI Punjab Mumbai		5	DPMD Jayawardene	KC Sangakkar		0	0	0	Ö	0	0	2	8	2	
10	î	Kings XI Punjab Mumbai		6	DPMD Jayawardene	KC Sangakkar		ő	ŏ	0	ŏ	ŏ	ŏ	i	ě	i	
13	2	Deccan Chargers Mumbat		1	VVS Laxman AC Gilo			8	Ö	0	θ	0	i	0	1		
13	2	Deccan Chargers Mumbai		2	AC Gilchrist WS La			0	Ö	0	0	Ö		0	1		
13	2	Deccan Chargers Mumbai		3	VVS Laxman AC Gilo			0	Ö	0	0	0	4	0	4		
13		Deccan Chargers Mumbai		4	VVS Laxman AC Gilo				Ø	0	θ	θ	Ð				
13	2	Deccan Chargers Mumbal			VVS Laxman AC Gile	hrist DJ B	ravo 0	0	0	0	0	0		0	1		
13	2	Deccan Chargers Mumbai		6	AC Gilchrist VVS Lax	kman DJ B	ravo 0	θ	0	0	θ	0	6	θ	6		
44		secon energers hands	2.10.0113	٧	140 CCCIII CDC 140 CO		V V	V	V	٧	V	V	v	٧	٧		

571	1	Mumbai Indians Gujarat Lions	19	1		an Singh HH Par		DJ Bravo	θ	θ	θ	0	0	Ð	1	0	1		
574	2	Royal Challengers Bangalore		Lions				AB de Villie			0	0	0	0	0	0	1	0	
574	2	Royal Challengers Bangalore	Gujarat					Iqbal Abdulli			θ	0	0	θ	0	0	1	0	
574	2	Royal Challengers Bangalore	Gujarat					AB de Villie			0	0	0	θ	0	0		0	
574	2	Royal Challengers Bangalore	Gujarat					Iqbal Abdulli			0	0	0	0	0	0	4	0	4
574	2	Royal Challengers Bangalore	Gujarat					Iqbal Abdulla			Ð	0	0	θ	0	0	1	0	
574	2	Royal Challengers Bangalore	Gujarat					AB de Villie			0	0	0	0	0	0	0	0	0
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574	2	Royal Challengers Bangalore	Gujarat					AB de Villie			0	θ	0	0	0	0	0	0	0
574	2	Royal Challengers Bangalore	Gujarat					AB de Villie			Ø	0	0	Ð	0	0	1	0	
574	2	Royal Challengers Bangalore	Gujarat					Iqbal Abdulla			0	θ	0	0	0	0		0	
574	2	Royal Challengers Bangalore	Gujarat	Lions	14	5 Iqbal	Abdulla	AB de Villie	rs DJ Br	avo	0	0	0	0	0	0	0	0	0
574	2	Royal Challengers Bangalore	Gujarat	Lions	14	6 Iqbal	Abdulla	AB de Villie	rs DJ Br	avo	Ð	0	0	Ð	0	0	1	0	
574	2	Royal Challengers Bangalore	Gujarat	Lions	18	1 AB de	Villiers	Iqbal Abdulla	DJ Br	avo	0	0	0	4	0	0	0	4	4
74	2	Royal Challengers Bangalore	Gujarat	Lions	18	2 AB de	Villiers	Iqbal Abdulla	DJ Br	avo	θ	0	8	Ð	6	0	0	0	8
574	2	Royal Challengers Bangalore	Gujarat	Lions	18	3 AB de	Villiers	Iqbal Abdulla	DJ Br	avo	0	1	0	0	0	0	0	1	
574	2	Royal Challengers Bangalore	Gujarat					Igbal Abdulla			θ	0	0	θ	0	0	1	0	
574	2	Royal Challengers Bangalore	Gujarat					AB de Villie			0	0	0	0	0	0	4	0	4
574	2	Royal Challengers Bangalore	Gujarat					AB de Villie			0	0	0	0	0	0	4	0	4
574	2	Royal Challengers Bangalore	Gujarat					AB de Villie			Ð	0	8	θ	θ	0	4	0	4
76	2		at Lions			DA Warner	DJ Hooda			0	0	0	0	0	0	0	0	0	
76	2		at Lions	10		DA Warner	DJ Hooda			ð	Ð	6	0	0	0	1	Ð	1	
576	2		at Lions	10		DJ Hooda	DA Warne			ě	Ö	ē	Ô	ø	Ö	1	Ď	1	
576	2		at Lions	10		DA Warner	DJ Hooda			0	θ	0	0	Ø	0	0	Ö	0	
76	2		at Lions	10		DA Warner	DJ Hooda			Ô	0	0	Ô	0	Ó	i	0	1	
576	Ž		at Lions	10		DJ Hooda	DA Warne			Ö	Ø	0	Ö	0	0	1	0	i	
576	Ž			12		DJ Hooda	DA Warne			8	θ	Ö	0	Ð	Ø	0	Ø	0	DJ Hoo
bw 576	2	Sunrisers Hyderabad Gujar	at Lions	12	2	BCJ Cutting	DA Warne	r DJ Bi	rayo.	0	θ	0	θ	0	0	0	θ	0	
576	2		at Lions	12		BCJ Cutting	DA Warne			Ö	ő	0	Ö	0	0	4	0	4	
76	ž		at Lions	12		BCJ Cutting				0	Ö	0	0	0	0	2	0	2	
							DA Warne			ð	0			0	0	0		0	
76	2		at Lions	12		BCJ Cutting	DA Warne					0	0		0		0		
76	2		at Lions	12		BCJ Cutting	DA Warne			0	0	0		0		1	0	1	
76	2		at Lions	16		DA Warner	NV Ojha		θ	θ	0	0	0	θ	θ	0	θ		
76	2		at Lions	16		DA Warner	NV Ojha		0	0	0	0	0	0	0	0	0		
76	2		at Lions	16		DA Warner	NV Ojha		θ	0	θ	0	0	0	1	0	1		
76	2		at Lions	16		NV Ojha DA War		DJ Bravo	θ	0	0	0	0	0	0	0	0	00.040	
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576	2	Sunrisers Hyderabad Gujar	at Lions	16	6	Bipul Sharma	DA Warne	r DJ Bi	avo	0	0	0	0	0	0		0	1	
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576	2		at Lions	19		DA Warner	Bipul Sh			ŏ	ő	Ö	Ö	0	Ö	2	ŏ	2	
576	2		at Lions	19	3	DA Warner	Bipul Sh			ð	θ	0	Ö	Ö	6	2	Ö	,	
576	2		at Lions	19	4	DA Warner	Bipul Sh			Ö	ő	0	0	Ö	Å	4	0	4	
114				19	5	DA Warner	Bipul Sh			0	0	6	0	0	6	1	Ö	1	

Query to get info on the team Chennai Super Kings CODE:

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

17	2	Chennai				Indians		4	DJ Bravo	MS Dhoni		ajan Singh		0	0	0	θ	0	2	0	2	
		Chennai				Indians		5	DJ Bravo	MS Dhoni		ajan Singh		0	0	0	θ	θ	0	0	0	
		Chennal				Indians		6	DJ Bravo	MS Dhoni		ajan Singh		0	0	0	Ð	0		0	1	
17		Chennai				Indians		1	DJ Bravo	MS Dhoni		Clenaghan		Ð	0	0	Ð	0	6	θ	6	
7		Chennal				Indians		2	DJ Bravo	MS Dhon		Clenaghan		0	0	0	0	0	0	0	0	
17		Chennai	Super	Kings	Mumbai	Indians	15	3	DJ Bravo	MS Dhoni	MJ Mc	Clenaghan	0	θ	0	0	θ	θ	θ	θ	0	DJ Br
	LMP Sim																					
17 i		Chennat				Indians		4	MS Dhoni		MJ McClenagha		0	0	0	0	θ	0	0	0		
7		Chennai				Indians		5	MS Dhoni		MJ McClenagha		θ	θ	0	ð	θ	4	0	4		
		Chennal !				Indians		6	MS Dhont		MJ McClenagha	n 0	0	0	0	0	Ð	0	0	0		
1 :		Chennat				Indians		1	P Negi MS Dhon		SL Malinga	0	θ	Ð	0	θ	θ	1	θ	1		
		Chennat :			Mumbai	Indians	16	2	MS Dhont		SL Malinga	0	0	0	0	0	θ	Ó	0	6		
17	2	Chennat	Super	Kings	Mumbai	Indians	16	3	MS Dhont		SL Malinga	θ	0	0	0	θ	θ	1	0	1		
17	2	Chennai	Super	Kings	Mumbai	Indians	16	4	P Negi MS Dhon	į ·	SL Malinga	θ	0	0	0		θ	1		2		
17 1	2	Chennal	Super	Kings	Mumbai	Indians	16	5	MS Dhont	P Negt	SL Malinga	0	0	0	0	0	0	2	0	2		
17	2	Chennai	Super	Kings	Mumbai	Indians	16	6	MS Dhoni	P Negi	SL Malinga	θ	Ø	Ð	0	θ	Ð	θ	θ	Ø	MS Dho	oni
d																						
1	2	Chennai	Super	Kings		Indians		7	F du Plessis	P Negi	SL Malinga	θ	0	Ø	0	0	θ	1	θ	1		
1	2	Chennai :	Super	Kings	Mumbai	Indians	17	1	F du Plessis	P Negi	R Vinay Kumar	0	0	θ	0	θ	Ð	θ	θ	0		
1	2	Chennat	Super	Kings	Mumbai	Indians	17	2	F du Plessis	P Negi	R Vinay Kumar	0	0	0	0	0	0	0	0	0	F du F	lessis
it f	RG Sharr	na																				
	2	Chennat	Super	Kings	Mumbat	Indians	17	3	RA Jadeja	P Negt	R Vinay Kumar	0	0	0	0	0	θ	4	0	4		
1 :		Chennai			Mumbai	Indians	17	4	RA Jadeja		R Vinay Kumar		θ	Ð	0	0	θ	1	θ	1		
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1		Chennat				Indians		6	RA Jadeja		R Vinay Kumar		0	θ	0	0	θ	1	θ	1		
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7		Chennat				Indians		2	P Negl RA Jade		SL Malinga	0	1	0	0	0	θ	0	i	i		
7		Chennai				Indians		3	P Negi RA Jade		SL Malinga	θ	Ð	θ	0	Ø	θ	θ	0	0		
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7	,	Chennai	Super	Kinns	Mumbai	Indians	18	5	R Ashwin	RA Jade	a SI Ma	linga	0	0	0	0	8	0	1	0		
		Chennat				Indians		6	RA Jadeja	R Ashwir		linga	Ö	0	0	Ö	8	0	i	0		
		Chennai				Indians		7	R Ashwin	RA Jade			ð	0	0	ð	Ð	ð	i	Ů	i	
		Chennal :				Indians		1	R Ashwin	RA Jade		Clenaghan		0	0	0	Ð	0	Ô	0	Ô	
,		Chennai :				Indians		ž	R Ashwin	RA Jade		Clenaghan		0	0	ð	Ð	0	8	Ö	0	R As
	z J Suchi		Johei	reliya	mariuo t	Tuorona	**		N NAIINAII	W have	in unit	etenognon	Y	X	٧	Y	Y	٧	٧	y	18/	n na
yıı. 1 :		Chennat :	SUIDAR	Kinge	Mumbai	Indians	19	1	RA Jadeja	MM Sharr	ia NT Me	Clenaghan	A	A	0	0	θ	Ø	1	θ		
;						Indians		4	MM Sharma	RA Jade				0	0	0	ð	ð	i	0	1	
		Chennai :				Indians						Clenaghan					0					
		Chennal						5	RA Jadeja	MM Share		Clenaghan		0	0	0	0	0	1	0	1	
		Chennai !				Indians		6	MM Sharma	RA Jade		Clenaghan		Ð	0	0	0	θ	0	0	0	
		Chennal				Indians			RA Jadeja	MM Share		ay Kumar		0			0	0		0	1	
		Chennai				Indians		2	MM Sharma	RA Jade		ay Kumar		0	0	0	0	0	2	0	2	
		Chennai				Indians		3	MM Sharma	RA Jade		ay Kumar		0	0	θ	0	θ	6	0	6	
		Chennal				Indians		4	MM Sharma	RA Jade		ay Kumar		0	0	0	0	0	2	0	2	
		Chennai :				Indians		5	MM Sharma	RA Jade		ay Kumar		Ð	0	θ	θ	θ	6	0	6	
7	2	Chennat :		Kings tched: 1		Indians	20	6	MM Sharma	RA Jade	a RVin	ay Kumar	0	0	0	0	Ð	0	4	0	4	

203	į.	Chennai Super Kings	Pune Warriors	i	A	M Vijay MEK H	ussey AC Th	omas 0	Ø	Ð	0	Ø	ð	ð	0	θ	
203		Chennal Super Kings Chennal Super Kings	Pune Warrtors	4	5	M Vijay MEK H			0	0	0	0	0	2	0	2	
203		Chennal Super Kings Chennal Super Kings	Pune Warriors	7	6	M Vijay MEK H			A	A	A	8	Ö	1	A	1	
203		Chennal Super Kings		5	Ĭ	M Vijay MEK H			V	V A	V	V	Å	1	V		
203		Chennat Super Kings	Pune Warriors	5		MEK Hussey	ussey JE Ta M Vijay JE Ta	501000	Ä	A	A	0	Ö	i e	ų A	Å	
203		Chennal Super Kings	Pune Warriors	5	,	MEK Hussey	100 (000)	600.00	V A	A	Å.	0	V A	0	ů A	V A	
(17,000,000					,		M Vijay JE Ta	TO 100	0	Ų A	0 A	V	V A	,	0	,	
203		Chennal Super Kings		5	1	MEK Hussey	M Vijay JE Ta	M35.000 1000	0	Ü	0	0	0		0	7	
203		Chennai Super Kings	Pune Warriors	?)	MEK Hussey	M Vijay JE Ta			0	,	0	0	1	0	1	
203		Chennal Super Kings		5	6	M Vijay MEK H		TV 100	0	0	0		0	0	0	0	
203		Chennal Super Kings		6	1	MEK Hussey	M Vijay M Kar		V	0	0	0	V	V	0	V	
203		Chennai Super Kings	Pune Warriors	6	/	MEK Hussey	M Vijay M Kar		Ü	Ü		V	0	1	0	1	
203		Chennal Super Kings		6	3	M Vijay MEK H			0	0	0	V	U	1	0	1	
203		Chennai Super Kings	Pune Warriors	6	1	MEK Hussey	M Vijay M Kar		0	0	0	0	0	1	0	1	
203		Chennal Super Kings		6	5	MEK Hussey	M Vijay M Kar		0	0	0	0	0	4	0	4	
203		Chennai Super Kings		6	6	MEK Hussey	M Vijay M Kar		0	0	0	0	0	0	0	0	
203		Chennai Super Kings	Pune Warriors	1	1	M Vijay MEK H			0	0	0	0	0	1	0	- 1	
203		Chennal Super Kings	Pune Warriors	1	2	MEK Hussey	M Vijay R Sha		0	0	0	0	0	0	0	0	
203	1	Chennai Super Kings	Pune Warriors		3	MEK Hussey	M Vijay R Sha	rma 0	0	Ð	Ø	0	0	1	0	1	
203	1	Chennal Super Kings	Pune Warrtors	1	4	M Vljay MEK H	ussey R Sha	rma 0	0	0	0	0	0	0	0	0	
203	1	Chennai Super Kings	Pune Warriors	1	5	M Vijay MEK H	ussey R Sha	rma 0	0	θ	0	0	θ	θ	0	Ð	
203	1	Chennai Super Kings	Pune Warriors	1	6	M Vijay MEK H	ussey R Sha	rma 0	0	Ð	Ø	0	Ð	1	0	1	
203	1	Chennai Super Kings	Pune Warriors	8	1	M Vijay MEK H	ussey M Kar	tik 0	0	0	0	0	Ø	6	0	6	
203	1	Chennai Super Kings	Pune Warriors	8	2	M Vijay MEK H	ussey M Kar	tik 0	0	Ð	Ð	Ø	Ø	1	Ø	1	
203	1	Chennal Super Kings	Pune Warrtors	8	3	MEK Hussey	M Vijay M Kar	tik 0	0	0	0	0	0	0	0	0	
203	1	Chennai Super Kings	Pune Warriors	8	4	MEK Hussey	M Vijay M Kar	tik 0	0	θ	0	0	θ	1	0	1	
203	1	Chennal Super Kings	Pune Warrtors	8	5	M Vijay MEK H			0	0	0	0	0	1	0	1	
203	1	Chennai Super Kings	Pune Warriors	8	6	MEK Hussey	M Vijay M Kar	tik 0	0	0	0	0	0	1	0	1	
203		Chennai Super Kings	Pune Warriors	9	ĺ	MEK Hussey	M Vijay R Sha		0	Ð	Ø	0	Ø	θ	0	Ð	
203		Chennal Super Kings	Pune Warriors	9	2	MEK Hussey	M Vijay R Sha		0	0	0	0	0	2	0	2	
263		Chennai Super Kings	Pune Warriors	9	3	MEK Hussey	M Vijay R Sha		Ö	Ð	Ô	ð	Ö	1	Ø	ž	
203		Chennal Super Kings	Pune Warriors	9	4	MEK Hussey	M Vijay R Sha		Ö	Ď	Ď	Ö	ő	i	Ö	Õ	
203		Chennal Super Kings	Pune Warriors		5	MEK Hussey	M Vijay R Sha		0	Ð	0	0	Ö	ð	0	Ô	
203		Chennal Super Kings	Pune Warriors	ģ	6	MEK Hussey	M Vijay R Sha		ě	ě	ě	Ö	Ď	ì	Ö	i	
203		Chennal Super Kings	Pune Warriors		i	MEK Hussey	M Vijay AC Th		0	0	0	Ö	Ö	i	0		
203		Chennai Super Kings		10	į	M Vijay MEK H			Ů	ð	Ð	0	Ö	θ	Ð	Ď	M Vijay caught N
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203		Chennai Super Kings	Pune Warriors	18	3	SK Raina	MEK Hussey	AC Thomas	0	θ	θ	0	θ	θ	0	Ð	Ø
203		Chennal Super Kings	Pune Warrtors	10	4	SK Raina	MEK Hussey	AC Thomas	0	0	0	0	0	0	2	0	2
203		Chennal Super Kings Chennal Super Kings	Pune Warriors			SK Raina		AC Thomas	0	0	0	0	0	0	0	0	0
203		A CONTRACTOR OF THE STATE OF TH			5		MEK Hussey			0	Ů	0	0	θ	0	Ð	0 SK Raina
17770573		Chennai Super Kings	Pune Warriors	10	6	SK Raina	MEK Hussey	AC Thomas	0	U	0	0	9	V	U	V	0 3V Katila
owl		d	Augustines	ii.	1	WEN THE	ue phase	V	Ä		À	Ä	Ä	4		Ä	1
203		Chennai Super Kings	Pune Warriors			MEK Hussey	MS Dhoni	Yuvraj Singh	0	0	0	0	0	0	1	0	1
203		Chennal Super Kings	Pune Warriors		2	MS Dhont	MEK Hussey	Yuvraj Singh	0	0	0	0	0	0	0	0	0
203		Chennal Super Kings	Pune Warriors)	MS Dhoni	MEK Hussey	Yuvraj Singh	0	0	V	0	0	0	0	V	0
203		Chennai Super Kings		11	4	MS Dhoni	MEK Hussey	Yuvraj Singh	0	Ø	0	0	0	0	1	0	1
203		Chennal Super Kings		11	5	MEK Hussey	MS Dhoni	Yuvraj Singh	0	0	0	0	0	0	1	0	1
203		Chennai Super Kings	Pune Warriors		6	MS Dhoni	MEK Hussey	Yuvraj Singh	Ø	0	0	Ø	0	0	θ	0	Ů,
203		Chennal Super Kinos	Pune Warriors	12		MEK Hussev	MS Dhont	M Kartik	0	0	0	0	0	0	Į.	0	1.

Query to get info on non striker batsman

CODE:

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

5 2 Kolkata Knight Riders Deccan Chargers 1 1 MP Saha 88 McCullum MPDC Vaas 0 <th></th>	
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64 2 Kolkata Knight Riders Kings XI Punjab 1 5 CH Gayle 88 McCollun IX Pathan 0 <td></td>	
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Kolkata Knight Riders Kings XI Punjab 2 1 CH Gayle 88 McCullum YA Abbulla 0 0 0 0 0 0 0 0 0	
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4 2 Kolkata Knight Riders Kings XI Punjab 3 3 CH Gayle 8B McCullun IK Pathan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6
4 2 Kolkata Knight Riders Kings XI Punjab 3 4 CH Gayle 8B McCullum IK Patham 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8
4 2 KOLKATA KNIGHT RIGERS KINGS XI PUNJAD 3 5 CH GAYLE 8B MCCULLUM IK PATHAN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
4 2 Kolkata Knight Riders Kings XI Punjab 3 6 CH Gayle 88 McCullum IK Pathan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6
2 Kolkata Knight Riders Kings XI Punjab 4 3 CH Gayle BB McCullum YA Abdulla 0 0 0 0 0 0 0 0 0	A
2 Kolkata Knight Riders Kings XI Punjab 4 CH Gayle BB McCullum YA Abdulla 0 0 0 0 0 0 0 0 0	6
2 Kolkata Knight Riders Kings XI Punjab 5 CH Gayle BB McCullum IK Pathan 0 0 0 0 0 0 0 0 0	1
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4 2 Kolkata Knight Riders Kings XI Punjab 5 4 CH Gayle BB McCullum IK Pathan 0 0 0 0 0 0 0 1 0 4 2 Kolkata Knight Riders Kings XI Punjab 5 6 CH Gayle BB McCullum IK Pathan 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
4 2 Kolkata Knight Riders Kings XI Punjab 5 6 CH Gayle BB McCullum IX Pathan 0 1 0 0 0 0 0 0 1 4 2 Kolkata Knight Riders Kings XI Punjab 5 7 CH Gayle BB McCullum IX Pathan 0 0 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 1 CH Gayle BB McCullum YX Pathan 0 0 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 2 CH Gayle BB McCullum YX Pathan 0 0 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 3 CH Gayle BB McCullum YX Pathan 0 1 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 3 CH Gayle BB McCullum YX Pathan 0 1 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 4 CH Gayle BB McCullum YX Pathan 0 0 0 0 0 0 2 7 2 Kolkata Knight Riders Rajasthan Royals 1 5 CH Gayle BB McCullum YX Pathan 0 0 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 5 CH Gayle BB McCullum YX Pathan 0 0 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 7 CH Gayle BB McCullum YX Pathan 0 0 0 0 0 0 0 0 0	,
2 Kolkata Knight Riders Kings XI Punjab 5 7 CH Gayle BB McCullum IK Pathan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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7 2 Kolkata Knight Riders Rajasthan Royals 1 4 CH Gayle BB McCullum YK Pathan 0 0 0 0 0 2 7 2 Kolkata Knight Riders Rajasthan Royals 1 5 CH Gayle BB McCullum YK Pathan 0 0 0 0 0 0 0 7 2 Kolkata Knight Riders Rajasthan Royals 1 6 CH Gayle BB McCullum YK Pathan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1
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7 2 Kolkata Knight Riders Rajasthan Royals 2 5 CH Gayle BB McCullum AD Mascarenhas 0 0 0 0 0 0	8 8

Query to get info on Virat Kohli

CODE:

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

```
hive> SELECT*FROM matches WHERE player of match='V Kohli';
OK
                                                   Royal Challengers Bangalore Royal Challengers Bangalore field normal 6 Royal Challengers Bangalore
     2011 Delhi 2011-04-26 Delhi Daredevils
ohli Feroz Shah Kotla
                         S Asnant
                                      RJ Tucker
                         2011-04-29 Royal Challengers Bangalore Pune Warriors Pune Warriors field normal 0 Royal Challengers Bangalore 26 0 V Kohli M Chinnaswa
     2011 Bangalore
             Aleem Dar
                         SS Hazare
                         2013-04-16 Delhi Daredevils
                                                         Royal Challengers Bangalore Royal Challengers Bangalore field tie 0 Royal Challengers Bangalore 0
     2013 Bangalore
Kohli M Chinnaswamy Stadium M Erasmus
                                      VA Kulkarni
                                      Sunrisers Hyderabad Royal Challengers Bangalore Sunrisers Hyderabad bat normal 0
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     2013 Bangalore
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ohli M Chinnaswamy Stadium S Ravi SJA Taufel
                         2013-05-18 Royal Challengers Bangalore Chennai Super Kings Chennai Super Kings field normal 0
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     2013 Bangalore
ohli M Chinnaswamy Stadium C Shamshuddin RJ Tucker
                         2015-05-15 Sunrisers Hyderabad Royal Challengers Bangalore Sunrisers Hyderabad bat normal 1
                                                                                                                          Royal Challengers Bangalore 0
509 2015 Hyderabad
                                      Uppal" AK Chaudhary HDPK Dharmasena
ohli "Rajiv Gandhi International Stadium
     2016 Rajkot 2016-04-24 Royal Challengers Bangalore Gujarat Lions Royal Challengers Bangalore bat normal 0 Gujarat Lions 0 6 V Kohli Saurashtra Cricket
Association Stadium K Bharatan BNJ Oxenford
                                      Rising Pune Supergiants Royal Challengers Bangalore Royal Challengers Bangalore field normal 0 Royal Challengers Bangalore 0
552 2016 Bangalore
                         2016-05-07
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565 2016 Kolkata 2016-05-16 Kolkata Knight Riders Royal Challengers Bangalore Royal Challengers Bangalore field normal 0
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ohli Eden Gardens CB Gaffaney A Nand Kishore
                                      Royal Challengers Bangalore Kings XI Punjab Kings XI Punjab field normal 1
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567 2016 Bangalore
                         2016-05-18
            KN Ananthapadmanabhan M Erasmus
                                                   Royal Challengers Bangalore Royal Challengers Bangalore field normal 0
573 2016 Raipur 2016-05-22 Delhi Daredevils
                                                                                                                          Royal Challengers Bangalore 0
ohli Shaheed Veer Narayan Singh International Stadium A Nand Kishore BNJ Oxenford
Time taken: 0.242 seconds, Fetched: 11 row(s)
hive>
```

ORDER BY CLAUSE:

CODE:

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

			V													
OK		Revel Challenger Bassalers	Visco VI Burdah 7	ç	tr wahli	cu caula ye carl										
567		Royal Challengers Bangalore		5		CH Gayle KC Carl		0	8	0		0	6		7	
509		Royal Challengers Bangalore		4	6	V Kohli Mandeep Singh		θ		0	0	0	θ	6	0	
503		Royal Challengers Bangalore				AB de Villiers JJ Bumr		0	0	0	0	0	6	0	6	
122		Royal Challengers Bangalore		2		JH Kallis RS Bopa		0			0	0		0		
155		Royal Challengers Bangalore		1		JH Kallis MR Mars		0	0	0	0	0	6	0	6	
261		Royal Challengers Bangalore		18		V Kohli SS Tiwary	JA Morkel	0	8	0	0	8	θ		0	6
329		Royal Challengers Bangalore		13		V Kohli MC Henriques	I Sharma	0	0	0	0	0	θ	6	0	
495		Royal Challengers Bangalore		12		V Kohli KD Karthik	P Negt 0	0	0		0			8		
63		Royal Challengers Bangalore		11		V Kohli R Dravid	Joginder Sharma		0	0	8		0		0	6
488		Royal Challengers Bangalore		14		V Kohli Yuvraj Singh	JDS Neesham	0	8	0		0	0	6	8	
561		Royal Challengers Bangalore		5		AB de Villiers S Kaush		8	0	0		0		0		
488		Royal Challengers Bangalore		15		V Kohli Yuvraj Singh	R Sharma	8	0	8	8	0	θ		8	
400		Royal Challengers Bangalore		15	2	V Kohli Yuvraj Singh	R Sharma	0			0	0	θ		8	
370		Royal Challengers Bangalore		2		CH Gayle P Awana		0	8	8	0	6	0			
521		Royal Challengers Bangalore		13	5	V Kohli AB de Villiers		8	8	0	8	8	θ	6	0	
155		Royal Challengers Bangalore	TATALON MATERIAL AND THE PARTY OF THE PARTY	5		JH Kallis A Symon		8	0	0	8	0	6	8	6	
466		Royal Challengers Bangalore		5	1 u vahli	V Kohli CH Gayle	TA Boult	0	0	0	0	8	θ	6	0	
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521		Royal Challengers Bangalore		9	3	V Kohli AB de Villiers		0	0	8	8	8	8		8	
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291		Royal Challengers Bangalore		5		CH Gayle PP Chav		8	0	0	8	8		8		
291		Royal Challengers Bangalore		1		CH Gayle AM Naya		8	8	8	8	8	6	8	6	
313		Royal Challengers Bangalore		19		V Kohli CH Gayle	UT Yadav	8	8	8	8	8	8		8	6
199		Royal Challengers Bangalore		15	6	V Kohli CH Gayle	L Balaji	8	8	8	8	8	θ	6	8	
167		Royal Challengers Bangalore		2		LRPL Taylor CRD Fer		0	0	0	0	0	6	8		
52		Royal Challengers Bangalore	TO SECURE A SECURE ASSESSMENT AND A SECURE ASSESSMENT A	4		W Jaffer SB Bang		0	0	8	8	8		8		
52		Royal Challengers Bangalore		1		JH Kallis PP Ojha		8	8	8	8	6	0			
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552		Royal Challengers Bangalore	Rising Pune Supergiants		2	V Kohli TM Head A Zampa		0	0	8	8	6	θ	6		
129		Royal Challengers Bangalore		2			jan Singh 0	8	0	8	8	8	6	8	6	
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373		Royal Challengers Bangalore		9	4	V Kohli AB de Villiers		0	0	0	0	8	θ	6	0	6
333		Royal Challengers Bangalore		9	3	V Kohli CH Gayle	PJ Sangwan	0	8	8	8	8	8	6	8	6
333		Royal Challengers Bangalore	Kolkata Knight Riders		4	V Kohli CH Gayle	PJ Sangwan	0	0	0	0	8	0	6	0	6
129 567	2	Royal Challengers Bangalore		3			jan Singh 0	8	8	8	8	8	6	8	6	
		Royal Challengers Bangalore		1		CH Gayle KC Cari		0	0	8	0	8	6	8	6	7
373		Royal Challengers Bangalore		12	3	V Kohli AB de Villiers		0	0	0	0		0	6	0	6
112		Royal Challengers Bangalore		6		MK Pandey RP Sing		0	0	0	0	0	6	0	6	
75		Royal Challengers Bangalore	Kolkata Knight Riders		3	V Kohli KP Pietersen	BJ Hodge	0	0	0	0	0	0	6	8	6
301		Royal Challengers Bangalore		5		CH Gayle KA Poll		0	0	0	0	0	6	8	6	
245		Royal Challengers Bangalore		19	4	V Kohli SS Tiwary	JA Morkel	0	0	0	0	0	0	6	0	6
533		Royal Challengers Bangalore	Rising Pune Supergiants		1	V Kohli KL Rahul	I Sharma	0	0	0	0	0	0	6	0	6
567		Royal Challengers Bangalore		4		CH Gayle KC Cari		0	0	0	0	8	6	8	6	
567	1	Royal Challengers Bangalore		5		CH Gayle KC Cari		0	0	0	0	0	6	0	6	
567	1	Royal Challengers Bangalore		6		CH Gayle KC Cari		0	0	0	0	8	6	8	6	
289	1	Royal Challengers Bangalore	Pune Warriors 18	3	V Kohli	SS Tiwary IF Tayl	or A	Ħ	A	A	Ð	B	6	А	6	

		hallengers Bangalore		3	V Kohli	J Arunkumar	S Sreesanth	0	0	0	0	0	0	0	0	0		
15		hallengers Bangalore	Kings XI Punjab 1	2	V Kohli	J Arunkumar	S Sreesanth	0	0	0	0	0	0	0	0	0		
		hallengers Bangalore	Mumbai Indians 13		V Kohli	R Dravid	A Nehra 0	0	0	0	0	0	0	0	0	V Kohl	i caught	W
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15		hallengers Bangalore	Kings XI Punjab 13		V Kohll	R Dravid	IK Pathan	0	0	0	0	0	0	0	0	0	V Kohll	Ci
ht	S Sreesanth																	
25		hallengers Bangalore			V Kohli	R Dravld	S Sreesanth	0	0	0	0	0	0	0	0	0		
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25		hallengers Bangalore			V Kohli	R Dravid	Cagandeep S	ingh 0	0	0	0	0	0	0	0	0		
25	1 Royal C	hallengers Bangalore	Kings XI Punjab 7	2	V Kohll	R Dravtd	VRV Stngh	0	0	0	0	0	0	0	0	0		
25	1 Royal C	hallengers Bangalore	Kings XI Punjab 4	6	V Kohli	R Dravtd	IK Pathan	0	0	0	0	0	0	0	0	0		
5		hallengers Bangalore		5		R Dravtd	IK Pathan	0	0	0	0	0	0	0	0	0		
		hallengers Bangalore		4		R Dravld	IK Pathan	0	0	0	0	0	0	Ö	0	0		
		hallengers Bangalore		3		JH Kallts	IK Pathan	0	0	Ô	0	0	0	0	0	0	JH Kalli	S
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5	1 Royal C	hallengers Bangalore	Kings XI Punjab 4	2	V Kohli	JH Kallis	IK Pathan	0	0	0	0	0	0	0	0	0		
5		hallengers Bangalore		2		JH Kallis	S Sreesanth	0	0	0	0	0	0	0	0	0		
		hallengers Bangalore		1		JH Kallts	S Sreesanth	0	0	0	0	0	0	0	0	0		
5	1 Royal C	hallengers Bangalore		6	V Kohlt	JH Kallts	IK Pathan	0	0	0	0	0	0	0	0	0		
		hallengers Bangalore		4		JH Kallis	IK Pathan	0	0	0	0	0	0	0	Ø	0		
	1 Royal C	hallengers Bangalore	Kings XI Punjab 2			JH Kallts	IK Pathan	Ö	0	Ö	Ö	Ö	Ö	0	0	Ö		
		hallengers Bangalore		i		JH Kallis	IK Pathan	Ö	Ö	Ö	Ö	ě	ě	Ď	Ö	Ď		
		hallengers Bangalore		2		CL White	WPUJC Vaas	ŏ	0	ő	Ů	ő	Ŏ	ő	0	Ö	V Kohlt	,
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		hallengers Bangalore	Chennal Super Kings	18	2	V Kohli P Kuma	c 14 Markel	0	θ	θ	0	θ	θ	0	0	0	V Kohli	
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	caught M Rawat																	
		hallengers Bangalore	Rajasthan Royals	10	3	V Kohli MV Bou	cher MM I	atel	0	θ	Ø	Ð	0	θ	θ	0	0	
		hallengers Bangalore			ì	V Kohli MV Bou		atel	0	e	0	0	0	8	8	0	8	
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	1 Royal C	hallengers Bangalore		,	5	V Kohli LRPL T		rivedi	8	8	0	0	0	0	8	0	0	
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ncht	z kuyat t	maccenyers danyacore	nunual Inulans 14	1	* KUILL	NI VOLLES	H INCIII O U	٧	٧	٧	٧	٧	٧	٧	٧	A VOIL	ic cought	١
	Z Roval C	hallengers Bangalore	Mumbai Indians 14	3	V Vahili	JH Kallis	A Nehra 0	0	0	0	Ð	ð	ð	8	0			
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		hallengers Bangalore	Mumbai Indians 13			JH Kallis	AM Nayar	0	θ	θ	θ	θ	θ	θ	θ	θ		
		hallengers Bangalore	Mumbai Indians 11			JH Kallis	Harbhajan S		0	0	0	0	0	0	8	8		
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	bowled																	
		hallengers Bangalore				V Kohli W Jaff)inda	8	θ	θ	θ	θ	θ	θ	θ	θ	
		hallengers Bangalore	Kolkata Knight Riders			V Kohli W Jaff	er I Si	narma	0	0	θ	θ	θ	0	0	0	0	
4	on: 78 618 corn	nds, Fetched: 3237 ru	nw(s)															

Query to get count of a team

CODE:

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

```
hive> SELECT COUNT( 'Chennal Super Kings' ) FROM matches ;
Query ID = hdoop_20221619224907_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 htve.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:8888/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
Time taken: 23.093 seconds, Fetched: 1 row(s)
```

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';

```
hive> SELECT COUNT( 'Chennai Super Kings' ) FROM matches WHERE team1='Chennai Super Kings' AND team2='Mumbai Indiams';
Query ID = hdoop 20221019225036 cdb21c6a-2f15-434e-bf00-a5906b7f40b8
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 hlve.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 6020, Tracking URL = http://navin-virtualbox:8008/proxy/application 1666017721580 6020/
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 22:51:64,288 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
Time taken: 28.965 seconds, Fetched: 1 row(s)
```

```
hive> SELECT COUNT( 'Royal Challengers Bangalore' ) FROM matches WHERE teams='Kolkata Knight Riders' AMO team2='Royal Challengers Bangalore';
     Query ID = hdoop_26221019230239_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 6024, 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 23:02:50,886 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 1666017721586 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
15
Time taken: 32.157 seconds, Fetched: 1 row(s)
```