

Databases

Table 1 – IPL (193468 Rows) (Ball by Ball)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	id	inning	over	ball	batsman	non_strike	bowler	batsman_r	extra_runs	total_runs	non_boun	is_wicket	dismissal	player_dis	fielder	extras_typ	batting_te	bowling_team		
2	335982	1	6	5	RT Ponting	BB McCull	AA Noffke	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
3	335982	1	6	6	BB McCull	RT Ponting	AA Noffke	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
4	335982	1	7	1	BB McCull	RT Ponting	Z Khan	0	0	0	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
5	335982	1	7	2	BB McCull	RT Ponting	Z Khan	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
6	335982	1	7	3	RT Ponting	BB McCull	Z Khan	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
7	335982	1	7	4	BB McCull	RT Ponting	Z Khan	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
8	335982	1	7	5	RT Ponting	BB McCull	Z Khan	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
9	335982	1	7	6	BB McCull	RT Ponting	Z Khan	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
10	335982	1	8	1	BB McCull	RT Ponting	JH Kallis	0	0	0	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
11	335982	1	8	2	BB McCull	RT Ponting	JH Kallis	0	0	0	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
12	335982	1	8	3	BB McCull	RT Ponting	JH Kallis	0	0	0	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
13	335982	1	8	4	BB McCull	RT Ponting	JH Kallis	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
14	335982	1	8	5	RT Ponting	BB McCull	JH Kallis	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
15	335982	1	8	6	BB McCull	RT Ponting	JH Kallis	2	0	2	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
16	335982	1	9	1	RT Ponting	BB McCull	SB Joshi	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	
17	335982	1	9	2	BB McCull	RT Ponting	SB Joshi	1	0	1	0	0	NA	NA	NA	NA	Kolkata Kn	Royal Challengers	Bangalore	

Table 2 – Matches (816 Rows)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	id	city	date	player_of	venue	neutral_ve	team1	team2	toss_winn	toss_decis	winner	result	result_ma	eliminator	method	umpire1	umpire2	
2	335982	Bangalore	18-04-2008	BB McCull	M Chinnas	0	Royal Chal	Kolkata Kn	Royal Chal	field	Kolkata Kn	runs	140	N	NA	Asad Rauf	RE Koertzen	
3	335983	Chandigarh	19-04-2008	MEK Huss	Punjab Cri	0	Kings XI Pu	Chennai Sl	Chennai Sl	bat	Chennai Sl	runs	33	N	NA	MR Benson	SL Shastri	
4	335984	Delhi	19-04-2008	MF Mahar	Feroz Sha	0	Delhi Dare	Rajasthan	Rajasthan	bat	Delhi Dare	wickets	9	N	NA	Aleem Dar	GA Pratapkumar	
5	335985	Mumbai	20-04-2008	MV Bouch	Wankhede	0	Mumbai In	Royal Chal	Mumbai In	bat	Royal Chal	wickets	5	N	NA	SJ Davis	DJ Harper	
6	335986	Kolkata	20-04-2008	DJ Hussey	Eden Gard	0	Kolkata Kn	Deccan Ch	Deccan Ch	bat	Kolkata Kn	wickets	5	N	NA	BF Bowde	K Hariharan	
7	335987	Jaipur	21-04-2008	SR Watsor	Sawai Mar	0	Rajasthan	Kings XI Pu	Kings XI Pu	bat	Rajasthan	wickets	6	N	NA	Aleem Dar	RB Tiffin	
8	335988	Hyderabad	22-04-2008	V Sehwag	Rajiv Gand	0	Deccan Ch	Delhi Dare	Deccan Ch	bat	Delhi Dare	wickets	9	N	NA	IL Howell	AM Saheba	
9	335989	Chennai	23-04-2008	ML Hayde	MA Chidar	0	Chennai Sl	Mumbai In	Mumbai In	field	Chennai Sl	runs	6	N	NA	DJ Harper	GA Pratapkumar	
10	335990	Hyderabad	24-04-2008	YK Pathan	Rajiv Gand	0	Deccan Ch	Rajasthan	Rajasthan	field	Rajasthan	wickets	3	N	NA	Asad Rauf	MR Benson	
11	335991	Chandigarh	25-04-2008	KC Sangak	Punjab Cri	0	Kings XI Pu	Mumbai In	Mumbai In	field	Kings XI Pu	runs	66	N	NA	Aleem Dar	AM Saheba	
12	335992	Bangalore	26-04-2008	SR Watsor	M Chinnas	0	Royal Chal	Rajasthan	Rajasthan	field	Rajasthan	wickets	7	N	NA	MR Benson	IL Howell	
13	335993	Chennai	26-04-2008	JDP Oram	MA Chidar	0	Chennai Sl	Kolkata Kn	Kolkata Kn	bat	Chennai Sl	wickets	9	N	NA	BF Bowde	AV Jayaprakash	
14	335994	Mumbai	27-04-2008	AC Gilchris	Dr DY Patil	0	Mumbai In	Deccan Ch	Deccan Ch	field	Deccan Ch	wickets	10	N	NA	Asad Rauf	SL Shastri	

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2  /*Batsman Analysis Seasonwise*/
3  • with cte1 as (select year(date) as season, count(id) as totalmatches from matches group by season),
4
5  cte2 as (SELECT
6      year(date) as season, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
7      sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
8      sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
9      sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
10     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
11     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
12     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
13     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
14     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
15     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
16     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
17     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes
18
19     FROM
20         matches m cross join ipl i on m.id=i.id
21         group by season, batsman
22     )
23
24 select
25     cte1.season, cte2.batsman, cte2.bat as total_runs, cte2.wik as got_out,
26     cte2.fours,
27     cte2.sixes,
28     cte2.Caught,cte2.run_out, cte2.bowled, cte2.lbw, cte2.retired_hurt, cte2.Stumped, cte2.Caught_and_bowled
29 from cte1 join cte2 on cte1.season = cte2.season
30 order by season, total_runs desc
31 ;
32
33 • use ipl;
34
35 /*Simplified Player Analysis Seasonwise*/
36 • select
37     season, batsman,batting_team as team, matches, bat as total_runs,balls,
38     ((bat*100)/balls) as strike_rate,
39     ((bat)/matches) as average_runs,
40     wik as got_out,
41     fours,
42     sixes,
43     (matches-wik) as not_out,
44     Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
45 from
46
47 (SELECT
48     year(date) as season,batting_team, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
49     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
50     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
51     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
52     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
53     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
54     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
55     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
56     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
57     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
58     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
59     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
60     sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
61     count(distinct m.id) as matches
62
63     FROM
64         matches m cross join ipl i on m.id=i.id
65         group by season, batsman, batting_team)q1
66     order by season, total_runs desc
67 ;
68
69
70 /* Powerplay Simplified Player Analysis Seasonwise*/
71 • select
72     season, batsman,matches, bat as total_runs,balls,
73     ((bat*100)/balls) as strike_rate,
74     ((bat)/matches) as average_runs,
75     wik as got_out,
76     fours,
77     sixes,
78     Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
79 from
80
81 (SELECT
82     year(date) as season, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
83     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
84     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,

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85     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
86     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
87     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
88     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
89     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
90     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
91     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
92     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
93     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
94     sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
95     count(distinct m.id) as matches
96
97 FROM
98     matches m cross join ipl i on m.id=i.id
99     where i.over between 0 and 5
100     group by season, batsman
101     )q1
102     order by season, total_runs desc
103 ;
104
105 /* Middle Overs Simplified Player Analysis Seasonwise*/
106 • select
107     season, batsman, matches, bat as total_runs, balls,
108     ((bat*100)/balls) as strike_rate,
109     ((bat)/matches) as average_runs,
110     wik as got_out,
111     fours,
112     sixes,
113     Caught, run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
114 from
115
116 (SELECT
117     year(date) as season, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
118     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
119     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
120     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
121     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
122     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
123     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
124     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
125     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
126     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
127     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
128     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
129     sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
130     count(distinct m.id) as matches
131
132 FROM
133     matches m cross join ipl i on m.id=i.id
134     where i.over between 6 and 15
135     group by season, batsman
136     )q1
137     order by season, total_runs desc
138 ;
139
140 /* Death Overs Simplified Player Analysis Seasonwise*/
141 • select
142     season, batsman, matches, bat as total_runs, balls,
143     ((bat*100)/balls) as strike_rate,
144     ((bat)/matches) as average_runs,
145     wik as got_out,
146     fours,
147     sixes,
148     Caught, run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
149 from
150
151 (SELECT
152     year(date) as season, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
153     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
154     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
155     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
156     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
157     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
158     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
159     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
160     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
161     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
162     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
163     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
164     sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
165     count(distinct m.id) as matches
166
167 FROM
168     matches m cross join ipl i on m.id=i.id

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169         where i.over between 16 and 19
170         group by season, batsman
171         )q1
172         order by season, total_runs desc
173     ;
174
175     use ipl;
176     select distinct extras_type from ipl;
177
178     Select
179     *,
180     year(date)
181     from ipl i cross join matches m on i.id=m.id
182     group by year(date), batsman, bowler
183     ;
184
185     use ipl;
186
187     /* Batsman Stats opponent wise */
188     select
189     season, batsman, bowling_team as opponent, matches, bat as total_runs,balls,
190     ((bat*100)/balls) as strike_rate,
191     ((bat)/matches) as average_runs,
192     wik as got_out,
193     fours,
194     sixes,
195     Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
196     from
197
198     (SELECT
199     year(date) as season, bowling_team, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
200     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
201     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
202     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
203     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
204     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
205     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
206     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
207     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
208     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
209     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
210     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
211     sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
212     count(distinct m.id) as matches
213
214     FROM
215     matches m cross join ipl i on m.id=i.id
216     where (i.over between 0 and 19)
217     group by season, batsman, bowling_team
218     )q1
219     order by season, total_runs desc
220     ;
221
222     /* Batsman Stats bowler wise */
223     Select * from (Select *,
224     row_number() over(partition by batsman order by total_runs desc) as ro
225     from
226
227     (select
228     batsman, bowler, matches, bat as total_runs,balls,
229     ((bat*100)/balls) as strike_rate,
230     ((bat)/matches) as average_runs,
231     wik as got_out,
232     fours,
233     sixes,
234     Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
235     from
236
237     (SELECT
238     bowler, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
239     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
240     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
241     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
242     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
243     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
244     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
245     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
246     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
247     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
248     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
249     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
250     sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
251     count(distinct m.id) as matches
252
253     FROM
254     matches m cross join ipl i on m.id=i.id
255     where (i.over between 0 and 19)
256     group by batsman, bowler
257     )q1
258     order by batsman, got_out desc)ex1)ex2
259     where ro <=10
260
261     ;

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1  /*Bowler Analysis Seasonwise*/
2  • select
3  season, bowler,matches,
4  wik-run_out as wickets, bat as total_runs,balls,
5  (balls/(wik-run_out)) as strike_rate,
6  ((bat)/(wik-run_out)) as average,
7  (bat/(balls/6)) as economy,
8  fours,
9  sixes,
10 Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
11 from
12
13 (SELECT
14     year(date) as season, bowler,
15     sum(case when extras_type = 'byes' or extras_type = 'legbyes' then null else i.batsman_runs + i.extra_runs end) AS bat,
16     sum(is_wicket) as wik,
17     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
18     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
19     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
20     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
21     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
22     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
23     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
24     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
25     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
26     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
27     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
28     sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
29     count(distinct m.id) as matches
30
31 FROM
32     matches m cross join ipl i on m.id=i.id
33     group by season, bowler)q1
34     order by season, wickets desc
35 ;
36
37 • select distinct extras_type from ipl;
38 /*Check*/
39 • Select
40 sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls
41 from ipl i cross join matches m on i.id=m.id
42 where bowler = 'A Mishra' and year(date) = '2012'
43 ;
44
45 /*Powerplay Bowler Analysis Seasonwise*/
46 • select
47 season, bowler,matches,
48 wik-run_out as wickets,
49 bat as total_runs,balls,
50 (balls/(wik-run_out)) as strike_rate,
51 ((bat)/(wik-run_out)) as average,
52 (bat/(balls/6)) as economy,
53 fours,
54 sixes,
55 Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
56 from
57
58 (SELECT
59     year(date) as season, bowler,
60     sum(case when extras_type = 'byes' or extras_type = 'legbyes' then null else i.batsman_runs + i.extra_runs end) AS bat,
61     sum(is_wicket) as wik,
62     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
63     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
64     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
65     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
66     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
67     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
68     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
69     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
70     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
71     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
72     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
73     sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
74     count(distinct m.id) as matches
75
76 FROM
77     matches m cross join ipl i on m.id=i.id
78     where i.over between 0 and 5
79     group by season, bowler)q1
80     order by season, wickets desc
81 ;

```

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83  /*Middle Overs Bowler Analysis Seasonwise*/
84  • select
85  season, bowler,matches,
86  wik-run_out as wickets,
87  bat as total_runs,balls,
88  (balls/(wik-run_out)) as strike_rate,
89  ((bat)/(wik-run_out)) as average,
90  (bat/(balls/6)) as economy,
91  fours,
92  sixes,
93  Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
94  from
95
96  (SELECT
97  year(date) as season, bowler,
98  sum(case when extras_type = 'byes' or extras_type = 'legbyes' then null else i.batsman_runs + i.extra_runs end) AS bat,
99  sum(is_wicket) as wik,
100  sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
101  sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
102  sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
103  sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
104  sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
105  sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
106  sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
107  sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
108  sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
109  sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
110  sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
111  sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
112  count(distinct m.id) as matches
113
114  FROM
115  matches m cross join ipl i on m.id=i.id
116  where i.over between 6 and 15
117  group by season, bowler)q1
118  order by season, wickets desc
119  ;
120
121  /*Death Overs Bowler Analysis Seasonwise*/
122  • select
123  season, bowler,matches,
124  wik-run_out as wickets,
125  bat as total_runs,balls,
126  (balls/(wik-run_out)) as strike_rate,
127  ((bat)/(wik-run_out)) as average,
128  (bat/(balls/6)) as economy,
129  fours,
130  sixes,
131  Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
132  from
133
134  (SELECT
135  year(date) as season, bowler,
136  sum(case when extras_type = 'byes' or extras_type = 'legbyes' then null else i.batsman_runs + i.extra_runs end) AS bat,
137  sum(is_wicket) as wik,
138  sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
139  sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
140  sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
141  sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
142  sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
143  sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
144  sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
145  sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
146  sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
147  sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
148  sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
149  sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
150  count(distinct m.id) as matches
151
152  FROM
153  matches m cross join ipl i on m.id=i.id
154  where i.over between 16 and 19
155  group by season, bowler)q1
156  order by season, wickets desc
157  ;

```

```

160 /*Bowler Analysis Most wickets against particular batsman*/
161 select * from (select
162     *,
163     row_number() over(partition by bowler order by wickets desc) as ra
164 from
165 (select
166     bowler, batsman, matches,
167     wik-run_out as wickets, bat as total_runs,balls,
168     (balls/(wik-run_out)) as strike_rate,
169     ((bat)/(wik-run_out)) as average,
170     (bat/(balls/6)) as economy,
171     fours,
172     sixes,
173     Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
174 from
175
176 (SELECT
177     bowler,batsman,
178     sum(case when extras_type = 'byes' or extras_type = 'legbyes' then null else i.batsman_runs + i.extra_runs end) AS bat,
179     sum(is_wicket) as wik,
180     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
181     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
182     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
183     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
184     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
185     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
186     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
187     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
188     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
189     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
190     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
191     sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
192     count(distinct m.id) as matches
193
194 FROM
195     matches m cross join ipl i on m.id=i.id
196     group by bowler, batsman)q1
197     order by bowler, wickets desc)ex1)ex2
198     where ra <= 10
199 ;
200 /*Bowler Analysis Most runs against particular batsman*/
201 select * from (select
202     *,
203     row_number() over(partition by bowler order by total_runs desc) as ra
204 from
205 (select
206     bowler, batsman, matches,
207     wik-run_out as wickets, bat as total_runs,balls,
208     (balls/(wik-run_out)) as strike_rate,
209     ((bat)/(wik-run_out)) as average,
210     (bat/(balls/6)) as economy,
211     fours,
212     sixes,
213     Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
214 from
215
216 (SELECT
217     bowler,batsman,
218     sum(case when extras_type = 'byes' or extras_type = 'legbyes' then null else i.batsman_runs + i.extra_runs end) AS bat,
219     sum(is_wicket) as wik,
220     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
221     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
222     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
223     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
224     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
225     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
226     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
227     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
228     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
229
230     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
231     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
232     sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
233     count(distinct m.id) as matches
234
235 FROM
236     matches m cross join ipl i on m.id=i.id
237     group by bowler, batsman)q1
238     order by bowler, wickets desc)ex1)ex2
239     where ra <= 10
240 ;

```



```

246 /*Bowler Analysis Seasonwise against particular opponent*/
247 • select
248 season, bowler,
249 batting_team,
250 matches,
251 wik-run_out as wickets, bat as total_runs,balls,
252 (balls/(wik-run_out)) as strike_rate,
253 ((bat)/(wik-run_out)) as average,
254 (bat/(balls/6)) as economy,
255 fours,
256 sixes,
257 Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
258 from
259
260 (SELECT
261     year(date) as season,batting_team, bowler,
262     sum(case when extras_type = 'byes' or extras_type = 'legbyes' then null else i.batsman_runs + i.extra_runs end) AS bat,
263     sum(is_wicket) as wik,
264     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
265     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
266     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
267     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
268     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
269     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
270     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
271     sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
272     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
273     sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
274     sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
275     sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
276     sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
277     count(distinct m.id) as matches
278
279     FROM
280
281     matches m cross join ipl i on m.id=i.id
282     group by season, bowler, batting_team)q1
283     order by season,bowler, wickets desc
284
285 ;
286
287 /*Bowler wise ultimate stats (Better Alternative to the previous one)*/
288 • select
289 season,
290 team,
291 opponent,
292 bowler,
293 count(distinct id)as matches,
294 sum(oute-run_out) as total_wickets,
295 sum(runs) as runs,
296 sum(balls) as balls,
297 round(((sum(balls)/6))) as overs,
298 ( case when sum(oute-run_out)=0 then sum(balls) else (sum(balls))/(sum(oute-run_out))) end) as strike_rate,
299 ( case when sum(oute-run_out)=0 then sum(runs) else ((sum(runs))/(sum(oute-run_out))) end) as average,
300 (sum(runs)/(sum(balls)/6)) as economy,
301 max(oute-run_out) as Highest_Number_of_wickets_in_an_innings,
302 sum(dots) as dots,
303 sum(1s) as 1s,
304 sum(2s) as 2s,
305 sum(3s) as 3s,
306 sum(4s) as 4s,
307 sum(6s) as 6s,
308 sum(Caught) as Caught,sum(run_out) as Run_out, sum(bowled) as Bowled, sum(lbw) as LBW, sum(stumped) as Stumped, sum(Caught_and_bowled) as Caught_and_Bowled
309
310 from
311 from
312
313 (select
314     year(date) as season, date, id, inning, bowler,
315     sum(total_runs) as runs,
316     sum(is_wicket) as oute,
317     sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
318     sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
319     sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
320     sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
321     sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
322     sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
323     sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
324     sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes'))) then 1 else 0 end) as balls,
325     sum(case when extras_type <> 'noballs' then (case when batsman_runs = 0 then 1 else 0 end) else 0 end) as dots,
326     sum(case when batsman_runs = 1 then 1 else 0 end) as 1s,
327     sum(case when batsman_runs = 2 then 1 else 0 end) as 2s,
328     sum(case when batsman_runs = 3 then 1 else 0 end) as 3s,
329     sum(case when batsman_runs = 4 then 1 else 0 end) as 4s,
330     sum(case when batsman_runs = 6 then 1 else 0 end) as 6s,
331     bowling_team as team,
332     batting_team as opponent,
333     dense_rank() over(partition by year(date) order by date, id) as match_no
334
335 from
336
337 (select
338     i.id,i.inning,i.over,i.ball,i.batsman,i.batsman_runs,i.total_runs,i.bowler,i.dismissal_kind,
339     i.is_wicket,i.extras_type,i.batting_team,i.bowling_team,m.city,m.date,m.winner,
340     m.result,m.result_margin
341
342 from
343
344 ipl i cross join matches m on i.id=m.id)q1
345     group by season, date, id, inning,team,opponent, bowler
346     order by season,date, id, inning, bowler, oute)q2
347     group by season, team,opponent, bowler
348
349 ;

```



```

3  /* Points Table Seasonwise*/
4  • select
5  *,
6  (matches- matches_won)as matches_lost,
7  ((matches_won*100)/matches) as win_percentage
8  from
9
10 (select
11 season,
12 team1 as team,
13 count(team1) as matches,
14 sum(case when team1 = winner then 1 else 0 end) as matches_won,
15 sum(case when winner = 'NA' then 1 else 0 end) as no_result
16 from
17
18 ((select
19 year(date)as season, team1, team2, winner, result
20 from matches)
21
22 union all
23
24 (Select
25 year(date) as season, team2 as team1, team1 as team2, winner, result
26 from matches))q1
27 group by season, team)q2
28 ;
29
30 /*All basman scores in all matches*/
31 • select
32 year(date) as season, date, id,city,venue, inning, batsman,
33 sum(batsman_runs) as runs,
34 ((sum(batsman_runs))*100/(sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end)))) as strike_rate,
35 sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end) as balls,
36 sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
37 sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
38 batting_team as team,
39 bowling_team as opponent,
40 dense_rank() over(partition by year(date) order by date, id) as match_no,
41 home,away
42 from
43
44 (select
45 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
46 i.is_wicket, i.batting_team, i.bowling_team, m.city,m.venue, m.date, m.winner,
47 m.result, m.result_margin, m.team1 as home, m.team2 as away, i.extras_type, i.bowler
48
49 from
50 ipl i cross join matches m on i.id=m.id)q1
51 group by season, date, id,city, venue, inning,team,opponent, batsman,home,away
52 order by season,date, id, inning, batsman, runs
53 ;
54
55 /*All inning scores in all matches*/
56 • select
57 year(date) as season, date, id,city, venue, inning,
58 sum(total_runs) as runs,
59 round((sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end))/6) as overs,
60 sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end) as balls,
61 (case when team = winner then 1 else 0 end) as won,
62 team as team,
63 bowling_team as opponent,
64 winner,
65 dense_rank() over(partition by year(date) order by date, id) as match_no
66 from
67
68 (select
69 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
70 i.is_wicket, i.batting_team as team, i.bowling_team, m.city, m.date, m.winner,
71 m.result, m.result_margin, i.extras_type, m.venue
72
73 from
74 ipl i cross join matches m on i.id=m.id)q1
75 group by season, date, id,city,venue, inning,team, opponent,winner
76 order by season,date, id, inning, runs
77 ;
78
79 /*All Bowlers stats in each and every match*/
80 • select
81 year(date) as season, date, id, inning, bowler,
82 sum(total_runs) as runs,
83 sum(is_wicket) as out,
84 sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
85 sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
86 sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
87 sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
88 sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
89 sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
90 sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
91 sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end) as balls,
92 round((sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end))/6) as overs,
93 sum(case when extras_type <>'noballs' then (case when batsman_runs = 0 then 1 else 0 end) else 0 end) as dots,
94 sum(case when batsman_runs = 1 then 1 else 0 end) as 1s,
95 sum(case when batsman_runs = 2 then 1 else 0 end) as 2s,
96 sum(case when batsman_runs = 3 then 1 else 0 end) as 3s,
97 sum(case when batsman_runs = 4 then 1 else 0 end) as 4s,
98 sum(case when batsman_runs = 6 then 1 else 0 end) as 6s,
99 bowling_team as team,
100 batting_team as opponent,
101 dense_rank() over(partition by year(date) order by date, id) as match_no
102 from
103

```

```

79
80 (select
81 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,i.bowler, i.dismissal_kind,
82 i.is_wicket,i.extras_type, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
83 m.result, m.result_margin
84
85 from
86 ipl i cross join matches m on i.id=m.id)q1
87 group by season, date, id, inning,team, bowler,opponent
88 order by season,date, id, inning, bowler, oute
89 ;
90
91 /*Max, min, avg scores teamwise seasonwise*/
92 • select
93 season,team, max(runs),
94 avg(runs) as average_score,
95 min(runs) as minimum_score
96 from
97
98 (select
99 year(date) as season, date, id, inning,
100 sum(total_runs) as runs, batting_team as team,
101 dense_rank() over(partition by year(date) order by date, id) as match_no
102 from
103
104 (select
105 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
106 i.is_wicket, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
107 m.result, m.result_margin
108
109 from
110 ipl i cross join matches m on i.id=m.id)q1
111 group by season, date, id, inning,team
112 order by season,date, id, inning, runs)q2
113 group by season, team
114 ;
115
116 /*30s, 50s, 100s teamwise and seasonwise*/
117 • select
118 season, team,
119 sum(case when (runs between 30 and 49) then 1 else 0 end) as 30s,
120 sum(case when (runs between 50 and 99) then 1 else 0 end) as 50s,
121 sum(case when (runs between 100 and 200) then 1 else 0 end) as 100s,
122 sum(case when (runs between 150 and 200) then 1 else 0 end) as 150s
123 from
124
125 (select
126 year(date) as season, date, id, inning, batsman,
127 sum(batsman_runs) as runs, batting_team as team,
128 dense_rank() over(partition by year(date) order by date, id) as match_no
129 from
130
131 (select
132 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
133 i.is_wicket, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
134 m.result, m.result_margin
135
136 from
137 ipl i cross join matches m on i.id=m.id)q1
138 group by season, date, id, inning,team, batsman
139 order by season,date, id, inning, batsman, runs)q2
140 group by season, team
141
142
143 ;
144
145 /*matches,runs,balls,strike rate, avg, best, dots, 1,2,3,4,5,6,30s, 50s, 100s playerwise, teamwise, and seasonwise*/
146 • select
147 season,team, batsman,
148 count(distinct id)as matches,
149 sum(runs) as runs,
150 sum(balls) as balls,
151 (((sum(runs))*100)/(sum(balls))) as strike_rate,
152 (((sum(runs)))/(count(distinct id))) as average,
153 max(runs) as best,
154 sum(dots) as dots,
155 sum(1s) as 1s,
156 sum(2s) as 2s,
157 sum(3s) as 3s,
158 sum(4s) as 4s,
159 sum(6s) as 6s,
160 sum(case when (runs between 30 and 49) then 1 else 0 end) as 30s,
161 sum(case when (runs between 50 and 99) then 1 else 0 end) as 50s,
162 sum(case when (runs between 100 and 200) then 1 else 0 end) as 100s,
163 sum(case when (runs between 150 and 200) then 1 else 0 end) as 150s
164 from
165
166 (select
167 year(date) as season, date, id, inning, batsman,
168 sum(batsman_runs) as runs,
169 sum(case when (extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes') or (extras_type = 'noballs')) then 1 else 0 end) as balls,
170 sum(case when batsman_runs = 0 then 1 else 0 end) as dots,
171 sum(case when batsman_runs = 1 then 1 else 0 end) as 1s,
172 sum(case when batsman_runs = 2 then 1 else 0 end) as 2s,

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```

174 sum(case when batsman_runs = 3 then 1 else 0 end) as 3s,
175 sum(case when batsman_runs = 4 then 1 else 0 end) as 4s,
176 sum(case when batsman_runs = 6 then 1 else 0 end) as 6s,
177 batting_team as team,
178 dense_rank() over(partition by year(date) order by date, id) as match_no
179 from
180
181 (select
182 i.id, i.inning, i.over, i.ball, i.batsman, i.batsman_runs, i.total_runs,
183 i.is_wicket, i.extras_type, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
184 m.result, m.result_margin
185
186 from
187 ipl i cross join matches m on i.id=m.id)q1
188 group by season, date, id, inning, team, batsman
189 order by season, date, id, inning, batsman, runs)q2
190 group by season, team, batsman
191
192 ;
193
194 /*Upper plus all bat stats combined*/
195 with c1 as (select
196 season, batsman, batting_team as team, matches, bat as total_runs, balls,
197 ((bat*100)/balls) as strike_rate,
198 ((bat)/matches) as average_runs,
199 wik as got_out,
200 fours,
201 sixes,
202 (matches-wik) as not_out,
203 Caught, run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
204 from
205
206 (SELECT
207 year(date) as season, batting_team, batsman, SUM(i.batsman_runs) AS bat, sum(is_wicket) as wik,
208 sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
209 sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
210 sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
211 sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
212 sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
213 sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
214 sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
215 sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
216 sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
217 sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
218 sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
219 sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
220 count(distinct m.id) as matches
221
222 FROM
223 matches m cross join ipl i on m.id=i.id
224 group by season, batsman, batting_team)q1
225 order by season, total_runs desc),
226
227 c2 as (select
228 season, team, batsman,
229 count(distinct id) as matches,
230 sum(runs) as runs,
231 sum(balls) as balls,
232 (((sum(runs))*100)/(sum(balls))) as strike_rate,
233 (((sum(runs)))/(count(distinct id))) as average,
234 max(runs) as best,
235 sum(dots) as dots,
236 sum(1s) as 1s,
237 sum(2s) as 2s,
238 sum(3s) as 3s,
239 sum(4s) as 4s,
240 sum(6s) as 6s,
241 sum(case when (runs between 30 and 49) then 1 else 0 end) as 30s,
242 sum(case when (runs between 50 and 99) then 1 else 0 end) as 50s,
243 sum(case when (runs between 100 and 200) then 1 else 0 end) as 100s,
244 sum(case when (runs between 150 and 200) then 1 else 0 end) as 150s
245 from
246
247 (select
248 year(date) as season, date, id, inning, batsman,
249 sum(batsman_runs) as runs,
250 sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes') or (extras_type = 'noballs')) then 1 else 0 end) as balls,
251 sum(case when batsman_runs = 0 then 1 else 0 end) as dots,
252 sum(case when batsman_runs = 1 then 1 else 0 end) as 1s,
253 sum(case when batsman_runs = 2 then 1 else 0 end) as 2s,
254 sum(case when batsman_runs = 3 then 1 else 0 end) as 3s,
255 sum(case when batsman_runs = 4 then 1 else 0 end) as 4s,
256 sum(case when batsman_runs = 6 then 1 else 0 end) as 6s,
257 batting_team as team,
258 dense_rank() over(partition by year(date) order by date, id) as match_no
259 from
260
261 (select
262 i.id, i.inning, i.over, i.ball, i.batsman, i.batsman_runs, i.total_runs,
263 i.is_wicket, i.extras_type, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
264 m.result, m.result_margin
265
266 from
267 ipl i cross join matches m on i.id=m.id)q1
268 group by season, date, id, inning, team, batsman
269 order by season, date, id, inning, batsman, runs)q2
270 group by season, team, batsman)
271
272 select * from c1 join c2 on c1.season=c2.season and c1.batsman=c2.batsman
273 ;

```

```

277 /*Bowler wise ultimate stats*/
278 • select
279 season,
280 team,
281 bowler,
282 count(distinct id) as matches,
283 sum(oute-run_out) as total_wickets,
284 sum(runs) as runs,
285 sum(balls) as balls,
286 round(((sum(balls)/6))) as overs,
287 ( case when sum(oute-run_out)=0 then sum(balls) else (sum(balls)/(sum(oute-run_out))) end) as strike_rate,
288 ( case when sum(oute-run_out)=0 then sum(runs) else ((sum(runs))/(sum(oute-run_out))) end) as average,
289 (sum(runs)/(sum(balls)/6)) as economy,
290 max(oute-run_out) as Highest_Number_of_wickets_in_an_innings,
291 sum(dots) as dots,
292 sum(1s) as 1s,
293 sum(2s) as 2s,
294 sum(3s) as 3s,
295 sum(4s) as 4s,
296 sum(6s) as 6s,
297 sum(wides) as wides,
298 sum(noballs) as noballs,
299 sum(Caught) as Caught, sum(run_out) as Run_out, sum(bowled) as Bowled, sum(lbw) as LBW, sum(stumped) as Stumped, sum(Caught_and_bowled) as Caught_and_Bowled
300
301 from
302 (select
303 year(date) as season, date, id, inning, bowler,
304 sum(total_runs) as runs,
305 sum(is_wicket) as oute,
306 sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
307 sum(case when dismissal_kind = 'run_out' then 1 else 0 end) as run_out,
308 sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
309 sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
310 sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
311 sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
312 sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
313 sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end) as balls,
314 sum(case when extras_type <> 'noballs' then (case when batsman_runs = 0 then 1 else 0 end) else 0 end) as dots,
315 sum(case when extras_type = 'wides' then 1 else 0 end) as wides,
316 sum(case when extras_type = 'noballs' then 1 else 0 end) as noballs,
317 sum(case when batsman_runs = 1 then 1 else 0 end) as 1s,
318 sum(case when batsman_runs = 2 then 1 else 0 end) as 2s,
319 sum(case when batsman_runs = 3 then 1 else 0 end) as 3s,
320 sum(case when batsman_runs = 4 then 1 else 0 end) as 4s,
321 sum(case when batsman_runs = 6 then 1 else 0 end) as 6s,
322 bowling_team as team,
323 dense_rank() over(partition by year(date) order by date, id) as match_no
324 from
325
326
327 (select
328 i.id, i.inning, i.over, i.ball, i.batsman, i.batsman_runs, i.total_runs, i.bowler, i.dismissal_kind,
329 i.is_wicket, i.extras_type, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
330 m.result, m.result_margin
331
332 from
333 ipl i cross join matches m on i.id=m.id)q1
334 group by season, date, id, inning, team, bowler
335 order by season, date, id, inning, bowler, oute)q2
336 group by season, team, bowler
337
338 ;
339
340 /*All inning scores in all matches*/
341 • select
342 year(date) as season, date, id, inning,
343 sum(total_runs) as runs, batting_team as team, bowling_team as opponent,
344 dense_rank() over(partition by year(date) order by date, id) as match_no
345 from
346
347 (select
348 i.id, i.inning, i.over, i.ball, i.batsman, i.batsman_runs, i.total_runs,
349 i.is_wicket, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
350 m.result, m.result_margin
351
352 from
353 ipl i cross join matches m on i.id=m.id)q1
354 group by season, date, id, inning, team, opponent
355 order by season, date, id, inning, runs
356 ;
357
358 /*All inning total scores and phasewise scores in all matches*/
359 • with c1 as(select
360 year(date) as season, date, id, inning,
361 sum(total_runs) as runs,
362
363 sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
364 sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
365
366 batting_team as team, bowling_team as opponent,
367 dense_rank() over(partition by year(date) order by date, id) as match_no
368 from
369
370 (select
371 i.id, i.inning, i.over, i.ball, i.batsman, i.batsman_runs, i.total_runs,
372 i.is_wicket, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
373 m.result, m.result_margin, i.dismissal_kind, i.extras_type
374
375 from
376 ipl i cross join matches m on i.id=m.id)q1
377 where q1.over between 0 and 5
378 group by season, date, id, inning, team, opponent
379 order by season, date, id, inning, runs),

```



```

26 c2 as(select
27 year(date) as season, date, id, inning,
28 sum(total_runs) as runs, batting_team as team, bowling_team as opponent,
29 dense_rank() over(partition by year(date) order by date, id) as match_no
30 from
31
32 (select
33 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
34 i.is_wicket, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
35 m.result, m.result_margin
36
37 from
38 ipl i cross join matches m on i.id=m.id)q1
39 where q1.over between 6 and 15
40 group by season, date, id, inning,team, opponent
41 order by season,date, id, inning, runs),
42
43 c3 as(select
44 year(date) as season, date, id, inning,
45 sum(total_runs) as runs, batting_team as team, bowling_team as opponent,
46 dense_rank() over(partition by year(date) order by date, id) as match_no
47 from
48
49 (select
50 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
51 i.is_wicket, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
52 m.result, m.result_margin
53
54 from
55 ipl i cross join matches m on i.id=m.id)q1
56 where q1.over between 16 and 19
57 group by season, date, id, inning,team, opponent
58 order by season,date, id, inning, runs),
59
60 c4 as(select
61 year(date) as season, date, id,city,venue, inning,
62 sum(total_runs) as runs,
63 sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
64 sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
65 sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
66 sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
67 sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
68 sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
69 sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
70 sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
71 sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
72 sum(case when batsman_runs = 1 then 1 else 0 end) as singles,
73 sum(case when batsman_runs = 2 then 1 else 0 end) as doubles,
74 sum(case when batsman_runs = 0 then 1 else 0 end) as dots,
75 sum(case when batsman_runs = 3 then 1 else 0 end) as threes,
76 sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
77 sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
78 sum(case when extras_type = 'NA' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
79 batting_team as team, bowling_team as opponent,
80 dense_rank() over(partition by year(date) order by date, id) as match_no
81 from
82
83 (select
84 i.id, i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
85 i.is_wicket, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
86 m.result, m.result_margin, m.venue, i.dismissal_kind, i.extras_type
87
88 from
89 ipl i cross join matches m on i.id=m.id)q1
90 group by season, date, id,city,venue, inning,team, opponent
91 order by season,date, id, inning, runs)
92
93 select *from(select
94 c4.season, c4.date, c4.id,c4.city, c4.venue, c4.inning,
95 c4.runs, c4.team, c4.opponent,
96 c4.match_no, c1.runs as powerplay_score, c2.runs as middle_overs_score, c3.runs as death_overs_score,
97 c4.Caught, c4.run_out, c4.bowled, c4.lbw, c4.retired_hurt, c4.Stumped, c4.Caught_and_bowled, c4.fours, c4.Sixes, c4.singles, c4.doubles, c4.dots, c4.threes, c4.balls
98 from
99 c4 left join c1 on c4.id=c1.id and c4.inning=c1.inning
100 left join c2 on c1.id=c2.id and c1.inning=c2.inning
101 left join c3 on c2.id=c3.id and c2.inning=c3.inning) we
102 ;

```

```

379  /*Total Runs plus all bat stats combined*/
380  with c1 as (select
381  season,batsman,batting_team as team, matches, bat as total_runs, tor,balls,
382  ((bat*100)/balls) as strike_rate,
383  ((bat)/matches) as average_runs,
384  wik as got_out,
385  fours,
386  sixes,
387  (matches-wik) as not_out,
388  Caught,run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
389  from
390
391  (SELECT
392  year(date) as season,batting_team, batsman, SUM(i.batsman_runs) AS bat, sum(total_runs) as tor, sum(is_wicket) as wik,
393  sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
394  sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
395  sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
396  sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
397  sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
398  sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
399  sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
400  sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
401  sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
402  sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
403  sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
404  sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
405  count(distinct m.id) as matches
406
407  FROM
408  matches m cross join ipl i on m.id=i.id
409  group by season, batsman, batting_team)q1
410  order by season, total_runs desc),
411
412  c2 as (select
413  season,team, batsman,
414  count(distinct id)as matches,
415  sum(runs) as runs,
416  sum(tor) as tor,
417  sum(balls) as balls,
418  (((sum(runs))*100)/(sum(balls))) as strike_rate,
419  (((sum(runs)))/(count(distinct id))) as average,
420  max(runs) as best,
421  sum(dots) as dots,
422  sum(1s) as t1s,
423  sum(2s) as t2s,
424  sum(3s) as t3s,
425  sum(4s) as t4s,
426  sum(6s) as t6s,
427  sum(case when (runs between 30 and 49) then 1 else 0 end) as t30s,
428  sum(case when (runs between 50 and 99) then 1 else 0 end) as t50s,
429  sum(case when (runs between 100 and 200) then 1 else 0 end) as t100s,
430  sum(case when (runs between 150 and 200) then 1 else 0 end) as t150s
431  from
432
433  (select
434  year(date) as season, date, id, inning, batsman,
435  sum(batsman_runs) as runs,
436  sum(total_runs) tor,
437  sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes') or (extras_type = 'noballs')) then 1 else 0 end) as balls,
438  sum(case when batsman_runs = 0 then 1 else 0 end) as dots,
439  sum(case when batsman_runs = 1 then 1 else 0 end) as 1s,
440  sum(case when batsman_runs = 2 then 1 else 0 end) as 2s,
441  sum(case when batsman_runs = 3 then 1 else 0 end) as 3s,
442  sum(case when batsman_runs = 4 then 1 else 0 end) as 4s,
443  sum(case when batsman_runs = 6 then 1 else 0 end) as 6s,
444  batting_team as team,
445  dense_rank() over(partition by year(date) order by date, id) as match_no
446  from
447
448  (select
449  i.id,i.inning, i.over, i.ball,i.batsman, i.batsman_runs, i.total_runs,
450  i.is_wicket,i.extras_type, i.batting_team, i.bowling_team, m.city, m.date, m.winner,
451  m.result, m.result_margin
452
453  from
454  ipl i cross join matches m on i.id=m.id)q1
455  group by season, date, id, inning,team, batsman
456  order by season,date, id, inning, batsman, runs)q2
457  group by season,team, batsman),

```

```

459 c3 as (select
460 season, batsman, matches, bat as total_runs, tor, balls,
461 ((bat*100)/balls) as strike_rate,
462 ((bat)/matches) as average_runs,
463 wik as got_out,
464 fours,
465 sixes,
466 Caught, run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
467 from
468
469 (SELECT
470 year(date) as season, batsman, SUM(i.batsman_runs) AS bat, sum(total_runs) as tor, sum(is_wicket) as wik,
471 sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
472 sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
473 sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
474 sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
475 sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
476 sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
477 sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
478 sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
479 sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
480 sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
481 sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
482 sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
483 count(distinct m.id) as matches
484 FROM
485 matches m cross join ipl i on m.id=i.id
486 where i.over between 0 and 5
487 group by season, batsman
488 )q1
489 order by season, total_runs desc
490 ),
491
492
493 c4 as (select
494 season, batsman, matches, bat as total_runs, tor, balls,
495 ((bat*100)/balls) as strike_rate,
496 ((bat)/matches) as average_runs,
497 wik as got_out,
498 fours,
499 sixes,
500 Caught, run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
501 from
502
503 (SELECT
504 year(date) as season, batsman, SUM(i.batsman_runs) AS bat, sum(total_runs) as tor, sum(is_wicket) as wik,
505 sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
506 sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
507 sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
508 sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
509 sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
510 sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
511 sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
512 sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
513 sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
514 sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
515 sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
516 sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
517 count(distinct m.id) as matches
518 FROM
519 matches m cross join ipl i on m.id=i.id
520 where i.over between 6 and 15
521 group by season, batsman
522 )q1
523 order by season, total_runs desc ),
524
525
526 c5 as (select
527 season, batsman, matches, bat as total_runs, tor, balls,
528 ((bat*100)/balls) as strike_rate,
529 ((bat)/matches) as average_runs,
530 wik as got_out,
531 fours,
532 sixes,
533 Caught, run_out, bowled, lbw, retired_hurt, Stumped, Caught_and_bowled
534 from
535
536 (SELECT
537 year(date) as season, batsman, SUM(i.batsman_runs) AS bat, sum(total_runs) as tor, sum(is_wicket) as wik,
538 sum(case when dismissal_kind = 'caught' then 1 else 0 end) as Caught,
539 sum(case when dismissal_kind = 'run out' then 1 else 0 end) as run_out,
540 sum(case when dismissal_kind = 'bowled' then 1 else 0 end) as bowled,
541 sum(case when dismissal_kind = 'lbw' then 1 else 0 end) as lbw,
542 sum(case when dismissal_kind = 'retired hurt' then 1 else 0 end) as retired_hurt,
543 sum(case when dismissal_kind = 'stumped' then 1 else 0 end) as Stumped,
544 sum(case when dismissal_kind = 'caught and bowled' then 1 else 0 end) as Caught_and_bowled,
545 sum(case when dismissal_kind = 'hit wicket' then 1 else 0 end) as hit_wicket,
546 sum(case when dismissal_kind = 'obstructing the field' then 1 else 0 end) as obstructing_the_field,
547 sum(case when batsman_runs = 4 then 1 else 0 end) as fours,
548 sum(case when batsman_runs = 6 then 1 else 0 end) as Sixes,
549 sum(case when extras_type = 'NA' or extras_type = 'noballs' or extras_type = 'legbyes' or extras_type = 'byes' then 1 else 0 end) as balls,
550 count(distinct m.id) as matches
551 FROM
552 matches m cross join ipl i on m.id=i.id
553 where i.over between 16 and 19
554 group by season, batsman
555 )q1
556 order by season, total_runs desc
557 )
558 )

```

```

559
560 select
561     c1.season, c1.batsman, c1.team, c1.matches, c1.total_runs as Runs, c1.tor,
562     c1.balls, c1.got_out as dismissal, c1.strike_rate, c1.average_runs as average, c1.Caught,
563     c1.run_out, c1.bowled, c1.lbw, c1.Stumped, c1.Caught_and_bowled,
564     c2.best, c2.dots, c2.t1s, c2.t2s, c2.t3s, c2.t4s, c2.t6s,
565     c2.t30s, c2.t50s, c2.t100s,
566     c3.balls as pballs, c3.total_runs as pruns, c3.tor as ptor, c3.strike_rate as pstrike, c3.got_out as pdismissal, c3.fours as pfours, c3.sixes as psixes,
567     c4.balls as mballs, c4.total_runs as mruns, c4.tor as mtor, c4.strike_rate as mstrike, c4.got_out as mdissmissal, c4.fours as mfours, c4.sixes as msixes,
568     c5.balls as dballs, c5.total_runs as druns, c5.tor as dtor, c5.strike_rate as dstrike, c5.got_out as ddissmissal, c5.fours as dfours, c5.sixes as dsixes
569 from
570 c1 join c2 on c1.season=c2.season and c1.batsman=c2.batsman
571 left join c3 on c2.season=c3.season and c2.batsman=c3.batsman
572 left join c4 on c3.season=c4.season and c3.batsman=c4.batsman
573 left join c5 on c4.season=c5.season and c4.batsman=c5.batsman
574 ;
575
576 • select *, year(date) as season from matches;
577 • use ipl;
578 • select *
579 from matches
580 ;
581 /*All inning scores in all matches venue added*/
582 • select
583     year(date) as season, date, id,city, inning,
584     sum(total_runs) as runs,
585     round((sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end))/6) as overs,
586     sum(case when ((extras_type = 'NA') or (extras_type = 'byes') or (extras_type = 'legbyes')) then 1 else 0 end) as balls,
587     batting_team as team, bowling_team as opponent, winner,
588     dense_rank() over(partition by year(date) order by date, id) as match_no
589 from
590
591
592 (select
593     i.id, i.inning, i.over, i.ball, i.batsman, i.batsman_runs, i.total_runs,
594     i.is_wicket, i.batting_team, i.bowling_team, m.city, m.venue, m.date, m.winner,
595     m.result, m.result_margin, i.extras_type
596 from
597 ipl i cross join matches m on i.id=m.id)q1
598 group by season, date, id,city, inning,team, opponent, winner
599 order by season,date, id, inning, runs
600 ;

```