

Databases

1. PSL (8263 Rows) :

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	season	match_no	city	team1	team2	inning	over	ball	Batsman	Bowler	Non-Strikebatsman	total_runs	extras	wicket	total_scor	total_wick	is_four	is_six	is_wicket	wicket_ty	batsman	catcher	winner	
2	2022	1	Karachi	Karachi Ki Multan Su		1	1	1	Sharjeel K D J Willey	Babar Aza	1	1	0		1	0	FALSE	FALSE	FALSE				Sultans	
3	2022	1	Karachi	Karachi Ki Multan Su		1	1	2	Babar Aza D J Willey	Sharjeel K	0	0	0		1	0	FALSE	FALSE	FALSE				Sultans	
4	2022	1	Karachi	Karachi Ki Multan Su		1	1	3	Babar Aza D J Willey	Sharjeel K	0	0	0		1	0	FALSE	FALSE	FALSE				Sultans	
5	2022	1	Karachi	Karachi Ki Multan Su		1	1	4	Babar Aza D J Willey	Sharjeel K	1	1	0		2	0	FALSE	FALSE	FALSE				Sultans	
6	2022	1	Karachi	Karachi Ki Multan Su		1	1	5	Sharjeel K D J Willey	Babar Aza	0	0	0		2	0	FALSE	FALSE	FALSE				Sultans	
7	2022	1	Karachi	Karachi Ki Multan Su		1	1	6	Sharjeel K D J Willey	Babar Aza	1	1	0		3	0	FALSE	FALSE	FALSE				Sultans	
8	2022	1	Karachi	Karachi Ki Multan Su		1	2	1	Sharjeel K Imran Kha Babar Aza	1	1	0		4	0	FALSE	FALSE	FALSE				Sultans		
9	2022	1	Karachi	Karachi Ki Multan Su		1	2	2	Babar Aza Imran Kha Sharjeel K	1	1	0		5	0	FALSE	FALSE	FALSE				Sultans		
10	2022	1	Karachi	Karachi Ki Multan Su		1	2	3	Sharjeel K Imran Kha Babar Aza	1	1	0		6	0	FALSE	FALSE	FALSE				Sultans		
11	2022	1	Karachi	Karachi Ki Multan Su		1	2	4	Babar Aza Imran Kha Sharjeel K	1	1	0		7	0	FALSE	FALSE	FALSE				Sultans		
12	2022	1	Karachi	Karachi Ki Multan Su		1	2	5	Sharjeel K Imran Kha Babar Aza	1	1	0		8	0	FALSE	FALSE	FALSE				Sultans		
13	2022	1	Karachi	Karachi Ki Multan Su		1	2	6	Babar Aza Imran Kha Sharjeel K	4	4	0		12	0	TRUE	FALSE	FALSE				Sultans		
14	2022	1	Karachi	Karachi Ki Multan Su		1	3	1	Sharjeel K D J Willey	Babar Aza	4	4	0		16	0	TRUE	FALSE	FALSE				Sultans	
15	2022	1	Karachi	Karachi Ki Multan Su		1	3	2	Sharjeel K D J Willey	Babar Aza	0	0	0		16	0	FALSE	FALSE	FALSE				Sultans	
16	2022	1	Karachi	Karachi Ki Multan Su		1	3	3	Sharjeel K D J Willey	Babar Aza	0	1	1		17	0	FALSE	FALSE	FALSE				Sultans	
17	2022	1	Karachi	Karachi Ki Multan Su		1	3	4	Babar Aza D J Willey	Sharjeel K	1	1	0		18	0	FALSE	FALSE	FALSE				Sultans	
18	2022	1	Karachi	Karachi Ki Multan Su		1	3	5	Sharjeel K D J Willey	Babar Aza	6	6	0		24	0	FALSE	TRUE	FALSE				Sultans	
19	2022	1	Karachi	Karachi Ki Multan Su		1	3	6	Sharjeel K D J Willey	Babar Aza	0	0	0		24	0	FALSE	FALSE	FALSE				Sultans	
20	2022	1	Karachi	Karachi Ki Multan Su		1	4	1	Babar Aza Shahnawa Sharjeel K	1	1	0		25	0	FALSE	FALSE	FALSE				Sultans		
21	2022	1	Karachi	Karachi Ki Multan Su		1	4	2	Sharjeel K Shahnawa Babar Aza	0	0	0		25	0	FALSE	FALSE	FALSE				Sultans		
22	2022	1	Karachi	Karachi Ki Multan Su		1	4	3	Sharjeel K Shahnawa Babar Aza	1	1	0		26	0	FALSE	FALSE	FALSE				Sultans		
23	2022	1	Karachi	Karachi Ki Multan Su		1	4	4	Babar Aza Shahnawa Sharjeel K	0	0	0		26	0	FALSE	FALSE	FALSE				Sultans		
24	2022	1	Karachi	Karachi Ki Multan Su		1	4	5	Babar Aza Shahnawa Sharjeel K	0	0	0		26	0	FALSE	FALSE	FALSE				Sultans		
25	2022	1	Karachi	Karachi Ki Multan Su		1	4	6	Babar Aza Shahnawa Sharjeel K	0	0	0		26	0	FALSE	FALSE	FALSE				Sultans		
26	2022	1	Karachi	Karachi Ki Multan Su		1	5	1	Sharjeel K Imran Kha Babar Aza	1	1	0		27	0	FALSE	FALSE	FALSE				Sultans		
27	2022	1	Karachi	Karachi Ki Multan Su		1	5	2	Babar Aza Imran Kha Sharjeel K	1	1	0		28	0	FALSE	FALSE	FALSE				Sultans		
28	2022	1	Karachi	Karachi Ki Multan Su		1	5	3	Sharjeel K Imran Kha Babar Aza	1	1	0		29	0	FALSE	FALSE	FALSE				Sultans		
29	2022	1	Karachi	Karachi Ki Multan Su		1	5	4	Babar Aza Imran Kha Sharjeel K	1	1	0		30	0	FALSE	FALSE	FALSE				Sultans		
30	2022	1	Karachi	Karachi Ki Multan Su		1	5	5	Sharjeel K Imran Kha Babar Aza	4	4	0		34	0	TRUE	FALSE	FALSE				Sultans		
31	2022	1	Karachi	Karachi Ki Multan Su		1	5	6	Sharjeel K Imran Kha Babar Aza	0	0	0		34	0	FALSE	FALSE	FALSE				Sultans		
32	2022	1	Karachi	Karachi Ki Multan Su		1	6	1	Babar Aza Shahnawa Sharjeel K	1	1	0		35	0	FALSE	FALSE	FALSE				Sultans		
33	2022	1	Karachi	Karachi Ki Multan Su		1	6	2	Sharjeel K Shahnawa Babar Aza	0	0	0		35	0	FALSE	FALSE	FALSE				Sultans		

2.IPL (17913 Rows) :

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	ID	innings	overs	ballnumber	batter	bowler	non-strike	extra_type	batsman	extras_run	total_run	non_boun	isWicketDr	player_out	kind	fielders_in	BattingTeam	
2	1312200	1	0	1	YBK Jaisw Mohamme JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
3	1312200	1	0	2	YBK Jaisw Mohamme JC Buttler	legbyes			0	1	1	0	0	NA	NA	NA	Rajasthan Royals	
4	1312200	1	0	3	JC Buttler Mohamme YBK Jaisw	NA			1	0	1	0	0	NA	NA	NA	Rajasthan Royals	
5	1312200	1	0	4	YBK Jaisw Mohamme JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
6	1312200	1	0	5	YBK Jaisw Mohamme JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
7	1312200	1	0	6	YBK Jaisw Mohamme JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
8	1312200	1	1	1	JC Buttler Yash Daya YBK Jaisw	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
9	1312200	1	1	2	JC Buttler Yash Daya YBK Jaisw	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
10	1312200	1	1	3	JC Buttler Yash Daya YBK Jaisw	NA			4	0	4	0	0	NA	NA	NA	Rajasthan Royals	
11	1312200	1	1	4	JC Buttler Yash Daya YBK Jaisw	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
12	1312200	1	1	5	JC Buttler Yash Daya YBK Jaisw	NA			1	0	1	0	0	NA	NA	NA	Rajasthan Royals	
13	1312200	1	1	6	YBK Jaisw Yash Daya JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
14	1312200	1	2	1	JC Buttler Mohamme YBK Jaisw	NA			1	0	1	0	0	NA	NA	NA	Rajasthan Royals	
15	1312200	1	2	2	YBK Jaisw Mohamme JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
16	1312200	1	2	3	YBK Jaisw Mohamme JC Buttler	NA			4	0	4	0	0	NA	NA	NA	Rajasthan Royals	
17	1312200	1	2	4	YBK Jaisw Mohamme JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
18	1312200	1	2	5	YBK Jaisw Mohamme JC Buttler	NA			6	0	6	0	0	NA	NA	NA	Rajasthan Royals	
19	1312200	1	2	6	YBK Jaisw Mohamme JC Buttler	NA			3	0	3	0	0	NA	NA	NA	Rajasthan Royals	
20	1312200	1	3	1	YBK Jaisw Yash Daya JC Buttler	NA			1	0	1	0	0	NA	NA	NA	Rajasthan Royals	
21	1312200	1	3	2	JC Buttler Yash Daya YBK Jaisw	NA			1	0	1	0	0	NA	NA	NA	Rajasthan Royals	
22	1312200	1	3	3	YBK Jaisw Yash Daya JC Buttler	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
23	1312200	1	3	4	YBK Jaisw Yash Daya JC Buttler	NA			2	0	2	0	0	NA	NA	NA	Rajasthan Royals	
24	1312200	1	3	5	YBK Jaisw Yash Daya JC Buttler	NA			6	0	6	0	0	NA	NA	NA	Rajasthan Royals	
25	1312200	1	3	6	YBK Jaisw Yash Daya JC Buttler	NA			0	0	0	0	1	YBK Jaisw caught		R Sai Kishc	Rajasthan Royals	
26	1312200	1	4	1	JC Buttler LH Fergus SV Samsor	NA			0	0	0	0	0	NA	NA	NA	Rajasthan Royals	
27	1312200	1	4	2	JC Buttler LH Fergus SV Samsor	NA			1	0	1	0	0	NA	NA	NA	Rajasthan Royals	

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1 • use psl;
2
3 • select *, case when inning=1 then team1 else team2 end as battingteam,
4 case when inning=1 then team2 else team1 end as bowlingteam
5 from psl;
6
7 • select * from (select match_no,city,
8 case when inning=1 then team1 else team2 end as battingteam,
9 case when inning=1 then team2 else team1 end as bowlingteam,
10 inning,
11 sum(total_runs) as score,
12 max(total_wickets) as wickets
13 from
14 psl
15 group by match_no, city,inning, battingteam,bowlingteam)ww
16 ;
17
18 /*pp*/
19 • select match_no,city,
20 case when inning=1 then team1 else team2 end as battingteam,
21 case when inning=1 then team2 else team1 end as bowlingteam,
22 inning,
23 sum(total_runs) as score,
24 max(total_wickets) as wickets
25 from
26 psl
27 where psl.over between 16 and 19
28 group by match_no, city,inning, battingteam,bowlingteam
29
30 ;

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34 • select
35     match_no,
36     case when inning=1 then team1 else team2 end as battingteam,
37     case when inning=1 then team2 else team1 end as bowlingteam,
38     bowler,
39     round(sum((case when extras=0 then 1 else 0 end))/6) as overs,
40     sum((case when extras=0 then 1 else 0 end)) as balls,
41     sum(total_runs) as runs,
42     sum(case when (is_wicket = 'True' and wicket_type <>'run out') then 1 else 0 end) as wickets,
43     sum(case when is_four='True' then 1 else 0 end) as fours,
44     sum(case when is_six='True' then 1 else 0 end) as sixes,
45     sum(case when total_runs =0 then 1 else 0 end) as dots,
46     sum(case when total_runs =1 then 1 else 0 end) as singles,
47     sum(case when total_runs =2 then 1 else 0 end) as doubles,
48     sum(case when total_runs =3 then 1 else 0 end) as threes,
49     sum(case when extras=0 then 0 else extras end) as extrasextras,
50     sum(case when wicket_type='caught' then 1 else 0 end) as caught,
51     sum(case when wicket_type='bowled' then 1 else 0 end) as bowled,
52     sum(case when wicket_type='run out' then 1 else 0 end) as run_out,
53     sum(case when wicket_type='lbw' then 1 else 0 end) as lbw,
54     sum(case when wicket_type='stumped' then 1 else 0 end) as stumped
55 from psl
56 group by
57     match_no, inning, bowler, battingteam,bowlingteam
58 ;
61 /*test*/
62 • select
63     match_no,
64     case when inning=1 then team1 else team2 end as battingteam,
65     case when inning=1 then team2 else team1 end as bowlingteam,
66     bowler,
67     batsman,
68     round(sum((case when extras=0 then 1 else 0 end))/6) as overs,
69     sum((case when extras=0 then 1 else 0 end)) as balls,
70     sum(total_runs) as runs,
71     sum(case when (is_wicket = 'True' and wicket_type <>'run out') then 1 else 0 end) as wickets,
72     sum(case when is_four='True' then 1 else 0 end) as fours,
73     sum(case when is_six='True' then 1 else 0 end) as sixes,
74     sum(case when total_runs =0 then 1 else 0 end) as dots,
75     sum(case when total_runs =1 then 1 else 0 end) as singles,
76     sum(case when total_runs =2 then 1 else 0 end) as doubles,
77     sum(case when total_runs =3 then 1 else 0 end) as threes,
78     sum(case when extras=0 then 0 else extras end) as extrasextras,
79     sum(case when wicket_type='caught' then 1 else 0 end) as caught,
80     sum(case when wicket_type='bowled' then 1 else 0 end) as bowled,
81     sum(case when wicket_type='run out' then 1 else 0 end) as run_out,
82     sum(case when wicket_type='lbw' then 1 else 0 end) as lbw,
83     sum(case when wicket_type='stumped' then 1 else 0 end) as stumped
84 from psl
85 group by match_no, inning, bowler,batsman, battingteam,bowlingteam ;

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88      /*bowler against perticular batsman*/
89 •   select
90     bowler,batsman,
91     count(case when extras = 0 then ball end) as balls,
92     sum(total_runs) as runs,
93     sum(case when (is_wicket = 'True' and wicket_type <>'run out') then 1 else 0 end) as wickets,
94     sum(case when is_four='True' then 1 else 0 end) as fours,
95     sum(case when is_six='True' then 1 else 0 end) as sixes,
96     sum(case when total_runs =0 then 1 else 0 end) as dots,
97     sum(case when total_runs =1 then 1 else 0 end) as singles,
98     sum(case when total_runs =2 then 1 else 0 end) as doubles,
99     sum(case when total_runs =3 then 1 else 0 end) as threes,
100    sum(case when extras=0 then 0 else extras end) as extrasextras,
101    sum(case when wicket_type='caught' then 1 else 0 end) as caught,
102    sum(case when wicket_type='bowled' then 1 else 0 end) as bowled,
103    sum(case when wicket_type='run out' then 1 else 0 end) as run_out,
104    sum(case when wicket_type='lbw' then 1 else 0 end) as lbw,
105    sum(case when wicket_type='stumped' then 1 else 0 end) as stumped
106  from psl
107  group by bowler, batsman
108  order by bowler
109  ;

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112      /*Next 4 balls runs, strike rate and wicket team added*/
113 •   select *,
114     lead(t) over(partition by match_no, bowler) as foruns,
115     (lead(t) over(partition by match_no, bowler))*100 as fcsr,
116     lead(t) over(partition by match_no, bowler) fo,
117     lead(tw) over(partition by match_no, bowler) fow
118  from
119  (select *,
120     lead(s) over(partition by match_no, bowler) as truns,
121     (lead(s) over(partition by match_no, bowler))*100 as tsr,
122     lead(s) over(partition by match_no, bowler) t,
123     lead(sw) over(partition by match_no, bowler) tw
124  from
125  (select *,
126     lead(f) over(partition by match_no, bowler) as sruns,
127     (lead(f) over(partition by match_no, bowler))*100 as ssr,
128     lead(f) over(partition by match_no, bowler) s,
129     lead(fw) over(partition by match_no, bowler) sw
130  from
131  (select *,
132     lead(total_runs) over(partition by match_no, bowler) as fruns,
133     (lead(total_runs) over(partition by match_no, bowler))*100 as fsr,

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134     lead(total_runs) over(partition by match_no, bowler) f,
135     lead(is_wicket) over(partition by match_no, bowler) fw
136 from
137
138 ⊖ (select *,
139     row_number() over(partition by match_no, bowler order by psl.over, ball) as ballnum
140     from
141     ⊖ (select match_no,inning,
142         case when inning=1 then team1 else team2 end as battingteam,
143         case when inning=1 then team2 else team1 end as bowlingteam,
144         bowler, psl.over, ball, total_runs,extras, is_wicket
145     from psl
146     order by match_no,inning, bowler,psl.over,ball)q1)q2)q3)q4)q5
147     order by match_no,inning, bowler,q5.over,ball
148 ;
149
151     /*Next 4 balls runs, strike rate and wicket*/
152 • select *,
153     lead(t) over(partition by match_no, bowler) as foruns,
154     (lead(t) over(partition by match_no, bowler))*100 as fcsr,
155     lead(t) over(partition by match_no, bowler) fo,
156     lead(tw) over(partition by match_no, bowler) fow
157 from
158 ⊖ (select *,
159     lead(s) over(partition by match_no, bowler) as truns,
160     (lead(s) over(partition by match_no, bowler))*100 as tsr,
161     lead(s) over(partition by match_no, bowler) t,
162     lead(sw) over(partition by match_no, bowler) tw
163 from
164 ⊖ (select *,
165     lead(f) over(partition by match_no, bowler) as sruns,
166     (lead(f) over(partition by match_no, bowler))*100 as ssr,
167     lead(f) over(partition by match_no, bowler) s,
168     lead(fw) over(partition by match_no, bowler) sw
169 from
170 ⊖ (select *,
171     lead(total_runs) over(partition by match_no, bowler) as fruns,
172     (lead(total_runs) over(partition by match_no, bowler))*100 as fsr,

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173     lead(total_runs) over(partition by match_no, bowler) f,
174     lead(is_wicket) over(partition by match_no, bowler) fw
175     from
176
177     (select *,
178     row_number() over(partition by match_no, bowler order by psl.over, ball) as ballnum
179     from
180     (select match_no, bowler, psl.over, ball, total_runs,extras, is_wicket
181     from psl
182     order by match_no, bowler,psl.over,ball)q1)q2)q3)q4)q5
183     ;
184
185     /*previous 4 balls runs, strike rate and wicket*/
186
187     • select *,
188     lag(t) over(partition by match_no, bowler) as foruns,
189     (lag(t) over(partition by match_no, bowler))*100 as fosr,
190     lag(t) over(partition by match_no, bowler) fo,
191     lag(tw) over(partition by match_no, bowler) fow
192     from
193
194     (select *,
195     lag(s) over(partition by match_no, bowler) as truns,
196     (lag(s) over(partition by match_no, bowler))*100 as tsr,
197     lag(s) over(partition by match_no, bowler) t,
198     lag(sw) over(partition by match_no, bowler) tw
199     from
200
201     (select *,
202     lag(f) over(partition by match_no, bowler) as sruns,
203     (lag(f) over(partition by match_no, bowler))*100 as ssr,
204     lag(f) over(partition by match_no, bowler) s,
205     lag(fw) over(partition by match_no, bowler) sw
206     from
207
208     (select *,
209     lag(total_runs) over(partition by match_no, bowler) as fruns,
210     (lag(total_runs) over(partition by match_no, bowler))*100 as fsr,
211     lag(total_runs) over(partition by match_no, bowler) f,
212     lag(is_wicket) over(partition by match_no, bowler) fw
213     from
214
215     (select *,
216     row_number() over(partition by match_no, bowler order by psl.over, ball) as ballnum
217     from
218     (select match_no, bowler, psl.over, ball, total_runs,extras, is_wicket
219     from psl
220     order by match_no, bowler,psl.over,ball)q1)q2)q3)q4)q5
221     ;

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1 • (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
2   m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
3   i.extras_run, i.total_run,i.iswicketdelivery, i.player_out, i.battingteam,
4   case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
5   from m cross join i on m.id=i.id)
6   ;
7 • use psl;
8   |
9   /*Each inning score*/
10 • select matchnumber, venue, battingteam,bowlingteam,winningteam,
11   innings,
12   sum(total_run) as score,
13   sum(iswicketdelivery) as wickets,
14   sum(extras_run) as extras
15   from
16   (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
17    m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
18    i.extras_run, i.total_run,i.iswicketdelivery, i.player_out, i.battingteam,
19    case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
20    from m cross join i on m.id=i.id)q1
21   group by matchnumber,venue, innings, battingteam, bowlingteam, winningteam
22   ;
23   /*pp*/
24 • select matchnumber, venue, battingteam,bowlingteam,winningteam,
25   innings,
26   sum(total_run) as score,
27   sum(iswicketdelivery) as wickets,
28   sum(extras_run) as extras
29   from
30   (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
31    m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
32    i.extras_run, i.total_run,i.iswicketdelivery, i.player_out, i.battingteam,
33    case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
34    from m cross join i on m.id=i.id
35    where i.overs between 16 and 19)q1
36   group by matchnumber,venue, innings, battingteam, bowlingteam, winningteam
37   ;
38   ;

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```

40  /*Each inning bowling scorecard*/
41  • select *,wicket-run_out as wickets from
42  (select
43  matchnumber, venue,city,bowlingteam,battingteam,
44  bowler,
45  round(count( case when extra_type = 'NA' or extra_type = 'legbyes' or extra_type = 'byes' then ballnumber end)/6) as overs,
46  count(ballnumber) as balls,
47  sum(total_run) as runs,
48  sum(case when is_wicket = 1 then 1 else 0 end) as wicket,
49  sum(case when total_run=4 then 1 else 0 end) as fours,
50  sum(case when total_run=6 then 1 else 0 end) as sixes,
51  sum(case when total_run=0 then 1 else 0 end) as dots,
52  sum(case when total_run=1 then 1 else 0 end) as singles,
53  sum(case when total_run=2 then 1 else 0 end) as doubles,
54  sum(case when total_run=3 then 1 else 0 end) as threes,
55  sum(extras_run) as extras,
56  sum(case when kind='caught' then 1 else 0 end) as caught,
57  sum(case when kind='bowled' then 1 else 0 end) as bowled,
58  sum(case when kind='run out' then 1 else 0 end) as run_out,
59  sum(case when kind='lbw' then 1 else 0 end) as lbw,
60  sum(case when kind='stumped' then 1 else 0 end) as stumped
61  from
62  (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
63  m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
64  i.extras_run,i.extra_type, i.total_run,i.iswicketdelivery as is_wicket,i.kind, i.player_out, i.battingteam,
65  case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
66  from m cross join i on m.id=i.id)q1
67  group by
68  matchnumber,venue, city,innings, bowler, bowlingteam,battingteam)a1
69  ;

73  /*test*/
74  • select *,wicket-run_out as wickets from
75  (select
76  matchnumber, venue,city,bowlingteam,battingteam,
77  bowler,
78  batter,
79  round(count( case when extra_type = 'NA' or extra_type = 'legbyes' or extra_type = 'byes' then ballnumber end)/6) as overs,
80  count(ballnumber) as balls,
81  sum(total_run) as runs,
82  sum(case when is_wicket = 1 then 1 else 0 end) as wicket,
83  sum(case when total_run=4 then 1 else 0 end) as fours,
84  sum(case when total_run=6 then 1 else 0 end) as sixes,
85  sum(case when total_run=0 then 1 else 0 end) as dots,
86  sum(case when total_run=1 then 1 else 0 end) as singles,
87  sum(case when total_run=2 then 1 else 0 end) as doubles,
88  sum(case when total_run=3 then 1 else 0 end) as threes,
89  sum(extras_run) as extras,
90  sum(case when kind='caught' then 1 else 0 end) as caught,
91  sum(case when kind='bowled' then 1 else 0 end) as bowled,

92  sum(case when kind='run out' then 1 else 0 end) as run_out,
93  sum(case when kind='lbw' then 1 else 0 end) as lbw,
94  sum(case when kind='stumped' then 1 else 0 end) as stumped
95  from
96  (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
97  m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
98  i.extras_run,i.extra_type, i.total_run,i.iswicketdelivery as is_wicket,i.kind, i.player_out, i.battingteam,
99  case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
100  from m cross join i on m.id=i.id)q1
101  group by
102  matchnumber,venue, city,innings, bowler,batter, bowlingteam,battingteam)a1
103  ;

```



```

107      /*Each inning bowling scorecard*/
108 •   select *,wicket-run_out as wickets from
109   (select
110    bowler,
111    batter,
112    count(case when extras_run=0 then ballnumber end) as balls,
113    sum(total_run) as runs,
114    sum(case when is_wicket = 1 then 1 else 0 end) as wicket,
115    sum(case when total_run=4 then 1 else 0 end) as fours,
116    sum(case when total_run=6 then 1 else 0 end) as sixes,
117    sum(case when total_run=0 then 1 else 0 end) as dots,
118    sum(case when total_run=1 then 1 else 0 end) as singles,
119    sum(case when total_run=2 then 1 else 0 end) as doubles,
120    sum(case when total_run=3 then 1 else 0 end) as threes,
121    sum(extras_run) as extras,
122    sum(case when kind='caught' then 1 else 0 end) as caught,
123    sum(case when kind='bowled' then 1 else 0 end) as bowled,
124    sum(case when kind='run out' then 1 else 0 end) as run_out,
125    sum(case when kind='lbw' then 1 else 0 end) as lbw,
126    sum(case when kind='stumped' then 1 else 0 end) as stumped
127   from
128   (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
129    m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
130    i.extras_run, i.total_run,i.iswicketdelivery as is_wicket,i.kind, i.player_out, i.battingteam,
131    case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
132   from m cross join i on m.id=i.id)q1
133   group by bowler, batter
134   order by bowler
135  )a1
136  ;
139      /*Next 4 balls runs, strike rate and wicket of bowler*/
140 •   select *,
141    lead(t) over(partition by matchnumber, bowler) as foruns,
142    (lead(t) over(partition by matchnumber, bowler))*100 as fcsr,
143    lead(t) over(partition by matchnumber, bowler) fo,
144    lead(tw) over(partition by matchnumber, bowler) fow
145   from
146   (select *,
147    lead(s) over(partition by matchnumber, bowler) as truns,
148    (lead(s) over(partition by matchnumber, bowler))*100 as tsr,
149    lead(s) over(partition by matchnumber, bowler) t,
150    lead(sw) over(partition by matchnumber, bowler) tw
151   from
152   (select *,
153    lead(f) over(partition by matchnumber, bowler) as sruns,
154    (lead(f) over(partition by matchnumber, bowler))*100 as ssr,
155    lead(f) over(partition by matchnumber, bowler) s,
156    lead(fw) over(partition by matchnumber, bowler) sw
157   from
158   (select *,
159    lead(total_run) over(partition by matchnumber, bowler) as fruns,
160    (lead(total_run) over(partition by matchnumber, bowler))*100 as fsr,

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161     lead(total_run) over(partition by matchnumber, bowler) f,
162     lead(is_wicket) over(partition by matchnumber, bowler) fw
163 from
164
165 (select *,
166  row_number() over(partition by matchnumber, bowler order by overs, ballnumber) as ballnum
167  from
168  (select matchnumber, bowler, overs, ballnumber, total_run, extras_run, is_wicket
169  from
170  (select m.id, m.city, m.matchNumber, m.team1, m.team2, m.venue,
171   m.winningTeam, i.innings, i.overs, i.ballnumber, i.batter, i.bowler, i.batsman_run,
172   i.extras_run, i.total_run, i.iswicketdelivery as is_wicket, i.kind, i.player_out, i.battingteam,
173   case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
174  from m cross join i on m.id=i.id)a1
175
176  order by matchnumber, bowler, overs, ballnumber)q1)q2)q3)q4)q5
177  ;
178
179  /*Next 4 balls runs, strike rate and wicket in an inning*/
181  • select *,
182     lead(t) over(partition by matchnumber, innings) as foruns,
183     (lead(t) over(partition by matchnumber, innings))*100 as fosr,
184     lead(t) over(partition by matchnumber, innings) fo,
185     lead(tw) over(partition by matchnumber, innings) fow
186  from
187  (select *,
188     lead(s) over(partition by matchnumber, innings) as truns,
189     (lead(s) over(partition by matchnumber, innings))*100 as tsr,
190     lead(s) over(partition by matchnumber, innings) t,
191     lead(sw) over(partition by matchnumber, innings) tw
192  from
193  (select *,
194     lead(f) over(partition by matchnumber, innings) as sruns,
195     (lead(f) over(partition by matchnumber, innings))*100 as ssr,
196     lead(f) over(partition by matchnumber, innings) s,
197     lead(fw) over(partition by matchnumber, innings) sw
198  from
199  (select *,
200     lead(total_run) over(partition by matchnumber, innings) as fruns,
201     (lead(total_run) over(partition by matchnumber, innings))*100 as fsr,
202     lead(total_run) over(partition by matchnumber, innings) f,

```

```

203     lead(is_wicket) over(partition by matchnumber, innings) fw
204 from
205
206 (select *,
207     row_number() over(partition by matchnumber, innings order by overs, ballnumber) as ballnum
208     from
209     (select matchnumber,battingteam,bowlingteam,venue,city innings, overs, ballnumber, total_run,extras_run, is_wicket
210     from
211     (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
212     m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
213     i.extras_run, i.total_run,i.iswicketdelivery as is_wicket,i.kind, i.player_out, i.battingteam,
214     case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
215     from m cross join i on m.id=i.id)a1
216
217     order by matchnumber, innings,overs,ballnumber)q1)q2)q3)q4)q5
218 ;
219
220
221     /*previous 4 balls runs, strike rate and wicket of bowler*/
222 • select *,
223     lag(t) over(partition by matchnumber, bowler) as foruns,
224     (lag(t) over(partition by matchnumber, bowler))*100 as fofsr,
225     lag(t) over(partition by matchnumber, bowler) fo,
226     lag(tw) over(partition by matchnumber, bowler) fow
227     from
228     (select *,
229     lag(s) over(partition by matchnumber, bowler) as truns,
230     (lag(s) over(partition by matchnumber, bowler))*100 as tsr,
231     lag(s) over(partition by matchnumber, bowler) t,
232     lag(sw) over(partition by matchnumber, bowler) tw
233     from
234     (select *,
235     lag(f) over(partition by matchnumber, bowler) as sruns,
236     (lag(f) over(partition by matchnumber, bowler))*100 as ssr,
237     lag(f) over(partition by matchnumber, bowler) s,
238     lag(fw) over(partition by matchnumber, bowler) sw
239     from
240     (select *,
241     lag(total_run) over(partition by matchnumber, bowler) as fruns,
242     (lag(total_run) over(partition by matchnumber, bowler))*100 as fsr,
243     lag(total_run) over(partition by matchnumber, bowler) f,
244     lag(is_wicket) over(partition by matchnumber, bowler) fw
245     from
246
247     (select *,
248     row_number() over(partition by matchnumber, bowler order by overs, ballnumber) as ballnum
249     from
250     (select matchnumber, bowler, overs, ballnumber, total_run,extras_run, is_wicket
251     from
252     (select m.id,m.city,m.matchNumber,m.team1,m.team2,m.venue,
253     m.winningTeam, i.innings,i.overs,i.ballnumber,i.batter,i.bowler, i.batsman_run,
254     i.extras_run, i.total_run,i.iswicketdelivery as is_wicket,i.kind, i.player_out, i.battingteam,
255     case when m.team1=i.battingteam then team2 else team1 end as bowlingteam
256     from m cross join i on m.id=i.id)a1
257
258     order by matchnumber, bowler,overs,ballnumber)q1)q2)q3)q4)q5
259 ;

```