**-- Top 10 batsmen per season + averages + strike rates**

select season, striker, runs\_in\_season,runs\_in\_season/times\_out\_in\_szn as batting\_average,

runs\_in\_season\*100/balls\_faced\_in\_szn as strike\_rate,

rnk\_in\_szn

from(

select season,striker,sum(runs\_off\_bat) as runs\_in\_season,

sum(case when wides is null and noballs is null then 1 else 0 end) as balls\_faced\_in\_szn,

sum(case when player\_dismissed = striker or player\_dismissed = non\_striker then 1 else 0 end) as times\_out\_in\_szn,

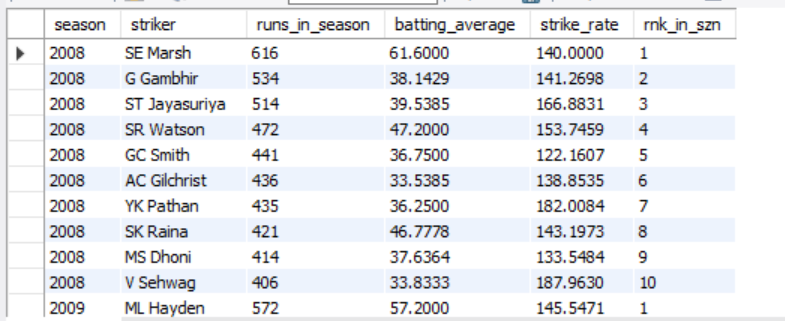
rank() over (partition by season order by sum(runs\_off\_bat) desc) as rnk\_in\_szn

from deliveries

group by 1,2) a

where rnk\_in\_szn <=10

order by season, rnk\_in\_szn;



**-- Top 10 bowlers per season + bowling averages + economy rates**

select season, bowler, wickets\_in\_szn,deliveries\_in\_szn/wickets\_in\_szn as bowling\_average,

(runs\_szn+extras\_szn)\*6/deliveries\_in\_szn as economy\_rate\_szn,

rnk\_in\_szn

from(

select season,bowler,

sum(case when wicket\_type not in ('','run out','retired hurt', 'retired out','obstructing the field')

then 1 else 0 end) as wickets\_in\_szn,

count(ball) as deliveries\_in\_szn,

sum(runs\_off\_bat) as runs\_szn,

sum(extras) as extras\_szn,

rank() over (partition by season order by sum(case when wicket\_type not in

('','run out','retired hurt', 'retired out','obstructing the field') then 1 else 0 end) desc)

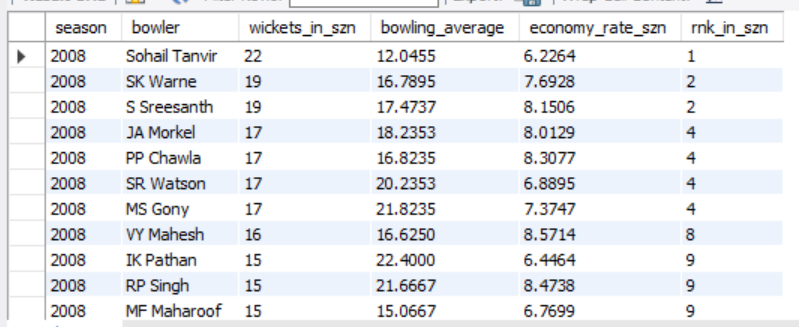
as rnk\_in\_szn

from deliveries

group by 1,2) a

where rnk\_in\_szn <=10

order by season, rnk\_in\_szn;



**-- Top 5 batsmen per season based on combined metric**

select \*

from (

select a.season,a.striker,round(((runs\_in\_season/season\_average)+(batting\_average/season\_batting\_average)

+(strike\_rate/season\_strike\_rate)),2) as batting\_metric,balls\_faced,

rank() over (partition by season order by ((runs\_in\_season/season\_average)+(batting\_average/season\_batting\_average)

+(strike\_rate/season\_strike\_rate)) desc) as szn\_rnk

from

(select season,striker,sum(runs\_off\_bat) as runs\_in\_season,

sum(runs\_off\_bat)/sum(case when player\_dismissed = striker or player\_dismissed = non\_striker then 1 else 0 end) as batting\_average,

sum(runs\_off\_bat)\*100/sum(case when wides is null and noballs is null then 1 else 0 end) as strike\_rate,

sum(case when wides is null and noballs is null then 1 else 0 end) as balls\_faced

from deliveries

group by 1,2) a

left join

(select season,sum(runs\_off\_bat) as total\_runs\_in\_season,

sum(runs\_off\_bat)/count(distinct striker) as season\_average,

sum(runs\_off\_bat)/sum(case when player\_dismissed = striker or player\_dismissed = non\_striker then 1 else 0 end) as season\_batting\_average,

sum(runs\_off\_bat)\*100/sum(case when wides is null and noballs is null then 1 else 0 end) as season\_strike\_rate

from deliveries

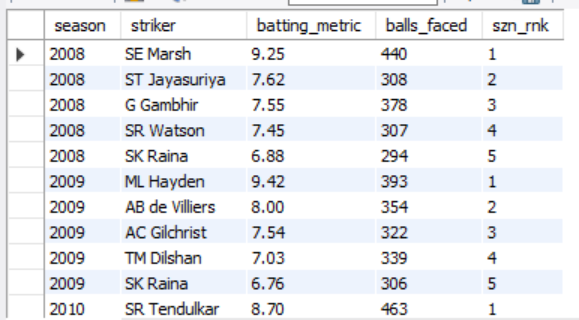
group by 1) b

on a.season = b.season

where balls\_faced>120

) c

where szn\_rnk <=5;



**-- Top 5 bowlers per season based on combined metric**

select \*

from (

select a.season,a.bowler,round(((wickets/total\_avg\_wickets)+(total\_bowling\_average/bowling\_average)

+(total\_economy\_rate/economy\_rate)),2) as bowling\_metric,balls\_bowled,

rank() over (partition by season order by ((wickets/total\_avg\_wickets)+(total\_bowling\_average/bowling\_average)

+(total\_economy\_rate/economy\_rate)) desc) as szn\_rnk

from(

select season,bowler,

sum(case when wicket\_type not in ('','run out','retired hurt', 'retired out','obstructing the field')

then 1 else 0 end) as wickets,

count(ball)/sum(case when wicket\_type not in ('','run out','retired hurt', 'retired out','obstructing the field')

then 1 else 0 end) as bowling\_average,

count(ball) as balls\_bowled,

sum(runs\_off\_bat+extras)\*6/count(ball) as economy\_rate

from deliveries

group by 1,2) a

left join

(select season,

sum(case when wicket\_type not in ('','run out','retired hurt', 'retired out','obstructing the field')

then 1 else 0 end)/count(distinct bowler) as total\_avg\_wickets,

count(ball)/sum(case when wicket\_type not in ('','run out','retired hurt', 'retired out','obstructing the field')

then 1 else 0 end) as total\_bowling\_average,

sum(runs\_off\_bat+extras)\*6/count(ball) as total\_economy\_rate

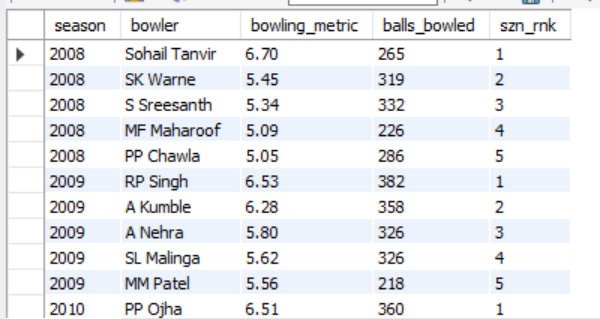
from deliveries

group by 1) b

on a.season = b.season

where balls\_bowled>120) c

where szn\_rnk <=5;



**-- Toss Outcome vs Match Outcome by Venue**

select city,toss\_decision,num\_matches,win\_count\_toss\_winner/num\_matches as win\_percent\_toss\_winner

from(

select city,toss\_decision,

sum(case when toss\_winner = winner then 1 else 0 end) as win\_count\_toss\_winner,

count(\*) as num\_matches

from match\_details md

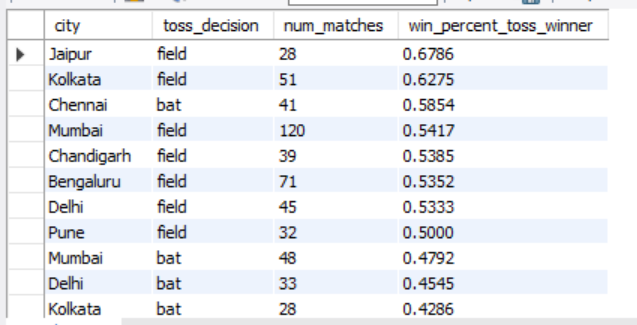
left join venue vn

on md.venueID = vn.id

group by 1,2) a

where num\_matches > 20

order by 4 desc;



**-- Typical playing 11 breakdown by position**

select case when Playing\_Position in ('Wicketkeeper','Wicketkeeper Batter') then 'Wicket Keeper'

when Playing\_Position like '%Batter%' then 'Batsman'

when Playing\_Position like '%Allrounder%' then 'All Rounder'

else 'Bowler' end as Playing\_Position,

sum(ct) as players\_in\_position,count(distinct match\_id) as num\_matches,

sum(ct)/count(distinct match\_id) as players\_in\_11

from(

select match\_id,Playing\_Position,count(\*) as ct

from(

select p11.\*,md.winner,pk.Playing\_Position

from playing\_11 p11

left join match\_details md

on p11.Match\_ID = md.match\_id

left join players\_info\_with\_keys pk

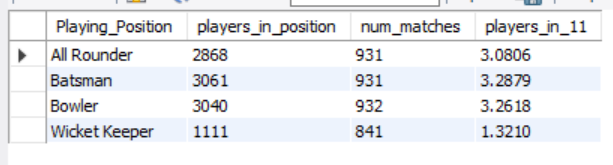
on p11.key\_cricinfo = pk.key\_cricinfo) a

where team = winner

group by 1,2) b

where Playing\_Position is not null

group by 1;



**-- Tight bowling correlation with match outcome**

select season,sum(case when extras\_team < other\_extras then 1 else 0 end)/count(case when extras\_team < other\_extras then 1 else 0 end)

as matches\_tighter\_bowlers\_won

from(

select season,match\_id,bowling\_team,winner,extras\_team,

case when lag(extras\_team) over (partition by match\_id) is null

then lead(extras\_team) over (partition by match\_id) else lag(extras\_team) over (partition by match\_id)

end as other\_extras

from(

select dl.season,dl.match\_id,dl.bowling\_team,md.winner,

sum(extras) as extras\_team

from deliveries dl

left join match\_details md

on dl.match\_id = md.match\_id

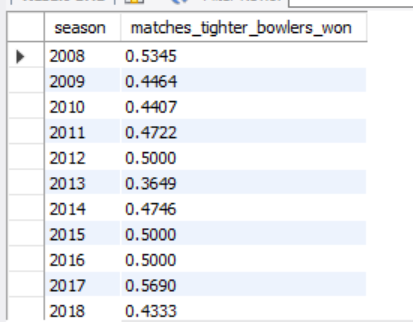
group by 1,2,3,4

order by 1,2,3) a

) b

where bowling\_team = winner

group by 1;



**-- Catches win Matches split by season**

select season,sum(case when field\_wick\_team > field\_wick\_others then 1 else 0 end)/count(case when field\_wick\_team > field\_wick\_others then 1 else 0 end)

as matches\_better\_fielders\_won

from(

select season,match\_id,bowling\_team,winner,field\_wick\_team,

case when lag(field\_wick\_team) over (partition by match\_id) is null

then lead(field\_wick\_team) over (partition by match\_id) else lag(field\_wick\_team) over (partition by match\_id)

end as field\_wick\_others

from(

select dl.season,dl.match\_id,dl.bowling\_team,md.winner,

sum(case when wicket\_type in ('caught','run out','caught and bowled','stumped') then 1 else 0 end)

as field\_wick\_team

from deliveries dl

left join match\_details md

on dl.match\_id = md.match\_id

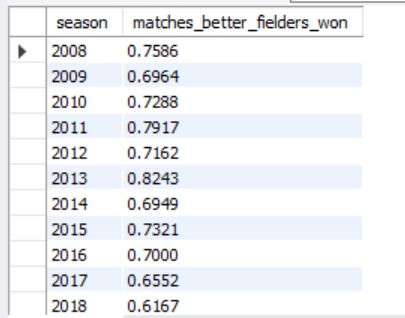
group by 1,2,3,4

order by 1,2,3) a

) b

where bowling\_team = winner

group by 1;



**-- Capturing the Powerplay**

select season,sum(case when runs\_conceded < runs\_conceded\_others then 1 else 0 end)/count(case when runs\_conceded < runs\_conceded\_others then 1 else 0 end)

as matches\_big\_batters\_won,

sum(case when wickets\_taken > wickets\_taken\_others then 1 else 0 end)/count(case when wickets\_taken > wickets\_taken\_others then 1 else 0 end)

as matches\_sharp\_bowlers\_won

from(

select season,match\_id,bowling\_team,winner,runs\_conceded,wickets\_taken,

case when lag(runs\_conceded) over (partition by match\_id) is null

then lead(runs\_conceded) over (partition by match\_id) else lag(runs\_conceded) over (partition by match\_id)

end as runs\_conceded\_others,

case when lag(wickets\_taken) over (partition by match\_id) is null

then lead(wickets\_taken) over (partition by match\_id) else lag(wickets\_taken) over (partition by match\_id)

end as wickets\_taken\_others

from(

select dl.season,dl.match\_id,dl.bowling\_team,md.winner,

sum(runs\_off\_bat+extras) as runs\_conceded,

sum(case when wicket\_type <> ''then 1 else 0 end) as wickets\_taken

from deliveries dl

left join match\_details md

on dl.match\_id = md.match\_id

where dl.ball <6.1

group by 1,2,3,4

order by 1,2,3

) a

) b

where bowling\_team = winner

group by 1;

