Q1 - Find the count of each of singles, doubles and boundaries scored in a particular match.

A -

select r13.match\_no,r13.inning,r13.team\_id,r13.dot,r13.single,r13.doubles,r12.triple,r13.four,

r13.six,(r13.four+r13.six) as boundarycount from

((select match\_no,inning,team\_id,four from

(select match\_no,inning,team\_id,runs,count(\*) as four from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r1 where runs=4 order by match\_no,inning,runs) as r2

natural join

(select match\_no,team\_id,inning,six from

(select match\_no,inning,runs,team\_id,count(\*) as six from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r3 where runs=6 order by match\_no,inning,runs) as r4

natural join

(select match\_no,team\_id,inning,dot from

(select match\_no,inning,runs,team\_id,count(\*) as dot from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r5 where runs=0 order by match\_no,inning,runs) as r6 natural join

(select match\_no,team\_id,inning,single from

(select match\_no,inning,runs,team\_id,count(\*) as single from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r7 where runs=1 order by match\_no,inning,runs) as r8

natural join

(select match\_no,team\_id,inning,doubles from

(select match\_no,inning,runs,team\_id,count(\*) as doubles from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r9 where runs=2 order by match\_no,inning,runs) as r10) as r13

full join

(select match\_no,team\_id,inning,triple from

(select match\_no,inning,runs,team\_id,count(\*) as triple from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r11 where runs=3 order by match\_no,inning,runs) as r12

on (r13.match\_no=r12.match\_no and r13.inning=r12.inning)

order by match\_no,inning;

Q2 - Find the support staff members who serve the countries other than their country.

A -

select name as Name,type,age,country,team\_name as Coach\_of from

support\_staff\_members as s join team as t on (s.team\_id=t.team\_id)

where country<>team\_name;

Q3 - Find the matches where Virat Kohli scored with a greater strike rate than his Current strike rate.

A -

select match\_no as Match\_No,inning as innings,player\_name as PlayerName,aver as Average from

(select match\_no,inning,player\_name,avg(runs)\*100 as aver from

ball\_by\_ball\_batting natural join players

group by player\_name,match\_no,inning) as r1

natural join players

where player\_name='Virat Kohli' and aver>batting\_sr

order by match\_no,inning ;

Q4 - Find the top scorer in each match for both the teams.

A -

select distinct(r1.match\_no) as Match\_No,r1.inning as innings,r1.player\_name,team\_id,msco from

(select match\_no,inning,player\_name,team\_id,sum(runs) as sco from

ball\_by\_ball\_batting natural join players

group by player\_name,inning,match\_no,team\_id) as r1 join

(select match\_no,inning,MAX(sco) as msco from

(select match\_no,inning,player\_name,team\_id,sum(runs) as sco from

ball\_by\_ball\_batting natural join players

group by player\_name,inning,match\_no,team\_id) as r3 group by match\_no,inning) as r2

on (r2.msco=r1.sco and r2.match\_no=r1.match\_no and r2.inning=r1.inning)

order by r1.match\_no,r1.inning ;

Q5 - Find the top scorer in each match irrespective of the teams.

A-

select distinct(r1.match\_no) as Match\_No,r1.player\_name,team\_id,msco from

(select match\_no,player\_name,team\_id,sum(runs) as sco from

ball\_by\_ball\_batting natural join players

group by player\_name,match\_no,team\_id) as r1 join

(select match\_no,MAX(sco) as msco from

(select match\_no,player\_name,team\_id,sum(runs) as sco from

ball\_by\_ball\_batting natural join players

group by player\_name,match\_no,team\_id) as r3 group by match\_no) as r2

on (r1.sco=r2.msco and r2.match\_no=r1.match\_no)

order by r1.match\_no ;

Q6 - Find the matches where Ian Gould was the match official which was played at lords.

A -

select match\_no as MatchNo,date,match\_type as MatchType,official\_name as OfficialName,official\_type as OfficialType from

matches natural join venue natural join officials\_in

where official\_name='Ian Gould' and stadium\_name='Lords';

Q7 - Find the top 10 wicket-takers of the tournament.

A -

select player\_name,wickets from

(select bowl.player\_name,bat.ball\_event,count(\*) as wickets from

ball\_by\_ball\_batting as bat join ball\_by\_ball\_bowling as bowl on (bat.over\_no=bowl.over\_no and bat.match\_no=bowl.match\_no)

group by bowl.player\_name,bat.ball\_event) as r1

where r1.ball\_event='w'order by wickets desc

Limit 10;

Q8 - Find the top 10 Run-scorer of the tournament.

A -

select player\_name,R as runs from (select player\_name,count(\*) as R from

ball\_by\_ball\_batting group by player\_name) as r1

order by R desc Limit 10;

Q9 - Find the matches of India where representatives from Australia and England were Officials.

A -

select match\_no,team\_1,team\_2,name as OfficialName,age,country,official\_type from

matches natural join

(officials as r1 join officials\_in as r2 on (r1.name=r2.official\_name))

where (Team\_1='IND' or Team\_2='IND') and r1.country in ('Australia','England') order by match\_no;

Q10 - Find the top 5 innings where maximum boundaries were scored.

A -

select match\_no,inning,four,six,team\_id,(four+six) as boundarycount from

(select match\_no,inning,team\_id,four from (select match\_no,inning,team\_id,runs,count(\*) as four

from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r1

where runs=4 order by match\_no,inning,runs) as r2

natural join

(select match\_no,team\_id,inning,six from (select match\_no,inning,runs,team\_id,count(\*) as six

from ball\_by\_ball\_batting natural join players

group by match\_no,inning,runs,team\_id) as r3

where runs=6 order by match\_no,inning,runs) as r4

Order by boundarycount desc

LIMIT 5 ;

Q11 - Find the top 5 matches where maximum boundaries were scored.

A -

select match\_no,Team\_1,Team\_2,four,six,(four+six) as boundarycount from

((select match\_no,four from (select match\_no,runs,count(\*) as four

from ball\_by\_ball\_batting natural join matches

group by match\_no,runs) as r1

where runs=4 order by match\_no,runs) as r2

natural join

(select match\_no,six from

(select match\_no,runs,count(\*) as six from ball\_by\_ball\_batting

natural join matches

group by match\_no,runs) as r3 where runs=6 order by match\_no,runs) as r4)

natural join matches

Order by boundarycount desc LIMIT 5 ;

Q12 - Find the Top 5 High scores in the Tournament.

A -

select r3.match\_no,r1.player\_name,r3.Maxscore from (select match\_no,player\_name,sum(runs) as sco from ball\_by\_ball\_batting

group by match\_no,player\_name) as r1

join (select match\_no,player\_name,max(sco) as MaxScore from

(select match\_no,player\_name,sum(runs) as sco from ball\_by\_ball\_batting

group by match\_no,player\_name) as r2 group by match\_no,player\_name) as r3

on (r3.Maxscore=r1.sco)

order by Maxscore desc Limit 5;

Q13 - Find the Top 5 officials who were parts of most number of matches.

A -

select Official\_Name,No\_of\_Matches from

(select Official\_Name,count(\*) as No\_of\_Matches from officials\_In group by Official\_Name) as r1

order by No\_of\_Matches desc limit 5;

Q14 - Find the Top five Boundary getters.

A -

select player\_name,team\_id,four,six,(four+six) as boundarycount from

((select player\_name,four from

(select player\_name,team\_id,runs,count(\*) as four from

ball\_by\_ball\_batting natural join players

group by player\_name,team\_id,runs) as r1 where runs=4) as r2

natural join

(select player\_name,six from

(select player\_name,team\_id,runs,count(\*) as six from

ball\_by\_ball\_batting natural join players

group by player\_name,team\_id,runs) as r3 where runs=6) as r4)

natural join players

Order by boundarycount desc LIMIT 5 ;

Q15 - Find the top five Four scorer.

A -

select player\_name,team\_id,four from (select player\_name,four from

(select player\_name,team\_id,runs,count(\*) as four from

ball\_by\_ball\_batting natural join players

group by player\_name,team\_id,runs) as r1 where runs=4) as r2

natural join players

Order by four desc LIMIT 5 ;

Q15 - Find the top five Six scorer.

A -

select player\_name,team\_id,six from

(select player\_name,six from

(select player\_name,team\_id,runs,count(\*) as six from

ball\_by\_ball\_batting natural join players

group by player\_name,team\_id,runs) as r1 where runs=6) as r2

natural join players Order by six desc LIMIT 5 ;

Q16 - Find the Longest serving coaches(Top-3).

A -

select name, team\_id, coach\_since from (select name, team\_id, coach\_since from Support\_Staff\_Members) as r1 order by Coach\_Since limit 5;

Q17 - Find the runs scored by Indian Batsmen at Lords.

A -

select distinct(player\_name),matches,runs from

(select player\_name,stadium\_name,sum(runs) as runs,count(distinct(match\_no)) as matches from

ball\_by\_ball\_batting natural join matches group by player\_name,stadium\_name) as r1

natural join players

natural join matches

where team\_id='IND' and stadium\_name='Lords';

Q18 - Find the venue where the maximum total was scored by team and tell the match and team.

A-

select team\_id,match\_no,total,venue from

((select team\_id,match\_no,sum(run) as total,stadium\_name as venue from

(select \* from players as a join (select match\_no,stadium\_name,inning,player\_name,sum(runs) as run from (select \* from matches natural join ball\_by\_ball\_batting) as a

group by match\_no,player\_name,inning,stadium\_name) as b on a.player\_name = b.player\_name) as c group by match\_no,team\_id,stadium\_name) as y join

(select max(total) as mx from (select team\_id,match\_no,sum(run) as total,stadium\_name as venue from (select \* from players as a join (select match\_no,stadium\_name,inning,player\_name,sum(runs) as run from

(select \* from matches natural join ball\_by\_ball\_batting) as a

group by match\_no,player\_name,inning,stadium\_name) as b on a.player\_name = b.player\_name) as c group by match\_no,team\_id,stadium\_name) as z) as x on y.total = x.mx) as w

Q19 - Batting scorecard

A-

select PlayerName,run,team\_id,(run::numeric/outs::numeric) as average,100\*(run::numeric/balls::numeric) as strike\_rate from

(select PlayerName,balls,run,team\_id,count(\*) as outs from

((select player\_name as PlayerName,team\_id,sum(runs) as

run,count(runs) as balls from ball\_by\_ball\_batting natural join players where match\_no <= 18 and ball\_event='l' group by player\_name,team\_id ) as a left join

(select player\_name from ball\_by\_ball\_batting where match\_no <=18 and ball\_event = 'w') as b on a.PlayerName=b.player\_name) as c

group by PlayerName,run,balls,team\_id) as d order by run desc limit 10

Q20 – Bowling Scorecard

A-

select team\_id,PlayerName,run,ball,wickets,wides,no\_balls,(6\*(run::numeric/ball::numeric))::numeric as economy from (select PlayerName,coalesce(run, 0) as run,ball,coalesce(wickets, 0) as wickets,coalesce(wides, 0) as wides,coalesce(no\_balls, 0) as no\_balls from

((select PlayerName,team\_id,run,wickets,ball from

((select player\_name as PlayerName,team\_id,sum(runs) as run,count(\*) as ball from

(select \* from ((select player\_name,inning,team\_id,over\_no from ball\_by\_ball\_bowling natural join players where match\_no = 1) as a join

(select ball\_event,runs,inning,over\_no from ball\_by\_ball\_batting where match\_no=1) as b on (a.inning=b.inning and a.over\_no=b.over\_no)) as c) as d

group by player\_name,team\_id) as m left join

(select player\_name,count(\*) as wickets from ((select player\_name,inning,over\_no from ball\_by\_ball\_bowling where match\_no = 1) as a join

(select ball\_event,runs,inning,over\_no,ball\_no from ball\_by\_ball\_batting where match\_no=1) as b on (a.inning=b.inning and a.over\_no=b.over\_no)) as c

where ball\_event='w' group by player\_name) as n on m.PlayerName = n.player\_name) as o) as p left join

(select player\_name,count(\*) as wides from ((select player\_name,inning,over\_no from ball\_by\_ball\_bowling where match\_no = 1) as a join

(select ball\_event,runs,inning,over\_no,ball\_no from ball\_by\_ball\_batting where match\_no=1) as b on (a.inning=b.inning and a.over\_no=b.over\_no)) as c

where ball\_event='wd' group by player\_name) as q on p.PlayerName=q.player\_name) as r left join

(select player\_name,count(\*) as no\_balls from ((select player\_name,inning,over\_no from ball\_by\_ball\_bowling where match\_no = 1) as a join

(select ball\_event,runs,inning,over\_no,ball\_no from ball\_by\_ball\_batting where match\_no=1) as b on (a.inning=b.inning and a.over\_no=b.over\_no)) as c

where ball\_event='n' group by player\_name) as s on r.PlayerName=s.player\_name) as u join players as v on u.PlayerName=v.player\_name

Q21 - Top 10 batsman upto particular match

A-

select PlayerName,run,team\_id,(run::numeric/outs::numeric) as average from (select PlayerName,run,team\_id,count(\*) as outs from ((select player\_name as PlayerName,team\_id,sum(runs) as run from ball\_by\_ball\_batting natural join players where match\_no <= 18

group by player\_name,team\_id ) as a left join

(select player\_name from ball\_by\_ball\_batting where match\_no <=18 and ball\_event = 'w') as b on a.PlayerName=b.player\_name)

as c group by PlayerName,run,team\_id) as d order by run desc limit 10

Q22 - Top 10 bowlers

A-

select bowler,team\_id,wickets,(balls::numeric/wickets::numeric) as average,6\*(runs::numeric/balls::numeric) as economy from ((select bowler,count(\*) as wickets,team\_id from (select a.player\_name as bowler,b.player\_name as batsman,team\_id from (ball\_by\_ball\_bowling natural join players) as a join ball\_by\_ball\_batting as b on (a.inning = b.inning and a.over\_no=b.over\_no and a.match\_no=b.match\_no) where a.match\_no<=18 and b.ball\_event='w' ) as c

group by bowler,team\_id) as d join

(select a.player\_name,count(\*) as balls,sum(runs) as runs from (ball\_by\_ball\_bowling natural join players) as a join ball\_by\_ball\_batting as b on (a.inning = b.inning and a.over\_no=b.over\_no and

a.match\_no=b.match\_no) where a.match\_no<=18 group by a.player\_name) as e on d.bowler = e.player\_name) as f order by wickets desc limit 10

Q23 - Finding projected score

A-

select run,(run::numeric/5::numeric) as crr,(run + crr\*(10-5)) as at\_current\_rpo,(run + 6\*(10-5)) as at\_6\_rpo, (run + 8\*(10-5)) as at\_8\_rpo,(run + 10\*(10-5)) as at\_10\_rpo from (select run,(run::numeric/5::numeric) as crr from (select sum(runs) as run from ball\_by\_ball\_batting where match\_no = 1 and inning = 1 and over\_no <= 5) as a) as z

Q24 - Top 10 strike rates upto perticular match

A-

select player\_name,team\_id,100\*(runs::numeric/balls::numeric) as strike\_rate from

(select player\_name,sum(runs) as runs, count(runs) as balls,team\_id from (ball\_by\_ball\_batting natural join players) where match\_no<=18 and ball\_event='l'

group by player\_name,team\_id) as a order by strike\_rate desc limit 10

Q25 - Top 10 bowlers in terms of average upto particular match

A-

select bowler,team\_id,(balls::numeric/wickets::numeric) as average from ((select bowler,count(\*) as wickets,team\_id from (select a.player\_name as bowler,b.player\_name as batsman,team\_id from (ball\_by\_ball\_bowling natural join players) as a join ball\_by\_ball\_batting as b on (a.inning = b.inning and a.over\_no=b.over\_no and a.match\_no=b.match\_no) where a.match\_no<=18 and b.ball\_event='w' ) as c group by bowler,team\_id) as d join

(select a.player\_name,count(\*) as balls,sum(runs) as runs from (ball\_by\_ball\_bowling natural join players) as a join ball\_by\_ball\_batting as b on (a.inning = b.inning and a.over\_no=b.over\_no and

a.match\_no=b.match\_no) where a.match\_no<=18 group by a.player\_name) as e on d.bowler = e.player\_name) as f order by average desc limit 10

Q26 – Top 10 bowlers in terms of economy upto particular match

A-

select bowler,team\_id,(balls::numeric/wickets::numeric) as average from ((select bowler,count(\*) as wickets,team\_id from (select a.player\_name as bowler,b.player\_name as batsman,team\_id from (ball\_by\_ball\_bowling natural join players) as a join ball\_by\_ball\_batting as b on (a.inning = b.inning and a.over\_no=b.over\_no and a.match\_no=b.match\_no) where a.match\_no<=18 and b.ball\_event='w' ) as c group by bowler,team\_id) as d join

(select a.player\_name,count(\*) as balls,sum(runs) as runs from (ball\_by\_ball\_bowling natural join players) as a join ball\_by\_ball\_batting as b on (a.inning = b.inning and a.over\_no=b.over\_no and

a.match\_no=b.match\_no) where a.match\_no<=18 group by a.player\_name) as e on d.bowler = e.player\_name) as f order by economy desc limit 10