

## Query

1. CREATE TABLE matches(id int, city varchar, date date, player\_of\_match varchar, venue varchar, neutral\_value int, team1 varchar, team2 varchar, toss\_winner varchar, toss\_decision varchar, winner varchar, result varchar, result\_margin int, eliminator varchar, method varchar, umpire1 varchar, umpire2 varchar);
2. CREATE TABLE deliveries (match\_id int, inning int, over int, ball int, batsman varchar, non\_striker varchar, bowler varchar, batsman\_runs int, extra\_runs int, total\_runs int, wicket\_ball int, dismissal\_kind varchar, player\_dismissed varchar, fielder varchar, extras\_type varchar, batting\_team varchar, bowling\_team varchar);
3. COPY matches FROM 'C:\Program Files\PostgreSQL\14\data\IPL\IPL\_matches.csv' DELIMITER ',' CSV HEADER;  
SELECT \* from matches;
4. COPY deliveries FROM 'C:\Program Files\PostgreSQL\14\data\IPL\IPL\_Ball.csv' DELIMITER ',' CSV HEADER;  
SELECT \* from deliveries;
5. SELECT \* from deliveries limit 20;
6. SELECT \* from matches limit 20;
7. SELECT \* from matches where date = '2013-05-02';
8. SELECT \* from matches where result\_margin > 100;
9. SELECT \* from matches where result = 'tie' order by date desc;
10. SELECT count(distinct city) from matches;
11. CREATE table deliveries\_v02 as select \*,  
CASE WHEN total\_runs >= 4 then 'boundary'  
WHEN total\_runs = 0 THEN 'dot'  
else 'other'  
END as ball\_result  
FROM deliveries;
12. SELECT count(ball\_result) from deliveries\_v02 where ball\_result='boundary';  
SELECT count(ball\_result) from deliveries\_v02 where ball\_result='dot';  
SELECT count(ball\_result) from deliveries\_v02 where ball\_result='other';
13. SELECT batting\_team , count(ball\_result) as boundary\_count from deliveries\_v02  
where ball\_result = 'boundary' group by batting\_team order by boundary\_count  
desc;

14. SELECT batting\_team , count(ball\_result) as dot\_count from deliveries\_v02 where ball\_result = 'dot' group by batting\_team order by dot\_count desc;
15. SELECT dismissal\_kind, count(dismissal\_kind) as Dis\_count from deliveries\_v02 group by dismissal\_kind order by Dis\_count desc;
16. SELECT bowler, count(extra\_runs) as Total\_Extra from deliveries\_v02 group by bowler order by Total\_Extra desc limit 5;
17. create table deliveries\_v03 AS SELECT a.\*, b.venue, b.match\_date from deliveries\_v02 as a left join (select max(venue) as venue, max(date) as match\_date, id from matches group by id) as b on a.match\_id = b.id;
18. SELECT venue, sum(total\_runs) as TOTAL from deliveries\_v03 group by venue order by TOTAL desc;
19. SELECT sum(total\_runs) as totrun, extract(year from match\_date) as my from deliveries\_v03 where venue ='Eden Gardens' group by my order by totrun desc;
20. CREATE table matches\_corrected as select \*, replace(team1, 'Rising Pune Supergiants', 'Rising Pune Supergiant') as team1\_corr , replace(team2, 'Rising Pune Supergiants', 'Rising Pune Supergiant') as team2\_corr from matches;  
SELECT distinct team1\_corr from matches\_corrected;  
SELECT \* from matches\_corrected;
21. CREATE table deliveries\_v04 as select concat(match\_id,'-',inning,'-',over,'-',ball) as ball\_id, \* from deliveries\_v03
22. SELECT count(distinct ball\_id) from deliveries\_v04;  
SELECT count(\*) from deliveries\_v04; --difference of 10 because it deleted all the duplicate value
23. CREATE table deliveries\_v05 as select \*, row\_number() over (partition by ball\_id) as r\_num from deliveries\_v04;
24. SELECT count(\*) from deliveries\_v05;  
SELECT sum(r\_num) from deliveries\_v05;  
SELECT \* from deliveries\_v05 order by r\_num desc limit 20;  
SELECT \* from deliveries\_v05 WHERE r\_num=2;
25. SELECT \* FROM deliveries\_v05 WHERE ball\_id in (select BALL\_ID from deliveries\_v05 WHERE r\_num=2);