

I have created below tables based on IPL matches held in previous 12 years and performed following queries on it to get required information.

--query 1

```
CREATE TABLE matches (  
  match_id int,  
  city varchar,  
  date date,  
  player_of_match varchar,  
  venue varchar,  
  neutral_venue int,  
  team1 varchar,  
  team2 varchar,  
  toss_winner varchar,  
  toss_decision varchar,  
  winner varchar,  
  result_mode varchar,  
  result_margin int,  
  eliminator varchar,  
  method_dl varchar,  
  umpire1 varchar,  
  umpire2 varchar  
);
```

--query 2

```
drop table deliveries;  
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  
);
```

```
--query 3
```

```
select * from deliveries limit 20;
```

```
--query 4
```

```
select * from matches limit 20;
```

```
--query 5
```

```
select * from matches where date = '02-05-2013';
```

```
--query 6
```

```
select * from matches where result_mode = 'runs' and result_margin > 100;
```

```
--query 7
```

```
select * from matches where result_mode = 'tie' order by date desc;
```

```
--query 8
```

```
select count (distinct city) from matches;
```

```
--query 9
```

```
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;
```

```
--query
```

```
select ball_result, count (*) from deliveries_v02 group by ball_result;
```

```
--query
```

```
select batting_team, count(*) from deliveries_v02 where ball_result = 'boundary' group by  
batting_team order by count desc;
```

```
--query 12
```

```
select bowling_team, count(*) from deliveries_v02 where ball_result = 'dot' group by bowling_team  
order by count desc;
```

```
--query 13
```

```
select dismissal_kind, count (*) from deliveries where dismissal_kind <> 'NA' group by dismissal_kind  
order by count desc;
```

```
--query 14
```

```
select bowler, sum(extra_runs) as total_extra_runs from deliveries group by bowler order by  
total_extra_runs desc limit 5;
```

```
--query
```

```
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, match_id from matches group by  
match_id) as b
```

```
on a.match_id = b.match_id;
```

```
--query 16
```

```
select venue, sum(total_runs) as runs from deliveries_v03 group by venue order by runs desc;
```

```
--query
```

```
select extract(year from match_date) as IPL_year, sum(total_runs) as runs from deliveries_v03  
where venue = 'Eden Gardens' group by IPL_year order by runs desc;
```

```
--query 18
```

```
select distinct team1 from matches;
```

```
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;
```

```
--query 19
```

```
create table deliveries_v04 as select concat(match_id, '-',inning, '-',over, '-',ball) as ball_id, * from  
deliveries_v03;
```

```
--query 20
```

```
select * from deliveries_v04 limit 20;
```

```
select count(distinct ball_id) from deliveries_v04;
```

```
select count(*) from deliveries_v04;
```

```
--query 21
```

```
drop table deliveries_v05;
```

```
create table deliveries_v05 as select *, row_number() over (partition by ball_id) as r_num from deliveries_v04;
```

```
--query 22
```

```
select count(*) from deliveries_v05;
```

```
select sum(r_num) from deliveries_v05;
```

```
select * from deliveries_v05 order by r_num limit 20;
```

```
select * from deliveries_v05 WHERE r_num=2;
```

```
--query 23
```

```
SELECT * FROM deliveries_v05 WHERE ball_id in (select BALL_ID from deliveries_v05 WHERE r_num=2);
```