IPL DATA CASE STUDY

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Create database ipl;
use ipl;
CREATE TABLE matches (
     id INT PRIMARY KEY,
     season INT,
     city VARCHAR (50),
     date DATE,
     team1 VARCHAR(50),
     team2 VARCHAR(50),
     toss winner VARCHAR (50),
     toss decision VARCHAR (50),
     result VARCHAR (50),
     dl applied INT,
     winner VARCHAR (50),
     win by runs INT,
     win by wickets INT,
     player of match VARCHAR(50),
     venue VARCHAR (100),
     umpire1 VARCHAR(50),
     umpire2 VARCHAR(50),
     umpire3 VARCHAR(50)
);
select * from matches;
CREATE TABLE deliveries (
   match_id INTEGER NOT NULL,
inning INTEGER NOT NULL,
batting_team VARCHAR(50) NOT NULL,
bowling_team VARCHAR(50) NOT NULL,
over_no INTEGER NOT NULL,
ball INTEGER NOT NULL,
batsman VARCHAR(50) NOT NULL,
non_striker VARCHAR(50) NOT NULL,
bowler VARCHAR(50) NOT NULL,
is super over no BIT NOT NULL,
   is super over no BIT NOT NULL,
   total runs
   player dismissed VARCHAR(50),
   dismissal kind VARCHAR(50),
   fielder
                          VARCHAR (50)
);
select * from deliveries;
select player of match, count(*) as awards count
from matches group by player of match
order by awards count desc
limit 5;
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select season, winner as team, count(*) as matches won
from matches group by season, winner;
#Q3
select avg(strike rate) as average strike rate
select batsman, (sum(total runs)/count(ball))*100 as strike_rate
from deliveries group by batsman) as batsman stats;
#04
select batting first, count(*) as matches won
select case when win by runs>0 then team1
else team2
end as batting first
from matches
where winner!="Tie") as batting first teams
group by batting first;
#Q5
select batsman, (sum(batsman runs)*100/count(*))
as strike rate
from deliveries group by batsman
having sum(batsman runs)>=200
order by strike rate desc
limit 1;
#06
select batsman,count(*) as total dismissals
from deliveries
where player_dismissed is not null
and bowler='SL Malinga'
group by batsman;
#Q7
select batsman, avg(case when batsman runs=4 or batsman runs=6
then 1 else 0 end) *100 as average boundaries
from deliveries group by batsman;
#08
select season, batting team, avg (fours+sixes) as average boundaries
from (select season, match id, batting team,
sum(case when batsman runs=4 then 1 else 0 end)as fours,
sum(case when batsman runs=6 then 1 else 0 end) as sixes
from deliveries, matches
where deliveries.match id=matches.id
group by season, match id, batting team) as team bounsaries
group by season, batting team;
#09
select season, batting team, max(total runs) as highest partnership
from(select season, batting team, partnership, sum(total runs) as total runs
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from (select season, match id, batting team, over no,
sum(batsman runs) as partnership, sum(batsman runs) + sum(extra runs) as
total runs
from deliveries, matches where deliveries.match_id=matches.id
group by season, match id, batting team, over no) as team scores
group by season, batting team, partnership) as highest partnership
group by season, batting team;
#010
select m.id as match no,d.bowling team,
sum(d.extra runs) as extras
from matches as m
join deliveries as d on d.match id=m.id
where extra runs>0
group by m.id, d.bowling team;
#Q11
select m.id as match no,d.bowler,count(*) as wickets taken
from matches as m
join deliveries as d on d.match id=m.id
where d.player dismissed is not null
group by m.id, d.bowler
order by wickets_taken desc
limit 1;
#Q12
select m.city, case when m.team1=m.winner then m.team1
when m.team2=m.winner then m.team2
else 'draw'
end as winning team,
count(*) as wins
from matches as m
join deliveries as d on d.match id=m.id
where m.result!='Tie'
group by m.city, winning team;
#Q13
select season, toss winner, count(*) as toss wins
from matches group by season, toss winner;
#014
select player of match, count(*) as total wins
from matches
where player of match is not null
group by player of match
order by total wins desc;
#Q15
select m.id, d.inning, d.over no,
avg(d.total runs) as average runs per over
from matches as m
join deliveries as d on d.match id=m.id
group by m.id, d.inning, d.over no;
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#Q16
select m.season,m.id as match_no,d.batting_team,
sum(d.total_runs) as total_score
from matches as {\tt m}
join deliveries as d on d.match id=m.id
group by m.season,m.id,d.batting_team
order by total score desc
limit 1;
#Q17
select m.season,m.id as match_no,d.batsman,
sum(d.batsman_runs) as total_runs
from matches as {\tt m}
join deliveries as d on d.match id=m.id
group by m.season,m.id,d.batsman
order by total_runs desc
limit 1;
```