```
Create database IPL;
Use IPL;
CREATE TABLE deliveries
  match id INT NOT NULL,
  inning INT NOT NULL,
  batting_team VARCHAR(255) NOT NULL,
  bowling_team VARCHAR(255) NOT NULL,
  over no INT NOT NULL,
  ball INT NOT NULL,
  batsman VARCHAR(255) NOT NULL,
  non_striker VARCHAR(255) NOT NULL,
  bowler VARCHAR(255) NOT NULL,
  is super over INT NOT NULL,
  wide_run INT NOT NULL,
  bye_run INT NOT NULL,
  no ball run INT NOT NULL,
  penalty run INT NOT NULL,
  batsman_run INT NOT NULL,
  extra_run INT NOT NULL,
  total_run INT NOT NULL,
  player_dismissed VARCHAR(255) NOT NULL,
  dismissal kind VARCHAR(255) NOT NULL,
  fielder VARCHAR(255) NOT NULL,
  PRIMARY KEY (match_id, inning, over_no, ball)
);
CREATE TABLE matches
  id INT NOT NULL,
  season INT NOT NULL,
  city VARCHAR(255) NOT NULL,
  team_1 VARCHAR(255) NOT NULL,
  team_2 VARCHAR(255) NOT NULL,
  toss_winner VARCHAR(255) NOT NULL,
  toss decision VARCHAR(255) NOT NULL,
  result VARCHAR(255) NOT NULL,
  dl applied INT NOT NULL,
  winner VARCHAR(255) NOT NULL,
  win by runs INT NOT NULL,
  win by wickets INT NOT NULL,
  player of match VARCHAR(255) NOT NULL,
  venue VARCHAR(255) NOT NULL,
  umpire_1 VARCHAR(255) NOT NULL,
  umpire_2 VARCHAR(255) NOT NULL,
  umpire_3 VARCHAR(255) NOT NULL,
  PRIMARY KEY (id)
);
```

```
Select * from deliveries;
Select * from matches;
```

# -- WHAT ARE THE TOP 5 PLAYERS WITH THE MOST PLAYER OF THE MATCH AWARDS?

Select player\_of\_match, count(\*) as match\_award from matches group by player\_of\_match order by match\_award desc limit 5;

## -- HOW MANY MATCHES WERE WON BY EACH TEAM IN EACH SEASON?

Select season, winner, count(\*) as won\_match from matches group by season, winner;

# -- WHAT IS THE AVERAGE STRIKE RATE OF BATSMEN IN THE IPL DATASET?

Select (avg(total\_runs/total\_balls)\* 100) as avg\_strike\_rate from (
Select batsman, sum(batsman\_runs) as total\_runs, count(ball) as total\_balls from deliveries group by batsman) as individual\_strike\_rates;

# -- WHAT IS THE NUMBER OF MATCHES WON BY EACH TEAM BATTING FIRST VERSUS BATTINGSECOND?

SELECT batsman, (total\_runs \* 100.0 / total\_balls) AS strike\_rate FROM (SELECT batsman, SUM(batsman\_runs) AS total\_runs, COUNT(\*) AS total\_balls FROM deliveries GROUP BY batsman) AS subquery WHERE total\_runs >= 200 ORDER BY strike\_rate DESC LIMIT 1;

# -- WHICH BATSMAN HAS THE HIGHEST STRIKE RATE (MINIMUM 200 RUNS SCORED)?

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;

#### -- HOW MANY TIMES HAS EACH BATSMAN BEEN DISMISSED BY THE BOWLER 'MALINGA'?

select batsman,count(\*) as total\_dismissals from deliveries where player\_dismissed is not null and bowler='SL Malinga' group by batsman;

-- WHAT IS THE AVERAGE PERCENTAGE OF BOUNDARIES (FOURS AND SIXESCOMBINED) HIT BY EACH BATSMAN?

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;

- -- WHAT IS THE AVERAGE NUMBER OF BOUNDARIES HIT BY EACH TEAM IN EACH SEASON? 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;
- -- WHAT IS THE HIGHEST PARTNERSHIP (RUNS) FOR EACH TEAM IN EACH SEASON? select season, batting\_team, max(total\_runs) as highest\_partnership from(select season, batting\_team, partnership, sum(total\_runs) as total\_runs 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;
- -- How MANY EXTRAS (WIDES & NO-BALLS) WERE BOWLED BY EACH TEAM IN EACH MATCH? 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;
- -- WHICH BOWLER HAS THE BEST BOWLING FIGURES (MOST WICKETS TAKEN) IN A SINGLE EACH MATCH?

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;

# -- HOW MANY MATCHES RESULTED IN A WIN FOR EACH TEAM IN EACH CITY?

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;

## -- HOW MANY TIMES DID EACH TEAM WIN THE TOSS IN EACH SEASON?

select season,toss\_winner,count(\*) as toss\_wins from matches group by season,toss\_winner;

-- HOW MANY MATCHES DID EACH PLAYER WIN THE "PLAYER OF THE MATCH" AWARD MATCH? 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;

## -- WHAT IS THE AVERAGE NUMBER OF RUNS SCORED IN EACH OVER OF THE INNINGS IN

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;

-- WHICH TEAM HAS THE HIGHEST TOTAL SCORE IN A SINGLE MATCH? select m.season,m.id as match\_no,d.batting\_team, sum(d.total\_runs) as total\_score from matches as 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;

-- WHICH BATSMAN HAS SCORED THE MOST RUNS IN A SINGLE MATCH? select m.season,m.id as match\_no,d.batsman, sum(d.batsman\_runs) as total\_runs from matches as m join deliveries as d on d.match\_id=m.id group by m.season,m.id,d.batsman order by total runs desc