CREATE TABLE ipl\_matches (

match\_id INT PRIMARY KEY AUTO\_INCREMENT,

season YEAR NOT NULL,

match\_date DATE NOT NULL,

venue VARCHAR(100),

-- Team 1 information

team1\_id INT,

team1\_name VARCHAR(50),

team1\_city VARCHAR(50),

team1\_captain\_id INT,

team1\_captain\_name VARCHAR(100),

-- Team 2 information

team2\_id INT,

team2\_name VARCHAR(50),

team2\_city VARCHAR(50),

team2\_captain\_id INT,

team2\_captain\_name VARCHAR(100),

-- Match results

toss\_winner\_id INT,

toss\_decision VARCHAR(10),

match\_winner\_id INT,

win\_by\_runs INT,

win\_by\_wickets INT,

-- Player of the match

player\_of\_match\_id INT,

player\_of\_match\_name VARCHAR(100),

player\_batting\_style VARCHAR(50),

player\_bowling\_style VARCHAR(50),

-- Batting performance (for player of match)

runs\_scored INT,

balls\_faced INT,

fours INT,

sixes INT,

strike\_rate DECIMAL(5,2),

-- Bowling performance (for player of match)

overs\_bowled DECIMAL(3,1),

runs\_conceded INT,

wickets\_taken INT,

maidens INT,

economy\_rate DECIMAL(5,2)

);

-- Sample data for 5 matches

INSERT INTO ipl\_matches VALUES

(1, 2023, '2023-04-09', 'Wankhede Stadium',

1, 'Mumbai Indians', 'Mumbai', 101, 'Rohit Sharma',

2, 'Chennai Super Kings', 'Chennai', 102, 'MS Dhoni',

1, 'bat', 1, 15, NULL,

101, 'Rohit Sharma', 'Right-handed', 'Right-arm offbreak',

65, 45, 5, 3, 144.44,

NULL, NULL, NULL, NULL, NULL),

(2, 2023, '2023-04-10', 'M. Chinnaswamy Stadium',

3, 'Royal Challengers Bangalore', 'Bangalore', 103, 'Virat Kohli',

4, 'Kolkata Knight Riders', 'Kolkata', 104, 'Andre Russell',

3, 'field', 4, NULL, 6,

104, 'Andre Russell', 'Right-handed', 'Right-arm fast',

80, 40, 4, 8, 200.00,

4.0, 35, 2, 0, 8.75),

(3, 2023, '2023-04-11', 'Eden Gardens',

4, 'Kolkata Knight Riders', 'Kolkata', 104, 'Andre Russell',

5, 'Delhi Capitals', 'Delhi', 105, 'Rishabh Pant',

5, 'bat', 5, 25, NULL,

105, 'Rishabh Pant', 'Left-handed', NULL,

78, 50, 6, 4, 156.00,

NULL, NULL, NULL, NULL, NULL),

(4, 2023, '2023-04-12', 'Arun Jaitley Stadium',

5, 'Delhi Capitals', 'Delhi', 105, 'Rishabh Pant',

1, 'Mumbai Indians', 'Mumbai', 101, 'Rohit Sharma',

1, 'field', 5, NULL, 7,

106, 'Jasprit Bumrah', 'Right-handed', 'Right-arm fast',

NULL, NULL, NULL, NULL, NULL,

4.0, 18, 4, 1, 4.50),

(5, 2023, '2023-04-13', 'M. A. Chidambaram Stadium',

2, 'Chennai Super Kings', 'Chennai', 102, 'MS Dhoni',

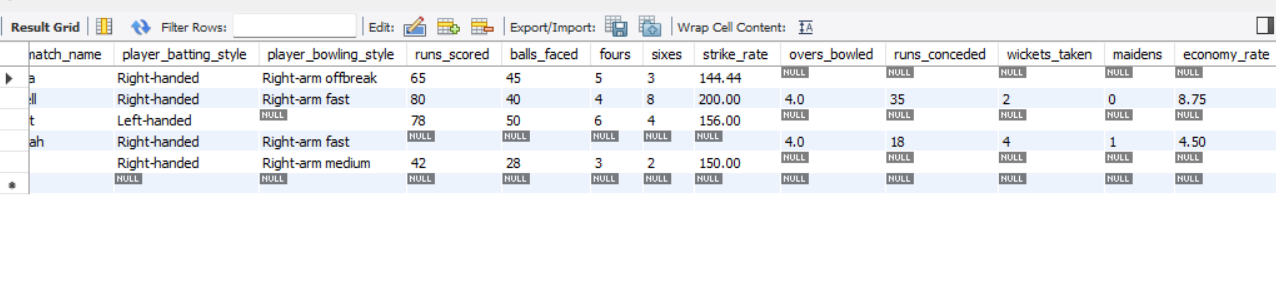
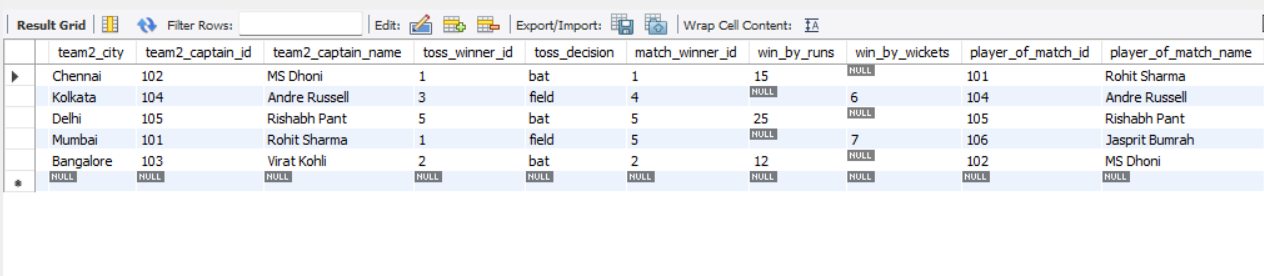
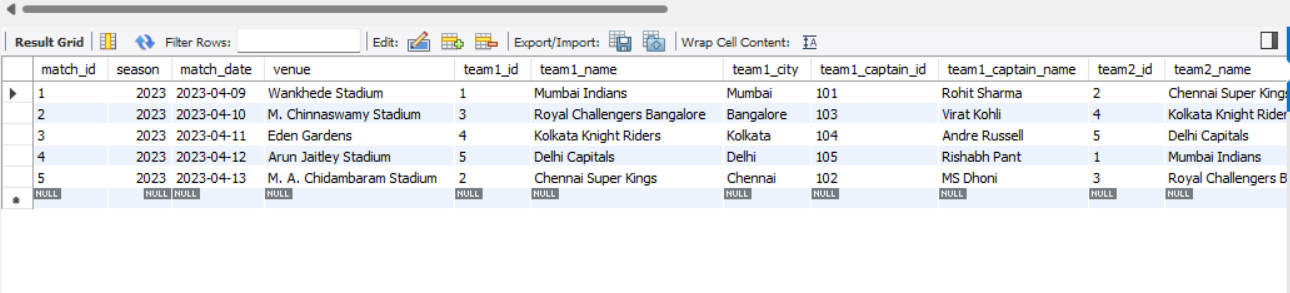
3, 'Royal Challengers Bangalore', 'Bangalore', 103, 'Virat Kohli',

2, 'bat', 2, 12, NULL,

102, 'MS Dhoni', 'Right-handed', 'Right-arm medium',

42, 28, 3, 2, 150.00,

NULL, NULL, NULL, NULL, NULL);

Output:

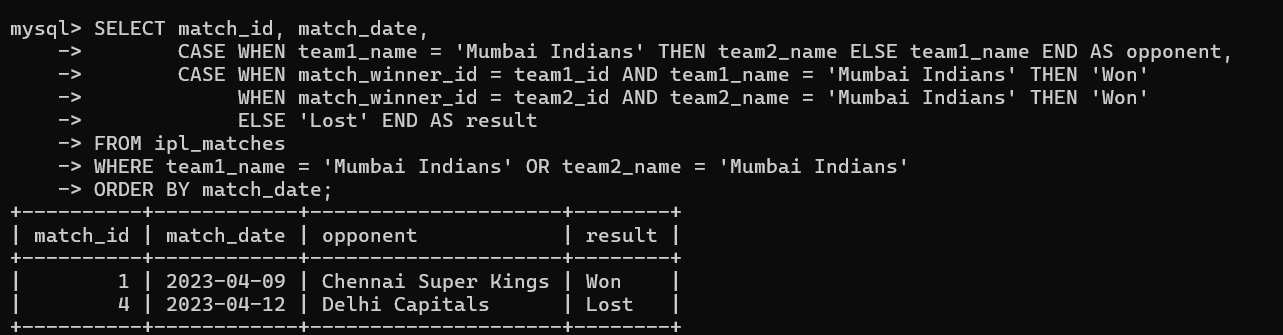
Queries:-

SELECT player\_name, batting\_style, bowling\_style

FROM players

WHERE team\_id = (SELECT team\_id FROM teams WHERE team\_name = 'Mumbai Indians')

ORDER BY player\_name;



SELECT m.match\_id, t1.team\_name AS team1, t2.team\_name AS team2, m.win\_by\_runs

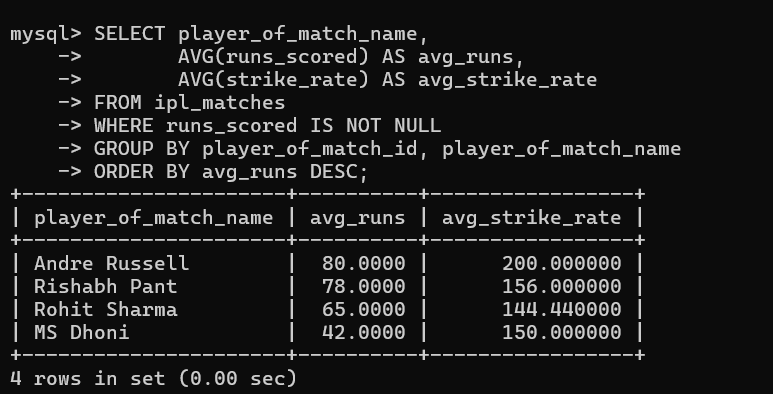
FROM matches m

JOIN teams t1 ON m.team1\_id = t1.team\_id

JOIN teams t2 ON m.team2\_id = t2.team\_id

WHERE m.win\_by\_runs > 20

ORDER BY m.win\_by\_runs DESC;



SELECT p.player\_name, AVG(bs.runs\_scored) AS avg\_runs,

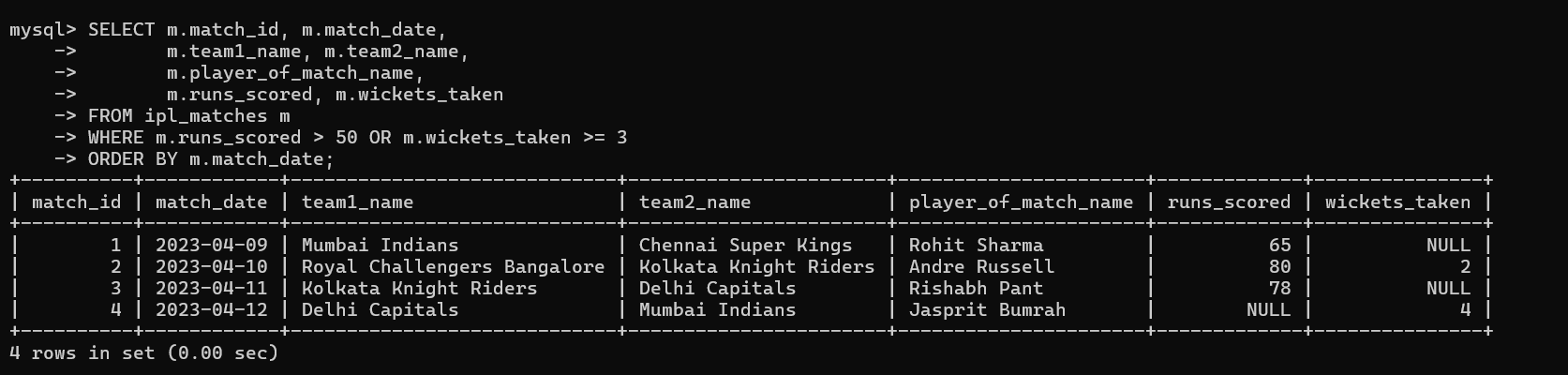
MAX(bs.runs\_scored) AS highest\_score

FROM batting\_stats bs

JOIN players p ON bs.player\_id = p.player\_id

GROUP BY p.player\_id

ORDER BY avg\_runs DESC;



SELECT m.match\_id, m.match\_date,

t1.team\_name AS team1, t2.team\_name AS team2,

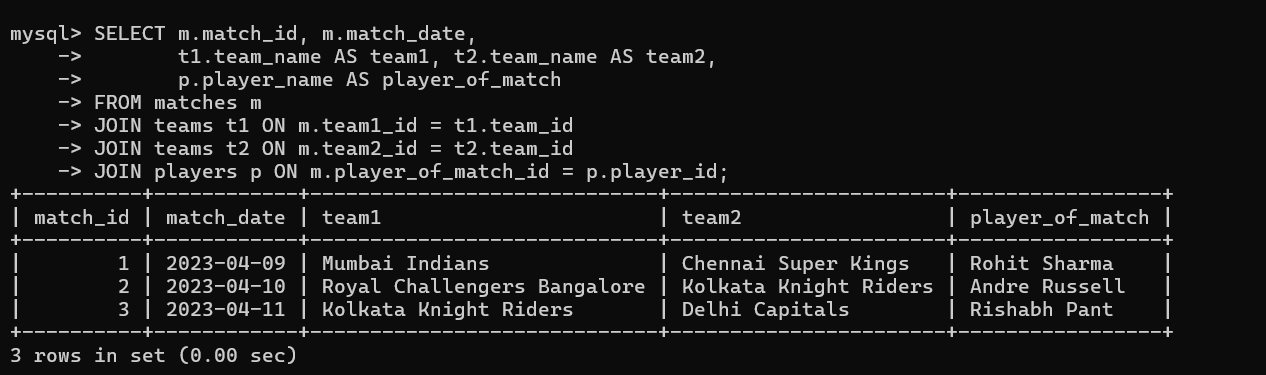
p.player\_name AS player\_of\_match

FROM matches m

JOIN teams t1 ON m.team1\_id = t1.team\_id

JOIN teams t2 ON m.team2\_id = t2.team\_id

JOIN players p ON m.player\_of\_match\_id = p.player\_id;



SELECT p.player\_name

FROM players p

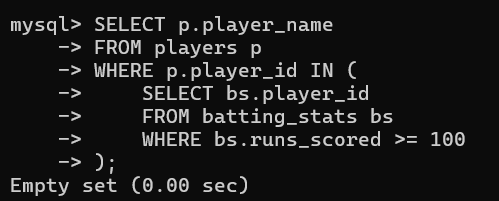
WHERE p.player\_id IN (

SELECT bs.player\_id

FROM batting\_stats bs

WHERE bs.runs\_scored >= 100

);



CREATE VIEW match\_summaries AS

SELECT m.match\_id, m.match\_date,

t1.team\_name AS team1, t2.team\_name AS team2,

tw.team\_name AS winner,

CASE

WHEN m.win\_by\_runs > 0 THEN CONCAT('by ', m.win\_by\_runs, ' runs')

ELSE CONCAT('by ', m.win\_by\_wickets, ' wickets')

END AS result,

p.player\_name AS player\_of\_match

FROM matches m

JOIN teams t1 ON m.team1\_id = t1.team\_id

JOIN teams t2 ON m.team2\_id = t2.team\_id

JOIN teams tw ON m.match\_winner\_id = tw.team\_id

JOIN players p ON m.player\_of\_match\_id = p.player\_id;

