1. **Modes of Dismissal for Rohit Sharma in ODIs:**

SELECT match\_date, venue, bowler, dismissal\_kind

FROM ODI

WHERE player\_name = 'RG Sharma'

AND dismissal\_kind IN ('caught', 'bowled', 'caught and bowled', 'lbw',

'run out', 'stumped', 'retired hurt', 'timed out');

1. **Teams Scoring the Most Runs in the Powerplay IPL 2024:**

WITH BallByBall AS (

SELECT

match\_date,

venue,

team\_name,

inning\_number,

runs\_scored,

SUM(balls\_faced) OVER (

PARTITION BY match\_date, venue, team\_name, inning\_number

ORDER BY match\_date, venue, team\_name, inning\_number

ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW

) AS ball\_number

FROM IPL

WHERE year = 2024

),

PowerplayRuns AS (

SELECT

match\_date,

venue,

team\_name,

inning\_number,

SUM(runs\_scored) AS powerplay\_runs

FROM BallByBall

WHERE ball\_number <= 36

GROUP BY match\_date, venue, team\_name, inning\_number

)

SELECT

team\_name,

SUM(powerplay\_runs) AS total\_powerplay\_runs,

ROUND(AVG(powerplay\_runs), 2) AS avg\_powerplay\_runs\_per\_match

FROM PowerplayRuns

GROUP BY team\_name

ORDER BY total\_powerplay\_runs DESC;

1. **Analysis of CA Pujara's Total Runs and Balls Faced in Test Cricket:**

SELECT

player\_name AS player,

match\_date,

SUM(balls\_faced) AS total\_balls\_faced,

SUM(runs\_scored) AS total\_runs\_scored,

SUM(fours) AS total\_fours,

SUM(sixes) AS total\_sixes,

ROUND(AVG(strike\_rate), 2) AS average\_strike\_rate

FROM Test

WHERE player\_name = 'CA Pujara'

GROUP BY match\_date, player\_name

ORDER BY match\_date;

1. **Top 5 Players with the Best Batting Strike Rates in IPL Since 2020:**

SELECT player\_name,

ROUND(SUM(runs\_scored) / SUM(balls\_faced) \* 100, 2) AS batting\_strike\_rate

FROM IPL

WHERE Year > 2020

GROUP BY player\_name

ORDER BY batting\_strike\_rate DESC

LIMIT 10;

1. **Evaluating Bowler Consistency in Test Cricket:**

SELECT

bowler,

COUNT(DISTINCT match\_date) AS matches\_played,

SUM(wickets\_taken) AS total\_wickets,

ROUND(SUM(balls\_bowled) / 6, 2) AS total\_overs\_bowled,

ROUND(SUM(runs\_conceded) / (SUM(balls\_bowled) / 6), 2) AS economy\_rate,

ROUND(SUM(runs\_conceded) / NULLIF(SUM(wickets\_taken), 0), 2) AS bowling\_average,

ROUND(SUM(balls\_bowled) / NULLIF(SUM(wickets\_taken), 0), 2) AS strike\_rate

FROM (

SELECT

match\_date,

bowler,

SUM(wickets\_taken) AS wickets\_taken,

SUM(balls\_bowled) AS balls\_bowled,

SUM(runs\_conceded) AS runs\_conceded

FROM test

WHERE bowler IS NOT NULL

GROUP BY match\_date, bowler

) AS bowler\_stats

GROUP BY bowler

ORDER BY total\_wickets DESC, economy\_rate ASC;

1. **Virat Kohli's Performance Against Australia's Frontline Bowlers in Test Cricket:**

SELECT

player\_name,

bowler,

SUM(runs\_scored) AS total\_runs\_scored,

SUM(balls\_faced) AS total\_balls\_faced,

SUM(runs\_conceded) AS total\_runs\_conceded,

SUM(wickets\_taken) AS total\_wickets\_taken

FROM Test

WHERE player\_name = 'V Kohli'

AND bowler IN ('PJ Cummins', 'MA Starc', 'JR Hazlewood', 'NM Lyon')

GROUP BY player\_name, bowler

ORDER BY bowler;

1. **A Comprehensive Overview of RG Sharma's Centuries Across All Formats:**

SELECT

(SELECT COUNT(\*)

FROM (

SELECT SUM(runs\_scored) AS total\_runs

FROM ODI

WHERE player\_name = 'RG Sharma'

GROUP BY match\_date

HAVING total\_runs >= 100

) AS centuries\_odis) AS total\_centuries\_odis,

(SELECT COUNT(\*)

FROM (

SELECT SUM(runs\_scored) AS total\_runs

FROM TEST

WHERE player\_name = 'RG Sharma'

GROUP BY match\_date

HAVING total\_runs >= 100

) AS centuries\_tests) AS total\_centuries\_tests,

(SELECT COUNT(\*)

FROM (

SELECT SUM(runs\_scored) AS total\_runs

FROM T20

WHERE player\_name = 'RG Sharma'

GROUP BY match\_date

HAVING total\_runs >= 100

) AS centuries\_t20s) AS total\_centuries\_t20s,

(SELECT COUNT(\*)

FROM (

SELECT SUM(runs\_scored) AS total\_runs

FROM IPL

WHERE player\_name = 'RG Sharma'

GROUP BY match\_date

HAVING total\_runs >= 100

) AS centuries\_ipl) AS total\_centuries\_ipl;

1. **Top 5 Highest Wicket-Takers Across All Cricket Formats:**

SELECT

bowler,

SUM(wickets\_taken) AS total\_wickets

FROM (

SELECT bowler, SUM(wickets\_taken) AS wickets\_taken

FROM ODI

GROUP BY bowler

UNION ALL

SELECT bowler, SUM(wickets\_taken) AS wickets\_taken

FROM TEST

GROUP BY bowler

UNION ALL

SELECT bowler, SUM(wickets\_taken) AS wickets\_taken

FROM T20

GROUP BY bowler

UNION ALL

SELECT bowler, SUM(wickets\_taken) AS wickets\_taken

FROM IPL

GROUP BY bowler

) AS all\_bowlers

GROUP BY bowler

ORDER BY total\_wickets DESC

LIMIT 5;

1. **T20 2024: Win Percentage and Match Count for Each Team:**

SELECT

team\_name AS team,

(COUNT(DISTINCT CASE WHEN result = team\_name THEN match\_date END) \* 100.0) /

(SELECT COUNT(DISTINCT match\_date) FROM T20 WHERE team\_name = t.team\_name) AS win\_percentage,

(SELECT COUNT(DISTINCT match\_date) FROM T20 WHERE team\_name = t.team\_name) AS total\_matches

FROM T20 t

GROUP BY team\_name

ORDER BY win\_percentage DESC;

1. **T20 2024: Impact of Catches and Run-Outs on Winning Percentage:**

SELECT

team\_name,

SUM(CASE WHEN dismissal\_kind = 'caught' THEN 1 ELSE 0 END) AS total\_catches,

SUM(CASE WHEN dismissal\_kind = 'run out' THEN 1 ELSE 0 END) AS total\_run\_outs,

COUNT(DISTINCT CONCAT(match\_date, '-', venue)) AS total\_matches,

(COUNT(DISTINCT CASE WHEN result = team\_name THEN CONCAT(match\_date, '-', venue) END) \* 100.0) /

(SELECT COUNT(DISTINCT CONCAT(match\_date, '-', venue)) FROM T20 WHERE team\_name = t.team\_name) AS win\_percentage

FROM T20 t

GROUP BY team\_name

ORDER BY win\_percentage DESC;

**11. Batsmen Performing Under Pressure in Death Overs in IPL 2024**

SELECT

player\_name,

COUNT(DISTINCT CONCAT(match\_date, '-', venue)) AS matches\_played,

SUM(runs\_scored) AS total\_runs\_in\_death\_overs,

SUM(balls\_faced) AS total\_balls\_faced,

(SUM(runs\_scored) \* 100.0 / NULLIF(SUM(balls\_faced), 0)) AS strike\_rate,

ROUND(SUM(balls\_faced) / 6, 2) AS total\_overs\_faced

FROM IPL

WHERE YEAR(match\_date) = 2024

GROUP BY player\_name

HAVING ROUND(SUM(balls\_faced) / 6) BETWEEN 16 AND 20

ORDER BY total\_runs\_in\_death\_overs DESC, strike\_rate DESC;

**12. Top 10 Batsmen in ODIs Since 2005**

SELECT

player\_name,

SUM(runs\_scored) AS total\_runs,

SUM(balls\_faced) AS total\_balls\_faced,

SUM(fours) AS total\_fours,

SUM(sixes) AS total\_sixes,

COUNT(DISTINCT match\_date) AS matches\_played,

ROUND(SUM(runs\_scored) \* 100.0 / NULLIF(SUM(balls\_faced), 0), 2) AS strike\_rate

FROM ODI

GROUP BY player\_name

ORDER BY total\_runs DESC

LIMIT 10;

**13. Win Percentage in IPL**

SELECT

team\_name AS team,

COUNT(DISTINCT CONCAT(match\_date, venue)) AS matches\_played,

COUNT(DISTINCT CASE WHEN winning\_team = team\_name THEN CONCAT(match\_date, venue) END) AS wins,

ROUND(

COUNT(DISTINCT CASE WHEN winning\_team = team\_name THEN CONCAT(match\_date, venue) END) \* 100.0 /

NULLIF(COUNT(DISTINCT CONCAT(match\_date, venue)), 0), 2

) AS win\_percentage

FROM IPL

WHERE year BETWEEN 2008 AND 2024

GROUP BY team\_name

ORDER BY win\_percentage DESC;

**14. Toss-Win Impact in IPL 2024**

SELECT

toss\_winner AS team,

COUNT(DISTINCT CONCAT(match\_date, venue)) AS toss\_wins,

COUNT(DISTINCT CASE WHEN toss\_winner = result THEN CONCAT(match\_date, venue) END) AS matches\_won\_after\_toss,

(COUNT(DISTINCT CASE WHEN toss\_winner = result THEN CONCAT(match\_date, venue) END) \* 100.0 /

COUNT(DISTINCT CONCAT(match\_date, venue))) AS toss\_win\_success\_rate

FROM IPL

WHERE Year = 2024

GROUP BY toss\_winner

ORDER BY toss\_win\_success\_rate DESC;

**15. IPL: Win Percentage Analysis Based on Catches and Run-Outs**

SELECT

team\_name,

COUNT(DISTINCT CONCAT(match\_date, venue)) AS matches\_played,

COUNT(CASE WHEN dismissal\_kind = 'caught' THEN 1 END) AS catches,

COUNT(CASE WHEN dismissal\_kind = 'run out' THEN 1 END) AS run\_outs,

COUNT(DISTINCT CASE WHEN result = team\_name THEN CONCAT(match\_date, venue) END) AS wins,

(COUNT(DISTINCT CASE WHEN result = team\_name THEN CONCAT(match\_date, venue) END) \* 100.0 /

COUNT(DISTINCT CONCAT(match\_date, venue))) AS win\_percentage

FROM IPL

GROUP BY team\_name

ORDER BY win\_percentage DESC;

**16. Bowlers with the Best Economy Rate in Test Cricket**

SELECT

bowler,

ROUND(SUM(runs\_conceded) / (SUM(balls\_bowled) / 6), 2) AS economy\_rate,

ROUND(SUM(balls\_bowled) / 6, 2) AS total\_overs\_bowled

FROM Test

GROUP BY bowler

HAVING total\_overs\_bowled > 100

ORDER BY economy\_rate ASC;

**17. Player with Most Consistent Batting Strike Rate in Test Cricket**

SELECT

player\_name,

SUM(runs\_scored) AS total\_runs\_scored,

SUM(balls\_faced) AS total\_balls\_faced,

ROUND(AVG(strike\_rate), 2) AS avg\_strike\_rate

FROM Test

GROUP BY player\_name

HAVING total\_balls\_faced > 500

ORDER BY avg\_strike\_rate DESC;

**18. Top 20 Players with the Most Sixes in T20 Cricket**

SELECT

player\_name,

SUM(CASE WHEN runs\_scored = 6 THEN 1 ELSE 0 END) AS total\_sixes,

COUNT(DISTINCT match\_date) AS matches\_played

FROM T20

GROUP BY player\_name

ORDER BY total\_sixes DESC

LIMIT 20;

**19. Team-wise Win/Loss Statistics in ODIs**

SELECT

team\_name,

COUNT(DISTINCT CONCAT(match\_date, venue)) AS matches\_played,

SUM(CASE WHEN team\_name = winning\_team THEN 1 ELSE 0 END) AS total\_wins,

SUM(CASE WHEN team\_name = losing\_team THEN 1 ELSE 0 END) AS total\_losses,

ROUND(

SUM(CASE WHEN team\_name = winning\_team THEN 1 ELSE 0 END) /

COUNT(DISTINCT CONCAT(match\_date, venue)) \* 100,

2

) AS win\_percentage

FROM (

SELECT

match\_date,

venue,

team\_name,

MAX(winning\_team) AS winning\_team,

MAX(losing\_team) AS losing\_team

FROM ODI

GROUP BY match\_date, venue, team\_name

) AS unique\_matches

GROUP BY team\_name

ORDER BY win\_percentage DESC;

**20. Top 10 Highest Wicket-Takers in ODIs**

SELECT

bowler,

SUM(wickets\_taken) AS total\_wickets,

COUNT(DISTINCT CONCAT(match\_date, venue)) AS matches\_played,

ROUND(SUM(balls\_bowled) / 6) AS total\_overs\_bowled,

ROUND(SUM(runs\_conceded) / (SUM(balls\_bowled) / 6), 2) AS economy\_rate

FROM ODI

GROUP BY bowler

ORDER BY total\_wickets DESC

LIMIT 10;