IPL(2008-2024) DATA ANALYSIS THROUGH SQL

>Question:-

--Top 10 Players That best perform under last final overs.

>Query:-

```
SELECT TOP 10 batter,
COUNT(*)AS ball_faced,
SUM(batsman_runs) AS total_runs,
ROUND(SUM(batsman_runs)*1.0/COUNT(*),2)AS strike_rate,
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
WHERE [over] BETWEEN 17 AND 20
GROUP BY batter
HAVING COUNT(*)>=30
ORDER BY total runs DESC;
```

>Outcomes:-

iii F	Results Messages								
	batter	ball_faced	total_runs	strike_rate	fours	sixes			
1	MS Dhoni	1139	2174	1.91	164	149			
2	KA Pollard	699	1237	1.77	77	94			
3	RA Jadeja	671	1105	1.65	76	62			
4	KD Karthik	603	1078	1.79	100	65			
5	AB de Vi	425	1035	2.44	75	87			
6	HH Pan	496	904	1.82	56	74			
7	RG Shar	397	805	2.03	63	58			
8	V Kohli	368	754	2.05	55	52			
9	AD Russ	382	745	1.95	47	71			
10	DA Miller	397	727	1.83	48	50			

>Question:-

--Most Valuable Pairs of Batsman Have the Highest Average Partnership Runs.

>Query:-

```
SELECT TOP 10

pair.batter AS batter1,

pair.non_striker AS batter2,

COUNT(DISTINCT pair.match_inning) AS partnership,

SUM(pair.total_runs) AS total_runs,

CAST(SUM(pair.total_runs)*1.0/

COUNT(DISTINCT pair.match_inning) AS

DECIMAL(6,2)) AS avg_Partnership_runs

FROM(

SELECT match_id,inning,batter,non_striker,

(CAST(match_id AS VARCHAR) + '-'+CAST(inning AS VARCHAR)) AS match_inning,

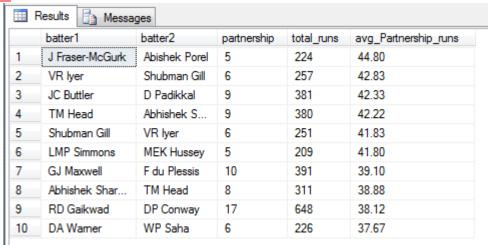
total_runs FROM deliveries) AS pair

GROUP BY pair.batter, pair.non_striker

HAVING COUNT(DISTINCT pair.match_inning)>=5

ORDER BY avg_Partnership_runs DESC;
```

>Outcomes:-



>Question:-

--Bowlers That Consistently Take 1 Wicket Every Match Over Multiple Season.

>Query:-

```
SELECT TOP 10
bowler,

COUNT(DISTINCT match_id) AS match_played,

COUNT(*) AS total_wickets,

CAST(COUNT(*)*1.0/COUNT(DISTINCT match_id) AS DECIMAL(5,2)) AS

avg_wicket_per_match

FROM deliveries

WHERE is_wicket=1

AND dismissal_kind NOT IN('NA', 'caught','hit wicket','obstructing the field',

'retired hurt','run out')

GROUP BY bowler

HAVING COUNT(DISTINCT match id)>=10
```

AND CAST(COUNT(*)*1.0/COUNT(DISTINCT match_id) AS DECIMAL(5,2))>=1.0

>Outcomes:-

ORDER BY avg wicket per match DESC;

iii F	Results 🛅 Me	essages		
	bowler	match_played	total_wickets	avg_wicket_per_match
1	M Markande	12	19	1.58
2	MA Starc	16	25	1.56
3	Yuvraj Singh	12	17	1.42
4	HV Patel	20	28	1.40
5	PV Tambe	10	14	1.40
6	SB Jakati	15	21	1.40
7	YK Pathan	15	21	1.40
8	Kuldeep Y	26	36	1.38
9	SL Malinga	58	80	1.38
10	JA Morkel	19	26	1.37

Question:-

--Teams that scores the most runs in the first half(10) overs of the match on avarage.

Query:SELECT TOP 10
deliveries.batting_team,
COUNT(DISTINCT deliveries.match_id)AS matches_played,
SUM(deliveries.total_runs)AS total_runs_in_first_10_overs,
CAST(SUM(deliveries.total_runs)*1.0/
COUNT(DISTINCT deliveries.match_id)AS
DECIMAL(5,2))AS avg_runs_in_first_10_overs
FROM deliveries
WHERE deliveries.[over] BETWEEN 1 AND 10
GROUP BY deliveries.batting_team
HAVING COUNT(DISTINCT deliveries.match_id)>=5
ORDER BY total_runs_in_first_10_overs DESC;

Outcomes:-

	batting_team	matches_played	total_runs_in_first_10_overs	avg_runs_in_first_10_overs
1	Mumbai Indians	261	20101	77.02
2	Kolkata Knigh	251	19401	77.29
3	Chennai Supe	237	18468	77.92
4	Royal Challen	240	18145	75.60
5	Rajasthan Ro	220	17074	77.61
6	Kings XI Punjab	190	14922	78.54
7	Sunrisers Hyd	182	14372	78.97
8	Delhi Darede	161	12238	76.01
9	Delhi Capitals	91	7498	82.40
10	Deccan Char	75	5530	73.73