

IPL Case Study

(using SQL)

Context: Let's not curb our cricket love and start analyzing the whole of IPL with this latest and complete Indian Premier League dataset. It contains the match descriptions, results, winners, player of the matches, ball by ball dataset and much more. So, stop thinking and start **analyzing**.

Content:

- This dataset consists of two separate CSV files : matches and deliveries. These files contain the information of each match summary and ball by ball details, respectively.
- I'll use Google BigQuery to treat these CSVs as tables and perform analysis using SQL.

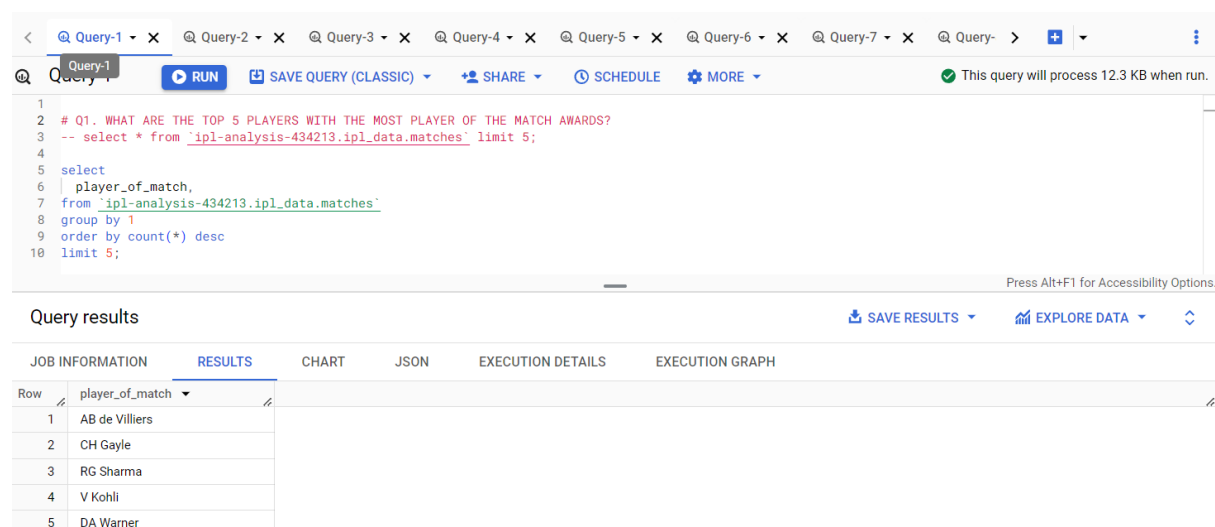
Dataset:

- Link: <https://www.kaggle.com/datasets/patrickb1912/ipl-complete-dataset-20082020>
- It contains data till the 2024 season of IPL.

Analysis-

Query-1: WHAT ARE THE TOP 5 PLAYERS WITH THE MOST PLAYER OF THE MATCH AWARDS?

```
select
player_of_match,
from `ipl-analysis-434213.ipl_data.matches`
group by 1
order by count(*) desc
limit 5;
```



The screenshot shows the Google BigQuery interface. At the top, there's a tab bar with 'Query-1' selected. Below it, a toolbar contains buttons for 'RUN', 'SAVE QUERY (CLASSIC)', 'SHARE', 'SCHEDULE', and 'MORE'. A status message indicates 'This query will process 12.3 KB when run.' The query editor contains the following SQL code:

```
1
2 # Q1. WHAT ARE THE TOP 5 PLAYERS WITH THE MOST PLAYER OF THE MATCH AWARDS?
3 -- select * from `ipl-analysis-434213.ipl_data.matches` limit 5;
4
5 select
6   player_of_match,
7   from `ipl-analysis-434213.ipl_data.matches`
8   group by 1
9   order by count(*) desc
10  limit 5;
```

Below the query editor, the 'Query results' section is visible. It has tabs for 'JOB INFORMATION', 'RESULTS' (selected), 'CHART', 'JSON', 'EXECUTION DETAILS', and 'EXECUTION GRAPH'. The 'RESULTS' tab shows a table with 5 rows and 1 column, 'player_of_match'.

Row	player_of_match
1	AB de Villiers
2	CH Gayle
3	RG Sharma
4	V Kohli
5	DA Warner

Query-2: HOW MANY MATCHES WERE WON BY EACH TEAM IN EACH SEASON?

```

select
t1.season,
t1.winner,
count(*) as matches_won
from `ipl-analysis-434213.ipl_data.matches` as t1
group by 1, 2
order by 1, 2;

```

Query-2 RUN SAVE QUERY (CLASSIC) SHARE SCHEDULE MORE ✓ This query will process 28.24 KB when run.

```

1
2 # Q2. HOW MANY MATCHES WERE WON BY EACH TEAM IN EACH SEASON?
3 -- select * from `ipl-analysis-434213.ipl_data.matches` limit 5;
4
5 select
6   t1.season,
7   t1.winner,
8   count(*) as matches_won
9 from `ipl-analysis-434213.ipl_data.matches` as t1
10 group by 1, 2
11 order by 1, 2;
12

```

Query results SAVE RESULTS EXPLORE DATA

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	season	winner	matches_won		
1	2007/08	Chennai Super Kings	9		
2	2007/08	Deccan Chargers	2		
3	2007/08	Delhi Daredevils	7		
4	2007/08	Kings XI Punjab	10		
5	2007/08	Kolkata Knight Riders	6		
6	2007/08	Mumbai Indians	7		
7	2007/08	Rajasthan Royals	13		
8	2007/08	Royal Challengers Bangalore	4		
9	2009	Chennai Super Kings	8		
10	2009	Deccan Chargers	9		
11	2009	Delhi Daredevils	10		
12	2009	Kings XI Punjab	7		
13	2009	Kolkata Knight Riders	3		

Results per page: 50 1 - 50 of 150

Query-3: WHAT IS THE AVERAGE STRIKE RATE OF BATSMEN IN THE IPL DATASET?

```

with cte1 as (
select
t1.batter,
sum(t1.batsman_runs) * 100 / count(t1.ball) as strike_rate
from `ipl-analysis-434213.ipl_data.deliveries` as t1
where t1.extras_type is null or t1.extras_type in ('noballs', 'legbyes', 'byes', 'penalty')
group by 1
)

```

```

select avg(strike_rate) as avg_strike_rate
from cte1;

```

Query-3 [RUN](#) [SAVE QUERY \(CLASSIC\)](#) [SHARE](#) [SCHEDULE](#) [MORE](#) ✓ This query will process 6.93 MB when run.

```

1
2 # Q3. WHAT IS THE AVERAGE STRIKE RATE OF BATSMEN IN THE IPL DATASET?
3 -- select * from `ipl-analysis-434213.ipl_data.deliveries` limit 5;
4
5 with cte1 as (
6   select
7     t1.batter,
8     sum(t1.batsman_runs) * 100 / count(t1.ball) as strike_rate
9   from `ipl-analysis-434213.ipl_data.deliveries` as t1
10  where t1.extras_type is null or t1.extras_type in ('noballs', 'legbyes', 'byes', 'penalty')
11  group by 1
12 )
13
14 select avg(strike_rate) as avg_strike_rate
15 from cte1;
16

```

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	avg_strike_rate				
1	106.1563898007...				

Query-4: # WHAT IS THE NUMBER OF MATCHES WON BY EACH TEAM BATTING FIRST VERSUS BATTING SECOND?

```

with cte1 as (
  select
    t1.team1 as team,
    if(t1.team1 = t1.winner, 1, 0) as win,
    if( ((t1.team1 = t1.toss_winner) and (t1.toss_decision = 'bat')) or ((t1.team1 <> t1.toss_winner) and
(t1.toss_decision = 'field')), 'inning 1', 'inning 2') as inning
  from `ipl-analysis-434213.ipl_data.matches` as t1

union all

  select
    t1.team2 as team,
    if(t1.team2 = t1.winner, 1, 0) as win,
    if( ((t1.team2 = t1.toss_winner) and (t1.toss_decision = 'bat')) or ((t1.team2 <> t1.toss_winner) and
(t1.toss_decision = 'field')), 'inning 1', 'inning 2') as inning
  from `ipl-analysis-434213.ipl_data.matches` as t1
)

select
  c1.team, c1.inning, sum(win) as wins
from cte1 as c1
group by 1, 2
order by 1, 2;

```

Query-4 RUN SAVE QUERY (CLASSIC) SHARE SCHEDULE MORE ✓ This query will process 91.86 KB when run.

```

1 # Q4. WHAT IS THE NUMBER OF MATCHES WON BY EACH TEAM BATTING FIRST VERSUS BATTING SECOND?
2
3 with cte1 as (
4   select
5     t1.team1 as team,
6     if(t1.team1 = t1.winner, 1, 0) as win,
7     if(((t1.team1 = t1.toss_winner) and (t1.toss_decision = 'bat')) or ((t1.team1 <> t1.toss_winner) and (t1.toss_decision = 'field')), 'inning 1',
8     'inning 2') as inning
9   from `ipl-analysis-434213.ipl_data.matches` as t1
10
11   union all
12   select
13     t1.team2 as team,
14     if(t1.team2 = t1.winner, 1, 0) as win,
15     if(((t1.team2 = t1.toss_winner) and (t1.toss_decision = 'bat')) or ((t1.team2 <> t1.toss_winner) and (t1.toss_decision = 'field')), 'inning 1',
16     'inning 2') as inning
17   from `ipl-analysis-434213.ipl_data.matches` as t1

```

Query results SAVE RESULTS EXPLORE DATA

JOB INFORMATION		RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	team	inning	wins			
1	Chennai Super Kings	inning 1	70			
2	Chennai Super Kings	inning 2	68			
3	Deccan Chargers	inning 1	18			
4	Deccan Chargers	inning 2	11			
5	Delhi Capitals	inning 1	23			
6	Delhi Capitals	inning 2	25			
7	Delhi Daredevils	inning 1	25			
8	Delhi Daredevils	inning 2	42			
9	Gujarat Lions	inning 1	1			
10	Gujarat Lions	inning 2	12			

Results per page: 50 1 - 38 of 38

Query-5: WHICH BATSMAN HAS THE HIGHEST STRIKE RATE (MINIMUM 200 RUNS SCORED)?

```

with cte1 as (
  select
    t1.batter,
    sum(t1.batsman_runs) as runs,
    sum(t1.batsman_runs) * 100 / count(t1.ball) as strike_rate
  from `ipl-analysis-434213.ipl_data.deliveries` as t1
  where t1.extras_type is null or t1.extras_type in ('noballs', 'legbyes', 'byes', 'penalty')
  group by 1
)

select batter, runs, strike_rate from cte1
where runs >= 200
order by strike_rate desc
limit 10;

```

Query-5

```

1 # Q5. WHICH BATSMAN HAS THE HIGHEST STRIKE RATE (MINIMUM 200 RUNS SCORED)?
2 -- select * from `ipl-analysis-434213.ipl_data.deliveries` limit 5
3
4 with cte1 as (
5   select
6     t1.batter,
7     sum(t1.batsman_runs) as runs,
8     sum(t1.batsman_runs) * 100 / count(t1.ball) as strike_rate
9   from `ipl-analysis-434213.ipl_data.deliveries` as t1
10  where t1.extras_type is null or t1.extras_type in ('noballs', 'legbyes', 'byes', 'penalty')
11  group by 1
12 )
13
14 select batter, runs, strike_rate from cte1
15 where runs >= 200
16 order by strike_rate desc
17 limit 10
18

```

Query results

Row	batter	runs	strike_rate
1	J Fraser-McGurk	330	234.0425531914...
2	WG Jacks	230	175.5725190839...
3	PD Salt	653	175.5376344086...
4	AD Russell	2488	174.8418833450...
5	TM Head	772	173.8738738738...
6	T Stubbs	405	173.8197424892...
7	TH David	659	170.2842377260...
8	BCJ Cutting	238	168.7943262411...
9	H Klaasen	993	168.3050847457...
10	K Gowtham	247	166.8918918918...

Results per page: 50 1 - 10 of 10

Query-6: HOW MANY TIMES HAS EACH BATSMAN BEEN DISMISSED BY THE BOWLER 'MALINGA'?

```

select sum(is_wicket) as total_wickets
from `ipl-analysis-434213.ipl_data.deliveries`
where
dismissal_kind in ('caught', 'bowled', 'lbw', 'stumped', 'caught and bowled', 'hit wicket') and
bowler = 'SL Malinga';

```

Query-6

```

1
2 # Q6. HOW MANY TIMES HAS EACH BATSMAN BEEN DISMISSED BY THE BOWLER 'MALINGA'?
3
4 select sum(is_wicket) as total_wickets
5 from `ipl-analysis-434213.ipl_data.deliveries`
6 where
7   dismissal_kind in ('caught', 'bowled', 'lbw', 'stumped', 'caught and bowled', 'hit wicket') and
8   bowler = 'SL Malinga';
9

```

Query results

Row	total_wickets
1	170

Query-7: WHAT IS THE BOUNDARY RATE PERCENTAGE HIT BY EACH BATSMEN?

BOUNDARY RATE = (NUMBER OF BOUNDARIES) * 100 / (TOTAL BALLS FACED)

```

select
batter as batsman,
round(sum(if(batsman_runs in (4, 6), 1, 0)) * 100 / count(ball), 2) as boundary_rate
from `ipl-analysis-434213.ipl_data.deliveries`

```

where

extras_type is null or extras_type in ('noballs', 'legbyes', 'byes', 'penalty')

group by 1

order by 1;

Query-7

RUN

SAVE QUERY (CLASSIC)

SHARE

SCHEDULE

MORE

This query will process 6.93 MB when run.

```
1
2 # Q7. WHAT IS THE BOUNDARY RATE PERCENTAGE HIT BY EACH BATSMEN?
3 # BOUNDARY RATE = (NUMBER OF BOUNDARIES) * 100 / (TOTAL BALLS FACED)
4
5 select
6   batter as batsman,
7   round(sum(if(batsman_runs in (4, 6), 1, 0)) * 100 / count(ball), 2) as boundary_rate
8 from `ipl-analysis-434213.ipl_data.deliveries`
9 where
10  extras_type is null or extras_type in ('noballs', 'legbyes', 'byes', 'penalty')
11
12 group by 1
13 order by 1;
14
```

Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION RESULTS CHART JSON EXECUTION DETAILS EXECUTION GRAPH

Row	batsman	boundary_rate
1	A Ashish Reddy	16.06
2	A Badoni	14.8
3	A Chandila	0.0
4	A Chopra	9.86
5	A Choudhary	10.0
6	A Dananjaya	0.0
7	A Flintoff	13.21
8	A Kamboj	0.0
9	A Kumble	6.38
10	A Manohar	17.82
11	A Mishra	8.59
12	A Mithun	19.23

Results per page: 50 1 - 50 of 673

Query-8: WHAT IS THE AVERAGE NUMBER OF BOUNDARIES HIT BY EACH TEAM IN EACH SEASON?

select

m.season,

d.batting_team,

round(count(d.batsman_runs) / count(distinct m.id), 2) as avg_boundary_count

from `ipl-analysis-434213.ipl_data.deliveries` as d

join `ipl-analysis-434213.ipl_data.matches` as m

on d.match_id = m.id

where d.batsman_runs in (4, 6)

group by 1, 2

order by 3 desc;

Query-8 RUN SAVE QUERY (CLASSIC) SHARE SCHEDULE MORE This query will process 8.95 MB when run.

```

1
2 # Q8. WHAT IS THE AVERAGE NUMBER OF BOUNDARIES HIT BY EACH TEAM IN EACH SEASON?
3
4 select
5     m.season,
6     d.batting_team,
7     round(count(d.batsman_runs) / count(distinct m.id), 2) as avg_boundary_count
8
9 from `ipl-analysis-434213.ipl_data.deliveries` as d
10 join `ipl-analysis-434213.ipl_data.matches` as m
11 on d.match_id = m.id
12
13 where d.batsman_runs in (4, 6)
14 group by 1, 2
15 order by 3 desc

```

Query results SAVE RESULTS EXPLORE DATA

JOB INFORMATION		RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	season	batting_team	avg_boundary_count			
1	2024	Kolkata Knight Riders	27.07			
2	2024	Royal Challengers Bengaluru	26.27			
3	2024	Delhi Capitals	26.0			
4	2023	Mumbai Indians	25.31			
5	2024	Mumbai Indians	24.86			
6	2024	Sunrisers Hyderabad	24.69			
7	2023	Punjab Kings	24.57			
8	2019	Kolkata Knight Riders	24.21			
9	2018	Kolkata Knight Riders	23.94			
10	2016	Royal Challengers Bangalore	23.88			
11	2024	Punjab Kings	23.79			

Results per page: 50 1 - 50 of 146

Query-9: WHAT IS THE HIGHEST PARTNERSHIP (RUNS) FOR EACH TEAM IN EACH SEASON?

```

with cte1 as (
select
    m.season,
    d.match_id,
    d.batting_team as team,
    d.batter,
    d.non_striker,
    sum(d.total_runs) as runs

from `ipl-analysis-434213.ipl_data.deliveries` as d
join `ipl-analysis-434213.ipl_data.matches` as m
on d.match_id = m.id
group by 1, 2, 3, 4, 5
),
cte2 as (
select
    c1.season,
    c1.team,
    c1.batter as player1,
    c1.non_striker as player2,
    (c1.runs + c2.runs) as partnership_runs
from cte1 as c1
join cte1 as c2
on c1.match_id = c2.match_id and c1.batter = c2.non_striker and c1.non_striker = c2.batter
)

select

```

season, team, max(partnership_runs) as partnership_runs

from cte2

group by 1, 2

order by 3 desc;

Query-9

▶ RUN

🔖 SAVE QUERY (CLASSIC) ▾

👤 SHARE ▾

🕒 SCHEDULE

⚙️ MORE ▾

🟢 This query will process 14.64 MB when run.

```
1 # Q9. WHAT IS THE HIGHEST PARTNERSHIP (RUNS) FOR EACH TEAM IN EACH SEASON?
2
3 -- select * from `ipl-analysis-434213.ipl_data.deliveries` limit 5
4
5 with cte1 as (
6   select
7     m.season,
8     d.match_id,
9     d.batting_team as team,
10    d.batter,
11    d.non_striker,
12    sum(d.total_runs) as runs
13  from `ipl-analysis-434213.ipl_data.deliveries` as d
14  join `ipl-analysis-434213.ipl_data.matches` as m
15    on d.match_id = m.id
16  group by 1, 2, 3, 4, 5
17
```

Query results

📄 SAVE RESULTS ▾

📊 EXPLORE DATA ▾

↕

JOB INFORMATION		RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	season ▾	team ▾	partnership_runs ▾			
1	2016	Royal Challengers Bangalore	229			
2	2015	Royal Challengers Bangalore	215			
3	2024	Gujarat Titans	210			
4	2022	Lucknow Super Giants	210			
5	2011	Kings XI Punjab	206			
6	2012	Royal Challengers Bangalore	204			
7	2012	Delhi Daredevils	189			
8	2019	Sunrisers Hyderabad	185			
9	2017	Kolkata Knight Riders	184			
10	2020/21	Kings XI Punjab	183			

Results per page: 50 ▾ 1 – 50 of 146 |< < > >|

Query-10: HOW MANY EXTRAS (WIDES & NO-BALLS) WERE BOWLED BY EACH TEAM IN EACH MATCH?

select

match_id,

bowling_team,

count(extras_type) as num_extras

from `ipl-analysis-434213.ipl_data.deliveries`

where extras_type in ('wides', 'noballs')

group by 1, 2

order by 1, 2;

Query-10 [RUN](#) [SAVE QUERY \(CLASSIC\)](#) [SHARE](#) [SCHEDULE](#) [MORE](#) ✓ This query will process 7.05 MB when run.

```

1 # Q10. HOW MANY EXTRAS (WIDES & NO-BALLS) WERE BOWLED BY EACH TEAM IN EACH MATCH?
2
3 select
4     match_id,
5     bowling_team,
6     count(extras_type) as num_extras
7 from `ipl-analysis-434213.ipl_data.deliveries`
8 where extras_type in ('wides', 'noballs')
9 group by 1, 2
10 order by 1, 2:

```

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

JOB INFORMATION RESULTS CHART JSON EXECUTION DETAILS EXECUTION GRAPH

Row	match_id	bowling_team	num_extras
1	335982	Kolkata Knight Riders	10
2	335982	Royal Challengers Bangalore	4
3	335983	Chennai Super Kings	4
4	335983	Kings XI Punjab	4
5	335984	Delhi Daredevils	2
6	335984	Rajasthan Royals	6
7	335985	Mumbai Indians	5
8	335985	Royal Challengers Bangalore	3
9	335986	Deccan Chargers	8
10	335986	Kolkata Knight Riders	6
11	335987	Kings XI Punjab	10
12	335987	Rajasthan Royals	3
13	335988	Deccan Chargers	5
14	335988	Delhi Daredevils	2
15	335989	Chennai Super Kings	8

Results per page: 50 1 - 50 of 2126

Query-11: WHICH BOWLER HAS THE BEST BOWLING FIGURES (MOST WICKETS TAKEN) IN A SINGLE MATCH?

```

with cte1 as (
select
    match_id,
    bowler,
    sum(is_wicket) as wickets_taken
from `ipl-analysis-434213.ipl_data.deliveries`
where dismissal_kind in ('caught', 'bowled', 'lbw', 'stumped', 'caught and bowled', 'hit wicket')
group by 1, 2
)

select bowler, wickets_taken
from cte1
where wickets_taken in (
    select max(wickets_taken) from cte1
);

```

Query-11

```
# Q11. WHICH BOWLER HAS THE BEST BOWLING FIGURES (MOST WICKETS TAKEN) IN A SINGLE MATCH?

with cte1 as (
select
match_id,
bowler,
sum(is_wicket) as wickets_taken
from `ipl-analysis-434213.ipl_data.deliveries`
where dismissal_kind in ('caught', 'bowled', 'lbw', 'stumped', 'caught and bowled', 'hit wicket')
group by 1, 2
)
select bowler, wickets_taken
from cte1
where wickets_taken in (
select max(wickets_taken) from cte1
);
```

Query results

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	bowler	wickets_taken			
1	Sohail Tanvir	6			
2	A Zampa	6			
3	AS Joseph	6			

Query-12: HOW MANY MATCHES RESULTED IN A WIN FOR EACH TEAM IN EACH CITY?

```
select
winner as team,
venue,
count(*) as wins
from `ipl-analysis-434213.ipl_data.matches`
group by 1, 2
order by 1, 2;
```

Query-12

```
# Q12. HOW MANY MATCHES RESULTED IN A WIN FOR EACH TEAM IN EACH CITY?

select
winner as team,
venue,
count(*) as wins
from `ipl-analysis-434213.ipl_data.matches`
group by 1, 2
order by 1, 2;
```

Query results

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	team	venue	wins		
1	Chennai Super Kings	Arun Jaitley Stadium	1		
2	Chennai Super Kings	Arun Jaitley Stadium, Delhi	2		
3	Chennai Super Kings	Brabourne Stadium	1		
4	Chennai Super Kings	Buffalo Park	1		
5	Chennai Super Kings	De Beers Diamond Oval	1		
6	Chennai Super Kings	Dr DY Patil Sports Academy	3		
7	Chennai Super Kings	Dr DY Patil Sports Academy, M...	3		
8	Chennai Super Kings	Dr. Y.S. Rajasekhara Reddy AC...	2		
9	Chennai Super Kings	Dubai International Cricket Sta...	9		
10	Chennai Super Kings	Eden Gardens	5		
11	Chennai Super Kings	Eden Gardens, Kolkata	1		
12	Chennai Super Kings	Feroz Shah Kotla	5		
13	Chennai Super Kings	Himachal Pradesh Cricket Ass...	1		
14	Chennai Super Kings	Himachal Pradesh Cricket Ass...	1		
15	Chennai Super Kings	JSCA International Stadium Co...	3		

Results per page: 50 1 - 50 of 387

Query-13: HOW MANY TIMES DID EACH TEAM WIN THE TOSS IN EACH SEASON?

```
select
toss_winner as team,
season,
count(*) as toss_wins
from `ipl-analysis-434213.ipl_data.matches`
group by 1, 2
order by 1, 2;
```

Query-13

RUN

SAVE QUERY (CLASSIC)

SHARE

SCHEDULE

MORE

This query will process 28.14 KB when run.

```
1 # Q13. HOW MANY TIMES DID EACH TEAM WIN THE TOSS IN EACH SEASON?
2
3 select
4     toss_winner as team,
5     season,
6     count(*) as toss_wins
7 from `ipl-analysis-434213.ipl_data.matches`
8 group by 1, 2
9 order by 1, 2;
10
```

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	team	season	toss_wins		
1	Chennai Super Kings	2007/08	5		
2	Chennai Super Kings	2009	7		
3	Chennai Super Kings	2009/10	10		
4	Chennai Super Kings	2011	9		
5	Chennai Super Kings	2012	7		
6	Chennai Super Kings	2013	8		
7	Chennai Super Kings	2014	10		
8	Chennai Super Kings	2015	10		
9	Chennai Super Kings	2018	11		
10	Chennai Super Kings	2019	12		
11	Chennai Super Kings	2020/21	8		
12	Chennai Super Kings	2021	6		
13	Chennai Super Kings	2022	6		
14	Chennai Super Kings	2023	10		
15	Chennai Super Kings	2024	3		

Results per page: 50 1 - 50 of 146

Query-14: HOW MANY MATCHES DID EACH PLAYER WIN THE "PLAYER OF THE MATCH" AWARD?

```
select
player_of_match as player,
count(*) as num_potm
from `ipl-analysis-434213.ipl_data.matches`
group by 1
order by 2 desc;
```

Query-14 [RUN](#) [SAVE QUERY \(CLASSIC\)](#) [SHARE](#) [SCHEDULE](#) [MORE](#) ✓ This query will process 12.3 KB when run.

```

1 # Q14. HOW MANY MATCHES DID EACH PLAYER WIN THE "PLAYER OF THE MATCH" AWARD?
2
3 select
4     player_of_match as player,
5     count(*) as num_potm
6 from `ipl-analysis-434213.ipl_data.matches`
7 group by 1
8 order by 2 desc;

```

Press Alt+F1 for Accessibility Options.

Query results [SAVE RESULTS](#) [EXPLORE DATA](#)

JOB INFORMATION RESULTS CHART JSON EXECUTION DETAILS EXECUTION GRAPH

Row	player	num_potm
1	AB de Villiers	25
2	CH Gayle	22
3	RG Sharma	19
4	V Kohli	18
5	DA Warner	18
6	MS Dhoni	17
7	YK Pathan	16
8	SR Watson	16
9	RA Jadeja	16
10	SP Narine	15
11	AD Russell	15
12	KA Pollard	14
13	SK Raina	14
14	KL Rahul	13
15	G Gambhir	13
16	AM Rahane	13

Results per page: 50 1 - 50 of 292

Query-15: WHAT IS THE AVERAGE NUMBER OF RUNS SCORED IN EACH OVER OF THE INNINGS

```

with cte1 as (
select
t1.match_id,
t1.inning,
t1.over,
sum(t1.total_runs) as runs

from `ipl-analysis-434213.ipl_data.deliveries` as t1
group by 1, 2, 3
)
select c1.over, round(avg(c1.runs), 2) as avg_runs
from cte1 as c1
group by 1
order by 1;

```

Query-10
Query-11
Query-12
Query-13
Query-14
Query-15
Query-16
Query-17

Query-15
RUN
SAVE QUERY (CLASSIC)
SHARE
SCHEDULE
MORE
This query will process 7.96 MB when run.

```

1 # 15. WHAT IS THE AVERAGE NUMBER OF RUNS SCORED IN EACH OVER OF THE INNINGS
2
3 with cte1 as (
4   select
5     t1.match_id,
6     t1.inning,
7     t1.over,
8     sum(t1.total_runs) as runs
9   from `ipl-analysis-434213.ipl_data.deliveries` as t1
10  group by 1, 2, 3
11 )
12
13 select c1.over, round(avg(c1.runs), 2) as avg_runs
14 from cte1 as c1
15 group by 1
16 order by 1;
17

```

Press Alt+F1 for Accessibility Options.

Query results
SAVE RESULTS
EXPLORE DATA

JOB INFORMATION
RESULTS
CHART
JSON
EXECUTION DETAILS
EXECUTION GRAPH

Row	over	avg_runs
1	0	6.16
2	1	7.39
3	2	8.19
4	3	8.42
5	4	8.5
6	5	8.5
7	6	6.82
8	7	7.34
9	8	7.67
10	9	7.55
11	10	7.78

Results per page: 50 1 - 20 of 20

Query-16: WHICH TEAM HAS THE HIGHEST TOTAL SCORE IN A SINGLE MATCH?

```

with cte1 as (
  select
    match_id,
    batting_team as team,
    sum(total_runs) as runs
  from `ipl-analysis-434213.ipl_data.deliveries`
  group by 1, 2
)
select team, runs
from cte1
where runs in (
  select max(runs) from cte1
);

```

Query-16

```

1 # Q16. WHICH TEAM HAS THE HIGHEST TOTAL SCORE IN A SINGLE MATCH?
2
3 with cte1 as (
4   select
5     match_id,
6     batting_team as team,
7     sum(total_runs) as runs
8   from `ipl-analysis-434213.ipl_data.deliveries`
9   group by 1, 2
10 )
11 select team, runs
12 from cte1
13 where runs in (
14   select max(runs) from cte1
15 );
16

```

This query will process 8.94 MB when run.

Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	team	runs			
1	Sunrisers Hyderabad	287			

Query-17: WHICH BATSMAN HAS SCORED THE MOST RUNS IN A SINGLE MATCH?

```

with cte1 as (
  select
    match_id,
    batter as batsman,
    sum(batsman_runs) as runs
  from `ipl-analysis-434213.ipl_data.deliveries`
  group by 1, 2
)
select batsman, runs
from cte1
where runs in (
  select max(runs) from cte1
);

```

Query-17

```

1 # Q17. WHICH BATSMAN HAS SCORED THE MOST RUNS IN A SINGLE MATCH?
2
3 with cte1 as (
4   select
5     match_id,
6     batter as batsman,
7     sum(batsman_runs) as runs
8   from `ipl-analysis-434213.ipl_data.deliveries`
9   group by 1, 2
10 )
11 select batsman, runs
12 from cte1
13 where runs in (
14   select max(runs) from cte1
15 );
16

```

This query will process 6.82 MB when run.

Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTION DETAILS	EXECUTION GRAPH
Row	batsman	runs			
1	CH Gayle	175			

Insights:

- 1. Team Performance by Batting Order:**
 - **Batting First:** Mumbai Indians (72), Chennai Super Kings (70) lead in wins.
 - **Batting Second:** Kolkata Knight Riders (78), Mumbai Indians (72) lead in wins.
- 2. Seasonal Wins:**
 - Mumbai Indians (2013) and Rajasthan Royals (2007-08) hold the record for most wins in a single season with 13.
- 3. Strike Rates:**
 - Average strike rate across all batsmen is 106.
 - Top performers include J Fraser-McGurk (234), WG Jacks (175.57), and PD Salt (175.54).
- 4. Boundary Rates:**
 - J Fraser-McGurk (42.55%) and PD Salt (29.03%) top the charts for boundary percentages.
- 5. Team Boundary Performance:**
 - Kolkata Knight Riders (27.07 in 2024) and Royal Challengers Bangalore (26.27 in 2024) had the highest boundary averages in a season.
- 6. Highest Partnerships:**
 - Royal Challengers Bangalore holds the top spots with 229 in 2016 and 215 in 2015.
- 7. Best Bowling Figures:**
 - Sohail Tanvir, Adam Zampa, and Alzarri Joseph have all taken 6 wickets in a match.
- 8. City-Specific Wins:**
 - Kolkata Knight Riders (45 in Eden Gardens) have the most wins at a single venue.
- 9. Player of the Match Awards:**
 - AB de Villiers (25) and Chris Gayle (22) lead in Player of the Match awards.
- 10. High Scoring Overs:**
 - The 20th, 19th, and 18th overs are the most productive in terms of runs.
- 11. Highest Team Totals:**
 - Sunrisers Hyderabad recorded the highest team total with 287 in a match.
- 12. Highest Individual Score:**
 - Chris Gayle's 175 is the highest individual score in a match.

Actionable Recommendations:

- 1. Strategize Around Batting Order:**
 - Teams should analyze their batting order effectiveness, considering the success of Mumbai Indians and Kolkata Knight Riders in specific batting scenarios.
- 2. Focus on Key Players for Strike Rate:**
 - Invest in players with consistently high strike rates and boundary percentages like J Fraser-McGurk and WG Jacks to boost team totals.
- 3. Maximize Boundary Opportunities:**
 - Teams should strategize to increase boundary rates, particularly in the overs identified as most productive, to maximize their scoring potential.
- 4. Venue-Specific Strategies:**

- Develop tailored strategies for different venues, especially focusing on maximizing performance in historically successful locations like Eden Gardens for Kolkata Knight Riders.

5. Bowler Utilization:

- Bowlers who have demonstrated the ability to take multiple wickets in a single match should be strategically utilized during critical overs.

6. Leverage High-Performing Partnerships:

- Teams should focus on building strong partnerships, which have historically led to high team totals and match victories.

7. Recognize and Reward Top Performers:

- Players with a history of winning Player of the Match awards should be key players in high-pressure matches, given their proven impact on game outcomes.