

# SQL Project : IPL Auction

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# Top 10 batters with high Strike Rate

```
select batsman as playername,  
       count(*) as totalballsfaced,  
       sum(batsman_runs) as totalruns,  
       (sum(batsman_runs) * 100.0) / count(*) as strikerate  
from deliveries  
where extras_type != 'wides'  
group by batsman  
having count(*) >= 500  
order by strikerate desc  
limit 10;
```



	<b>playername</b> character varying (255) 🔒	<b>totalballsfaced</b> bigint 🔒	<b>totalruns</b> bigint 🔒	<b>strikerate</b> numeric 🔒
1	AD Russell	832	1517	182.3317307692307692
2	SP Narine	543	892	164.2725598526703499
3	HH Pandya	847	1349	159.2680047225501771
4	V Sehwag	1755	2728	155.4415954415954416
5	GJ Maxwell	973	1505	154.6762589928057554
6	RR Pant	1368	2079	151.9736842105263158
7	AB de Villiers	3192	4849	151.9110275689223058
8	CH Gayle	3179	4772	150.1100975149418056
9	KA Pollard	2017	3023	149.8760535448686168
10	JC Buttler	1146	1714	149.5636998254799302

### TOP 10 BATTERS WITH HIGH STRIKE RATE



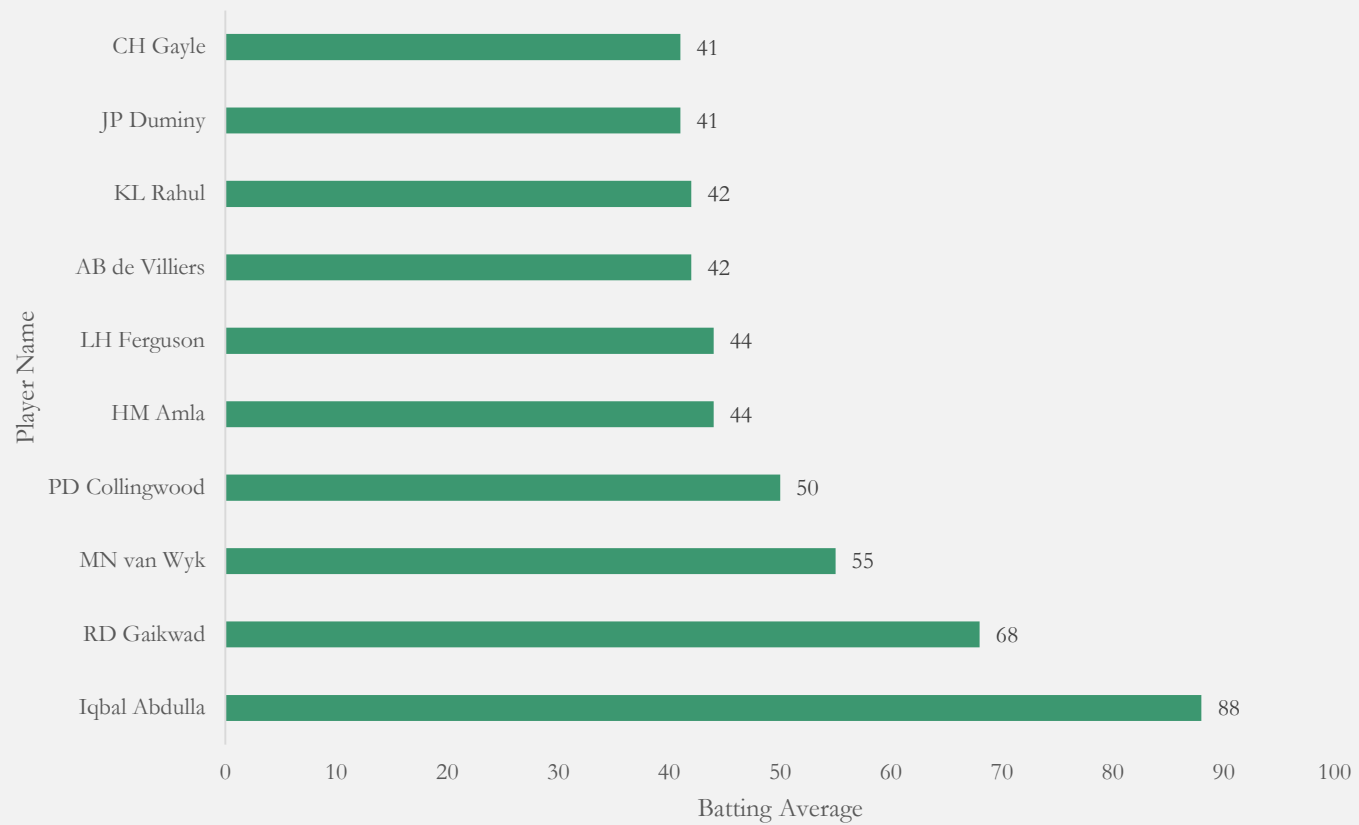


# Top 10 Batsmen with Good Average

```
select batsman as playername,  
       count(distinct id) as seasonsplayed,  
       sum(batsman_runs) as totalruns,  
       sum(case when is_wicket = 1 then 1 else 0 end) as dismissalcount,  
       sum(batsman_runs) / sum(case when is_wicket = 1 then 1 else 0 end) as battingaverage  
from deliveries  
group by batsman  
having sum(case when is_wicket = 1 then 1 else 0 end) > 0 and count(distinct id) > 2  
order by battingaverage desc  
limit 10;
```

	playername character varying (255) 🔒	seasonsplayed bigint 🔒	totalruns bigint 🔒	dismissalcount bigint 🔒	battingaverage bigint 🔒
1	Iqbal Abdulla	13	88	1	88
2	RD Gaikwad	6	204	3	68
3	MN van Wyk	5	167	3	55
4	PD Collingwood	7	203	4	50
5	HM Amla	16	577	13	44
6	LH Ferguson	3	44	1	44
7	AB de Villiers	156	4849	114	42
8	KL Rahul	72	2647	62	42
9	JP Duminy	75	2029	49	41
10	CH Gayle	131	4772	116	41

Top 10 batsmen with good batting average





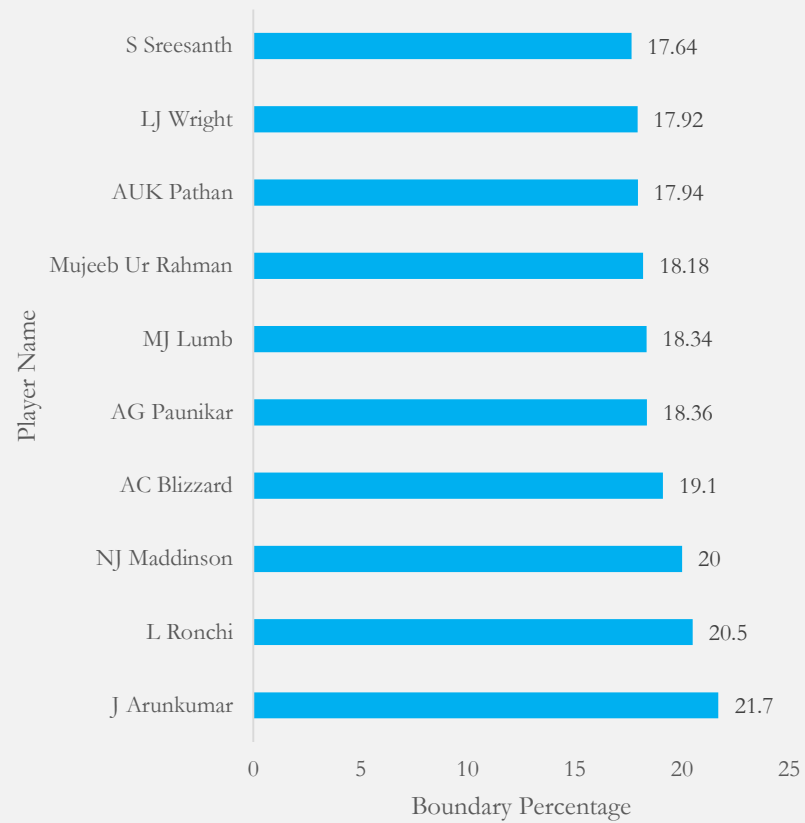
# Top 10 Hard Hitting Batsmen

```
select batsman as playername,  
       sum(batsman_runs) as totalruns,  
       sum(case when batsman_runs = 4 or batsman_runs = 6 then 1 else 0 end) as boundaries,  
       (sum(case when batsman_runs = 4 or batsman_runs = 6 then 1 else 0 end) * 100.0) / sum(batsman_runs)  
as boundarypercentage  
from deliveries  
group by batsman  
having count(distinct id) > 2  
order by boundarypercentage desc  
limit 10;
```



	playername character varying (255) 🔒	totalruns bigint 🔒	boundaries bigint 🔒	boundarypercentage numeric 🔒
1	J Arunkumar	23	5	21.7391304347826087
2	L Ronchi	34	7	20.5882352941176471
3	NJ Maddinson	20	4	20.0000000000000000
4	AC Blizzard	120	23	19.1666666666666667
5	AG Paunikar	49	9	18.3673469387755102
6	MJ Lumb	278	51	18.3453237410071942
7	Mujeeb Ur Rahman	11	2	18.1818181818181818
8	AUK Pathan	39	7	17.9487179487179487
9	LJ Wright	106	19	17.9245283018867925
10	S Sreesanth	34	6	17.6470588235294118

## Top 10 Hard Hitting Batsmen





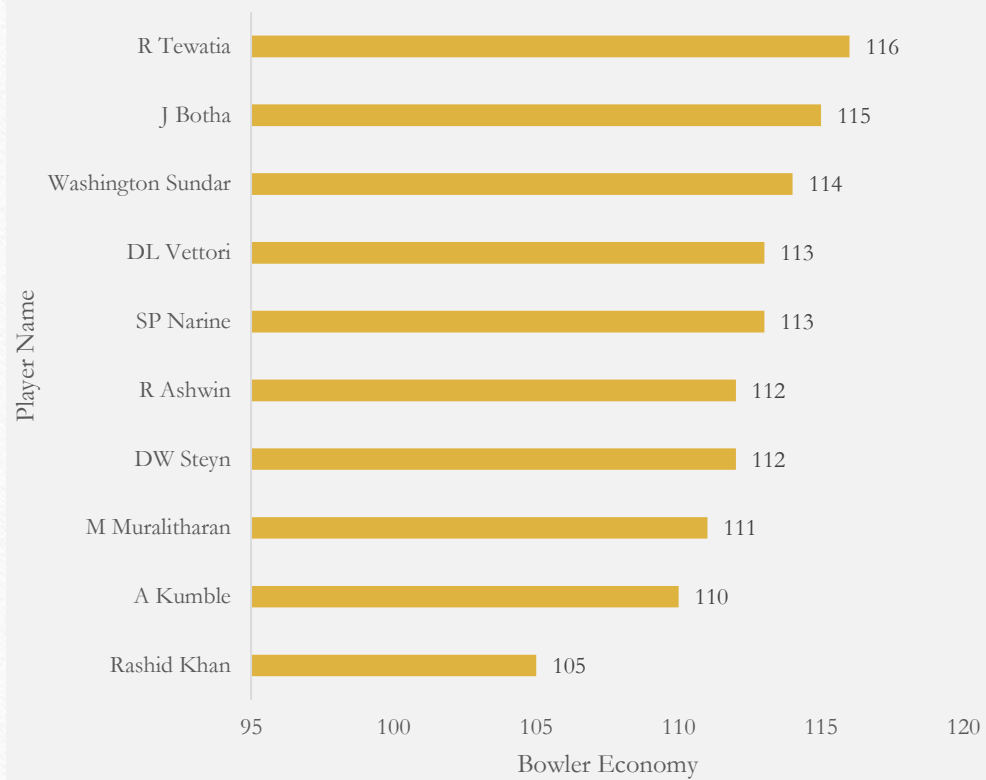
# Top 10 Bowlers with Economy

```
select bowler as playername,  
       count(*) as totalballs_bowled,  
       sum(is_wicket) as totalwickets,  
       sum(total_runs) as totalconcededruns,  
       (sum(total_runs) * 100) / count(*) as bowlereconomy  
from deliveries  
group by bowler  
having count(*) >= 500  
order by bowlereconomy asc  
limit 10;
```

	<b>playername</b> character varying (255) 🔒	<b>totalballs_bowled</b> bigint 🔒	<b>totalwickets</b> bigint 🔒	<b>totalconcededruns</b> bigint 🔒	<b>bowlereconomy</b> bigint 🔒
1	Rashid Khan	1490	80	1573	105
2	A Kumble	983	49	1089	110
3	M Muralitharan	1577	66	1755	111
4	DW Steyn	2276	105	2568	112
5	R Ashwin	3327	153	3756	112
6	SP Narine	2824	143	3208	113
7	DL Vettori	785	34	894	113
8	Washington Sundar	660	26	758	114
9	J Botha	709	27	818	115
10	R Tewatia	587	27	684	116



## Top 10 Bowlers with Economy



# Top 10 Bowlers with High Strike Rate

```
select bowler as playername,  
       sum(is_wicket) as totalwicketstaken,  
       count(*) as totalballsbowled,  
       count(distinct id) as matchesplayed,  
       count(*) / sum(is_wicket) as strikerate  
from deliveries  
group by bowler  
having count(*) >= 500  
order by strikerate asc  
limit 10;
```



	<b>playername</b> character varying (255) 🔒	<b>totalwicketstaken</b> bigint 🔒	<b>totalballsbowled</b> bigint 🔒	<b>matchesplayed</b> bigint 🔒	<b>strikerate</b> bigint 🔒
1	K Rabada	66	840	35	12
2	DE Bollinger	43	600	27	13
3	AJ Tye	45	645	27	14
4	MA Starc	39	612	26	15
5	SL Malinga	188	2974	122	15
6	Imran Tahir	83	1314	58	15
7	A Nehra	121	1974	88	16
8	MM Patel	82	1382	63	16
9	DJ Bravo	175	2846	137	16
10	KK Cooper	36	600	25	16

## TOP 10 BOWLERS WITH HIGH STRIKE RATE





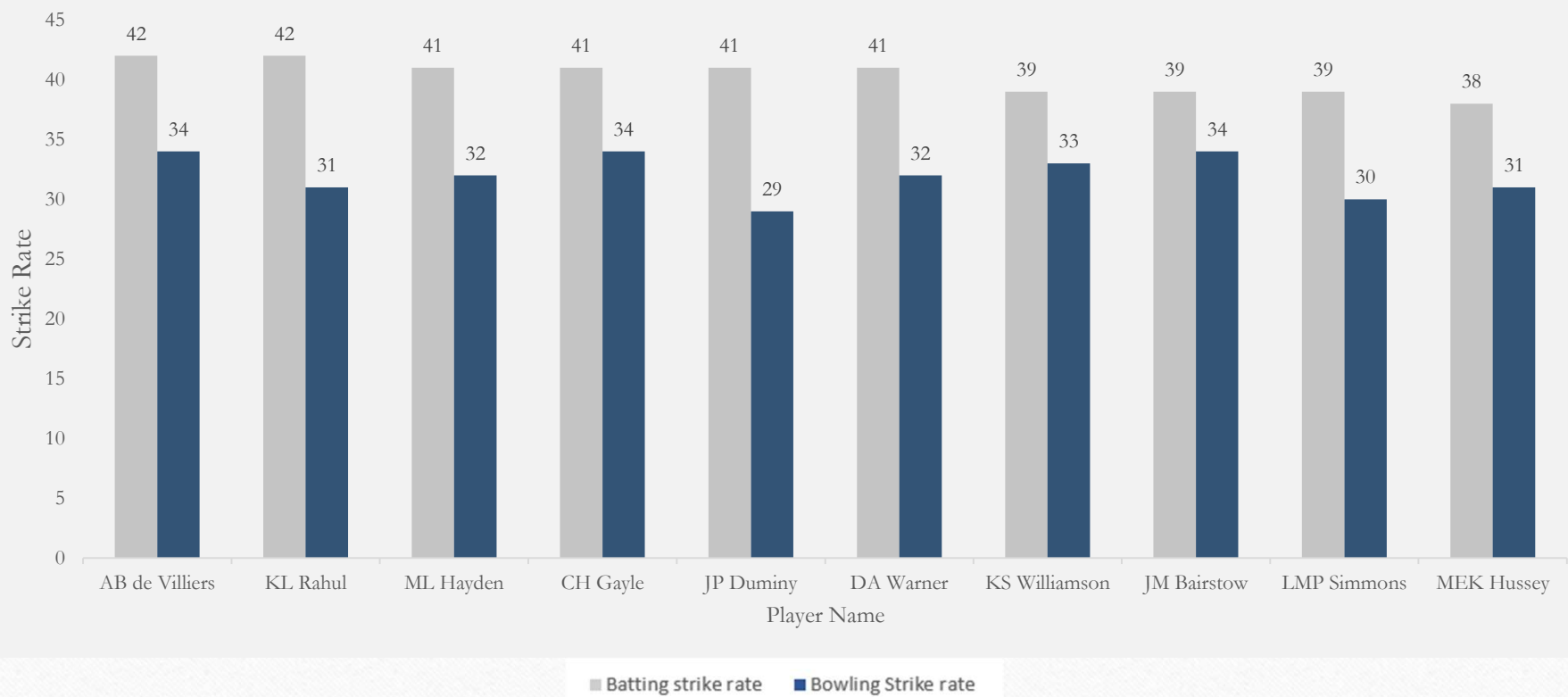
# Top 10 All Rounders

```
select batsman as playername,  
       count(*) as totalballsbowled,  
       sum(is_wicket) as total_wicketstaken,  
       sum(batsman_runs) as totalrunsscored,  
       sum(batsman_runs) / sum(is_wicket) as battingstrike_rate,  
       sum(is_wicket) * 1000 / count(*) as bowlingstrike_rate  
from deliveries  
group by batsman  
having count(*) >= 500  
order by sum(batsman_runs) / sum(is_wicket) desc,  
       sum(is_wicket) / count(*) asc  
limit 10;
```

	playername character varying (255) 🔒	totalballsbowled bigint 🔒	total_wicketstaken bigint 🔒	totalrunsscored bigint 🔒	battingstrike_rate bigint 🔒	bowlingstrike_rate bigint 🔒
1	AB de Villiers	3264	114	4849	42	34
2	KL Rahul	1990	62	2647	42	31
3	ML Hayden	838	27	1107	41	32
4	CH Gayle	3342	116	4772	41	34
5	JP Duminy	1680	49	2029	41	29
6	DA Warner	3819	126	5254	41	32
7	KS Williamson	1222	41	1619	39	33
8	JM Bairstow	576	20	790	39	34
9	LMP Simmons	878	27	1079	39	30
10	MEK Hussey	1648	52	1977	38	31




Top 10 All Rounders with Batting and Bowling Strike Rate

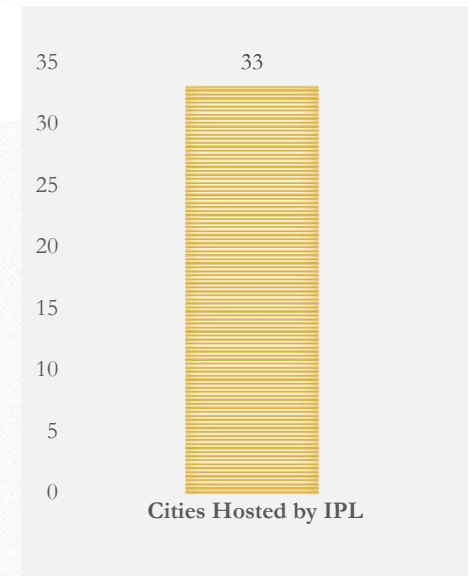


1. Get the count of cities that have hosted an IPL match

## count of cities

```
select count(distinct city) as citycount  
from matches;
```

	citycount bigint 
1	33





2 Create table deliveries\_v02 with all the columns of the table 'deliveries' and an additional column ball\_result containing values boundary, dot or other depending on the total\_run (boundary for  $\geq 4$ , dot for 0 and other for any other number)

```
create table deliveries_v02 as
select *, case when total_runs  $\geq$  4 then 'boundary'
           when total_runs = 0 then 'dot'
           else 'other'
           end as ball_result
from deliveries;
```

```
SELECT 193468
```

Query returned successfully in 1 secs 536 msec.

batting_team character varying (255) 🔒	bowling_team character varying (255) 🔒	ball_result text 🔒
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	dot
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	dot
Kolkata Knight Riders	Royal Challengers Bangalore	dot
Kolkata Knight Riders	Royal Challengers Bangalore	dot
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other
Kolkata Knight Riders	Royal Challengers Bangalore	other

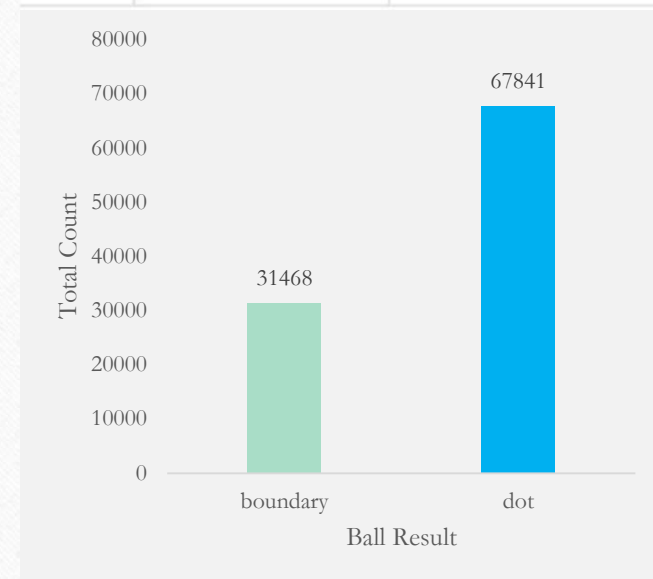


3. Write a query to fetch the total number of boundaries and dot balls from the deliveries\_v02 table.

## Total number of boundaries and dot balls

```
select ball_result, count(*) as total_count
from deliveries_v02
where ball_result in ('boundary', 'dot')
group by ball_result;
```

	ball_result text	total_count bigint
1	boundary	31468
2	dot	67841



4. Write a query to fetch the total number of boundaries scored by each team from the deliveries\_v02 table and order it in descending order of the number of boundaries scored.

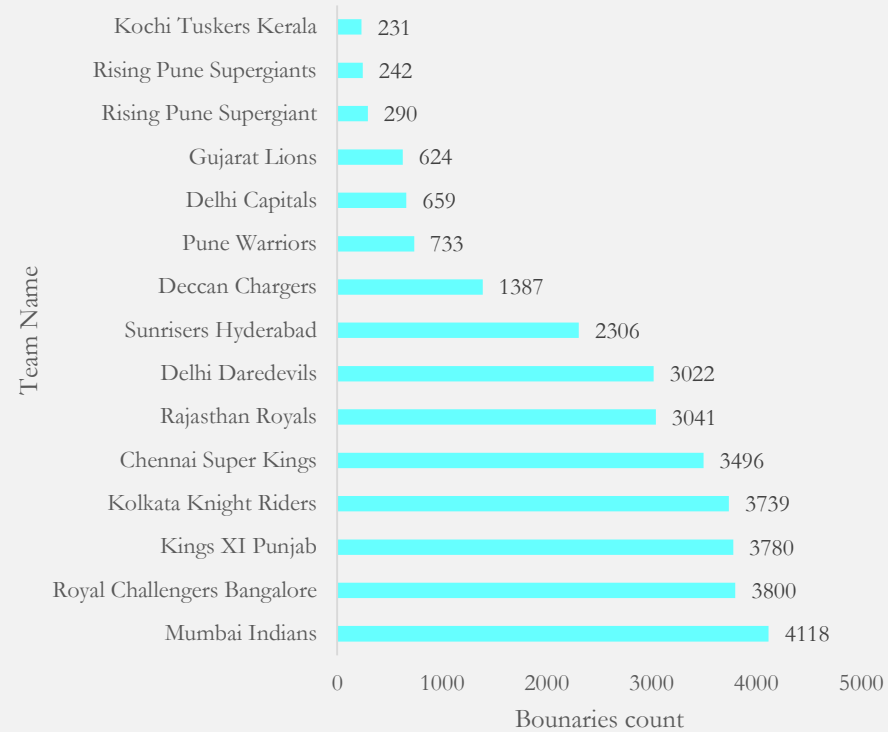
## Boundaries scored by each team

```
select batting_team, count(*) as total_boundaries
from deliveries_v02
where ball_result = 'boundary'
group by batting_team
order by total_boundaries desc;
```



	batting_team character varying (255) 🔒	total_boundaries bigint 🔒
1	Mumbai Indians	4118
2	Royal Challengers Bangalore	3800
3	Kings XI Punjab	3780
4	Kolkata Knight Riders	3739
5	Chennai Super Kings	3496
6	Rajasthan Royals	3041
7	Delhi Daredevils	3022
8	Sunrisers Hyderabad	2306
9	Deccan Chargers	1387
10	Pune Warriors	733
11	Delhi Capitals	659
12	Gujarat Lions	624
13	Rising Pune Supergiant	290
14	Rising Pune Supergiants	242
15	Kochi Tuskers Kerala	231

## Boundaries by Team





5. Write a query to fetch the total number of dot balls bowled by each team and order it in descending order of the total number of dot balls bowled.

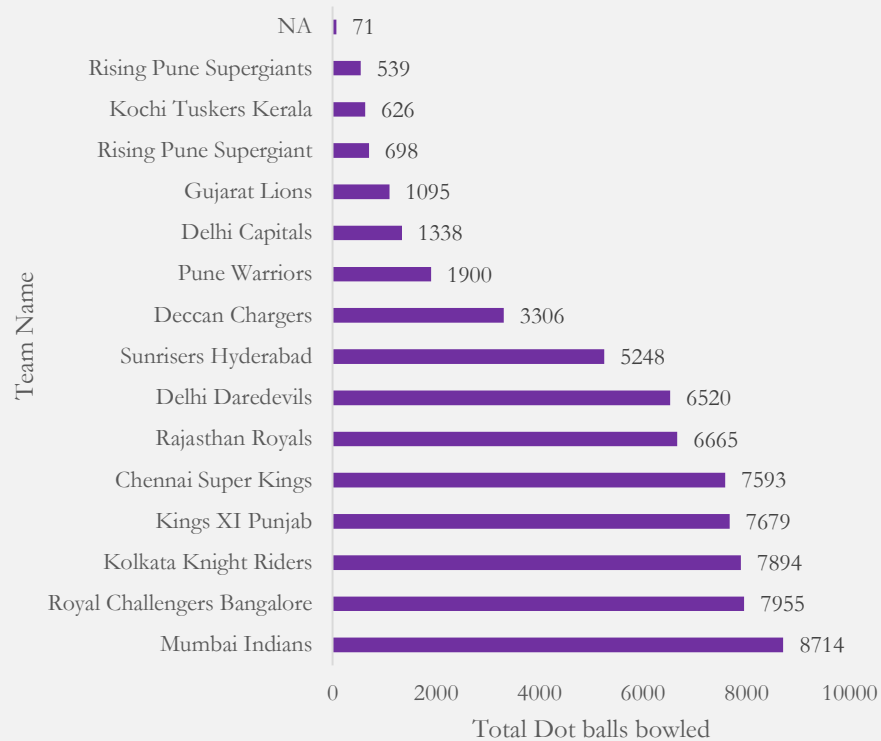
### **Total number of dot balls bowled by each team**

```
select bowling_team, count(*) as total_dot_balls
from deliveries_v02
where ball_result = 'dot'
group by bowling_team
order by total_dot_balls desc;
```

	<b>bowling_team</b> character varying (255) 🔒	<b>total_dot_balls</b> bigint 🔒
1	Mumbai Indians	8714
2	Royal Challengers Bangalore	7955
3	Kolkata Knight Riders	7894
4	Kings XI Punjab	7679
5	Chennai Super Kings	7593
6	Rajasthan Royals	6665
7	Delhi Daredevils	6520
8	Sunrisers Hyderabad	5248
9	Deccan Chargers	3306
10	Pune Warriors	1900
11	Delhi Capitals	1338
12	Gujarat Lions	1095
13	Rising Pune Supergiant	698
14	Kochi Tuskers Kerala	626
15	Rising Pune Supergiants	539
16	NA	71



### Dot balls bowled by each team



6. Write a query to fetch the total number of dismissals by dismissal kinds where dismissal kind is not NA

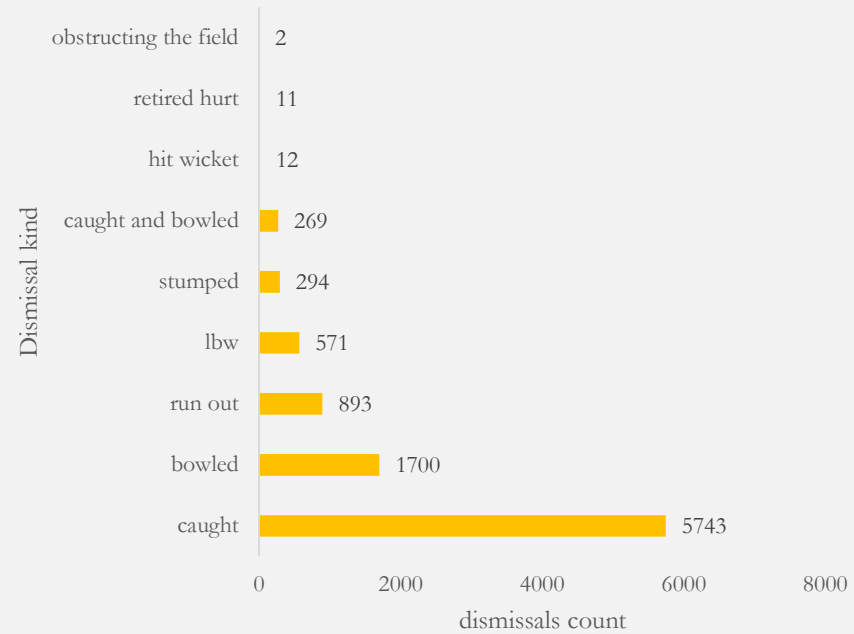
### **Total number of dismissals by dismissal kinds**

```
select dismissal_kind, count(*) as total_dismissals
from deliveries_v02
where dismissal_kind != 'NA'
group by dismissal_kind
order by total_dismissals desc;
```



	<b>dismissal_kind</b> character varying (255) 🔒	<b>total_dismissals</b> bigint 🔒
1	caught	5743
2	bowled	1700
3	run out	893
4	lbw	571
5	stumped	294
6	caught and bowled	269
7	hit wicket	12
8	retired hurt	11
9	obstructing the field	2

### Dismissals by dismissal kinds





7. Write a query to get the top 5 bowlers who conceded maximum extra runs from the deliveries table

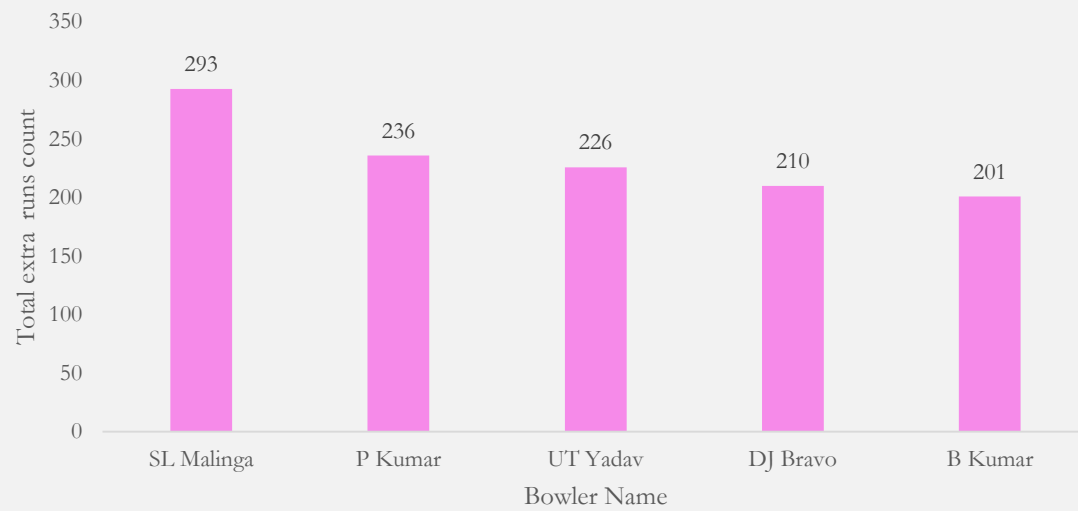
### **Top 5 bowlers who conceded maximum extra runs**

```
select bowler, sum(extra_runs) as total_extra_runs
from deliveries_v02
group by bowler
order by total_extra_runs desc
limit 5;
```

	<b>bowler</b> character varying (255) 🔒	<b>total_extra_runs</b> bigint 🔒
1	SL Malinga	293
2	P Kumar	236
3	UT Yadav	226
4	DJ Bravo	210
5	B Kumar	201



Top 5 bowlers with maximum extra runs



8. Write a query to create a table named deliveries\_v03 with all the columns of deliveries\_v02 table and two additional column (named venue and match\_date) of venue and date from table matches

**create a table named deliveries\_v03**

```
create table deliveries_v03 as
select d2.*, m.venue, m.date as match_date
from deliveries_v02 d2
join matches m on d2.id = m.id;
```



```
SELECT 193468
```

Query returned successfully in 2 secs 569 msec.

<b>bowling_team</b> character varying (255) 🔒	<b>ball_result</b> text 🔒	<b>venue</b> character varying (255) 🔒	<b>match_date</b> date 🔒
Royal Challengers Bangalore	other	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	other	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	dot	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	other	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	other	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	other	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	other	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	other	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	dot	M Chinnaswamy Stadium	2008-04-18
Royal Challengers Bangalore	dot	M Chinnaswamy Stadium	2008-04-18

9. Write a query to fetch the total runs scored for each venue and order it in the descending order of total runs scored.

### **Total runs scored for each venue**

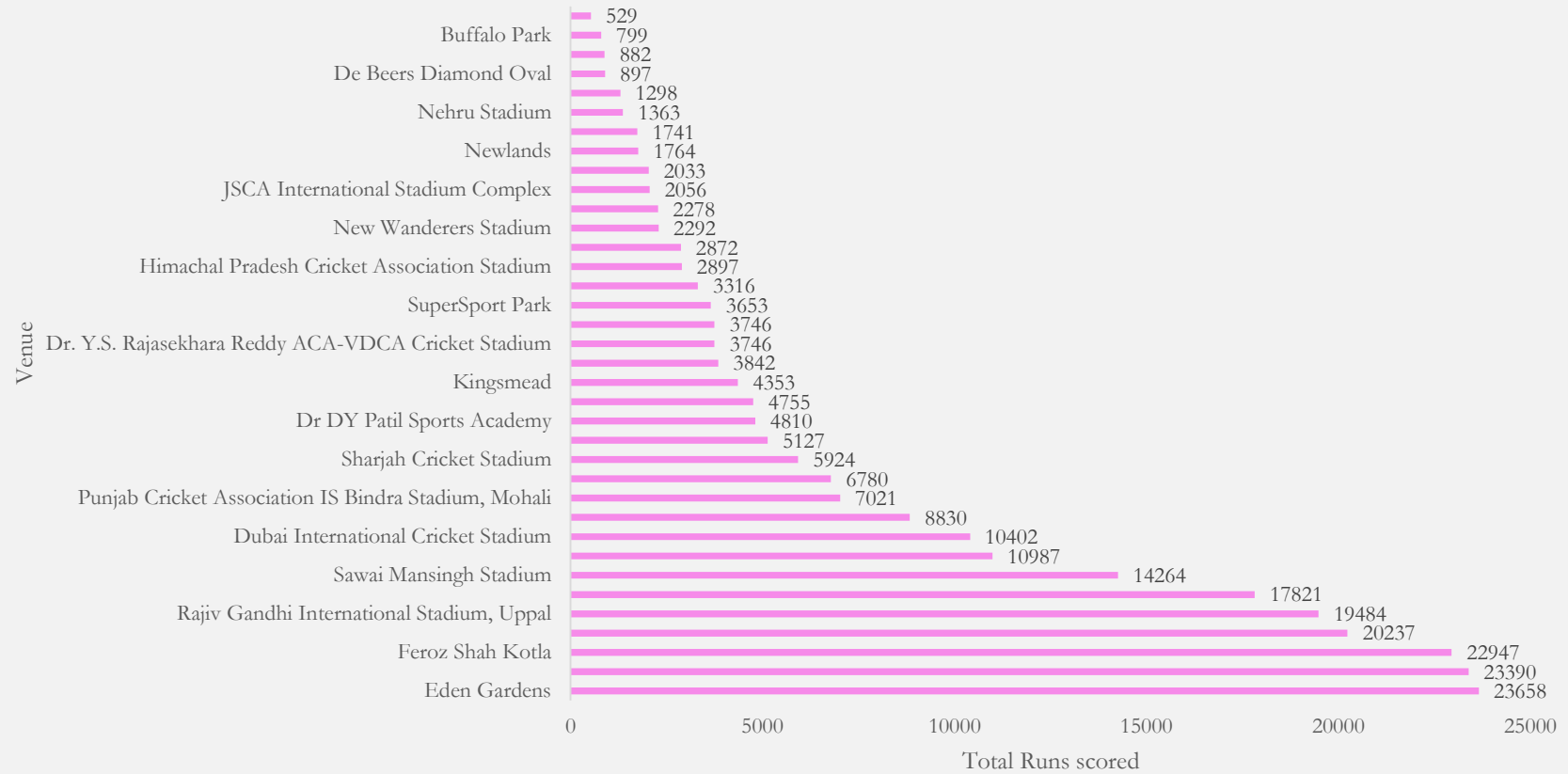
```
select venue, sum(total_runs) as total_runs_scored
from deliveries_v03
group by venue
order by total_runs_scored desc;
```



	venue character varying (255)	total_runs_scored bigint
1	Eden Gardens	23658
2	Wankhede Stadium	23390
3	Feroz Shah Kotla	22947
4	M Chinnaswamy Stadium	20237
5	Rajiv Gandhi International Stadium, Uppal	19484
6	MA Chidambaram Stadium, Chepauk	17821
7	Sawai Mansingh Stadium	14264
8	Punjab Cricket Association Stadium, Mohali	10987
9	Dubai International Cricket Stadium	10402
10	Sheikh Zayed Stadium	8830
11	Punjab Cricket Association IS Bindra Stadium, Moh...	7021
12	Maharashtra Cricket Association Stadium	6780
13	Sharjah Cricket Stadium	5924
14	M.Chinnaswamy Stadium	5127
15	Dr DY Patil Sports Academy	4810
16	Subrata Roy Sahara Stadium	4755
17	Kingsmead	4353
18	Brabourne Stadium	3842
19	Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadi...	3746
20	Sardar Patel Stadium, Motera	3746
21	SuperSport Park	3653

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22	Saurashtra Cricket Association Stadium	3316
23	Himachal Pradesh Cricket Association Stadium	2897
24	Holkar Cricket Stadium	2872
25	New Wanderers Stadium	2292
26	Barabati Stadium	2278
27	JSCA International Stadium Complex	2056
28	St George's Park	2033
29	Newlands	1764
30	Shaheed Veer Narayan Singh International Stadium	1741
31	Nehru Stadium	1363
32	Green Park	1298
33	De Beers Diamond Oval	897
34	Vidarbha Cricket Association Stadium, Jamtha	882
35	Buffalo Park	799
36	OUTsurance Oval	529

Total runs scored for each venue





10. Write a query to fetch the year-wise total runs scored at Eden Gardens and order it in the descending order of total runs scored.

### **Year-wise total runs scored at Eden Gardens**

```
select extract(year from match_date::date) as year,  
       sum(total_runs) as total_runs_scored  
from deliveries_v03  
where venue = 'Eden Gardens'  
group by year  
order by total_runs_scored desc;
```

	year numeric 🔒	total_runs_scored bigint 🔒
1	2018	2885
2	2019	2651
3	2015	2386
4	2013	2304
5	2017	2194
6	2010	2167
7	2016	2073
8	2012	2012
9	2011	1854
10	2008	1843
11	2014	1289



Year-wise total runs scored at Eden Gardens

