

# Using SQL 'ICC ODI World Cup India 2023' Analysis



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# MY MOTIVATION TO ANALYSIS

In INDIA we all are Fans of Cricket sport. For some people, cricket is a religion. I am one of the fans of Cricket sport. Interestingly in 2023, INDIA is the Host country for the ODI World Cup.

INDIA was playing quite well. Unfortunately, INDIA lost the World Cup finals.

I was surfing on internet when I got this super interesting data from the online website Kaggle.

So I decided to extract the insights from this data using SQL. With the help of this data, I got help to understand where we lost!



# WHERE THESE INSIGHTS GET IN USE

- To analyze insights of cricket in general because cricket is a team sport.
- Analyze lost matches for better game understanding in the next match.
- We can analyze player-to-player performance battles for game Improvement
- To analyze single-player overall performance in every match and also in the whole tournament.
- With the help of this analysis, we can improve more for the next match and can do better tactics. etc.





# PURPOSE OF PROJECT



TO IDENTIFY  
WHERE INDIA  
LOST THE  
FINAL AFTER  
ANALYST  
BLAMED TO  
ONLY  
BOWLERS





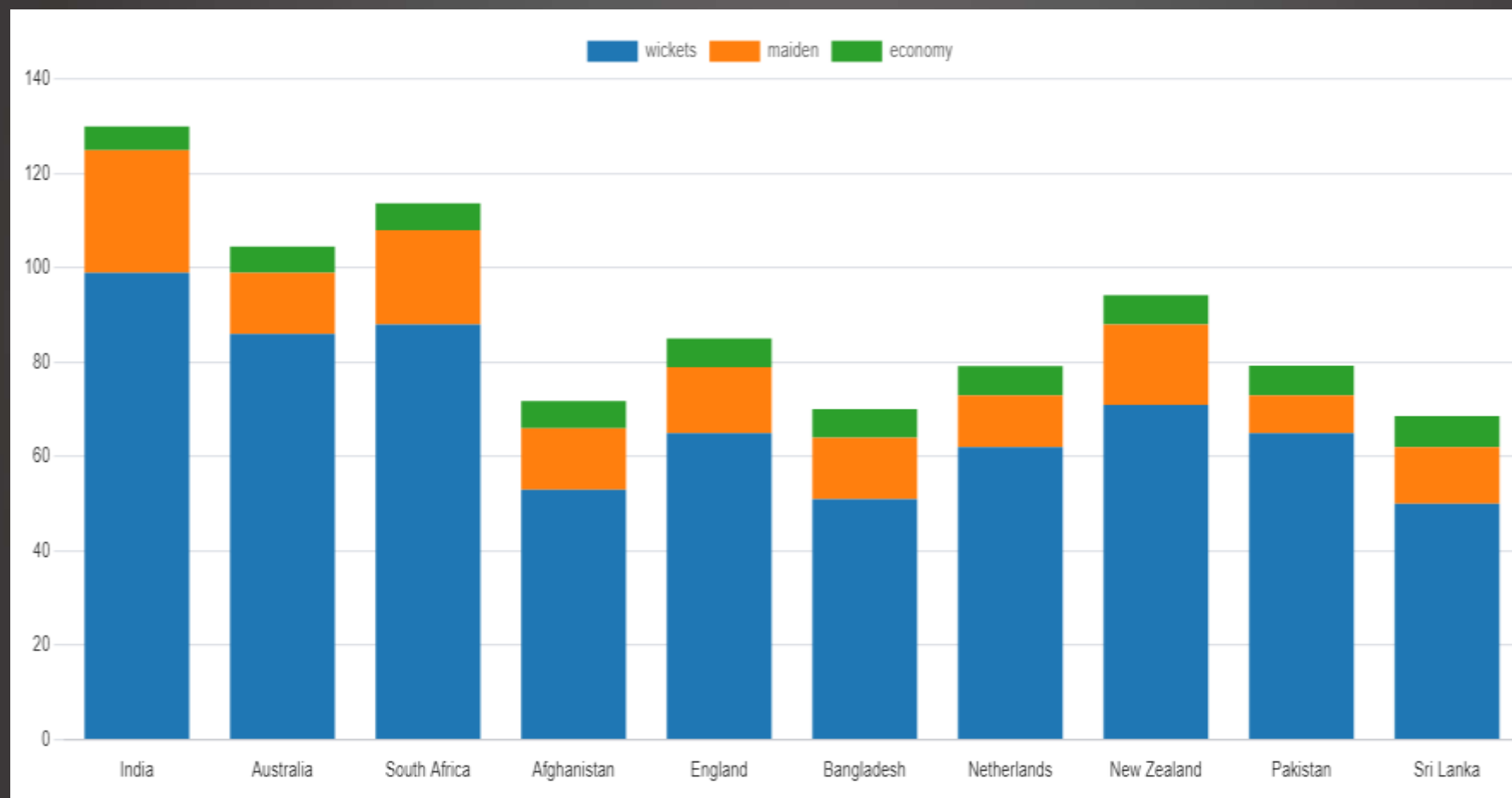
# ALL TEAMS BOWLING DATA

```
SELECT
    bowling_team,
    SUM(runs) AS runs,
    SUM(wickets) AS wickets,
    SUM(maiden) AS maiden,
    AVG(economy) AS economy
FROM
    bowling_summary
GROUP BY
    bowling_team
ORDER BY
    economy ASC;
```

	bowling_team character varying	runs numeric	wickets numeric	maiden numeric	economy numeric
1	India	2220	99	26	5.0022031250000000
2	Australia	2749	86	13	5.5182318840579710
3	South Africa	2324	88	20	5.6852407407407407
4	Afghanistan	2144	53	13	5.7655818181818182
5	England	2261	65	14	6.0709622641509434
6	Bangladesh	2414	51	13	6.0984615384615385
7	Netherlands	2527	62	11	6.2045517241379310
8	New Zealand	2664	71	17	6.2387619047619048
9	Pakistan	2566	65	8	6.2900192307692308
10	Sri Lanka	2424	50	12	6.6078333333333333



# ALL TEAMS BOWLING DATA







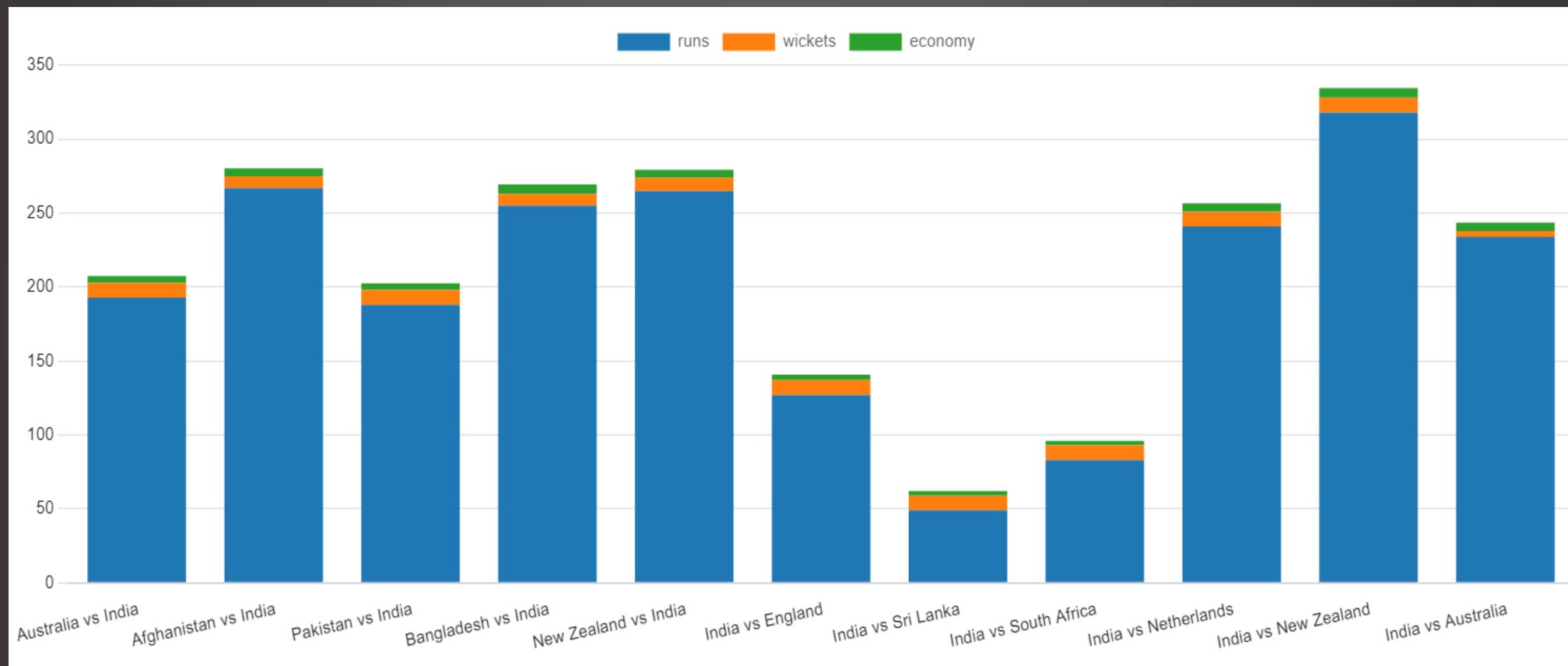
# INDIA BOWLING DATA EVERY MATCH

```
SELECT
    match_no,
    match_between,
    SUM(runs) AS runs,
    SUM(wickets) AS wickets,
    AVG(economy) AS economy
FROM
    bowling_summary
WHERE
    bowling_team = 'India'
GROUP BY
    match_no, match_between
ORDER BY
    match_no ASC;
```

	match_no numeric	match_between character varying	runs numeric	wickets numeric	economy numeric
1	5	Australia vs India	193	10	4.5383333333333333
2	9	Afghanistan vs India	267	8	5.4000000000000000
3	12	Pakistan vs India	188	10	4.6650000000000000
4	17	Bangladesh vs India	255	8	6.4508571428571429
5	21	New Zealand vs India	265	9	5.3000000000000000
6	29	India vs England	127	10	3.7224000000000000
7	33	India vs Sri Lanka	49	10	2.9972000000000000
8	37	India vs South Africa	83	10	3.0144000000000000
9	45	India vs Netherlands	241	10	5.7344444444444444
10	46	India vs New Zealand	318	10	6.5528000000000000
11	48	India vs Australia	234	4	5.5642000000000000



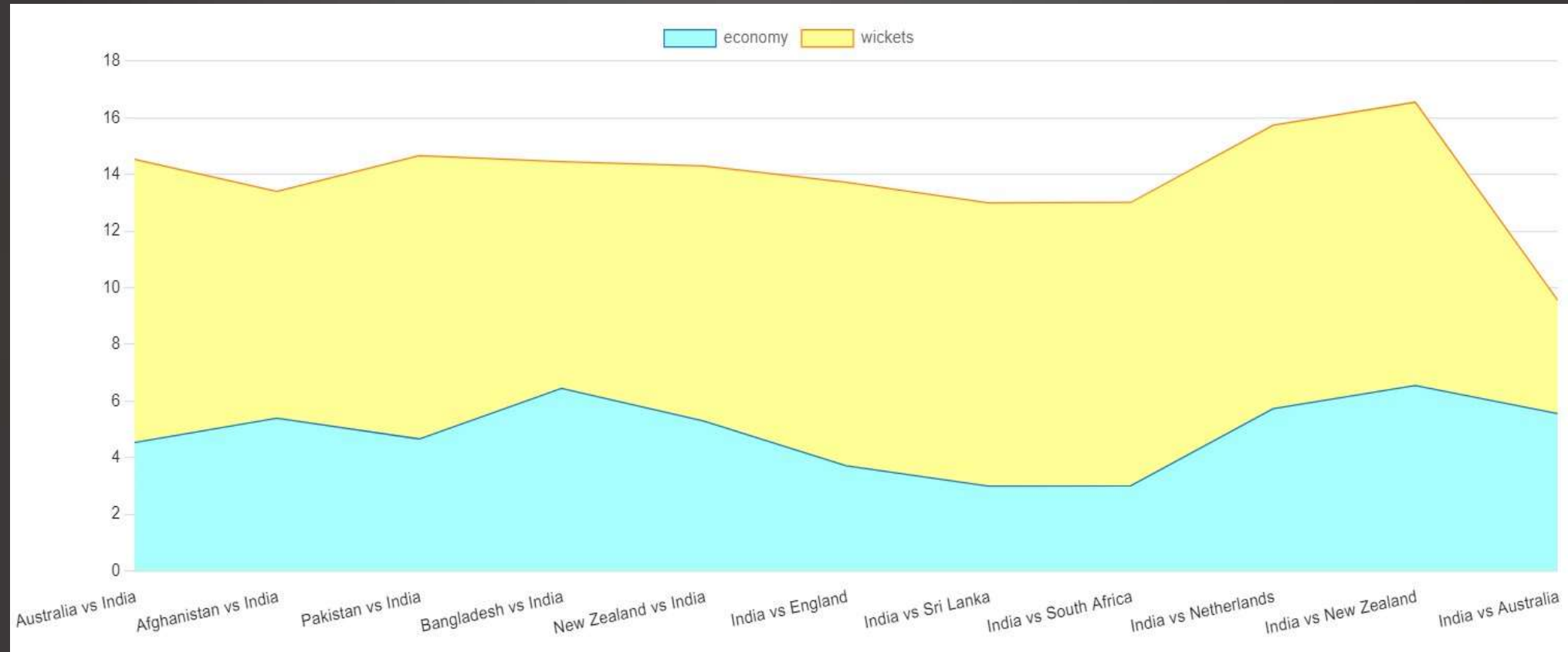
# INDIA BOWLING DATA EVERY MATCH







# INDIA BOWLING DATA EVERY MATCH





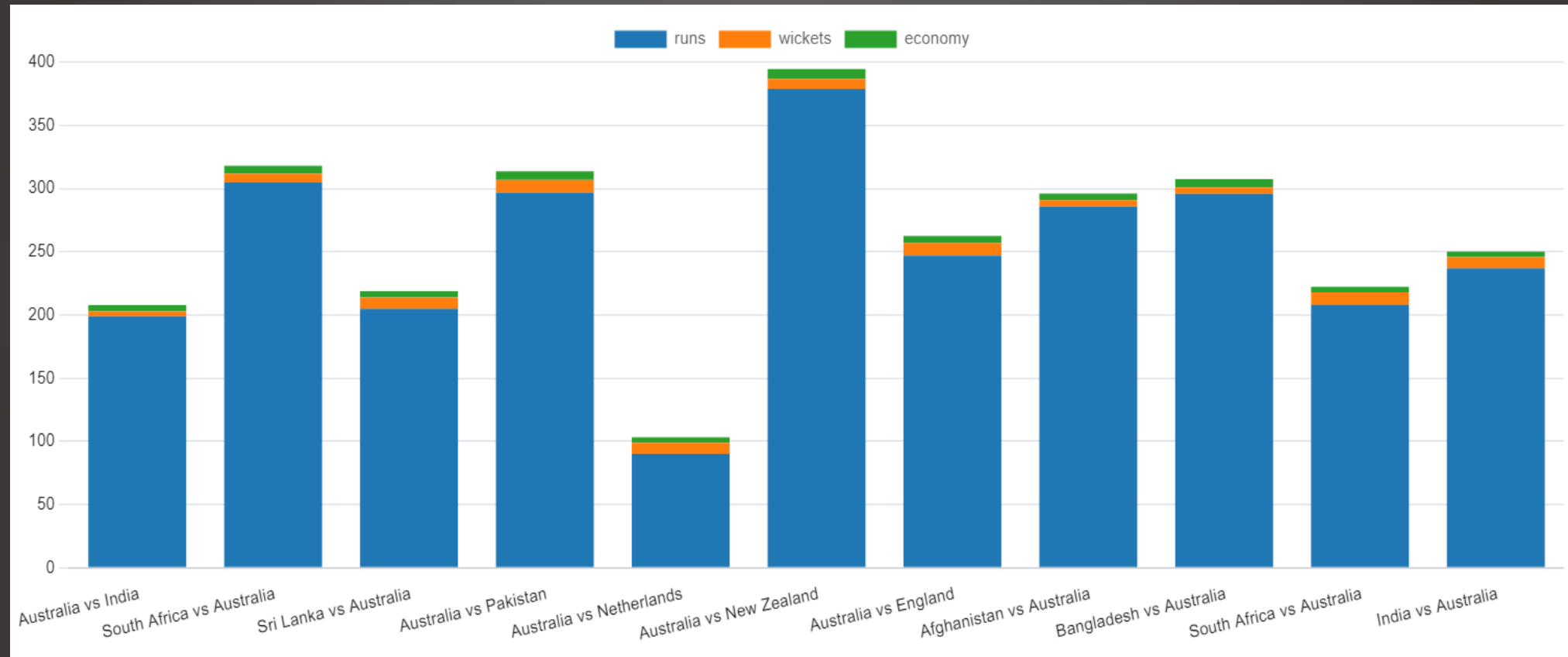
# AUSTRALIA BOWLING DATA EVERY MATCH

```
SELECT
    match_no,
    match_between,
    SUM(runs) AS runs,
    SUM(wickets) AS wickets,
    AVG(economy) AS economy
FROM
    bowling_summary
WHERE
    bowling_team = 'Australia'
GROUP BY
    match_no, match_between
ORDER BY
    match_no ASC;
```

	match_no numeric	match_between character varying	runs numeric	wickets numeric	economy numeric
1	5	Australia vs India	199	4	4.9263333333333333
2	10	South Africa vs Australia	305	7	6.0492857142857143
3	14	Sri Lanka vs Australia	205	9	4.8630000000000000
4	18	Australia vs Pakistan	297	10	6.8986666666666667
5	24	Australia vs Netherlands	90	9	4.1834000000000000
6	27	Australia vs New Zeala...	379	8	7.8111666666666667
7	36	Australia vs England	247	10	5.5075000000000000
8	39	Afghanistan vs Australia	286	5	5.1842857142857143
9	43	Bangladesh vs Australia	296	5	6.5428571428571429
10	47	South Africa vs Australia	208	10	4.2888333333333333
11	48	India vs Australia	237	9	4.2332857142857143

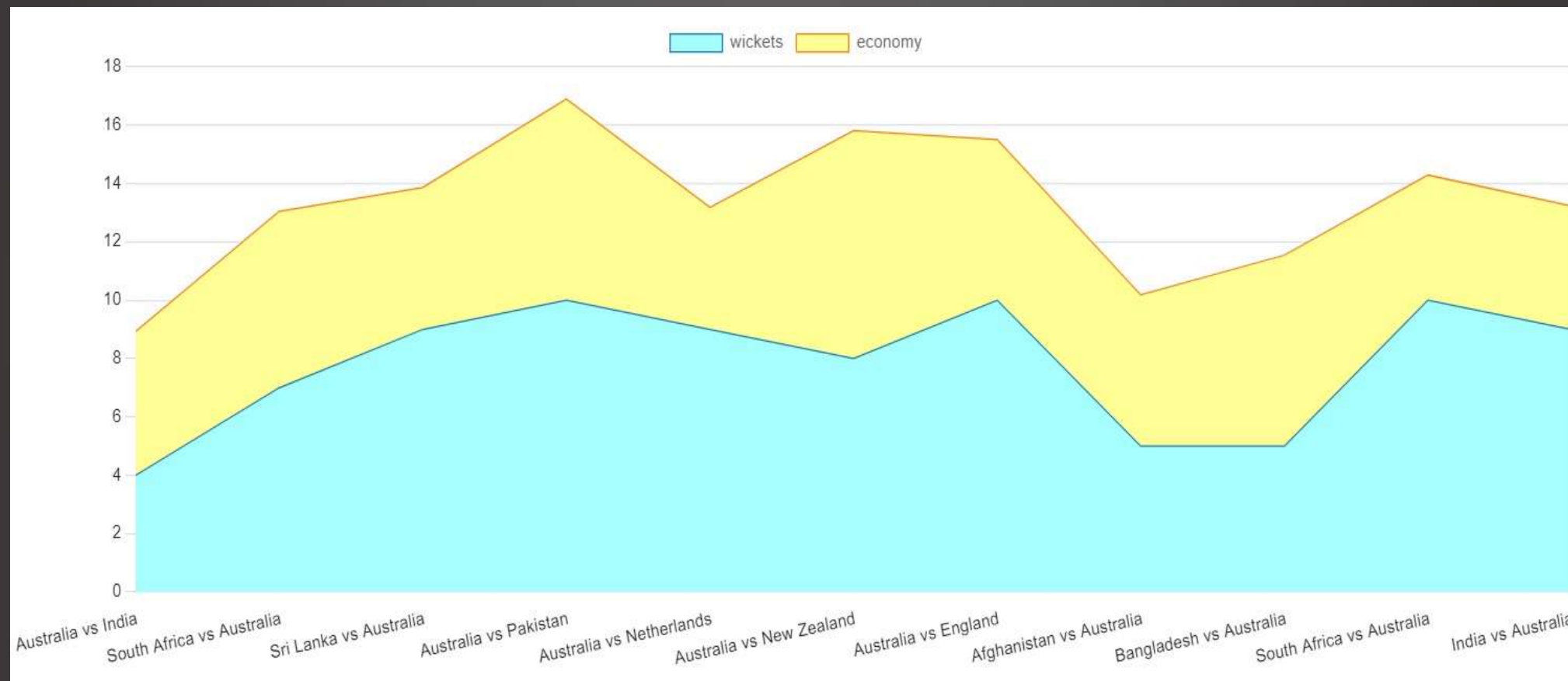


# AUSTRALIA BOWLING DATA EVERY MATCH





# AUSTRALIA BOWLING DATA EVERY MATCH







# TOP 5 BOWLERS

```
SELECT
    bowler_name,
    bowling_team,
    SUM(runs)AS total_runs,
    SUM(wickets)AS total_wickets,
    SUM(maiden)AS total_maiden,
    SUM(overs)AS total_overs,
    AVG(economy)AS avg_economy
FROM
    BOWLING_SUMMARY
GROUP BY
    bowler_name,bowling_team
ORDER BY
    total_wickets DESC
LIMIT 5;
```

	bowler_name character varying	bowling_team character varying	total_runs numeric	total_wickets numeric	total_maiden numeric	total_overs numeric	avg_economy numeric
1	Mohammed Shami	India	257	24	4	48.5	5.1410000000000000
2	Adam Zampa	Australia	515	23	1	96	5.2930909090909091
3	Dilshan Madushanka	Sri Lanka	525	21	4	77.8	6.7901111111111111
4	Gerald Coetzee	South Africa	396	20	1	63.3	6.4451250000000000
5	Jasprit Bumrah	India	373	20	9	91.5	3.8761818181818182



# BOWLERS WHO TAKE 5 WICKETS IN SINGLE MATCH

```
SELECT * FROM
    bowling_summary
WHERE
    wickets >= 5
ORDER BY
    wickets DESC;
```

	match_no numeric	match_between character varying	bowling_team character varying	bowler_name character varying	overs numeric	maiden numeric	runs numeric	wickets numeric	economy numeric
1	46	India vs New Zealand	India	Mohammed Shami	9.5	0	57	7	5.797
2	18	Australia vs Pakistan	Pakistan	Shaheen Afridi	10	1	54	5	5.4
3	21	New Zealand vs India	India	Mohammed Shami	10	0	54	5	5.4
4	6	New Zealand vs Netherlands	New Zealand	Mitchell Santner	10	0	59	5	5.9
5	33	India vs Sri Lanka	India	Mohammed Shami	5	1	18	5	3.6
6	37	India vs South Africa	India	Ravindra Jadeja	9	1	33	5	3.667
7	33	India vs Sri Lanka	Sri Lanka	Dilshan Madushanka	10	0	80	5	8



# WHERE INDIA LOSE ?

	match_no numeric	match_date character varying	venue character varying	team_1 character varying	team_2 character varying	winner character varying
1	5	Oct-08	Chennai	India	Australia	India
2	9	Oct-11	Delhi	India	Afghanistan	India
3	12	Oct-14	Ahmedabad	India	Pakistan	India
4	17	Oct-19	Pune	India	Bangladesh	India
5	21	Oct-22	Himachal Pradesh Cricket Association Stadium, Dharamsa...	India	New Zealand	India
6	29	Oct-29	Ekana Cricket Stadium Lucknow	India	England	India
7	37	Nov-05	Kolkata	India	South Africa	India
8	45	Nov-12	Bengaluru	India	Netherlands	India
9	46	Nov-15	Mumbai	India	New Zealand	India
10	33	Nov-02	Mumbai	India	Sri Lanka	India
48		Nov-19	Ahmedabad	India	Australia	Australia



# CHASING OR DEFENDING

1. CHASING – AUSTRALIA	WON BY 6 WICKETS	199 ALL OUT
2. CHASING – AFGHANISTAN	WON BY 8 WICKETS	272/8
3. CHASING – PAKISTAN	WON BY 7 WICKETS	191 ALL OUT 20 OV
4. CHASING – BANGLADESH	WON BY 7 WICKETS	256/8
5. CHASING – NEWZEALAND	WON BY 4 WICKETS	273 ALL OUT
6. -----		
7. DEFENDING – ENGLAND	WON BY 100 RUNS	229/9
8. DEFENDING – SRILANKA	WON BY 302 RUNS	357/8
9. DEFENDING – SOUTH AFRICA	WON BY 243 RUNS	326/5
10.DEFENDING – NETHERLANDS	WON BY 160 RUNS	410/4
11.DEFENDING – NEWZEALAND	WON BY 70 RUNS	397/4
12.DEFENDING – AUSTRALIA	LOST BY 6 WICKETS	240 RUNS ALL OUT 7 OV







# OVER ALL BATTING SUMMARY BY COUNTRYOVERALL

```
SELECT
    team_innings,
    SUM(runs) AS runs,
    SUM(fours) AS fours,
    SUM(sixes) AS sixes,
    AVG(strike_rate) AS strike_rate
FROM
    batting_summary
GROUP BY
    team_innings
ORDER BY
    strike_rate DESC;
```



# OVERALL BATTING SUMMARY BY COUNTRY

	team_innings character varying (100) 🔒	runs numeric 🔒	fours numeric 🔒	sixes numeric 🔒	strike_rate numeric 🔒
1	India	3038	278	92	97.0545454545454545
2	New Zealand	2712	265	82	93.5785714285714286
3	South Africa	3272	285	115	89.7201834862385321
4	England	2135	216	51	88.5070707070707071
5	Australia	3303	327	103	84.4766666666666667
6	Pakistan	2220	220	60	84.3714285714285714
7	Afghanistan	1990	178	42	76.6200000000000000
8	Bangladesh	1944	188	43	72.9977777777777778
9	Netherlands	1728	163	33	67.7551020408163265
10	Sri Lanka	1942	201	45	64.4977011494252874



# INDIA BATTING STATS EVERY MATCH

```
SELECT
    MATCH_NO,
    MATCH_BETWEEN,
    SUM(RUNS) AS RUNS,
    SUM(STRIKE_RATE) AS STRIKE_RATE,
    SUM(FOURS) AS FOURS,
    SUM(SIXES) AS SIXES
FROM
    BATTING_SUMMARY
WHERE
    TEAM_INNINGS = 'India'
GROUP BY
    MATCH_NO, MATCH_BETWEEN
ORDER BY
    RUNS ASC;
```



# INDIA BATTING STATS EVERY MATCH

	match_no integer	match_between character varying (100)	runs numeric	srike_rate numeric	fours numeric	sixes numeric
1	12	Pakistan vs India	190	521.9	18	8
2	5	Australia vs India	193	295.1	14	3
3	29	India vs England	222	566.5	20	4
4	48	India vs Australia	228	856.0	13	3
5	17	Bangladesh vs India	257	498.6	23	9
6	9	Afghanistan vs India	258	462.9	28	8
7	21	New Zealand vs India	269	719.7	29	7
8	37	India vs South Africa	300	832.0	35	6
9	33	India vs Sri Lanka	337	1079.6	31	9
10	46	India vs New Zealand	389	781.8	30	19
11	45	India vs Netherlands	395	859.1	37	16





# AUSTRALIA BATTING STATS EVERY MATCH

```
SELECT
    MATCH_NO,
    MATCH_BETWEEN,
    SUM(RUNS) AS RUNS,
    SUM(STRIKE_RATE) AS STRIKE_RATE,
    SUM(FOURS) AS FOURS,
    SUM(SIXES) AS SIXES
FROM
    BATTING_SUMMARY
WHERE
    TEAM_INNINGS = 'Australia'
GROUP BY
    MATCH_NO, MATCH_BETWEEN
ORDER BY
    RUNS ASC;
```



# AUSTRALIA BATTING STATS EVERY MATCH

	match_no integer	match_between character varying (100)	runs numeric	srike_rate numeric	fours numeric	sixes numeric
1	5	Australia vs India	187	582.0	16	2
2	14	Sri Lanka vs Australia	212	797.9	22	5
3	48	India vs Australia	223	744.6	22	5
4	36	Australia vs England	276	1030.1	25	3
5	39	Afghanistan vs Australia	278	633.5	30	12
6	43	Bangladesh vs Australia	303	410.3	29	10
7	18	Australia vs Pakistan	342	861.6	29	19
8	10	South Africa vs Australia	358	1434.2	40	6
9	47	South Africa vs Australia	358	1434.2	40	6
10	27	Australia vs New Zealand	379	1137.1	32	20
11	24	Australia vs Netherlands	387	1071.7	42	15

# MAXIMUM RUNS SCORER IN EVERY MATCH

```
WITH temp_max AS
    (SELECT match_no,
        match_between,
        batsman_name,
        runs,
        MAX(runs) OVER (PARTITION BY match_no ORDER BY runs DESC) AS max_runs
    FROM batting_summary)

SELECT match_between,batsman_name,runs FROM temp_max WHERE runs=max_runs
```



# MAXIMUM RUNS SCORER IN EVERY MATCH

	match_between character varying (100)	batsman_name character varying (100)	runs numeric
1	England vs New Zealand	Devon Conway	152
2	Pakistan vs Netherlands	Saud Shakeel	68
3	Pakistan vs Netherlands	Mohammad Rizwan	68
4	Afghanistan vs Bangladesh	Najmul Hossain Shanto	59
5	South Africa vs Sri Lanka	Rassie van der Dussen	108
6	Australia vs India	KL Rahul	97
7	New Zealand vs Netherlan...	Will Young	70
8	England vs Bangladesh	Dawid Malan	140
9	Sri Lanka vs Pakistan	Mohammad Rizwan	131
10	Afghanistan vs India	Rohit Sharma	131
11	South Africa vs Australia	Quinton de Kock	109
12	Bangladesh vs New Zealand	Daryl Mitchell	89
13	Pakistan vs India	Rohit Sharma	86
14	Afghanistan vs England	Rahmanullah Gurbaz	80
15	Sri Lanka vs Australia	Kusal Janith Perera	78
16	Netherlands vs South Africa	Scott Edwards	78

	match_between character varying (100)	batsman_name character varying (100)	runs numeric
17	New Zealand vs Afghanistan	Glenn Phillips	71
18	Bangladesh vs India	Virat Kohli	103
19	Australia vs Pakistan	David Warner	163
20	Netherlands vs Sri Lanka	Sadeera Samarawickrama	91
21	South Africa vs England	Heinrich Klaasen	109
22	New Zealand vs India	Daryl Mitchell	130
23	Pakistan vs Afghanistan	Ibrahim Zadran	87
24	South Africa vs Bangladesh	Quinton de Kock	174
25	Australia vs Netherlands	Glenn Maxwell	106
26	England vs Sri Lanka	Pathum Nissanka	77
27	Pakistan vs South Africa	Aiden Markram	91
28	Australia vs New Zealand	Rachin Ravindra	116
29	Netherlands vs Bangladesh	Scott Edwards	68
30	India vs England	Rohit Sharma	87
31	Sri Lanka vs Afghanistan	Azmatullah Omarzai	73
32	Bangladesh vs Pakistan	Fakhar Zaman	81





# MAXIMUM RUNS SCORER IN EVERY MATCH

33	South Africa vs New Zeala...	Rassie van der Dussen	133
34	India vs Sri Lanka	Shubman Gill	92
35	Netherlands vs Afghanistan	Sybrand Engelbrecht	58
36	New Zealand vs Pakistan	Fakhar Zaman	126
37	Australia vs England	Marnus Labuschagne	71
38	India vs South Africa	Virat Kohli	101
39	Sri Lanka vs Bangladesh	Charith Asalanka	108
40	Afghanistan vs Australia	Glenn Maxwell	201
41	England vs Netherlands	Ben Stokes	108
42	Sri Lanka vs New Zealand	Kusal Janith Perera	51
43	Afghanistan vs South Africa	Azmatullah Omarzai	97
44	Bangladesh vs Australia	Mitchell Marsh	177
45	England vs Pakistan	Ben Stokes	84
46	India vs Netherlands	Shreyas Iyer	128
47	India vs New Zealand	Daryl Mitchell	134
48	South Africa vs Australia	Quinton de Kock	109
49	India vs Australia	Travis Head	137



# TOP BATSMAN RUN SCORER

```
SELECT
    team_innings,
    batsman_name,
    SUM(runs) AS runs,
    SUM(fours) AS fours,
    SUM(sixes) AS sixes,
    AVG(strike_rate) avg_strike_rate
FROM
    BATTING_SUMMARY
GROUP BY
    batsman_name, team_innings
ORDER BY
    runs DESC
LIMIT 10;
```



# TOP BATSMAN RUN SCORER

	team_innings character varying (100) 🔒	batsman_name character varying (100) 🔒	runs numeric 🔒	fours numeric 🔒	sixes numeric 🔒	avg_strike_rate numeric 🔒
1	India	Virat Kohli	765	68	9	83.2090909090909091
2	South Africa	Quinton de Kock	706	65	26	99.1250000000000000
3	India	Rohit Sharma	597	66	31	127.9090909090909091
4	New Zealand	Rachin Ravindra	578	55	17	94.5600000000000000
5	Australia	David Warner	577	53	28	117.2692307692307692
6	New Zealand	Daryl Mitchell	552	48	22	105.5444444444444444
7	India	Shreyas Iyer	530	37	24	96.6727272727272727
8	South Africa	Rassie van der Dussen	480	41	8	63.9416666666666667
9	South Africa	David Miller	474	34	26	120.9583333333333333
10	South Africa	Aiden Markram	472	53	10	141.0500000000000000



# INDIVIDUAL BATTING ORDER INDIA

```
SELECT
    batsman_name,
    team_innings,
    SUM(runs) AS runs,
    SUM(balls) AS balls,
    SUM(fours) AS fours,
    SUM(sixes) AS sixes,
    AVG(strike_rate) AS strike_rate
FROM BATTING_SUMMARY
WHERE BATTING_POSTION = 6
GROUP BY batsman_name,team_innings
ORDER BY runs DESC ;
|
```



# INDIVIDUAL BATTING ORDER INDIA

	batsman_name character varying (100)	team_innings character varying (100)	runs numeric	balls numeric	fours numeric	sixes numeric	strike_rate numeric
1	Quinton de Kock	South Africa	662	639	57	26	92.7200000000000000
2	Rohit Sharma	India	597	474	66	31	127.9090909090909091
3	Devon Conway	New Zealand	372	366	54	4	87.4500000000000000
4	Abdullah Shafique	Pakistan	336	360	36	9	71.3875000000000000
5	Pathum Nissanka	Sri Lanka	332	371	44	3	65.2000000000000000

	batsman_name character varying (100)	team_innings character varying (100)	runs numeric	balls numeric	fours numeric	sixes numeric	strike_rate numeric
1	Ibrahim Zadran	Afghanistan	376	493	39	5	73.6222222222222222
2	Dawid Malan	England	373	361	45	9	90.9375000000000000
3	Shubman Gill	India	354	331	41	12	103.1666666666666667
4	David Warner	Australia	267	266	24	13	111.7750000000000000
5	Travis Head	Australia	246	189	25	11	92.3000000000000000

	batsman_name character varying (100)	team_innings character varying (100)	runs numeric	balls numeric	fours numeric	sixes numeric	strike_rate numeric
1	Virat Kohli	India	765	847	68	9	83.2090909090909091
2	Rassie van der Dussen	South Africa	480	591	41	8	63.9416666666666667
3	Rachin Ravindra	New Zealand	406	380	32	13	96.4833333333333333
4	Rahmat Shah	Afghanistan	320	419	28	2	70.7555555555555556
5	Babar Azam	Pakistan	320	386	32	4	79.1222222222222222





# INDIVIDUAL BATTING ORDER INDIA

	batsman_name character varying (100) 🔒	team_innings character varying (100) 🔒	runs numeric 🔒	balls numeric 🔒	fours numeric 🔒	sixes numeric 🔒	strike_rate numeric 🔒
1	Daryl Mitchell	New Zealand	552	497	48	22	105.54444444444444
2	Shreyas Iyer	India	530	468	37	24	96.67272727272727
3	Aiden Markram	South Africa	466	429	53	9	99.32727272727273
4	Mohammad Rizwan	Pakistan	395	414	38	5	96.77500000000000
5	Sadeera Samarawickrama	Sri Lanka	373	365	36	4	87.26666666666667

	batsman_name character varying (100) 🔒	team_innings character varying (100) 🔒	runs numeric 🔒	balls numeric 🔒	fours numeric 🔒	sixes numeric 🔒	strike_rate numeric 🔒
1	KL Rahul	India	452	498	38	9	96.78000000000000
2	Heinrich Klaasen	South Africa	449	355	35	21	119.77500000000000
3	Azmatullah Omarzai	Afghanistan	331	341	22	13	99.00000000000000
4	Charith Asalanka	Sri Lanka	288	338	19	11	71.41250000000000
5	Saud Shakeel	Pakistan	189	194	23	1	90.46666666666667

	batsman_name character varying (100) 🔒	team_innings character varying (100) 🔒	runs numeric 🔒	balls numeric 🔒	fours numeric 🔒	sixes numeric 🔒	strike_rate numeric 🔒
1	Marco Jansen	South Africa	183	165	12	10	91.20000000000000
2	Sybrand Engelbrecht	Netherlands	134	177	10	1	76.03333333333333
3	Ravindra Jadeja	India	111	96	7	3	122.30000000000000
4	Teja Nidamanuru	Netherlands	109	91	5	9	112.30000000000000
5	Josh Inglis	Australia	94	126	10	1	83.30000000000000



# INDIVIDUAL BATTING ORDER INDIA

	batsman_name character varying (100)	team_innings character varying (100)	runs numeric	balls numeric	fours numeric	sixes numeric	strike_rate numeric
1	David Miller	South Africa	421	429	32	22	115.89090909090909
2	Glenn Maxwell	Australia	389	262	39	22	110.16666666666667
3	Glenn Phillips	New Zealand	269	244	21	13	116.31250000000000
4	Mushfiqur Rahim	Bangladesh	187	227	12	4	72.45000000000000
5	Mahmudullah	Bangladesh	111	111	11	4	100.00000000000000
6	Ikram Alikhil	Afghanistan	89	101	7	3	88.03333333333333
7	Suryakumar Yadav	India	88	77	11	1	115.78333333333333
8	Dhananjaya de Silva	Sri Lanka	87	124	7	2	68.16000000000000
9	Jos Buttler	England	63	60	4	3	120.73333333333333
10	Iftikhar Ahmed	Pakistan	61	45	6	3	132.95000000000000
11	Scott Edwards	Netherlands	58	67	2	1	66.40000000000000
12	Moeen Ali	England	57	74	6	0	73.05000000000000
13	Saud Shakeel	Pakistan	52	52	7	0	100.00000000000000
14	Agha Salman	Pakistan	51	45	6	1	113.30000000000000
15	Cameron Green	Australia	47	52	5	0	90.40000000000000
16	Shakib Al Hasan	Bangladesh	43	64	4	0	67.20000000000000
17	Bas de Leede	Netherlands	42	71	5	0	60.87500000000000
18	Shadab Khan	Pakistan	40	38	1	1	105.30000000000000
19	Mohammad Nabi	Afghanistan	37	49	1	1	80.13333333333333
20	Harry Brook	England	30	17	2	2	176.50000000000000



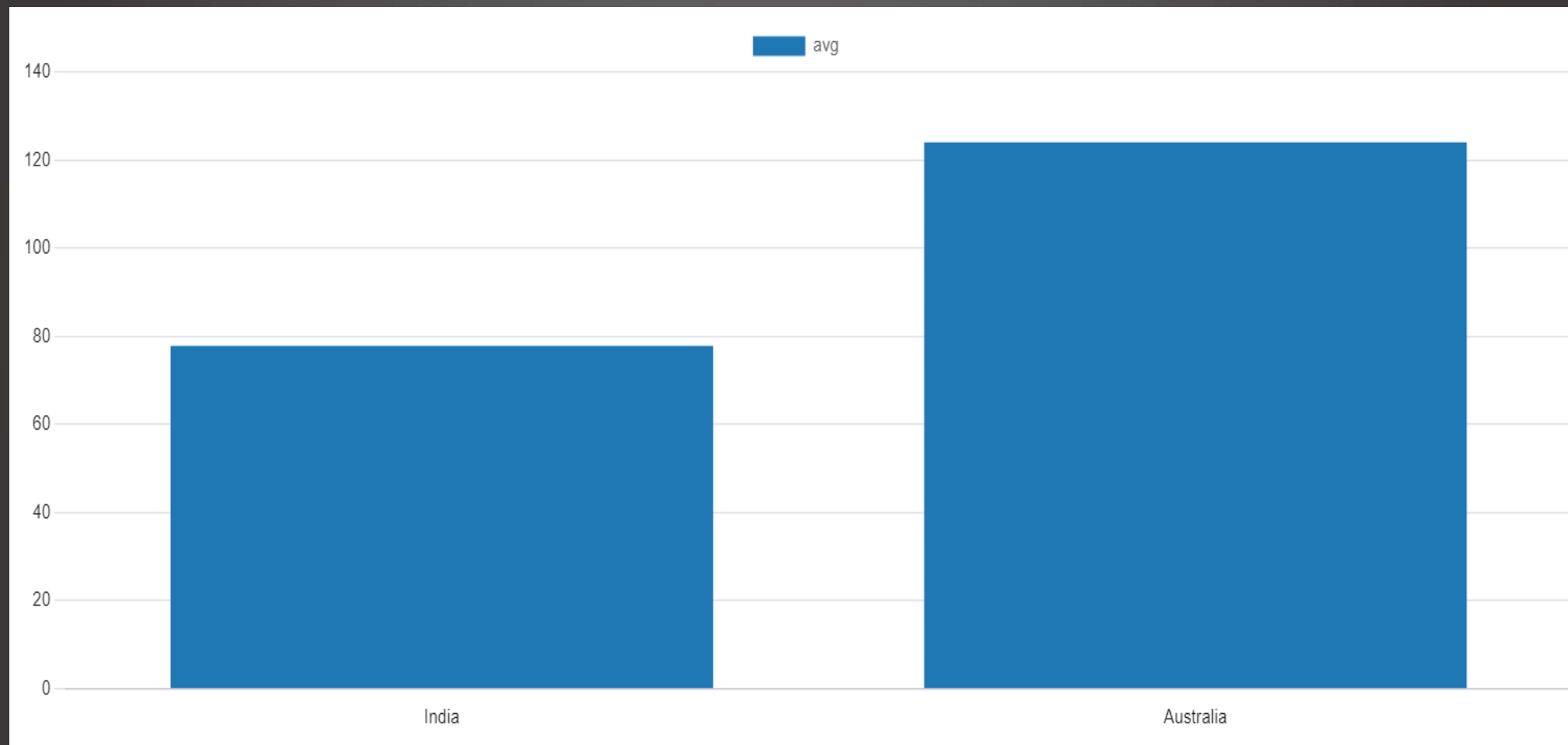


# FINAL MATCH WHERE WE LOST

```
SELECT
    team_innings,
    AVG(strike_rate)
FROM
    batting_summary
WHERE
    match_no=48
GROUP BY
    team_innings;
```



# FINAL MATCH WHERE WE LOST





# KEY POINTS

1. CHASING IS MUCH MORE COMFORTABLE AND GOOD DECISION FOR INDIA RATHER THAN DEFENDING
2. WE ALREADY PLAYED ON AHMEDABAD PITCH WHICH WAS SUCCESSFUL WHILE CHASING
3. AVERAGE RUNS WHILE DEFENDING IS SHORT
4. IN THE FINAL MATCH RUNS ARE IMPORTANT BUT STRIKE RATE IS MUCH MORE IMPORTANT BECAUSE THE OPPONENT TEAM FEELS PRESSURE WHILE PLAYING ARE