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# Virat Kohli Batting Performance Analysis

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#### Content

- Overview
- Introduction
- Objective
- Project Sequence
  - Data Gathering
  - Data Loading
  - Data Cleaning
  - Data Modelling
  - Insights
  - Dashboards
  - Recommendation & Valuable Aspects
- Conclusion



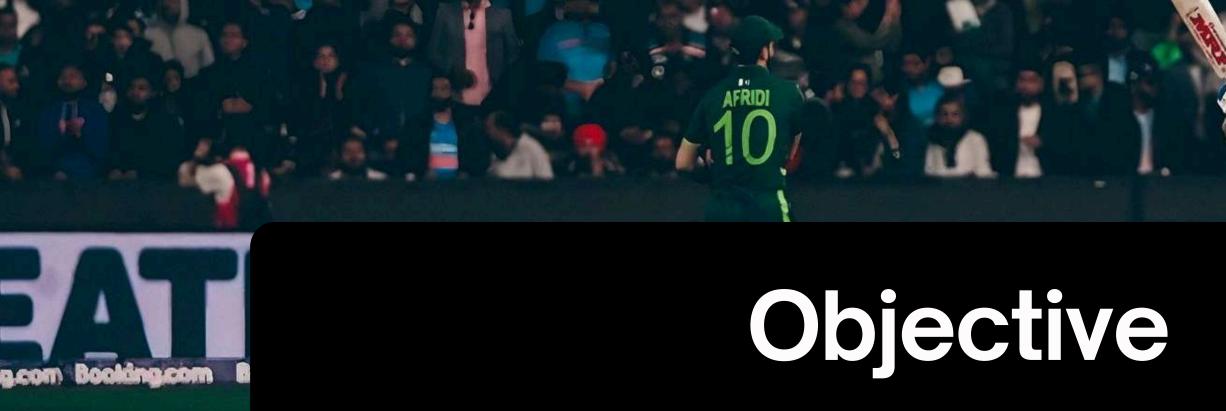


This project provides a detailed analysis of Virat Kohli's batting performances across two major cricket formats: red-ball (Test) and white-ball (ODI and T20). The project highlights Kohli's key batting statistics, milestones, and performances under various conditions. Through interactive and visually appealing dashboards, users can explore his consistency, adaptability, and contributions to the game, offering insights into how he has excelled as a cricketer across formats.



## Introduction

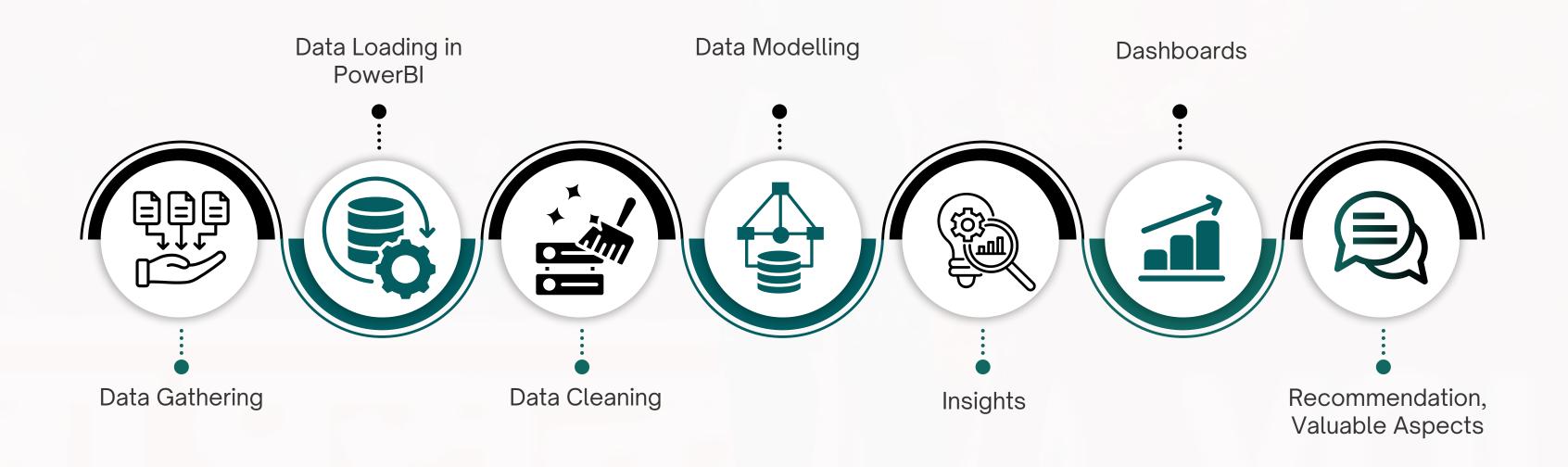
Virat Kohli, one of the most celebrated cricketers of the modern era, has made significant contributions to the game in both red-ball (Test) and white-ball (ODI and T20) cricket. Known for his passion, technique, and consistency, Kohli has set benchmarks across formats, becoming a role model for aspiring cricketers worldwide.



- To analyze and compare Virat Kohli's batting performances in red-ball and white-ball cricket.
- To identify patterns and trends in his performance, including runs scored, average, strike rate, and centuries across formats.
- To evaluate his adaptability to different playing conditions, formats, and roles within the team.
- To provide interactive visualizations that highlight key milestones.



# Project Sequence



#### **Data Gathering**

Data has been collected from howstat.com using web scraping.

#### **Data Loading**

Data is imported through a csv file into PowerBI.

There are 3 tables imported:

- kohli\_odi1
- kohli\_t20i
- kohli\_test1

fatch =	Innings	*	Date *	M/Inns *	Position *	VS *	Ground	How Dismissed	* Runs	*	BF *	SR *	runs1 *	bf1 *	Avg
11	10		Monday, November 2, 2009	2nd	3	Australia	PunjaBowled Cricket Association IS Bindra Stadiun	n Caught		10	16	62.5	296	426	5
17	15		Thursday, January 7, 2010	2nd	3	Bangladesh	Shere Bangla National Stadium	Caught		91	102	89.22	584	738	44.
23	20		Saturday, February 27, 2010	2nd	3	South Africa	Narendra Modi Stadium	Caught		57	71	80.28	847	1026	52.
25	22		Sunday, May 30, 2010	2nd	3	Sri Lanka	Queens Sports CluBowled	Caught		82	92	89.13	929	1118	51,
32	29		Monday, August 16, 2010	2nd	3	Sri Lanka	Rangiri DamBowledulla International Stadium	Caught		0	3	0	1082	1342	43.
34	31		Saturday, August 28, 2010	2nd	3	Sri Lanka	Rangiri DamBowledulla International Stadium	Caught		37	57	64.91	1127	1415	41.
35	32		Wednesday, October 20, 2010	2nd	3	Australia	Dr YS Rajasekhara Reddy Cricket Stadium	Caught	1	118	121	97.52	1245	1536	44.
37	34		Wednesday, December 1, 2010	2nd	3	New Zealand	Sawai Mansingh Stadium	Caught		64	73	87.67	1414	1713	47.
39	36		Tuesday, December 7, 2010	2nd	3	New Zealand	M Chinnaswamy Stadium	Caught		0	2	0	1477	1785	47.
40	37		Friday, December 10, 2010	2nd	3	New Zealand	MA ChidamBowledaram Stadium	Caught		2	8	25	1479	1793	46.
41	38		Wednesday, January 12, 2011	2nd	3	South Africa	Kingsmead	Caught		54	70	77.14	1533	1863	46.
43	40		Tuesday, January 18, 2011	2nd	3	South Africa	Newlands	Caught		28	41	68.29	1583	1938	45.
45	42		Sunday, January 23, 2011	2nd	3	South Africa	SuperSport Park	Caught		2	6	33,33	1672	2036	46.
55	52		Monday, June 6, 2011	2nd	3	West Indies	Queen's Park Oval	Caught		2	8	25	1956	2387	43.
56	53		Wednesday, June 8, 2011	2nd	3	West Indies	Queen's Park Oval	Caught		81	103	78.64	2037	2490	44,
75	72		Sunday, February 5, 2012	2nd	3	Australia	MelBowledourne Cricket Ground	Caught		31	34	91.18	2891	3441	46.
77	74		Sunday, February 12, 2012	2nd	3	Australia	Adelaide Oval	Caught		18	28	64.29	2986	3563	46.
79	76		Sunday, February 19, 2012	2nd	3	Australia	BrisBowledane Cricket Ground	Caught		12	25	48	3013	3613	45.
85	82		Sunday, March 18, 2012	2nd	3	Pakistan	Shere Bangla National Stadium	Caught	4	183	148	123.65	3590	4159	50.
88	85		Saturday, July 28, 2012	2nd	3	Sri Lanka	R Premadasa Stadium	Caught		38	65	58.46	3735	4342	50.
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ion 🔻	VS	*	Ground	-	How Dismissed	*	Runs	-	BF	*	SR	*	runs1	*	bf1	A	vg	*	sr1 =	Fo
	West Indie	es	Queen's Park Oval		Caught			14		12	116.	67		68	5	2	3	34	130.77	
	England		Eden Gardens		Caught			15		16	93.	75		87	7	3	21.7	75	119.18	
	Australia		ANZ Stadium		Caught			22		21	104.	76	3	109	9	4	21.	.8	115.96	
	Australia		Melbourne Cricket Ground		Caught			31		24	129.	17		140	11	8	23.3	33	118.64	i
	Sri Lanka		Pallekele International Cricket Stadium		Caught			68		48	141.	67	2	208	16	6	29.7	71	125.3	i
	Afghanista	n	R Premadasa Stadium		Caught			50		39	128.	21		328	24	6	36.4	14	133.33	
	England		R Premadasa Stadium		Caught			40		32	1	25		368	27	8	36.	.8	132.37	ř
	Australia		R Premadasa Stadium		Caught			15		13	115.	38	- 3	383	29	1	34.8	32	131.62	ŀ
	Pakistan		R Premadasa Stadium		Not Out			78		61	127.	87	12	461	35	2	41.9	)1	130.97	
	South Afri	ca	R Premadasa Stadium		Caught			2		6	33.	33	- 4	463	35	8	38.5	8	129.33	
	England		Maharashtra Cricket Association Stadium		Bowled			21		17	123.	53		484	37	5	37.2	23	129.07	i
	England		Wankhede Stadium		LBW			38		20	1	90		522	39	5	37.2	29	132.15	ŀ
	Pakistan		M Chinnaswamy Stadium		Caught			9		11	81.	82	9	531	40	6	35.	.4	130.79	ŀ

310	5	west indies	Sabina Park	Caugnt	13	34	21.70	19	04
1st	5	West Indies	Kensington Oval	Caught	0	2	0	19	66
3rd	5	West Indies	Kensington Oval	Caught	27	107	25.23	46	173
2nd	5	West Indies	Windsor Park	Caught	30	53	56.6	76	226
4th	DNB	West Indies	Windsor Park	DNB	0	0	0	76	226
2nd	6	West Indies	Wankhede Stadium	Caught	52	111	46.85	128	337
4th	6	West Indies	Wankhede Stadium	Caught	63	114	55.26	191	451
2nd	7	Australia	Melbourne Cricket Ground	Caught	11	21	52.38	202	472
4th	6	Australia	Melbourne Cricket Ground	LBW	0	1	0	202	473
1st	6	Australia	Sydney Cricket Ground	Caught	23	41	56.1	225	514
3rd	6	Australia	Sydney Cricket Ground	LBW	9	24	37.5	234	538
1st	6	Australia	WACA Ground	Caught	44	81	54.32	278	619
3rd	6	Australia	WACA Ground	Caught	75	136	55.15	353	755
2nd	6	Australia	Adelaide Oval	LBW	116	213	54.46	469	968
4th	6	Australia	Adelaide Oval	Run Out	22	62	35.48	491	1030
1st	5	New Zealand	Rajiv Gandhi International Stadium	Caught	58	107	54.21	549	1137
1st	5	New Zealand	Rajiv Gandhi International Stadium	Caught	58	107	54.21	549	)

#### **Data Cleaning**

During data cleaning, various transformations are applied to the loaded data to ensure its quality and consistency.

Columns that contains incorrect data replace with correct data.

Match =	Inning	29 =		Date =	M/Inn	s Position	VS		Gro	und		* H	ow Dismissed	- Runs	* B	F SI	R -	runs1 =	bf1 + /	Avg +
	10		Mond	lay, November 2, 2009		3	Australia		PunjaBowled Cricket As	sociation IS Bind	ra Stadii	um Ca	aught		10	16	62.5	296	426	^
17	15		Thui	rsday, January 7, 2010	2nd	3	Bangladesh		Shere Bangla National S	itadium		Ca	aught		91	102	89.22	584	738	44.
23	20		Satura	lay, February 27, 2010	2nd	3	South Africa		Narendra Modi Stadium	1		Ca	aught		57	71	80.28	847	1026	52.
25	22		1	Sunday, May 30, 2010	2nd	3	Sri Lanka		Queens Sports CluBowl	ed		Ca	aught		82	92	89.13	929	1118	51.
32	29		Moi	nday, August 16, 2010	2nd	3	Sri Lanka		Rangiri DamBowledulla	International St	dium	Ca	aught		0	3	0	1082	1342	43.
34	31		Satu	rday, August 28, 2010	2nd	3	Sri Lanka		Rangiri DamBowledulla	International St	dium	Ca	aught		37	57	64.91	1127	1415	41.
35	32	t	Nednes	day, October 20, 2010	2nd	3	Australia		Dr YS Rajasekhara Redd	y Cricket Stadiur	n	Ca	aught	1	18	121	97.52	1245	1536	44.
	34	и		lay, December 1, 2010		3	New Zealand		Sawai Mansingh Stadiur				aught		64		87.67	1414	1713	47.
	36			lay, December 7, 2010		3	New Zealand		M Chinnaswamy Stadiu				aught		0	2	0		1785	47.
	37			ay, December 10, 2010 day, January 12, 2011		3	New Zealand South Africa		MA ChidamBowledaran Kingsmead	n Stadium			aught aught		2 54	70	25 77.14	1479 1533	1793 1863	46.
	40			day, January 18, 2011		3	South Africa		Newlands				aught		28		68.29	1583	1938	45.
	42			day, January 23, 2011		3	South Africa		SuperSport Park				aught		2		33.33	1672	2036	46.
	52			Monday, June 6, 2011		3	West Indies		Queen's Park Oval				aught		2	8	25	1956	2387	43.
56	53		We	dnesday, June 8, 2011	2nd	3	West Indies		Queen's Park Oval			Ce	aught		81	103	78.64	2037	2490	44.
75	72		Sun	nday, February 5, 2012	2nd	3	Australia		MelBowledourne Cricke	et Ground		Ca	aught		31	34	91.18	2891	3441	46.
77	74		Suna	lay, February 12, 2012	2nd	3	Australia		Adelaide Oval			Ca	aught		18	28	64.29	2986	3563	46.
79	76		Suna	lay, February 19, 2012	2nd	3	Australia		BrisBowledane Cricket C	Ground		Ca	sught		12	25	48	3013	3613	45.
85	82		Su	ınday, March 18, 2012	2nd	3	Pakistan		Shere Bangla National S	itadium		Ca	aught	1	83	148 1.	23.65	3590	4159	50.
88	85		5	aturday, July 28, 2012	2nd	3	Sri Lanka		R Premadasa Stadium			Ca	aught		38	65	58.46	3735	4342	50.
	10-17									Runs	BF					-		Avg 🔻		
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1st 3rd	Eng Au: Sri Afg Eng Au: Pak Sou Eng	gland stralia stralia Lanka ghanista gland stralia kistan uth Afri gland gland kistan	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Eden Gardens ANZ Stadium Melbourne Cric Pallekele Interna R Premadasa Sta Maharashtra Cri Wankhede Stad M Chinnaswam	ket Go ationa adiun adiun adiun icket iiium y Stac	al Cricket Stad	tadium Oval	Cau Cau Cau Cau Cau Cau Cau Cau Lau Not Cau Bov	ight ight ight ight ight ight ight ight	14 15 22 31 68 50 40 15 78 2 21 38 9		16 21 24 48 39 32 13 61 6 17	93.75 104.76 129.17 141.67 128.21 125 115.38 127.87 33.33 123.53 190 81.82	10 10 20 3. 31 41 41 42 5. 5.	37 39 40 40 828 58 53 33 422 31	7 9 11 16 24 27 29 35 35 37 39 40	2 33 44 8 8 66 66 67 88 95 95 95 96 96	34 21.75 21.8 23.33 29.71 36.44 36.8 34.82 41.91 38.58 37.23 37.29 35.4	119.1. 115.9. 118.6. 125. 133.3. 131.6. 130.9. 129.3. 129.0. 132.1. 130.7.	8
10000	Eng Au: Sri Afg Eng Au: Pak Sou Eng	gland stralia stralia Lanka ghanista gland stralia kistan uth Afri gland gland kistan	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Eden Gardens ANZ Stadium Melbourne Cric Pallekele Interni R Premadasa St. Maharashtra Cr. Wankhede Stad M Chinnaswam	ket Graationa adium adium adium adium icket lium y Stac lies	al Cricket Stad	tadium Oval	Cau Cau Cau Cau Cau Cau Cau Cau Lau Not Cau Bov	ight ight ight ight ight ight ight ight	14 15 22 31 68 50 40 15 78 2 21 38 9		16 21 24 48 39 32 13 61 6 17	93.75 104.76 129.17 141.67 128.21 125 115.38 127.87 33.33 123.53 190 81.82	10 12 3, 31 44 46 46 5, 5	37 99 40 98 28 58 33 51 53 34 22	7 9 11 16 24 27 29 35 35 37 39 40	2 3 3 4 8 8 8 6 6 6 8 8 8 1 1 2 2 8 8 8 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	34 21.75 21.8 23.33 29.71 36.44 36.8 34.82 41.91 38.58 37.23 37.29 35.4	119.10 115.9 118.6 125. 133.3 132.3 131.6 130.9 129.3 129.0 132.1 130.7	8
3rd	Eng Au: Sri Afg Eng Au: Pak Sou Eng	gland stralia stralia Lanka ghanista gland stralia kistan uth Afri gland gland kistan	l l l l l l l l l l l l l l l l l l l	Eden Gardens ANZ Stadium Melbourne Cric Pallekele Interna R Premadasa Sta Maharashtra Cri Wankhede Stad M Chinnaswam West Ind West Ind	ket Go ationa adiun adiun adiun adiun icket iium y Stac lies lies	al Cricket Stad	tadium Oval Oval	Cau Cau Cau Cau Cau Cau Cau Cau Lau Not Cau Bov	ight ight ight ight ight ight ight ight	14 15 22 31 68 50 40 15 78 2 21 38 9		16 21 24 48 39 32 13 61 6 17	93.75 104.76 129.17 141.67 128.21 125 115.38 127.87 33.33 123.53 190 81.82	10 12 3, 31 44 46 46 5, 5	37 39 40 38 28 33 33 51 53 34 22 2	77 9 111 16 24 27 29 35 35 37 39 40 21.76 (25.23 56.6	2 3 3 4 8 8 8 6 6 6 8 8 8 1 1 2 2 8 8 8 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	34 21.75 21.8 23.33 29.71 36.44 36.8 34.82 41.91 38.58 37.23 35.4	119.1. 115.9. 118.6. 125. 133.3. 132.3. 131.6. 130.9. 129.3. 129.0. 132.1. 130.7.	8

Caught

Caught

Caught

Caught

Caught

Caught

LBW

Run Out

128

202

234

278

353

114 55.26

21 52.38

81 54.32

136 55.15

213 54.46

37.5

Wankhede Stadium

Wankhede Stadium

Melbourne Cricket Ground

Sydney Cricket Ground

WACA Ground

WACA Ground

Adelaide Oval

New Zealand Rajiv Gandhi International Stadium

Australia

Australia

Australia

Australia

Australia

Australia

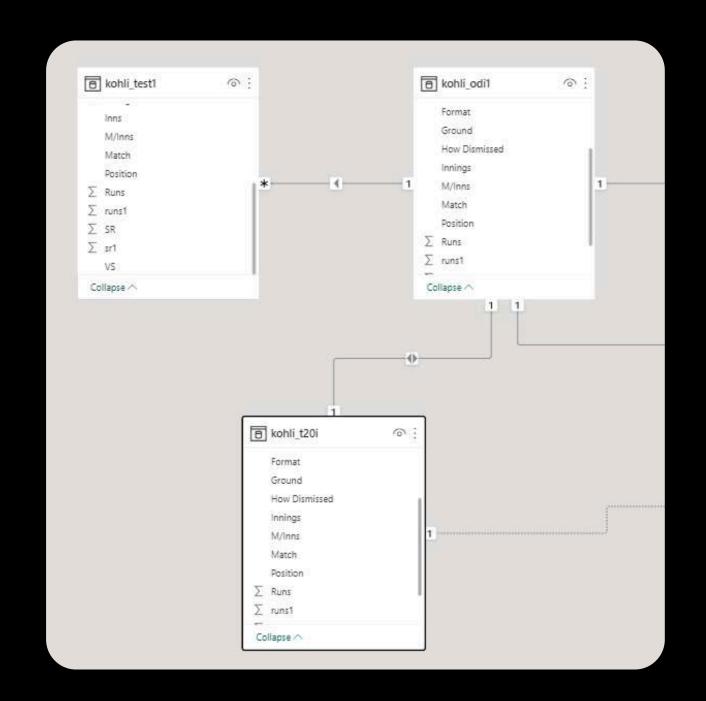
2nd

2nd

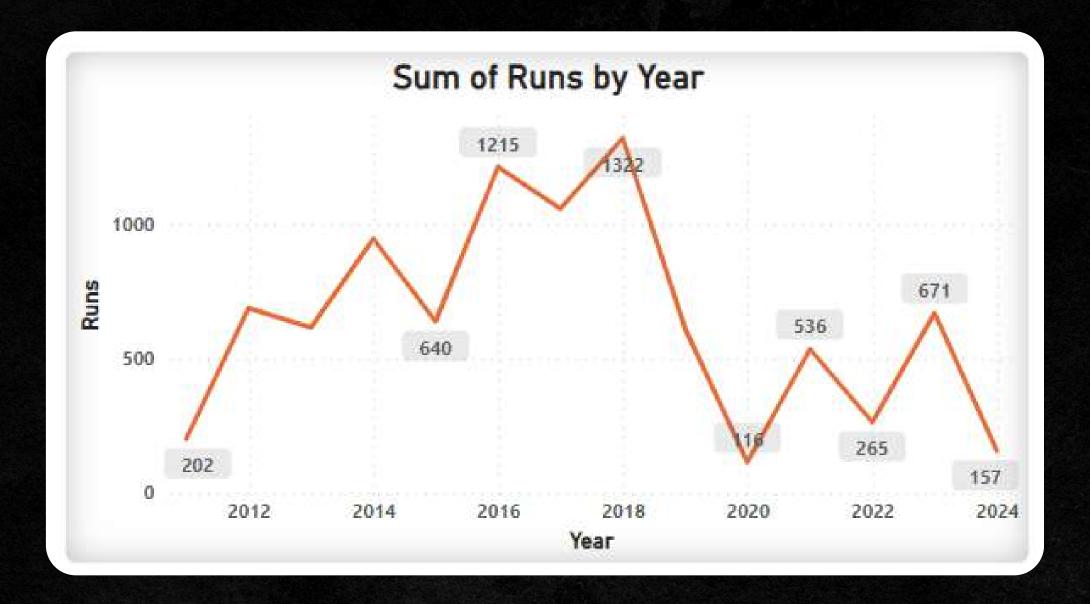
#### **Data Modelling**

In data modeling, the goal is to organize data for effective analysis and reporting, including establishing relationships between tables.

This project aims to build a one-to-many relationship between the "kohli\_test1" and "kohli\_odi1" tables and one-to-one relationship between "kohli\_t20i" and "kohli\_odi1" using match columns as keys.



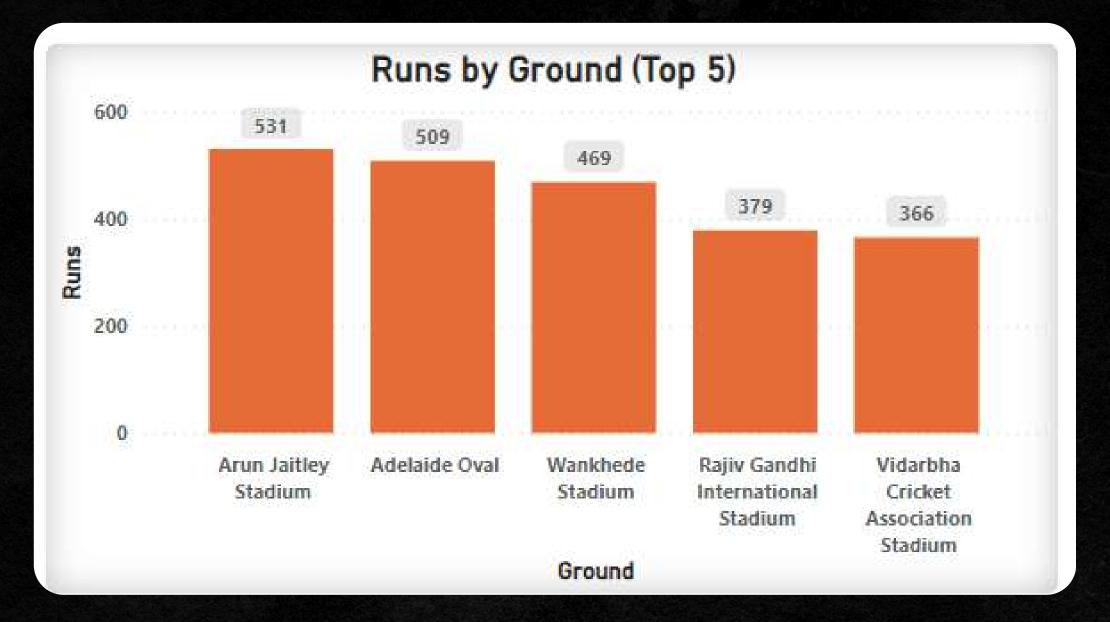




Sum of Runs trended down, resulting in a 22.28% decrease between 2011 and 2024.

#### Sql Query

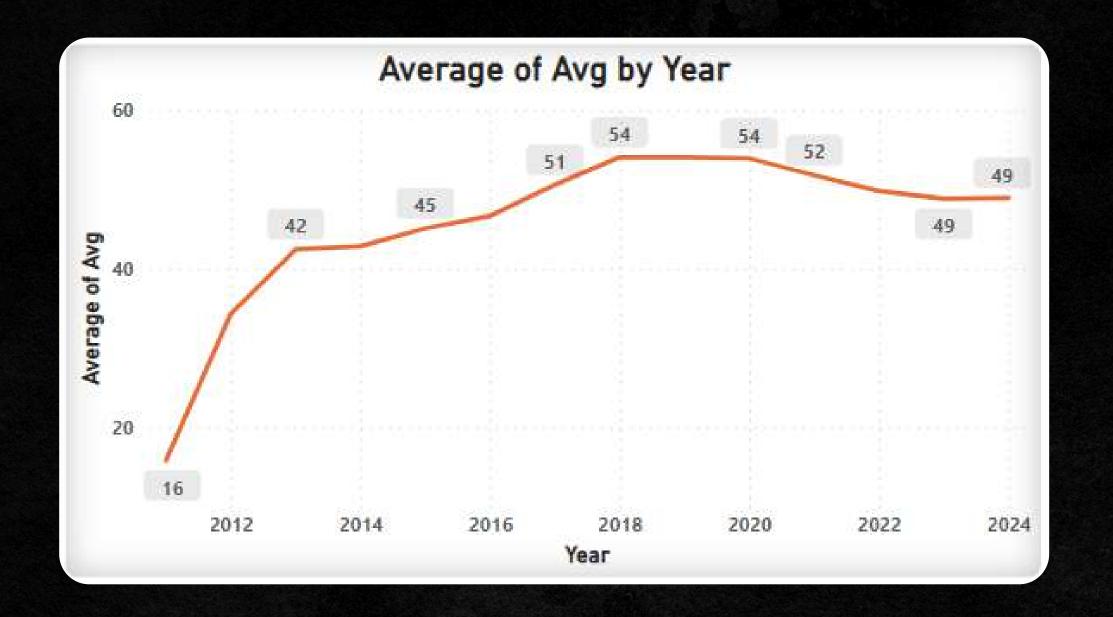
SELECT Date, SUM(Runs) AS
Total\_Runs
FROM test1
GROUP BY Date
ORDER BY Date ASC;



Arun Jaitley Stadium accounted for 23.56% of Sum of Runs.

### Sql Query

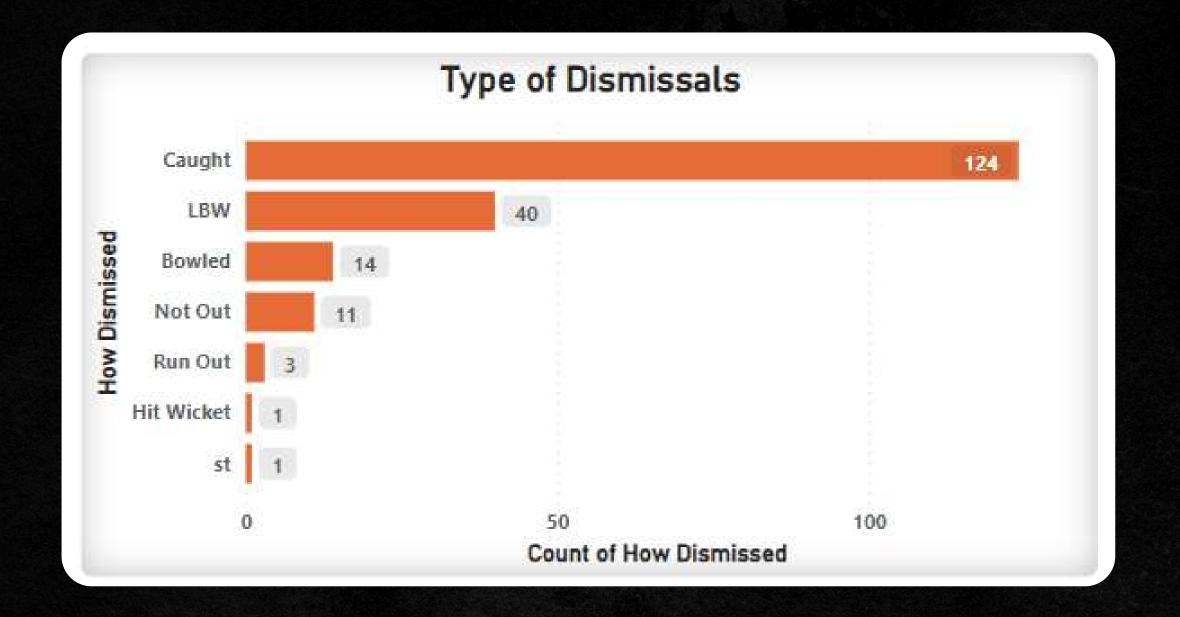
SELECT Ground, SUM(Runs) AS
Total\_Runs
FROM test1
GROUP BY Ground
ORDER BY Total\_Runs desc LIMIT 5;



Average started trending up on 2014, rising by 14.25% (6.11) in 10 years.

#### Sql Query

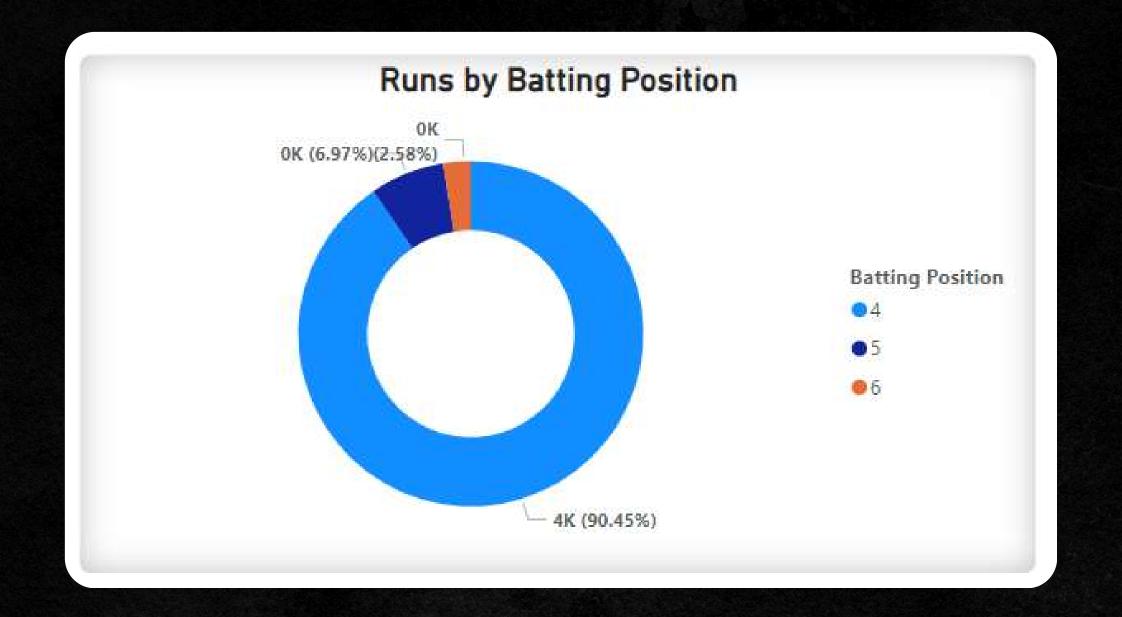
SELECT Date, MAX(Avg) AS Batting\_Average FROM test1 GROUP BY Date ORDER BY Date ASC;



Count of How Dismissed was highest for Caught at 124, followed by LBW and DNB.

#### Sql Query

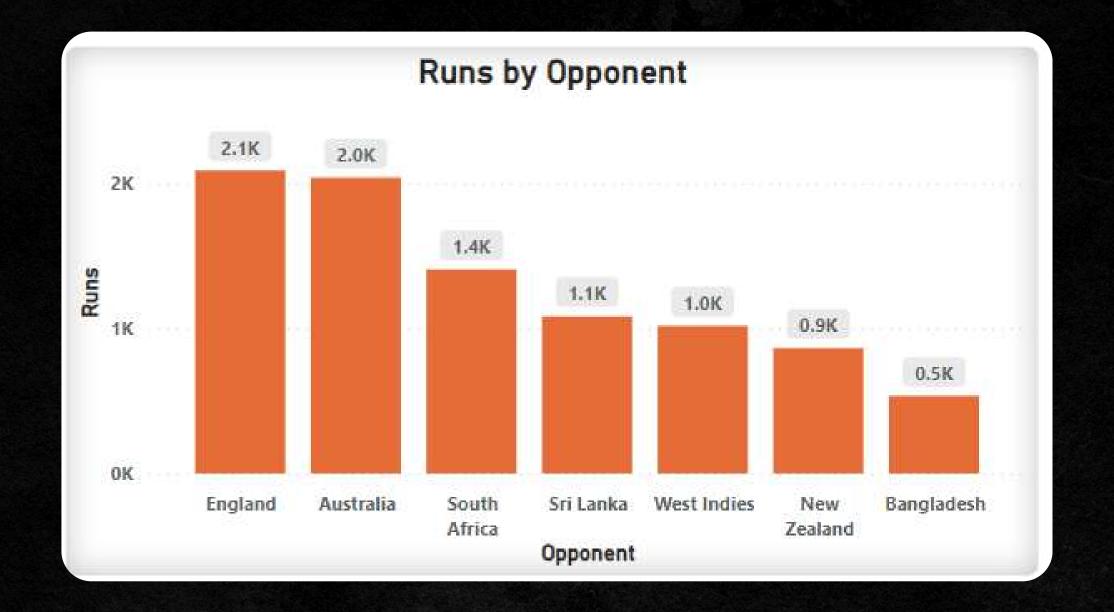
SELECT ('How Dismissed'), COUNT(\*) AS Dismissal\_Count FROM test1
GROUP BY ('How Dismissed')
ORDER BY Dismissal\_Count DESC;



\$th position had the highest Runs at 4063, followed by 5 at 313 and 6 at 116.

#### Sql Query

SELECT Position, SUM(Runs) AS Total\_Runs FROM test1 GROUP BY Position ORDER BY Total\_Runs DESC;

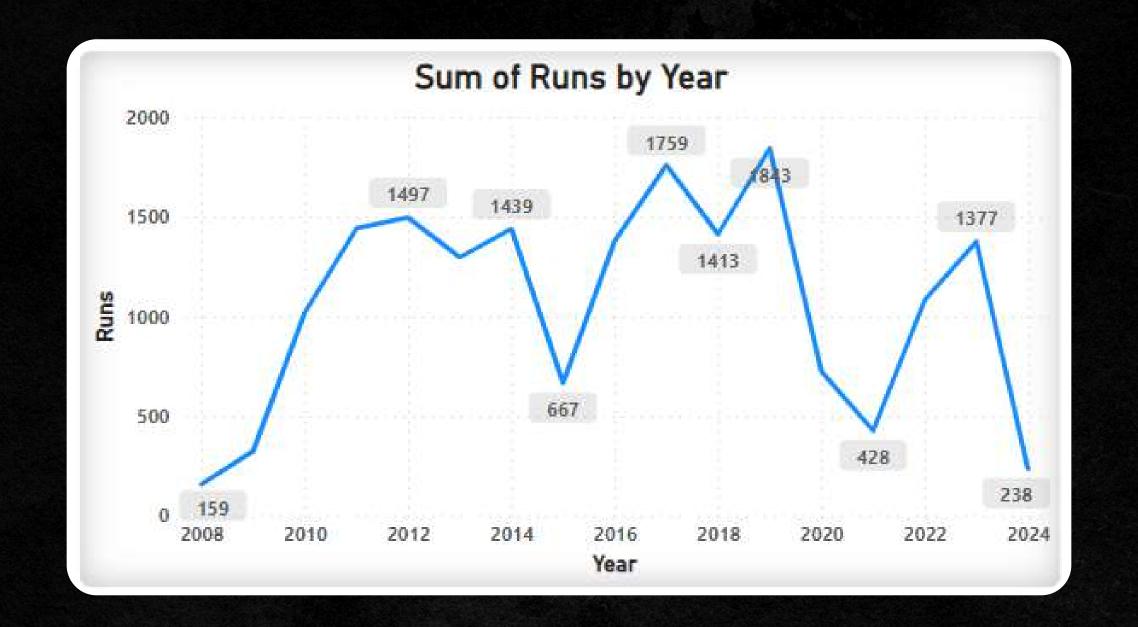


England had the highest Runs and was 290.11% higher than Bangladesh, which had the lowest Runs at 536.

#### Sql Query

SELECT VS AS Opponent, SUM(Runs) AS Total\_Runs
FROM test1
GROUP BY Opponent
ORDER BY Total\_Runs DESC;

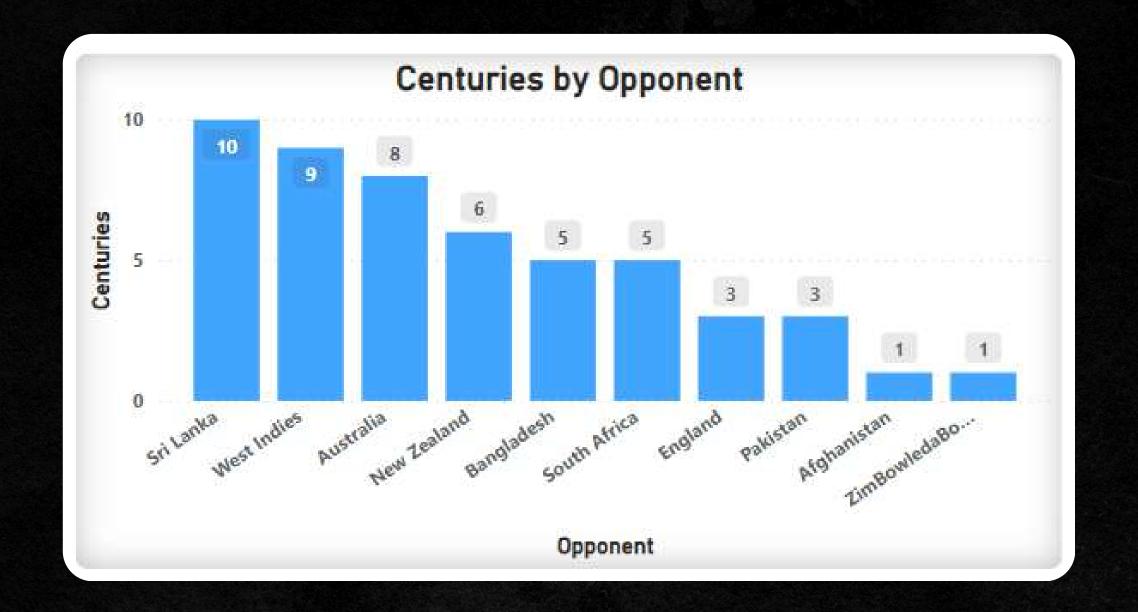




Runs started trending down on 2020, falling by 67.22% (488) in 4 years.

#### Sql Query

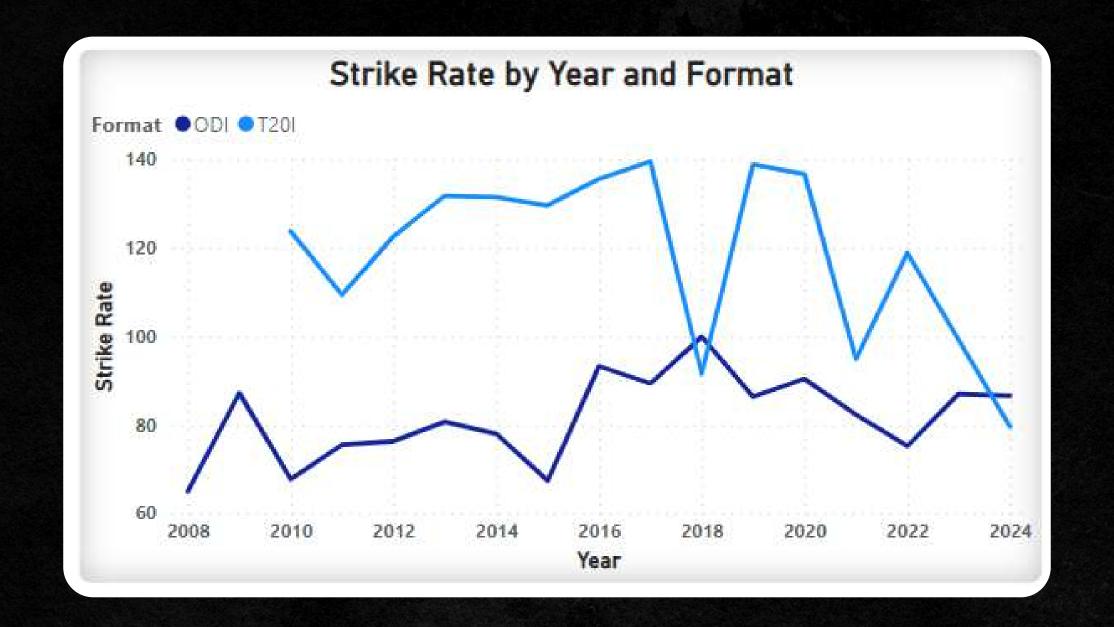
SELECT Date, Format AS FormatType, SUM(Runs)
AS Total\_Runs
FROM white\_ball
WHERE Format IN ('ODI', 'T20I')
GROUP BY Date, Format
ORDER BY Date ASC;



Sri Lanka accounted for 19.61% of Centuries.

#### Sql Query

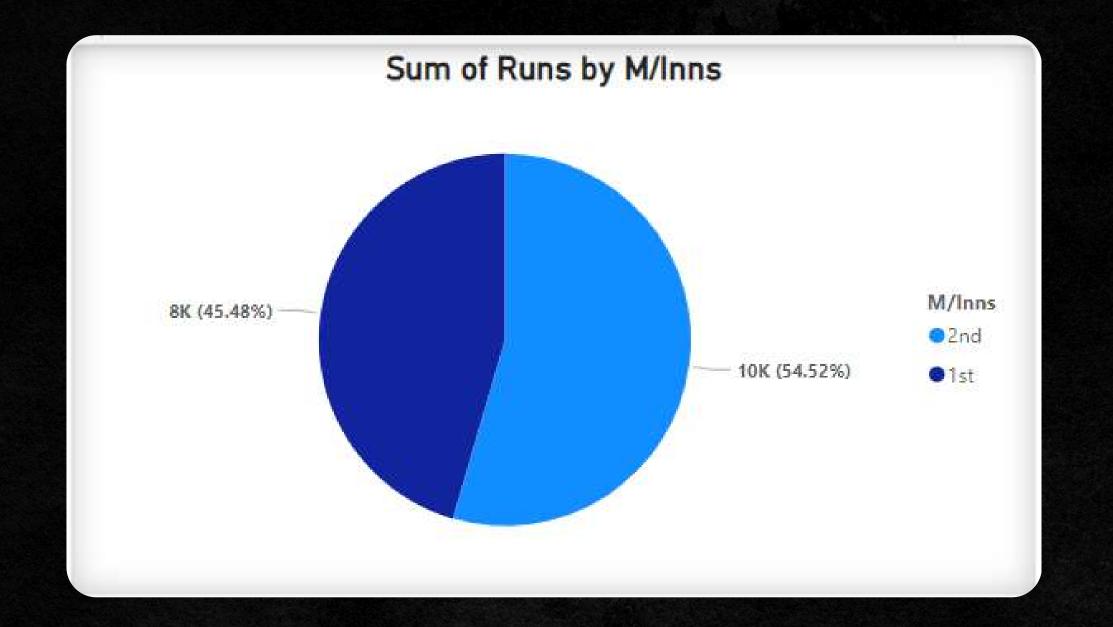
SELECT VS AS Opponent, COUNT(\*) AS Centuries FROM white\_ball WHERE Format IN ('ODI', 'T20') AND Runs >= 100 GROUP BY Opponent ORDER BY Centuries DESC;



Strike Rate for ODI (33.32% increase) trended up while T20I (35.75% decrease) trended down between 2008 and 2024.

#### Sql Query

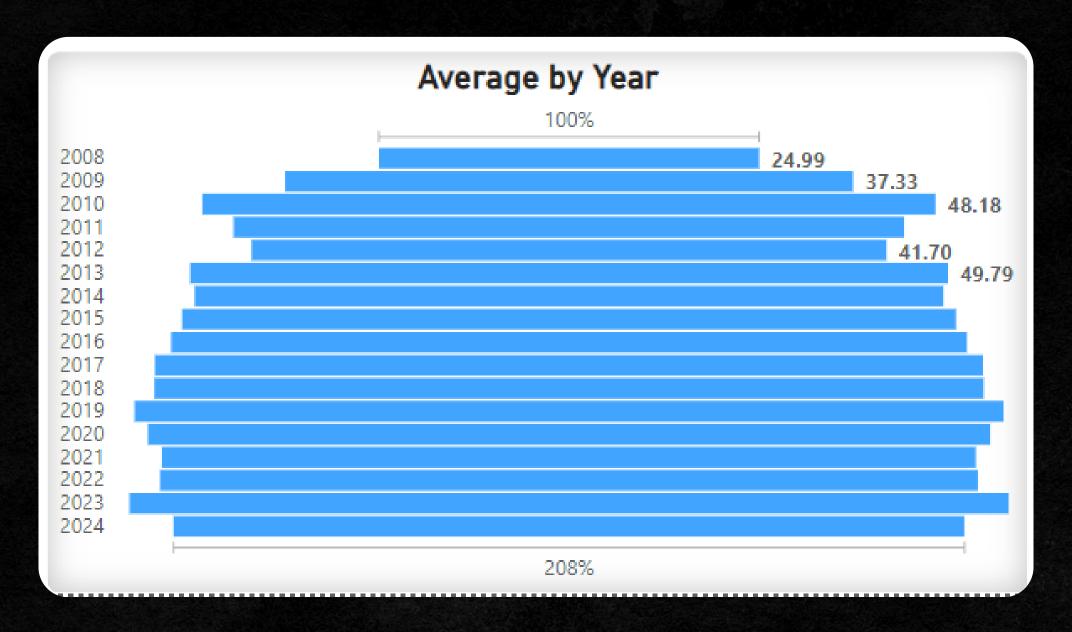
SELECT Format AS FormatType, AVG(Strike\_rate)
AS Average\_Strike\_Rate
FROM white\_ball
WHERE Format IN ('ODI', 'T20I')
GROUP BY Format
ORDER BY Format;



Runs for 2nd inning (9865) was higher than 1st (8229).

#### Sql Query

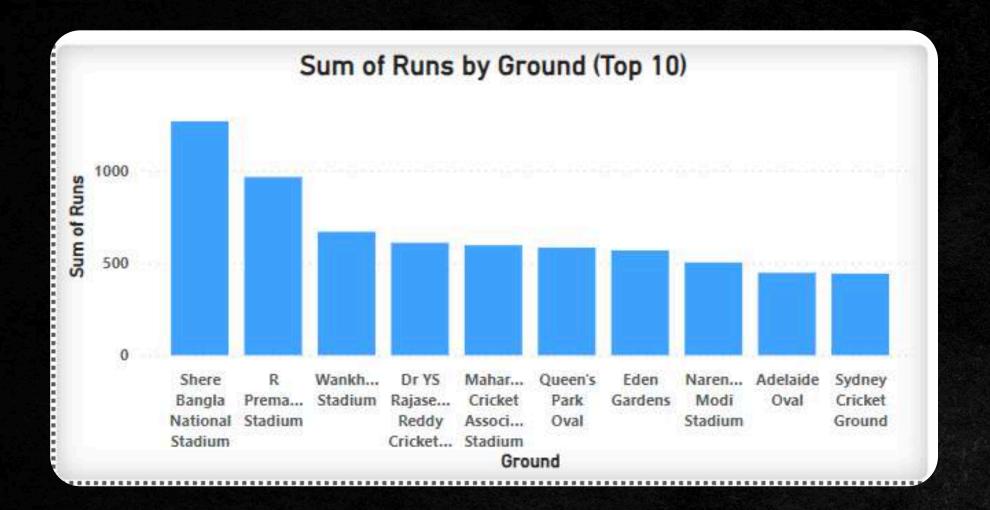
SELECT (`M/Inns`) AS Match\_Innings,SUM(Runs) AS Total\_Runs
FROM white\_ball
WHERE Format IN ('ODI', 'T20I')
GROUP BY (`M/Inns`)
ORDER BY Total\_Runs DESC;

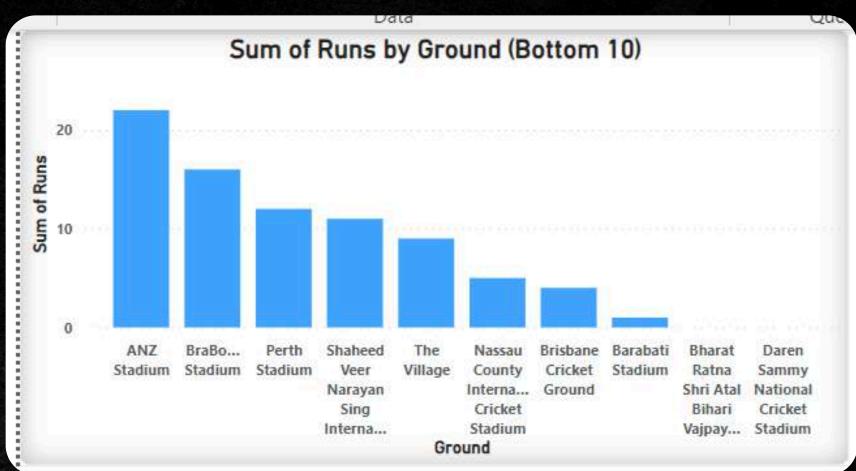


Kohli maintained his average throughout his career.

#### Sql Query

SELECT Date, MAX(Avg) AS Batting\_Average FROM white\_ball WHERE Format IN ('ODI', 'T20I') GROUP BY Date ORDER BY Date ASC;





It shows the Kohli's High scoring and low scoring grounds.

#### Sql Query

SELECT Date, MAX(Avg) AS Batting\_Average FROM white\_ball WHERE Format IN ('ODI', 'T20I') GROUP BY Date ORDER BY Date ASC LIMIT 10;





#### Virat Kohli's Red Ball Performance

115 Matches

Stadium

9047

48.91

Ctrika Data

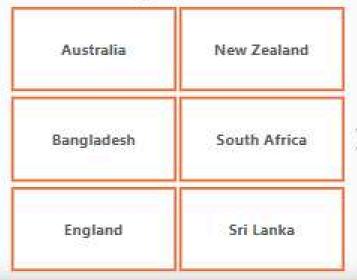
45.89

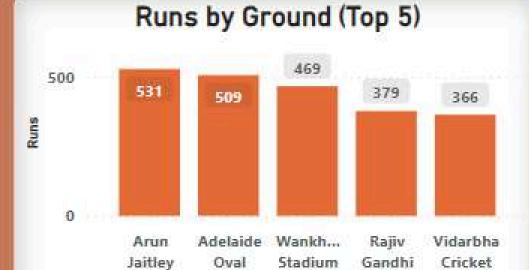
Runs

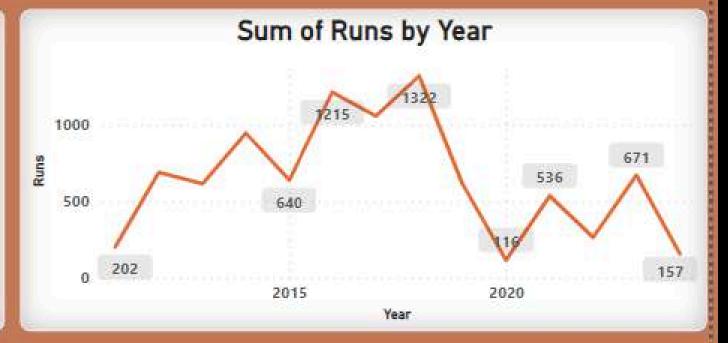
Interna... Associa...

Average Strike Rate







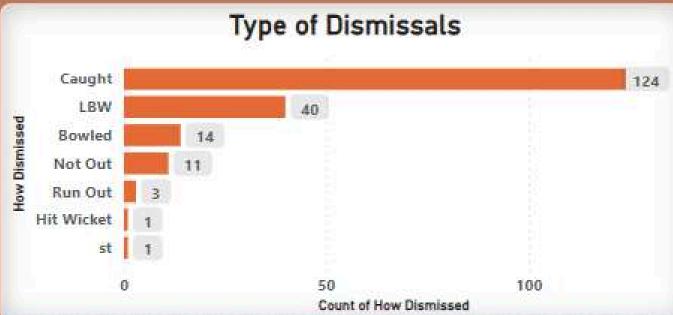


#### Year

2011	2015	2019	2023
2012	2016	2020	2024
2013	2017	2021	
2014	2018	2022	



Ground





#### Virat Kohli's White Ball Performance

420 Matches 18K

183

Strike Rate

92.29

Highest Score

#### **Format**

ODI

T201

#### Opponent

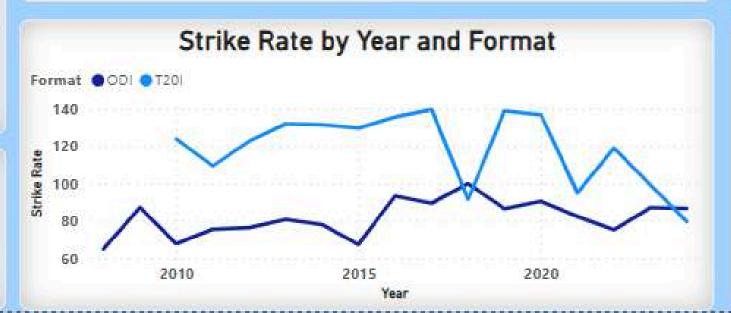
Afghanistan Bangladesh

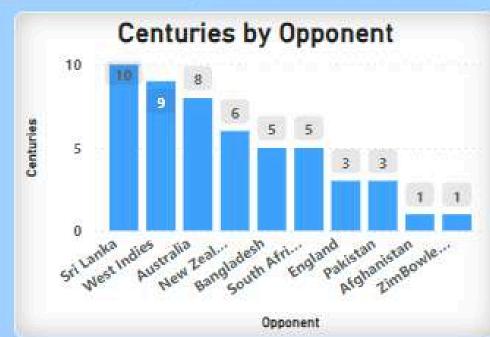
Australia England

Year















# Recommendation Red Ball Format

- Batting Partnerships: Maintain his position at No. 4 to enable him to anchor innings while building meaningful partnerships.
- Adaptation to Conditions: Kohli's performances in overseas conditions (e.g., England or New Zealand) show room for improvement.
- Strike Rate Optimization: While consistency is key, Kohli's strike rate drops significantly when defending tough pitches. Focus on strike rotation drills in practice sessions to counter such scenarios.
- Performance in Overcast Condition: Focus on training for swinging deliveries.

# Recommendation White Ball Format

- Focus on Chasing (2nd Innings): Maximize his impact during run chases.
- Boost Performance: Utilize him as a stabilizer when early wickets fall or build a foundation to accelerate in death overs.
- Strike Rate Optimization: While consistency is key, Kohli's strike rate drops significantly when defending tough pitches. Focus on strike rotation drills in practice sessions to counter such scenarios.
- Improving Century Conversion in T20Is.

# Valuable Aspects

- Consistency in Chasing.
- Anchor Role in T20Is.
- Partnership Building in Tests.
- Pressure handling.
- Adaptability to Match Situations.

## Conclusion

Across all formats, Kohli's contributions have cemented his legacy as one of cricket's greats. Whether it's scoring runs, building partnerships, or leading by example, his influence on Indian cricket and the global stage is immeasurable. As he continues to adapt and evolve, Kohli remains a force to be reckoned with, epitomizing the blend of talent, discipline, and passion needed to excel in modern cricket.