



TEST CRICKET STATS



Presented By

Yasharth Srivastava (047)

Shobhit Srivastava (040)

Kumar Satyam (023)

Natin Anand (029)

Abhash Tripathi (003)

Content

- Introduction
- Objective
- Data Acquisition
- SQL Analysis
- Key Insights
- Conclusion





Introduction

This presentation explores the fascinating world of test cricket statistics. It delves into the nuances of batting performances, using SQL analysis to provide valuable insights.

Objective

Top Scorers

Identify the top players by total runs scored.

Best Averages

Find players with the highest batting averages

Performance Analysis

Compare players by their centuries, half-centuries, or duck counts.

Career Longevity

Analyze if players with longer careers (Span) tend to score more runs or have higher averages.

Consistency

Analyze players who have consistently high scores

SQL Analysis

Create the database

```
1 -- Created a database for the purpose of storing and managing data effectively of Test Cricket Players.  
2 • CREATE DATABASE Mens_Test_Cricket_Stats;
```

```
4 -- This function shows all the databases existed in the Schemas.  
5 • SHOW DATABASES;
```

Show the database

```
6  
7 -- This function activates the database in which we want to create tables and run queries.  
8 • USE Mens_Test_Cricket_Stats;
```

Use the database

SQL Analysis

```
10 -- This function describe the structure of the table. In this case, we have imported the table named as batting_stats.  
11 -- The table store information like players name, matches played, number of innings, runs, highest score, average, half-century, century, and  
12 • DESC batting_stats;
```

Describe the database
Structure

Result Grid						
Filter Rows:						
Export:						
	Field	Type	Null	Key	Default	Extra
►	Player	text	YES		NULL	
	Span	text	YES		NULL	
	Mat	int	YES		NULL	
	Inn	int	YES		NULL	
	Not Out	int	YES		NULL	
	Runs	int	YES		NULL	
	HS	text	YES		NULL	
	Avg	double	YES		NULL	
	Century	int	YES		NULL	
	Half-Century	int	YES		NULL	

SQL Analysis

```
14 -- Here we have used the "ALTER" function to set the Primary Key of our table "batting_stats". "ID" is the primary key.
15 • Alter Table batting_stats ADD PRIMARY KEY (ID);
```

Added Primary Key

Result Grid						
Filter Rows:						
Export:						
	Field	Type	Null	Key	Default	Extra
▶	Player	text	YES		NULL	
	Span	text	YES		NULL	
	Mat	int	YES		NULL	
	Inn	int	YES		NULL	
	Not Out	int	YES		NULL	
	Runs	int	YES		NULL	
	HS	text	YES		NULL	
	Avg	double	YES		NULL	
	Century	int	YES		NULL	
	Half-Century	int	YES		NULL	

Result Grid						
Filter Rows:						
Export:						
	Field	Type	Null	Key	Default	Extra
▶	ID	int	NO	PRI	NULL	
	Player	text	YES		NULL	
	Span	text	YES		NULL	
	Mat	int	YES		NULL	
	Inn	int	YES		NULL	
	NotOut	int	YES		NULL	
	Runs	int	YES		NULL	
	HS	text	YES		NULL	
	Avg	double	YES		NULL	
	Century	int	YES		NULL	

SQL Analysis

```
78  -- Sum Total of all the runs made by all the players in their career.  
79  • SELECT SUM(Runs) AS Total_Runs  
80  FROM batting_stats;
```

Total Runs
By
All Players

Result Grid



	Total_Runs
▶	2220344

SQL Analysis


```
17  -- Retrieving Top 10 players era who scored most runs.
18  ●  SELECT Player, Span, Runs
19      FROM batting_stats
20      ORDER BY Runs DESC
21      LIMIT 10;
```

Top 10 Players
By
Runs Scored

Result Grid			
Filter Rows:			
	Player	Span	Runs
▶	SR Tendulkar (INDIA)	1989-2013	15921
	RT Ponting (AUS)	1995-2012	13378
	JH Kallis (ICC/SA)	1995-2013	13289
	R Dravid (ICC/INDIA)	1996-2012	13288
	AN Cook (ENG)	2006-2018	12472
	KC Sangakkara (SL)	2000-2015	12400
	BC Lara (ICC/WI)	1990-2006	11953
	S Chanderpaul (WI)	1994-2015	11867
	DPMD Jayawardene (SL)	1997-2014	11814
	AR Border (AUS)	1978-1994	11174

batting_stats 1 x

SQL Analysis

Result Grid  Filter Rows:

Player	Avg
▶ Abid Ali (PAK)	160.5
KR Patterson (AUS)	144
PP Shaw (INDIA)	118.5
AG Ganteaume (WI)	112
DG Bradman (AUS)	99.94
MN Nawaz (SL)	99
VH Stollmeyer (WI)	96
DM Lewis (WI)	86.33
Abul Hasan (BDESH)	82.5
RF Redmond (NZ)	81.5


batting_stats2 x

Top 10 Players Average

```
23  -- Retrieving top 10 players with highest average.
24  ●  SELECT Player, Avg
25     FROM batting_stats
26     ORDER BY Avg DESC
27     LIMIT 10;
```


SQL Analysis

Top 10 Players Centuries

Result Grid		 Filter Rows: <input type="text"/>
	Player	Century
▶	SR Tendulkar (INDIA)	51
	JH Kallis (ICC/SA)	45
	RT Ponting (AUS)	41
	KC Sangakkara (SL)	38
	R Dravid (ICC/INDIA)	36
	BC Lara (ICC/WI)	34
	DPMD Jayawardene (SL)	34
	SM Gavaskar (INDIA)	34
	Younis Khan (PAK)	34
	AN Cook (ENG)	33


batting_stats3 ×

```
29 -- Retrieving top 10 players with highest number of centuries scored in their career.
30 • SELECT Player, Century
31 FROM batting_stats
32 ORDER BY Century DESC
33 LIMIT 10;
```


SQL Analysis

```
35  -- Retrieving top 10 players with highest number of half-centuries scored in their career.
36  • SELECT Player, HalfCentury
37     FROM batting_stats
38     ORDER BY HalfCentury DESC
39     LIMIT 10;
```

Top 10 Players Half-Centuries

Result Grid  Filter Rows: <input type="text"/>		
	Player	HalfCentury
▶	SR Tendulkar (INDIA)	68
	S Chanderpaul (WI)	66
	R Dravid (ICC/INDIA)	63
	AR Border (AUS)	63
	RT Ponting (AUS)	62
	JH Kallis (ICC/SA)	58
	AN Cook (ENG)	57
	VVS Laxman (INDIA)	56
	KC Sangakkara (SL)	52
	DPMD Jayawardene (SL)	50

batting_stats4 x

SQL Analysis

```
41  -- Retrieving 10 players who remained not-out most number of times in their career.
42  ● SELECT Player, NotOut
43     FROM batting_stats
44     ORDER BY NotOut DESC
45     LIMIT 10;
```

Top 10 Players
remained
Not-Out

Result Grid			Filter Rows:
	Player	NotOut	
▶	JM Anderson (ENG)	89	
	CA Walsh (WI)	61	
	M Muralitharan (ICC/SL)	56	
	RGD Willis (ENG)	55	
	CS Martin (NZ)	52	
	GD McGrath (AUS)	51	
	S Chanderpaul (WI)	49	
	SR Waugh (AUS)	46	
	M Ntini (SA)	45	
	AR Border (AUS)	44	
batting_stats5			×

SQL Analysis

```
47  -- Retrieving top 10 players who has most number of ducks.  
48  •  SELECT Player, Duck  
49     FROM batting_stats  
50     ORDER BY Duck Desc  
51     LIMIT 10;
```

Top 10 Players
Got Out on
Duck

Result Grid		Filter Rows:
Player	Duck	
▶ CA Walsh (WI)	43	
CS Martin (NZ)	36	
GD McGrath (AUS)	35	
SCJ Broad (ENG)	35	
SK Warne (AUS)	34	
M Muralitharan (ICC/SL)	33	
I Sharma (INDIA)	31	
Z Khan (INDIA)	29	
CEL Ambrose (WI)	26	
M Dillon (WI)	26	
batting_stats6		×

SQL Analysis

```
53  -- Retrieving top 10 players whose highest score is greater than 200.
54  • SELECT Player, HS AS Highest_Score
55  FROM batting_stats
56  WHERE HS>200
57  ORDER BY Highest_Score DESC
58  LIMIT 10;
```

Top 10 Players
scored more than
200

Result Grid			Filter Rows:
	Player	Highest_Score	
▶	BC Lara (ICC/WI)	400*	
	ML Hayden (AUS)	380	
	DPMD Jayawardene (SL)	374	
	GS Sobers (WI)	365*	
	L Hutton (ENG)	364	
	ST Jayasuriya (SL)	340	
	Hanif Mohammad (PAK)	337	
	WR Hammond (ENG)	336*	
	DA Warner (AUS)	335*	
	MA Taylor (AUS)	334*	
batting_stats7			×

SQL Analysis

Average Runs per match By Top 10 Players



```
60 -- Retrieving top 10 players whose average runs per match is highest.
61 • SELECT Player, Mat, Avg, Runs / Mat AS Avg_Runs_Per_Match
62 FROM batting_stats
63 ORDER BY Avg_Runs_Per_Match DESC
64 LIMIT 10;
```

Result Grid					Filter Rows:	Export:
	Player	Mat	Avg	Avg_Runs_Per_Match		
▶	RE Redmond (NZ)	1	81.5	163.0000		
	Abid Ali (PAK)	2	160.5	160.5000		
	DG Bradman (AUS)	52	99.94	134.5385		
	BA Richards (SA)	4	72.57	127.0000		
	PP Shaw (INDIA)	2	118.5	118.5000		
	AG Ganteaume (WI)	1	112	112.0000		
	GA Headley (WI)	22	60.83	99.5455		
	SPD Smith (AUS)	72	62.84	99.5000		
	N Oldfield (ENG)	1	49.5	99.0000		
	MN Nawaz (SI)	1	99	99.0000		
Result 8					×	

SQL Analysis

```
66  -- Retrieving players who scored more than 35 centuries and average more than 50 in their career.
67  •  SELECT Player, Runs, HS, Century
68     FROM batting_stats
69     WHERE Century >= 35 AND Avg >= 50
70     ORDER BY Century DESC;
```

Highest Score
By
Top 10 Players

Result Grid   Filter Rows: <input type="text"/>				
	Player	Runs	HS	Century
▶	SR Tendulkar (INDIA)	15921	248*	51
	JH Kallis (ICC/SA)	13289	224	45
	RT Ponting (AUS)	13378	257	41
	KC Sangakkara (SL)	12400	319	38
	R Dravid (ICC/INDIA)	13288	270	36


SQL Analysis

Total Runs & Average By Top 10 Players

```
72  -- Retrieving players who played more than 100 matches in their career.
73  • SELECT Player, Mat, Runs, Avg
74  FROM batting_stats
75  WHERE Mat > 100
76  ORDER BY Mat DESC;
```

Result Grid				
Filter Rows:				
Player	Mat	Runs	Avg	
SR Tendulkar (INDIA)	200	15921	53.78	
RT Ponting (AUS)	168	13378	51.85	
SR Waugh (AUS)	168	10927	51.06	
JH Kallis (ICC/SA)	166	13289	55.37	
R Dravid (ICC/INDIA)	164	13288	52.31	
S Chanderpaul (WI)	164	11867	51.37	
AN Cook (ENG)	161	12472	45.35	
AR Border (AUS)	156	11174	50.56	
JM Anderson (ENG)	150	1181	9.68	
DPMD Jayawardene (SL)	149	11814	49.84	

SQL Analysis

Result Grid  Filter Rows:

	Player	Runs	Ranks
▶	SR Tendulkar (INDIA)	15921	1
	RT Ponting (AUS)	13378	2
	JH Kallis (ICC/SA)	13289	3
	R Dravid (ICC/INDIA)	13288	4
	AN Cook (ENG)	12472	5
	KC Sangakkara (SL)	12400	6
	BC Lara (ICC/WI)	11953	7
	S Chanderpaul (WI)	11867	8
	DPMD Jayawardene (SL)	11814	9
	AR Border (AUS)	11174	10

Result 11 x

Ranks of Top 10 Players

```
82  -- Ranking top 10 players based on runs scored in their career.
83  • SELECT Player, Runs, RANK() OVER (ORDER BY Runs DESC) AS Ranks
84  FROM batting_stats
85  LIMIT 10;
```


SQL Analysis

Alloting the unique
number to
Top 10 Players

Result Grid | Filter Rows:

Player	Runs	Row_ID
SR Tendulkar (INDIA)	15921	1
RT Ponting (AUS)	13378	2
JH Kallis (ICC/SA)	13289	3
R Dravid (ICC/INDIA)	13288	4
AN Cook (ENG)	12472	5
KC Sangakkara (SL)	12400	6
BC Lara (ICC/WI)	11953	7
S Chanderpaul (WI)	11867	8
DPMD Jayawardene (SL)	11814	9
ΔR Rnrdler (ΔI IC)	11174	10

Result 12 x

```
87 -- Alloting unique number to each row.
88 • SELECT Player, Runs, ROW_NUMBER() OVER (ORDER BY Runs DESC) AS Row_ID
89 FROM batting_stats
90 LIMIT 10;
```


SQL Analysis

```
92  -- Retrieving top 5 players record.
93  ● SELECT Player, Mat, Runs, Avg, Century
94  FROM batting_stats
95  WHERE Runs > 10000 AND Avg >= 50 AND Mat >= 100 AND Century >= 35
96  ORDER BY Runs DESC;
```

Retrieving the
Top 5
Players record

Result Grid						Filter Rows:	Export:
	Player	Mat	Runs	Avg	Century		
▶	SR Tendulkar (INDIA)	200	15921	53.78	51		
	RT Ponting (AUS)	168	13378	51.85	41		
	JH Kallis (ICC/SA)	166	13289	55.37	45		
	R Dravid (ICC/INDIA)	164	13288	52.31	36		
	KC Sangakkara (SL)	134	12400	57.4	38		

batting_stats 13 x

Key Insights

Top Scorers:

Players with high total runs often have long, successful careers, showing consistent scoring ability and stamina.

Performance by Centuries, Half-Centuries, and Ducks:

Centuries indicate match-winning potential.

Half-centuries show regular contributions but may need more conversions into big scores.

High duck counts suggest vulnerability to early dismissals.



Key Insights

Consistency:

Players with high average runs per match are reliable contributors, even without always posting huge individual innings.

Career Longevity:

Longer careers often lead to higher total runs, though not always higher averages. Some players maintain peak performance over extended periods, while others see a decline.

Best Averages:

Players with the highest averages are consistently reliable, contributing significantly in a high percentage of their innings.



Conclusion

- Consistency and longevity drive Test cricket success.
- Top scorers have long, successful careers.
- Century makers are key match-winners.
- Many half-centuries suggest reliable contribution but need better conversion.
- High duck counts show early dismissal vulnerability.
- High averages indicate consistent, reliable performers.
- Success requires endurance, adaptability, and big innings.





Thank You