



MS DHONI - ODI PERFORMANCE ANALYSIS USING SQL



CRAZE OF
DHONI



DATA PREPROCESSING

INFO ABOUT THE TABLE 'MSDHONI'



DESCRIBE msdhoni

Field	Type	Null	Key	Default	Extra
Match_No	int	NO	PRI	NULL	auto_increment
Runs	text	YES		NULL	
Mins	int	YES		NULL	
Ball_Faced	int	YES		NULL	
4s	int	YES		NULL	
6s	int	YES		NULL	
Strike_Rate	double	YES		NULL	
Pos	int	YES		NULL	
Dismissal	text	YES		NULL	
Innings	int	YES		NULL	
Opposition	text	YES		NULL	
Ground	text	YES		NULL	
Start Date	text	YES		NULL	

Checking Null Values

```
SELECT COUNT(*) AS Missing_Values  
FROM msdhoni  
WHERE Runs IS NULL  
AND Mins IS NULL  
AND Ball_Faced IS NULL  
AND '4s' IS NULL  
AND '6s' IS NULL  
AND Strike_Rate IS NULL  
AND Pos IS NULL  
AND Dismissal IS NULL  
AND Innings IS NULL  
AND Opposition IS NULL  
AND Ground IS NULL  
AND 'Start Date' IS NULL;
```

OUTPUT

Missing_Values
0

Displaying first few rows

```
SELECT * FROM msdhoni  
LIMIT 5
```

OUTPUT

Match_No	Runs	Mins	Ball_Faced	4s	6s	Strike_Rate	Pos	Dismissal	Innings	Opposition	Ground	Start Date
1	0	1	1	0	0	0	7	run out	1	v Bangladesh	Chattogram	23 Dec 2004
2	12	16	11	2	0	109.09	7	caught	2	v Bangladesh	Dhaka	26 Dec 2004
3	7*	2	2	0	1	350	7	not out	1	v Bangladesh	Dhaka	27 Dec 2004
4	3	8	7	0	0	42.85	7	caught	1	v Pakistan	Kochi	2 Apr 2005
5	148	155	123	15	4	120.32	3	caught	1	v Pakistan	Visakhapatnam	5 Apr 2005



Column 'Runs' has symbol * , it indicates the 'Not Out' and we need to remove this and also change the integer data type

```
SELECT Runs as Not_Outs FROM msdhoni  
WHERE Runs LIKE '%*'  
LIMIT 5
```

Not_Outs
7*
15*
28*
67*
183*

*indicates
Not Out

Removing the * symbol

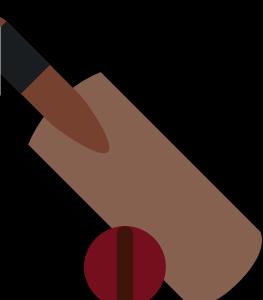
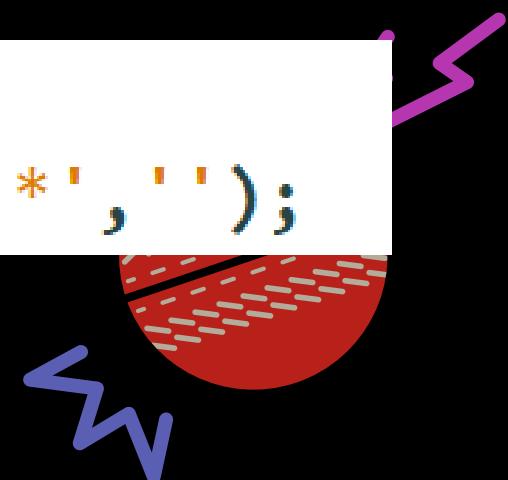
UPDATE msdhoni

SET Runs = REPLACE(Runs, '*', '');

SELECT Runs FROM msdhoni

Runs
0
12
7
3
148
28
47
11
24
2

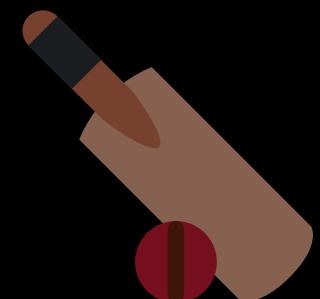
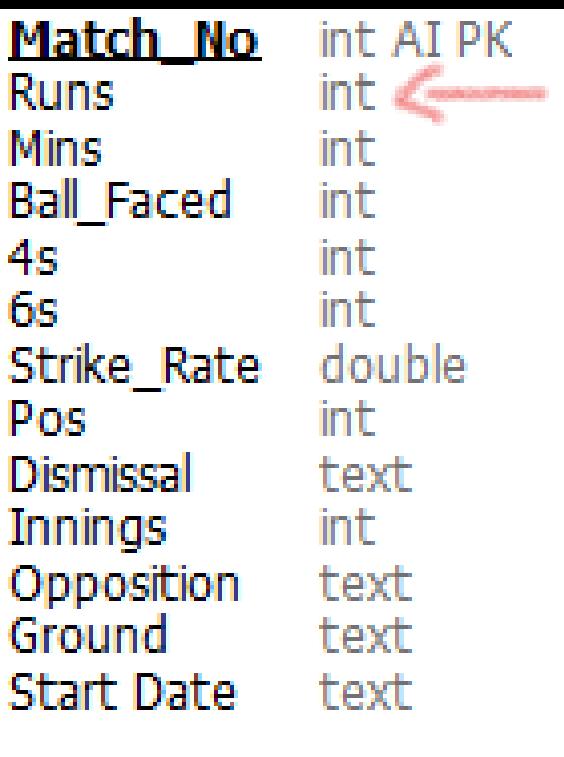
Symbol * are
removed



Changing the datatype to Integer for ‘Runs’

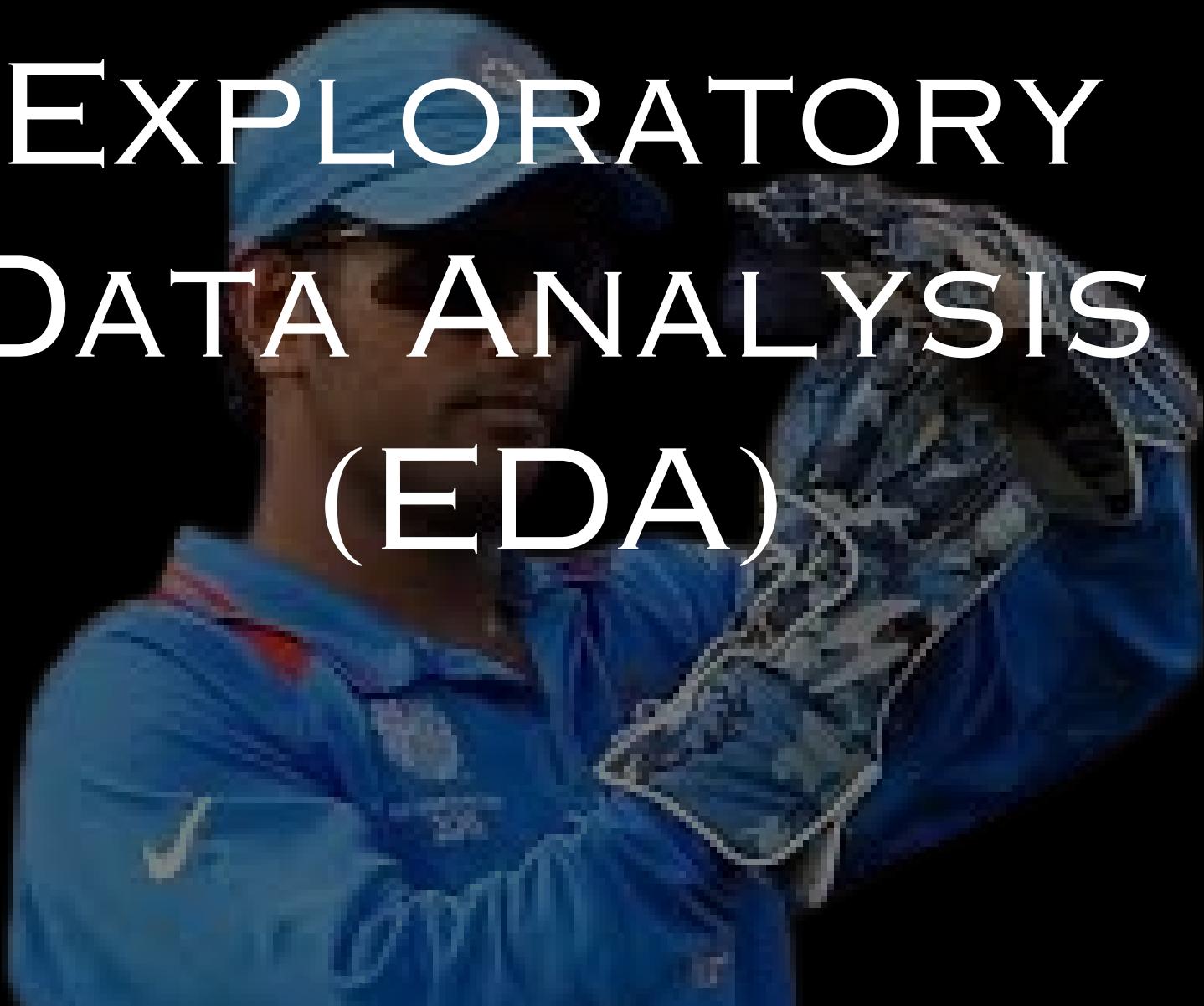
```
ALTER TABLE msdhoni  
MODIFY COLUMN Runs int;
```

<u>Match_No</u>	int AI PK
Runs	int
Mins	int
Ball_Faced	int
4s	int
6s	int
Strike_Rate	double
Pos	int
Dismissal	text
Innings	int
Opposition	text
Ground	text
Start Date	text





EXPLORATORY DATA ANALYSIS (EDA)



7 Questions to Analyze.....

THALA FOR A REASON

1. What is MS Dhoni's Total number of matches, runs, and average in ODIs?
2. What are Dhoni's top 5 highest scores with opponent in ODIs?
3. How many Centuries(100+ runs) and Half-Centuries(50-99 runs) has Dhoni scored in ODIs?
4. How many matches Dhoni entered as No. 7 Position vs Opposition?
5. Against which country Dhoni scored most runs?
6. What is Dhoni's Highest and Lowest Strike Rate,Average Strike Rate and How many 100+ Strike Rate Matches,Sixes and Fours?
7. At which batting position Dhoni has scored the most runs and order them ?

1.What is MS Dhoni's Total number of matches, runs, and average in ODIs?

```
SELECT COUNT(Match_No) AS Matches,  
        SUM(Runs) AS Total_Runs,  
        AVG(Runs) AS Batting_Average  
FROM msdhoni;
```

OUTPUT

Matches	Total_Runs	Batting_Average
268	9890	36.9030

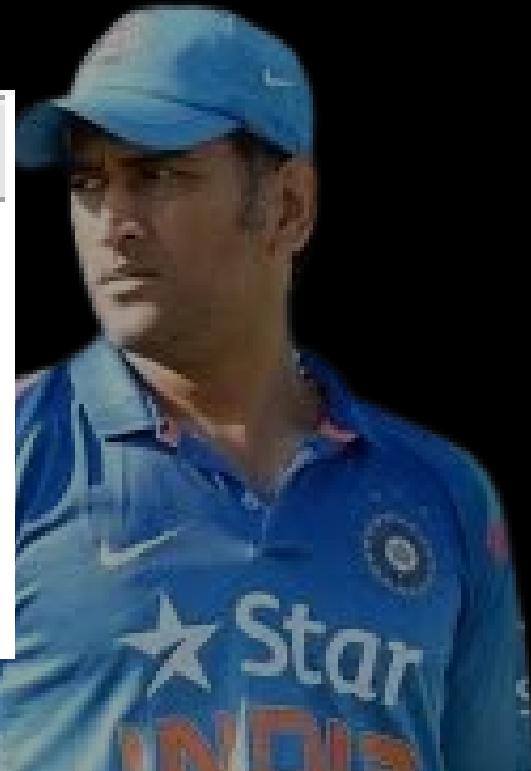


2. What are Dhoni's top 5 highest scores with opponent in ODIs?

```
SELECT Runs, Opposition  
FROM msdhoni  
ORDER BY Runs DESC  
LIMIT 5
```

OUTPUT

Runs	Opposition
183	v Sri Lanka
148	v Pakistan
139	v Africa XI
139	v Australia
134	v England



3. How many Centuries(100+ runs) and Half-Centuries(50-99 runs) has Dhoni scored in ODIs?



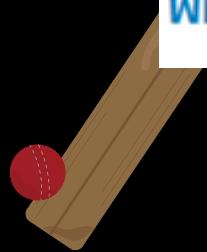
```
SELECT Runs as '100+ Runs' FROM msdhoni  
WHERE Runs >= 100;
```

OUTPUT

100+ Runs
148
183
139
109
124
107
101
113
139
134



```
SELECT COUNT(Runs) AS "100's" FROM msdhoni  
WHERE Runs >= 100;
```



OUTPUT

100's
10



```
SELECT COUNT(Runs) AS '50 + Runs' FROM msdhoni  
WHERE Runs BETWEEN 50 AND 99;
```



OUTPUT

50 + Runs
67



4. How many matches Dhoni entered as No. 7 Position vs Opposition?

```
SELECT Pos as '7th positions',
       Opposition as Opponent,
       Ground
  FROM msdhoni
 WHERE Pos = 7
```



7th positions	Opponent	Ground
7	v Bangladesh	Chattogram
7	v Bangladesh	Dhaka
7	v Bangladesh	Dhaka
7	v Pakistan	Kochi
7	v West Indies	Colombo (RPS)
7	v New Zealand	Bulawayo
7	v Zimbabwe	Harare
7	v New Zealand	Harare
7	v Pakistan	Lahore
7	v Pakistan	Multan
7	v England	Faridabad
7	v England	Margao
7	v England	Kochi
7	v Pakistan	Abu Dhabi

7th positions	Opponent	Ground
7	v West Indies	Kingston
7	v Australia	Kuala Lumpur
7	v Bangladesh	Port of Spain
7	v Sri Lanka	Port of Spain
7	v Africa XI	Bengaluru
7	v Africa XI	Chennai
7	v England	Lord's
7	v Pakistan	Jaipur
7	v Australia	Melbourne
7	v Pakistan	Mirpur
7	v Netherlands	Delhi
7	v England	Chester-le-Str...
7	v Sri Lanka	Pallekele
7	v Pakistan	Chennai
7	v Australia	Indore
7	v Australia	Bengaluru
7	v South Africa	Gqeberha
7	v New Zealand	Manchester

```
SELECT COUNT(Pos) AS 'No. of 7th Position'  
FROM msdhoni  
WHERE Pos = 7
```

OUTPUT

No. of 7th
Position

32

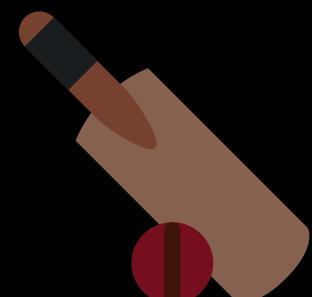
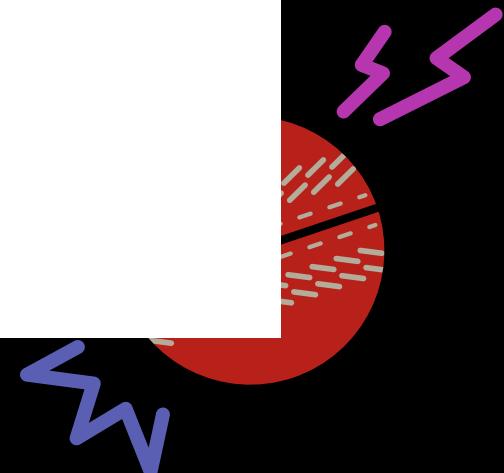
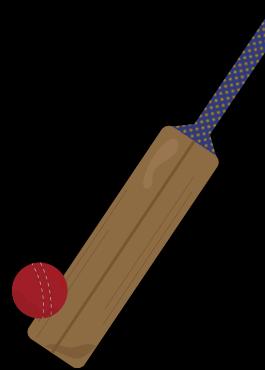
5. Against which country Dhoni scored most runs?



```
SELECT SUM(Runs) AS Total_Runs,  
       Opposition AS Opponent  
FROM msdhoni  
GROUP BY Opposition  
ORDER BY SUM(Runs) DESC  
LIMIT 1
```

OUTPUT

Total_Runs	Opponent
2211	v Sri Lanka



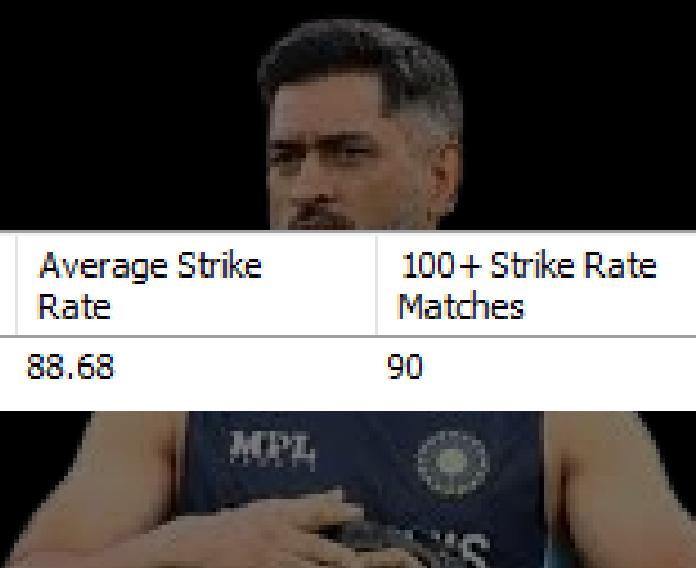
6. What is Dhoni's Highest and Lowest Strike Rate,Average Strike Rate and How many 100+ Strike Rate Matches,Sixes and Fours ?

```

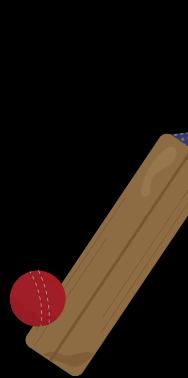
SELECT MAX(Strike_Rate) AS 'High Strike Rate',
       MIN(Strike_Rate) AS 'Low Strike Rate',
       ROUND(AVG(Strike_Rate),2) AS 'Average Strike Rate',
       (SELECT COUNT(Strike_Rate) FROM msdhoni
        WHERE Strike_Rate >= 100)
        AS '100+ Strike Rate Matches',
        SUM('6s') AS 'Sixes',
        SUM('4s') AS 'Fours'
FROM msdhoni
    
```

 **OUTPUT**

High Strike Rate	Low Strike Rate	Average Strike Rate	100+ Strike Rate Matches	Sixes	Fours
400	0	88.68	90	1608	1072



7. At which batting position Dhoni has scored the most runs and order them ?



```
SELECT Pos AS 'Batting Position',
       SUM(Runs) AS Runs
  FROM msdhoni
 GROUP BY Pos
 ORDER BY SUM(Runs) DESC
```

OUTPUT

Batting Position	Runs
6	3830
5	2837
4	1204
3	979
7	891
2	98
8	51





THANK
YOU