Name: Shubham kumar

Roll no: 161 Batch: A3

PRN No: 202201030001

#### **ASSIGNMENT-I**

- 1) Find the statistical Analysis on Cricket Data (Run\_Averate\_Strike) dataset (Refer Data Set 6)
  - a. Find the batsman who is having maximum strike rate

b. Find the batsman who scored the minimum runs

```
[12] batsman2=df.groupby('batsman')['total_runs'].min().idxmin()
print("The batsman with minimum run score is:",batsman2)

The batsman with minimum run score is: AC Gilchrist
```

## c. Find the average ball played by all the batsman

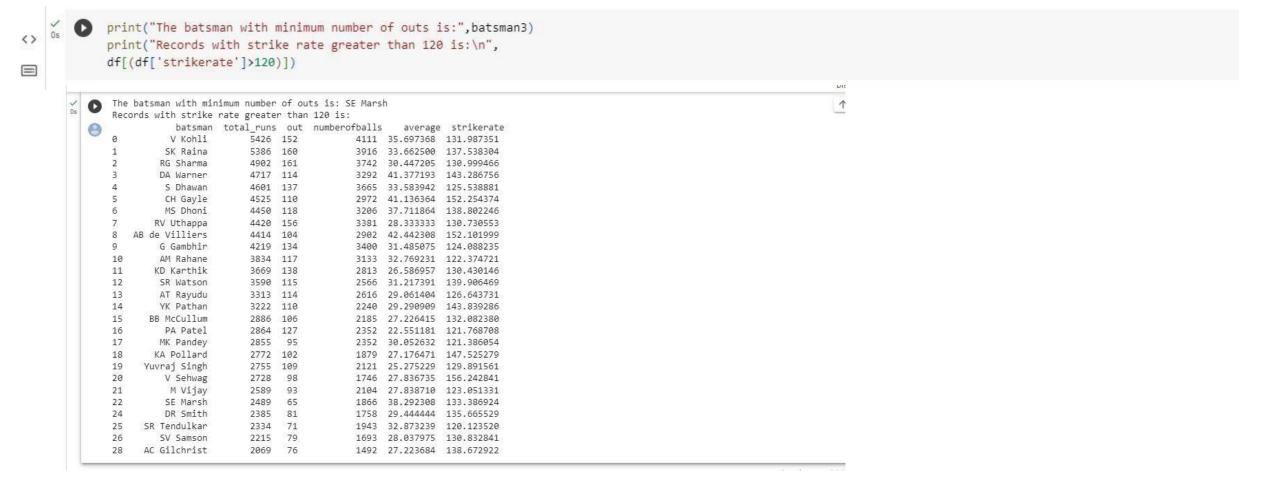
```
[13] avgball=df.groupby('batsman')['numberofballs'].sum().mean()

print("The average of balls played by all the batsman is:",avgball)

batsman3=df.groupby('batsman')['out'].min().idxmin()

The average of balls played by all the batsman is: 2604.896551724138
```

#### d. Find the all the records of batman who's strike rate is greater than 120



e. Find the all records who's average is below 20



### f. Clean the dataset if record is empty with 0 values or delete incomplete data row

```
=
        [18] df1=pd.read_csv('/content/dataset6.csv')
             df2=df1.dropna(axis=1)
             print("The dataset with deleted rows is:\n",df2)
\{x\}
      [18] The dataset with deleted rows is:
                       batsman total runs out numberofballs
                                                                average strikerate
                      V Kohli
                                                       4111 35.697368 131.987351
                                     5426 152
                     SK Raina
                                    5386 160
                                                        3916 33.662500 137.538304
                    RG Sharma
                                    4902 161
                                                        3742 30.447205 130.999466
                                    4717 114
                    DA Warner
                                                        3292
                                                            41.377193 143.286756
                     S Dhawan
                                    4601 137
                                                        3665
                                                            33.583942 125.538881
                     CH Gayle
                                    4525 110
                                                       2972 41.136364 152.254374
            6
                     MS Dhoni
                                    4450 118
                                                             37.711864 138.802246
                                                        3206
                   RV Uthappa
                                    4420 156
                                                        3381 28.333333 130.730553
               AB de Villiers
                                    4414 104
                                                            42.442308 152.101999
                                                        2902
                    G Gambhir
            9
                                    4219 134
                                                             31.485075 124.088235
                                                        3400
                                    3834 117
                    AM Rahane
                                                        3133 32.769231 122.374721
            10
                   KD Karthik
            11
                                    3669 138
                                                        2813
                                                            26.586957 130.430146
            12
                    SR Watson
                                    3590 115
                                                        2566
                                                             31.217391 139.906469
                    AT Rayudu
                                    3313 114
            13
                                                        2616 29.061404 126.643731
                    YK Pathan
                                    3222 110
            14
                                                        2240
                                                             29.290909
                                                                       143.839286
            15
                  BB McCullum
                                         106
                                    2886
                                                             27.226415 132.082380
            16
                     PA Patel
                                                        2352 22.551181 121.768708
                                    2864 127
            17
                    MK Pandey
                                    2855
                                          95
                                                             30.052632 121.386054
            18
                   KA Pollard
                                    2772 102
                                                             27.176471 147.525279
            19
                 Yuvraj Singh
                                    2755 109
                                                            25.275229 129.891561
                                                        2121
                     V Sehwag
                                    2728
                                           98
            20
                                                             27.836735 156.242841
            21
                      M Vijay
                                    2589
                                           93
                                                             27.838710 123.051331
            22
                     SE Marsh
                                    2489
                                           65
                                                       1866
                                                             38.292308 133.386924
            23
                    JH Kallis
                                    2427
                                           89
                                                             27.269663 109.373592
                                                        2219
            24
                     DR Smith
                                    2385
                                           81
                                                       1758
                                                             29.444444 135.665529
                                                            32.873239
            25
                 SR Tendulkar
                                    2334
                                           71
                                                                       120.123520
            26
                                           79
                                                             28.037975 130.832841
                    SV Samson
                                    2215
                                                       1693
                     R Dravid
            27
                                    2174
                                           77
                                                            28.233766 115.823122
                 AC Gilchrist
                                     2069
                                                       1492 27.223684 138.672922
                                                                                                                                    Activate Windows
```

# g. Find the all the records of batman who's strike rate is greater than 120

+ Code	+ Text Cannot say	ve changes					✓ RAM
	<pre>print("Records with average less than 20 is:\n", df[(df['strikerate']&gt;120)])</pre>						↑ ↓ ⊕ <b>‡</b> []
Re	Records with average less than 20 is:						
				numberofballs	average	strikerate	
0	V Kohli	5426			35.697368	131.987351	
1	SK Raina	5386	160	3916	33.662500	137.538304	
2	RG Sharma	4902	161	3742	30.447205	130.999466	
3	DA Warner	4717	114	3292	41.377193	143.286756	
4	S Dhawan	4601	137	3665	33.583942	125.538881	
5	CH Gayle	4525	110	2972	41.136364	152.254374	
6	MS Dhoni	4450	118	3206	37.711864	138.802246	
7	RV Uthappa	4420	156	3381	28.333333	130.730553	
8	AB de Villiers	4414	104	2902	42.442308	152.101999	
9	G Gambhir	4219	134	3400	31.485075	124.088235	
16	AM Rahane	3834	117	3133	32.769231	122.374721	
11	I KD Karthik	3669	138	2813	26.586957	130.430146	
12	2 SR Watson	3590	115	2566	31.217391	139.906469	
13	3 AT Rayudu	3313	114	2616	29.061404	126.643731	
14		3222	110	2240	29.290909	143.839286	
15	BB McCullum	2886	106	2185	27.226415	132.082380	
16	5 PA Patel	2864	127	2352	22.551181	121.768708	
17		2855	95	2352	30.052632	121.386054	
18	3 KA Pollard	2772	102	1879	27.176471	147.525279	
19	9 Yuvraj Singh	2755	109	2121	25.275229	129.891561	
26	V Sehwag	2728	98	1746	27.836735	156.242841	
21		2589	93	2104	27.838710	123.051331	
22	2 SE Marsh	2489	65	1866	38.292308	133.386924	
24	4 DR Smith	2385	81	1758	29.444444	135.665529	
25	SR Tendulkar	2334	71	1943	32.873239	120.123520	
26		2215	79	1693	28.037975		Activate Windows
28	3 AC Gilchrist	2069	76	1492	27.223684	138.672922	Go to Settings to activate Windo