

```
In [1]: #importing necessary libraries
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
import numpy as np
import plotly.express as px
import math

In [2]: pd.set_option('display.max_columns', None)

In [3]: rgs=pd.read_csv("RGS/RGS odi.csv")
rgs

Out [3]:
```

	Runs	Balls Faced	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	Innings
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2.0
1	8	9.0	0.0	0.0	88.88	7.0	bowled	NaN	JH Kallis	Pacer	NaN	NaN	NaN	1.0
2	1	4.0	0.0	0.0	25.00	7.0	caught	B Lee	JR Hopes	NaN	NaN	NaN	NaN	2.0
3	52	61.0	3.0	1.0	85.24	5.0	caught	Yasir Hameed	Shoaib Malik	Spin	NaN	NaN	NaN	2.0
4	29	43.0	5.0	0.0	67.44	4.0	caught	AC Gilchrist	B Lee	Pacer	NaN	NaN	NaN	1.0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
219	159	138.0	17.0	5.0	115.21	1.0	caught	SD Hope	SS Cottrell	Pacer	NaN	NaN	NaN	1.0
220	63	63.0	8.0	1.0	100.00	1.0	caught	SD Hope	JO Holder	Pacer	NaN	NaN	NaN	2.0
221	10	15.0	2.0	0.0	66.66	1.0	caught	DA Warner	MA Starc	Pacer	NaN	NaN	NaN	1.0
222	42	44.0	6.0	0.0	95.45	1.0	lbw	NaN	A Zampa	Spin	NaN	NaN	NaN	1.0
223	119	128.0	8.0	6.0	92.96	1.0	caught	MA Starc	A Zampa	Spin	NaN	NaN	NaN	2.0
224 rows × 22 columns														

```
In [4]: #reading data
vk=pd.read_csv("VK/VK odi.csv",encoding='latin1')
vk

Out [4]:
```

	Match No	Runs	Balls Faced	4s	6s	No of Innings	Not outs	No of Times Dismissed	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	Espr Commentary
0	1	12.0	22.0			1	0		1	1.0	0.0	54.54	2.0	lbw	NaN	NaN	KMDN Kulasekara	Pacer	NaN	NaN
1	2	37.0	67.0			2	0		2	6.0	0.0	55.22	2.0	caught	CK Kapugedera	T Thushara	Pacer	NaN	NaN	
2	3	25.0	38.0			3	0		3	4.0	0.0	65.78	1.0	run out	NaN	NaN	NaN	NaN	NaN	
3	4	54.0	66.0			4	0		4	7.0	0.0	81.81	1.0	bowled	NaN	NaN	T Thushara	Pacer	NaN	NaN
4	5	31.0	46.0			5	0		5	3.0	1.0	67.39	1.0	lbw	NaN	NaN	KMDN Kulasekara	Pacer	NaN	NaN
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
243	244	78.0	76.0			235	39		196	6.0	0.0	102.63	3.0	caught	MA Starc	A Zampa	Spin	NaN	Zampa lt Kohli OUT He's gone Zampa's go Koh.	
244	245	89.0	91.0			236	39		197	8.0	0.0	97.80	3.0	bowled	NaN	JR Hazlewood	Pacer	NaN	Hazlewood lt Kohli OUT He's gone through him.	
245	246	51.0	63.0			237	39		198	6.0	0.0	80.95	3.0	bowled	NaN	IS Sodhi	Spin	OUT Through the gate! This is a	Sodhi lt Kohli OUT Now, it's Southie's tur.	
246	247	15.0	25.0			238	39		199	1.0	0.0	60.00	3.0	bowled	NaN	TG Southee	Pacer	Southie lt Kohli, OUT Now, it's Southie's tur.		
247	248	9.0	12.0			239	39		200	0.0	1.0	75.00	3.0	caught	KA Jamieson	HK Bennett	Pacer	Bennett lt Kohli OUT Caught a third man Th.		
248 rows × 27 columns																				

```
In [5]: ss=pd.read_csv("SS/SS odi.csv")
ss

Out [5]:
```

	Runs	Balls Faced	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	Inn
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
1	41	53	3	0	77.35	7	caught	PD Collingwood	SCJ Broad	Pacer	NaN	NaN	NaN	NaN
2	20	21	1	0	95.23	7	lbw	NaN	JM Anderson	Pacer	NaN	NaN	NaN	NaN
3	18	8	4	0	225	7	not out	NaN	NaN	NaN	NaN	NaN	NaN	NaN
4	15	13	1	0	115.38	7	caught	JM Anderson	SCJ Broad	Pacer	NaN	NaN	NaN	NaN
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
120	131	132	14	1	99.24	3	caught	SS Iyer	Mohammed Shami	Pacer	NaN	NaN	NaN	NaN
121	76	94	3	0	80.85	3	lbw	NaN	A Norjie	Pacer	NaN	NaN	NaN	NaN
122	13	17	1	0	76.47	3	caught	JT Smuts	L Ngidi	Pacer	NaN	NaN	NaN	NaN
123	20	26	3	0	76.92	3	lbw	NaN	AL Phehlukwayo	Pacer	NaN	NaN	NaN	NaN
124	14	17	0	1	82.35	3	bowled	NaN	MJ Santner	Spin	NaN	NaN	NaN	NaN
125 rows × 22 columns														

```
In [6]: kw=pd.read_csv("KW/kw odi.csv")
kw

Out [6]:
```

	Runs	Balls Faced	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	inn
0	0.0	9.0	0.0	0.0	0.00	4.0	bowled	NaN	P Kumar	Pacer	NaN	NaN	NaN	NaN
1	0.0	2.0	0.0	0.0	0.00	4.0	caught	Samaraweera	AD Mathews	Pacer	NaN	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
3	13.0	27.0	1.0	0.0	48.14	6.0	bowled	NaN	I Sharma	Pacer	NaN	NaN	NaN	NaN
4	108.0	132.0	6.0	2.0	81.81	5.0	caught	Raghuil Hasan	Shaiful Islam	NaN	NaN	NaN	NaN	NaN
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
146	27.0	40.0	3.0	0.0	67.50	3.0	run out	NaN	NaN	NaN	NaN	NaN	NaN	NaN
147	67.0	95.0	6.0	0.0	70.52	3.0	caught	RA Jadeja	YS Chahal	Spin	NaN	NaN	NaN	NaN
148	30.0	53.0	2.0	0.0	56.60	3.0	caught	JC Butler	LE Plunkett	Pacer	NaN	NaN	NaN	NaN
149	22.0	31.0	2.0	0.0	70.96	3.0	caught	MA Agarwal	YS Chahal	Spin	NaN	NaN	NaN	NaN
150	19.0	26.0	2.0	0.0	73.07	3.0	bowled	NaN	A Zampa	Spin	NaN	NaN	NaN	NaN
151 rows × 22 columns														

```
In [7]: jr=pd.read_csv("JR/jr odi.csv")
jr

Out [7]:
```

	Runs	Balls Faced	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	innings
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	1
1	36	50	3	0	72	4	bowled	NaN	RA Jadeja	NaN	NaN	NaN	NaN	2
2	39	57	4	0	68.42	4	caught	MS Dhoni	I Sharma	NaN	NaN	NaN	NaN	1
3	57	45	8	1	126.66	6	not out	NaN	NaN	NaN	NaN	NaN	NaN	1
4	31	49	4	0	63.26	4	bowled	NaN	RA Jadeja	NaN	NaN	NaN	NaN	2
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
142	7	30	0	0	23.33	3	caught	TWM Latham	C de Grandhomme	NaN	NaN	NaN	NaN	2
143	17	21	0	0	80.95	3	run out	NaN	NaN	NaN	NaN	NaN	NaN	1
144	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
145	49	52	3	0	94.23	3	caught	T Bavuma	T Shamsi	NaN	NaN	NaN	NaN	2
146	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
147 rows × 22 columns														

```
In [ ]:
```

```
In [8]: #changing position of columns
cols = rgs.columns.tolist()
len(cols)
```

```
In [9]: #removing null values
rgs.replace(' ', np.NaN,inplace=True)
rgs

Out [9]:
```

	Runs	Balls Faced	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	Innings
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	2.0
1	8	9.0	0.0	0.0	88.88	7.0	bowled	NaN	JH Kallis	Pacer	NaN	NaN	NaN	1.0
2	1	4.0	0.0	0.0	25.00	7.0	caught	B Lee	JR Hopes	NaN	NaN	NaN	NaN	2.0
3	52	61.0	3.0	1.0	85.24	5.0	caught	Yasir Hameed	Shoaib Malik	Spin	NaN	NaN	NaN	2.0
4	29	43.0	5.0	0.0	67.44	4.0	caught	AC Gilchrist	B Lee	Pacer	NaN	NaN	NaN	1.0
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
219	159	138.0	17.0	5.0	115.21	1.0	caught	SD Hope	SS Cottrell	Pacer	NaN	NaN	NaN	1.0
220	63	63.0	8.0	1.0	100.00	1.0	caught	SD Hope	JO Holder	Pacer	NaN	NaN	NaN	2.0
221	10	15.0	2.0	0.0	66.66	1.0	caught	DA Warner	MA Starc	Pacer	NaN	NaN	NaN	1.0
222	42	44.0	6.0	0.0	95.45	1.0	lbw	NaN	A Zampa	Spin	NaN	NaN	NaN	1.0
223	119	128.0	8.0	6.0	92.96	1.0	caught	MA Starc	A Zampa	Spin	NaN	NaN	NaN	2.0
224 rows × 22 columns														

```
In [10]: rgs.replace(' ', np.NaN,inplace=True)
vk

Out [10]:
```

	Match No	Runs	Balls Faced	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	innings					
0	1	12.0	22.0			1	0		1	1.0	0.0	54.54	2.0	lbw	NaN	KMDN Kulasekara	Pacer	NaN	NaN	
1	2	37.0	67.0			2	0		2	6.0	0.0	55.22	2.0	caught	CK Kapugedera	T Thushara	Pacer	NaN	NaN	
2	3	25.0	38.0			3	0		3	4.0	0.0	65.78	1.0	run out	NaN	NaN	NaN	NaN	NaN	
3	4	54.0	66.0			4	0		4	7.0	0.0	81.81	1.0	bowled	NaN	NaN	T Thushara	Pacer	NaN	NaN
4	5	31.0	46.0			5	0		5	3.0	1.0	67.39	1.0	lbw	NaN	NaN	KMDN Kulasekara	Pacer	NaN	NaN
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
243	244	78.0	76.0			235	39		196	6.0	0.0	102.63	3.0	caught	MA Starc	A Zampa	Spin	NaN	Zampa lt Kohli OUT He's gone Zampa's go Koh.	
244	245	89.0	91.0			236	39		197	8.0	0.0	97.80	3.0	bowled	NaN	JR Hazlewood	Pacer	NaN	Hazlewood lt Kohli OUT He's gone through him.	
245	246	51.0	63.0			237	39		198	6.0	0.0	80.95	3.0	bowled	NaN	IS Sodhi	Spin	OUT Through the gate! This is a	Sodhi lt Kohli OUT Now, it's Southie's tur.	
246	247	15.0	25.0			238	39		199	1.0	0.0	60.00	3.0	bowled	NaN	TG Southee	Pacer	Southie lt Kohli, OUT Now, it's Southie's tur.		
247	248	9.0	12.0			239	39		200	0.0	1.0	75.00	3.0	caught	KA Jamieson	HK Bennett	Pacer	Bennett lt Kohli OUT Caught a third man Th.		
248 rows × 27 columns																				

```
In [11]: ss.replace(' ', np.NaN,inplace=True)
ss

Out [11]:
```

	Runs	Balls Faced	4s	6s	Strike Rate	Position	Dismissal	Fielder	Bowler	Bowler Type	Espn Commentary	Cricbuzz Commentary	ICC Commentary	Innings
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
1	41	53	3	0	77.35	7	caught	PD Collingwood	SCJ Broad	Pacer	NaN	NaN	NaN	NaN
2	20	21	1	0	95.23	7	lbw	NaN	JM Anderson	Pacer	NaN	NaN	NaN	NaN
3	18	8	4	0	225	7	not out	NaN	NaN	NaN	NaN	NaN	NaN	NaN
4	15	13	1	0	115.38	7	caught	JM Anderson	SCJ Broad	Pacer	NaN	NaN	NaN	NaN
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
120	131	132	14	1	99.24	3	caught	SS Iyer	Mohammed Shami	Pacer	NaN	NaN	NaN	NaN
121	76	94	3	0	80.85	3	lbw	NaN	A Norjie	Pacer	NaN	NaN	NaN	NaN
122	13	17	1	0	76.47	3	caught	JT Smuts	L Ngidi	Pacer	NaN	NaN	NaN	NaN
123	20													











```
[146]: kw_at3_run_counter=[]
for i in range(len(kw_at3_runs)):
    if i==0:
        at3_run_counter.append(kw_at3_runs[0])
    else:
        kw_at3_run_counter.append(kw_at3_runs[i]+kw_at3_run_counter[i-1])
#print(kw_at3_run_counter)
print(len(kw_at3_run_counter))

117
```

```
In [147]: kw_at3_average_list=[]
for i in range(len(kw_at3_run_counter)):
    kw_at3_average_list.append(round((kw_at3_run_counter[i]/kw_at3_out_counter[i]),2))
#print(kw_at3_average_list)
print(len(kw_at3_average_list))

117
```

```
In [148]: yy=[]
for i in range(117):
    yy.append(i+1)
print(yy)

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117]
```

```
In [ ]:
```

```
In [149]: jr['Position'] = jr['Position'].astype(float)
dd[jr['jr_at3_run_counter']]
#dd
```

```
In [150]: jr_at3_runs=list(dd['Runs'])
#print(jr_at3_runs)
print(len(jr_at3_runs))

78
```

```
In [151]: jr_at3_dis=list(dd['Dismissal'])
#print(jr_at3_dis)
print(len(jr_at3_dis))

78
```

```
In [152]: count=0
jr_at3_out_counter=[]
for i in range(len(jr_at3_dis)):
    if jr_at3_dis[i]==2:
        count+=1
    count+=1
    jr_at3_out_counter.append(count)
print(len(jr_at3_out_counter))
#print(jr_at3_out_counter)

78
```

```
In [153]: jr_at3_run_counter=[]
for i in range(len(jr_at3_runs)):
    if i==0:
        jr_at3_run_counter.append(jr_at3_runs[0])
    else:
        jr_at3_run_counter.append(jr_at3_runs[i]+jr_at3_run_counter[i-1])
#print(jr_at3_run_counter)
print(len(jr_at3_run_counter))

78
```

```
In [154]: jr_at3_average_list=[]
for i in range(len(jr_at3_run_counter)):
    jr_at3_average_list.append(round((jr_at3_run_counter[i]/jr_at3_out_counter[i]),2))
#print(jr_at3_average_list)
print(len(jr_at3_average_list))

78
```

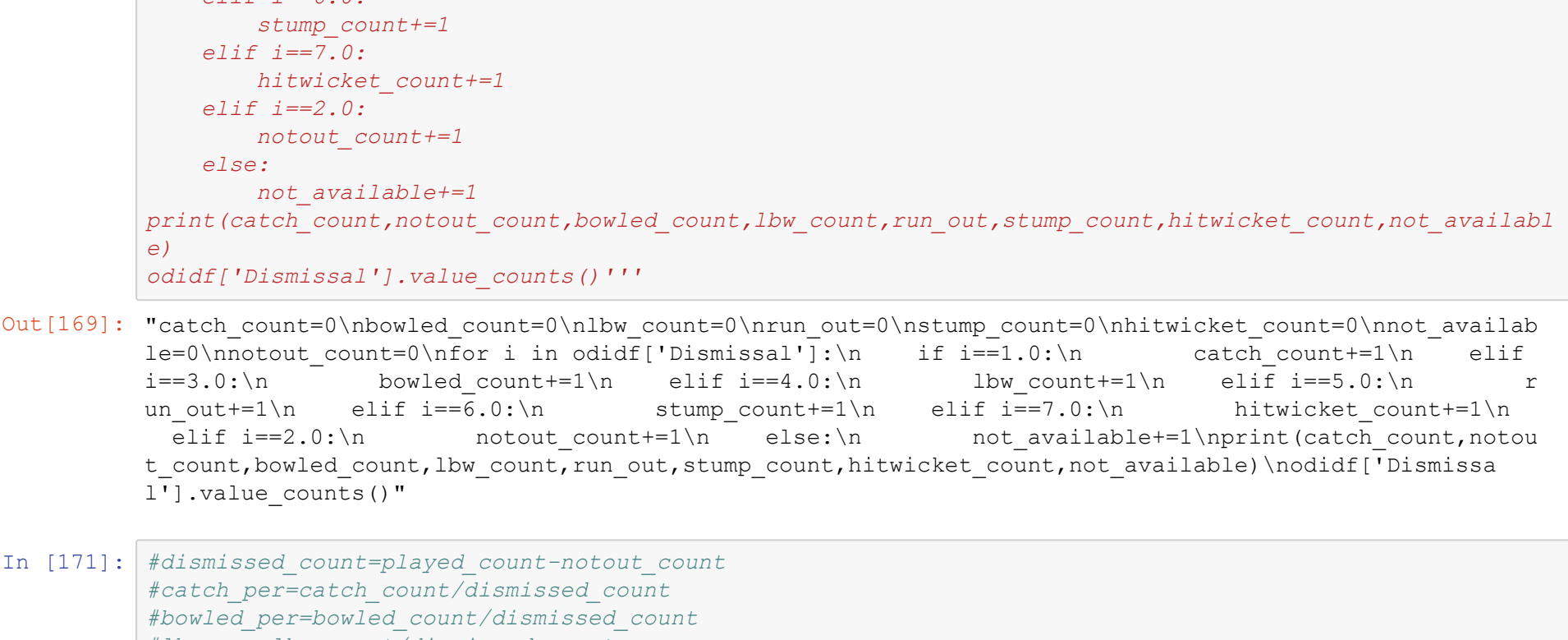
```
In [155]: zz=[]
for i in range(78):
    z.append(i+1)
print(zz)

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78]
```

```
In [ ]:
```

```
In [156]: plt.figure(figsize=(23,12))
plt.plot(kw,kw_at3_average_list, color='Blue', marker='')
plt.plot(kw,ss_at3_average_list, color='green', marker='v')
```

```
plt.plot(yy,kw_at3_average_list, color='black', marker='x')
plt.plot(zz,jr_at3_average_list, color='Red', marker='')
plt.ylabel("Average")
plt.xlabel("Matches")
plt.title("Overall Average at #3")
plt.legend(("Virat Kohli", 'Steven Smith', 'Kane Williamson', 'Joe Root'))
plt.savefig('Greatest Odi at #3.png', dpi=300, bbox_inches='tight')
plt.show()
```



```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [160]: #tot_dis=odidf('Bowler Type').value_counts().sum()
#tot_dis
```

```
In [162]: '''pacer_count=0
for i in odidf('Bowler Type'):
    if i=='Pacer':
        pacer_count+=1
print(pacer_count/tot_dis)'''
```

```
Out[162]: "pacer_count=0\nfor i in odidf('Bowler Type'):\n    if i=='Pacer':\n        pacer_count+=1\nprint(pacer_count/tot_dis)"
```

```
In [164]: #k=(pacer_count/tot_dis)
#fig = go.Figure(data=[go.Pie(labels=['Pacer','Spin'], textinfo='label+percent',values=[k,1-k], hole=.2)])
fig.update_layout(height=600,title_text="Virat Kohli's Dismissals between Pace and spin in ODI's",font=dict(family='Courier New, monospace', size=18, color='#000000'))
#fig.show()
plt.title("Virat Kohli's Dismissals between Pace and spin in ODI's",loc='center',fontWeight='bold')
#fig.show()
```

```
In [168]: #played_count=odidf('Dismissal').value_counts().sum()
#played_count
```

```
In [169]: '''catch_count=0
bowled_count=0
lbw_count=0
run_out=0
stump_count=0
hitwicket_count=0
not_available=0
notout_count=0
for i in odidf('Dismissal'):
```

```
    if i==1.0:
        catch_count+=1
    elif i==3.0:
        bowled_count+=1
    elif i==4.0:
        lbw_count+=1
    elif i==5.0:
        run_out+=1
    elif i==6.0:
        stump_count+=1
    elif i==7.0:
        hitwicket_count+=1
    elif i==2.0:
        notout_count+=1
    else:
        not_available+=1
print(catch_count,notout_count,bowled_count,lbw_count,run_out,stump_count,hitwicket_count,not_availabl
```

```
e)
odidf('Dismissal').value_counts()'''
```

```
Out[169]: "catch_count=0\nbowled_count=0\nlbw_count=0\nrun_out=0\nstump_count=0\nhitwicket_count=0\nnot_availabl
```

```
ew=0\nnotout_count=0\nfor i in odidf('Dismissal'):\n    if i==1.0:\n        catch_count+=1\n    elif i==3.0:\n        bowled_count+=1\n    elif i==4.0:\n        lbw_count+=1\n    elif i==5.0:\n        r
```

```
un_out+=1\n    elif i==6.0:\n        stump_count+=1\n    elif i==7.0:\n        hitwicket_count+=1\n    elif i==2.0:\n        notout_count+=1\n    else:\n        not_available+=1\nprint(catch_count,notout_count,bowled_count,lbw_count,run_out,stump_count,hitwicket_count,not_available)\noididf('Dismissal').value_counts()"
```

```
In [171]: #dismissed_count=played_count-notout_count
#catch_per=catch_count/dismissed_count
#bowled_per=bowled_count/dismissed_count
#lbw_per=lbw_count/dismissed_count
#runout_per=run_out/dismissed_count
#stump_per=stump_count/dismissed_count
#hitwicket_per=hitwicket_count/dismissed_count
#print(catch_per,bowled_per,lbw_per,runout_per,stump_per,hitwicket_per)
#plt.pie([catch_per,bowled_per,lbw_per,runout_per,stump_per,hitwicket_per],radius=3,labels=['Caught','Bowled','Lbw','Run Out','Stumped','Hit Wicket'],autopct='%1.1f%%')
#plt.title("Virat Kohli's Dismissal types by Virat Kohli in ODI's",loc='center',fontWeight='bold')
#plt.show()
```

```
In [174]: #dismissed_count
```

```
In [175]: '''import plotly.graph_objects as go
dismissed_count=played_count-notout_count
catch_per=catch_count/dismissed_count
bowled_per=bowled_count/dismissed_count
lbw_per=lbw_count/dismissed_count
runout_per=run_out/dismissed_count
stump_per=stump_count/dismissed_count
hitwicket_per=hitwicket_count/dismissed_count
labels = ['Caught','Bowled','Lbw','Run Out','Stumped','Hit Wicket']
values = [catch_per,bowled_per,lbw_per,runout_per,stump_per,hitwicket_per]
fig = go.Figure(data=[go.Pie(labels=labels, textinfo='label+percent',values=values, hole=.2)])
fig.update_layout(height=600,
                    title_text="Percentage of Dismissal types by Virat Kohli in ODI's",
                    font=dict(family='Courier New, monospace', size=18, color='#000000'))
fig.show()'''
```

```
Out[175]: 'import plotly.graph_objects as go\ndismissed_count=played_count-notout_count\ncatch_per=catch_count/dismissed_count\nbowled_per=bowled_count/dismissed_count\nlbw_per=lbw_count/dismissed_count\nrunout_per=run_out/dismissed_count\nstump_per=stump_count/dismissed_count\nhitwicket_per=hitwicket_count/dismissed_count\nlabels = ['Caught','Bowled','Lbw','Run Out','Stumped','Hit Wicket']\nvalues = [catch_per,bowled_per,lbw_per,runout_per,stump_per,hitwicket_per]\nfig = go.Figure(data=[go.Pie(labels=labels, textinfo='label+percent',values=values, hole=.2)])\nfig.update_layout(height=600,\n                    title_text="Percentage of Dismissal types by Virat Kohli in ODI's",\n                    font=dict(fam
```

```
ily='Courier New, monospace', size=18, color='#000000'))\nfig.show()'
```

```
In [176]: '''checker50=0
checker100=0
for i in odidf('Runs'):
```

```
    if i>=100:
        checker100+=1
        #print(i)
    if i>=50:
        checker50+=1
print(checker100)
print(checker50)'''
```

```
Out[176]: "checker50=0\nchecker100=0\nfor i in odidf('Runs'):\n    if i>=100:\n        checker100+=1\n    #print(i)\n    if i>=50:\n        checker50+=1\nprint(checker100)\nprint(checker50)"
```

```
In [177]: '''k=(checker100/checker50)
fig = go.Figure(data=[go.Pie(labels=['>=100','50< &lt;100'], textinfo='label+percent',values=[k,1-k], hole=.2)])
fig.update_layout(height=600,
                    title_text="Virat Kohli's conversion rate from 50's to 100's in ODI's",
                    font=dict(family='Courier New, monospace', size=18, color='#000000'))
fig.show()'''
```

```
Out[177]: "k=(checker100/checker50)\nfig = go.Figure(data=[go.Pie(labels=['>=100','50< &lt;100'], textinfo='label+percent',values=[k,1-k], hole=.2)])\nfig.update_layout(height=600,\n                    title_text="Virat Kohli's conversion rate from 50's to 100's in ODI's",\n                    font=dict(family='Courier New, monospace', size=18, color='#000000'))\nfig.show()'
```

```
In [ ]:
```

```
In [180]: #df['Bowler'].value_counts().head(15)
```

```
In [179]: ss['Bowler'].value_counts().head(15).plot(kind='bar',color='y',figsize=(15,7))
plt.ylabel("Wickets")
plt.title("Dismissed Virat Kohli most no of times in all formats")
```

```
Out[179]: Text(0.5, 1.0, 'Dismissed Virat Kohli most no of times in all formats')
```



```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```