CHOSEN DATASET: Valorant Esports Player Stats at LAN till May 2022

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CPE22S2

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```
import numpy as np
import pandas as pd

filepath = "/content/Valo Lan Stats.csv"
```

Generate | 10 random numbers using numpy | Close

```
df = pd.read_csv(filepath)
df
```

	Country	Player	Team	Maps	K	D	A	KD	KDA	ACS/Map	K/Map	D/Map
0	Japan	Ade	Crazy Raccoon	10	95	148	59	0.64	1.04	125.50	9.50	14.80
1	Japan	Fisker	Crazy Raccoon	10	122	164	39	0.74	0.98	176.50	12.20	16.40
2	South Korea	Bazzi	Crazy Raccoon	5	62	74	25	0.84	1.18	208.00	12.40	14.80
3	South Korea	Munchkin	Crazy Raccoon	14	272	229	69	1.19	1.49	193.75	19.43	16.36
4	Japan	Neth	Crazy Raccoon	14	183	212	73	0.86	1.21	177.50	13.07	15.14
...	...	...	...	...	...	...	...	...	...	...	...	..
155	Singapore	Jinggg	Paper Rex	10	184	168	51	1.10	1.40	250.00	18.40	16.80
156	Thailand	Surf	Xerxia	7	121	120	16	1.01	1.14	212.00	17.29	17.14

Next steps: Generate code with df | View recommended plots

```
# Identifying Columns

columns = df.columns
print(f"This the Columns names::::: {columns}")
```

```
This the Columns names::::: Index(['Country', 'Player', 'Team', 'Maps', 'K', 'D', 'A', 'KD', 'KDA',
       'ACS/Map', 'K/Map', 'D/Map', 'A/Map'],
      dtype='object')
```

```
# Identifying data types fo data

dataTypes = df.dtypes
print(dataTypes)
```

```
Country     object
Player      object
Team        object
Maps         int64
K            int64
D            int64
A            int64
KD         float64
```

```
KDA        float64
ACS/Map    float64
K/Map      float64
D/Map      float64
A/Map      float64
dtype: object
```

```
# Total Records

TotalRecords = df.shape[0]
print(f"This is the Total Records: {TotalRecords}")
```

```
This is the Total Records: 160
```

```
# First 20 Records
df.iloc[:20]
```

	Country	Player	Team	Maps	K	D	A	KD	KDA	ACS/Map	K/Map	D/Map	A
0	Japan	Ade	Crazy Raccoon	10	95	148	59	0.64	1.04	125.500	9.50	14.80	
1	Japan	Fisker	Crazy Raccoon	10	122	164	39	0.74	0.98	176.500	12.20	16.40	
2	South Korea	Bazzi	Crazy Raccoon	5	62	74	25	0.84	1.18	208.000	12.40	14.80	
3	South Korea	Munchkin	Crazy Raccoon	14	272	229	69	1.19	1.49	193.750	19.43	16.36	
4	Japan	Neth	Crazy Raccoon	14	183	212	73	0.86	1.21	177.500	13.07	15.14	
5	Japan	Zepher	Crazy Raccoon	4	62	67	10	0.93	1.07	202.000	15.50	16.75	
6	South Korea	Medusa	Crazy Raccoon	9	125	150	40	0.83	1.10	195.250	13.89	16.67	
7	Japan	Rion	Crazy Raccoon	4	46	67	16	0.69	0.93	148.000	11.50	16.75	
8	Finland	Derke	Fnatic	25	498	416	119	1.20	1.48	204.000	19.92	16.64	
9	Czechia	Magnum	Fnatic	29	461	444	131	1.04	1.33	167.375	15.90	15.31	
10	Croatia	Doma	Fnatic	25	398	372	199	1.07	1.60	152.250	15.92	14.88	
11	United Kingdom	Mistic	Fnatic	29	408	404	215	1.01	1.54	159.125	14.07	13.93	
12	United Kingdom	Boaster	Fnatic	29	396	442	178	0.90	1.30	131.750	13.66	15.24	
13	Argentina	Klaus	KRÜ Esports	33	438	489	171	0.90	1.25	185.625	13.27	14.82	

```
# Last 20 records

df.iloc[-20:]
```

	Country	Player	Team	Maps	K	D	A	KD	KDA	ACS/Map	K/Map	D/Ma
140	Brazil	PANcada	LOUD	11	165	172	58	0.96	1.30	180.0	15.00	15.6
141	Brazil	Xand	Ninjas in Pyjamas	7	125	108	25	1.16	1.39	241.0	17.86	15.4
142	Brazil	Cauanzin	Ninjas in Pyjamas	7	102	108	45	0.94	1.36	207.0	14.57	15.4
143	Brazil	Benzn1	Ninjas in Pyjamas	7	92	108	51	0.85	1.32	191.0	13.14	15.4
144	Brazil	John	Ninjas in Pyjamas	7	93	113	32	0.82	1.11	181.0	13.29	16.1
145	South Korea	Sayaplayer	The Guard	5	95	75	15	1.27	1.47	251.0	19.00	15.0
146	Canada	JonahP	The Guard	5	77	80	20	0.96	1.21	198.0	15.40	16.0
147	United States	Nats	The Guard	5	67	77	14	0.87	1.05	179.0	13.40	15.4
148	United States	Valyn	The Guard	5	67	78	43	0.86	1.41	178.0	13.40	15.6
149	United States	Trent	The Guard	5	63	79	19	0.80	1.04	162.0	12.60	15.8
150	South Korea	Zest	DRX	13	194	171	64	1.13	1.51	196.0	14.92	13.1
151	Finland	H1ber	Fnatic	4	63	73	22	0.86	1.16	231.0	15.75	18.2
152	France	Enzo	Fnatic	4	68	61	19	1.11	1.43	229.0	17.00	15.2
153	Finland	Hoody	G2 Esports	6	105	97	38	1.08	1.47	242.0	17.50	16.1

```
# Change the K, D, A column to actual terms of Kills, Death, Assists

df.rename(columns={'K':'Kills'}, inplace=True)
df.rename(columns={'D':'Deaths'}, inplace=True)
df.rename(columns={'A':'Assists'}, inplace=True)

df
```

	Country	Player	Team	Maps	Kills	Deaths	Assists	KD	KDA	ACS/Map	K/M
0	Japan	Ade	Crazy Raccoon	10	95	148	59	0.64	1.04	125.50	9
1	Japan	Fisker	Crazy Raccoon	10	122	164	39	0.74	0.98	176.50	12
2	South Korea	Bazzi	Crazy Raccoon	5	62	74	25	0.84	1.18	208.00	12
3	South Korea	Munchkin	Crazy Raccoon	14	272	229	69	1.19	1.49	193.75	19
4	Japan	Neth	Crazy Raccoon	14	183	212	73	0.86	1.21	177.50	13
...	...	...	...	...	...	...	...	...	...	...	
155	Singapore	Jinggg	Paper Rex	10	184	168	51	1.10	1.40	250.00	18
156	Thailand	Surf	Xerxia	7	121	120	16	1.01	1.14	212.00	17

Next steps: Generate code with df View recommended plots

```
# Create a new dataframe  that gathers data with the Team names of "Fnatic"

Teams = pd.DataFrame(df)
Teams = df[df['Team'] == 'Fnatic']

Teams
```

	Country	Player	Team	Maps	Kills	Deaths	Assists	KD	KDA	ACS/Map	K/Map	D/
8	Finland	Derke	Fnatic	25	498	416	119	1.20	1.48	204.000	19.92	1
9	Czechia	Magnum	Fnatic	29	461	444	131	1.04	1.33	167.375	15.90	1
10	Croatia	Doma	Fnatic	25	398	372	199	1.07	1.60	152.250	15.92	1
11	United Kingdom	Mistic	Fnatic	29	408	404	215	1.01	1.54	159.125	14.07	1
12	United Kingdom	Boaster	Fnatic	29	396	442	178	0.90	1.30	131.750	13.66	1
151	Finland	H1ber	Fnatic	4	63	73	22	0.86	1.16	231.000	15.75	1

Next steps: Generate code with Teams View recommended plots

```
# Create a new dataframe  that gathers data with the Team names of "Crazy Raccoon"

Teams = pd.DataFrame(df)
Teams = df[df['Team'] == 'Crazy Raccoon']

Teams
```

	Country	Player	Team	Maps	Kills	Deaths	Assists	KD	KDA	ACS/Map	K/Map	D
0	Japan	Ade	Crazy Raccoon	10	95	148	59	0.64	1.04	125.50	9.50	
1	Japan	Fisker	Crazy Raccoon	10	122	164	39	0.74	0.98	176.50	12.20	
2	South Korea	Bazzi	Crazy Raccoon	5	62	74	25	0.84	1.18	208.00	12.40	
3	South Korea	Munchkin	Crazy Raccoon	14	272	229	69	1.19	1.49	193.75	19.43	
4	Japan	Neth	Crazy Raccoon	14	183	212	73	0.86	1.21	177.50	13.07	

Next steps: Generate code with Teams View recommended plots

```
# Create a new dataframe  that gathers data with the Team names of "100 Thieves"

Teams = pd.DataFrame(df)
Teams = df[df['Team'] == '100 Thieves']

Teams
```

	Country	Player	Team	Maps	Kills	Deaths	Assists	KD	KDA	ACS/Map	K/Map	D/
54	United States	Asuna	100 Thieves	10	171	162	39	1.06	1.30	247.0	17.1	1
55	United States	Ethan	100 Thieves	10	159	148	50	1.07	1.41	212.0	15.9	1
56	United States	Nitr0	100 Thieves	10	161	128	62	1.26	1.74	202.0	16.1	1

Next steps: Generate code with Teams View recommended plots

```
# Create a new dataframe  that gathers data with the Team names of "Sentinels"

Teams = pd.DataFrame(df)
Teams = df[df['Team'] == 'Sentinels']

Teams
```

	Country	Player	Team	Maps	Kills	Deaths	Assists	KD	KDA	ACS/Map	K/Map
24	Canada	TenZ	Sentinels	30	587	448	140	1.31	1.62	252.0	19.57
25	United States	ShahZaM	Sentinels	30	511	429	167	1.19	1.58	226.0	17.03
26	United States	SicK	Sentinels	30	473	435	189	1.09	1.52	211.0	15.77
	United										

Next steps: Generate code with Teams View recommended plots

Generate create a dataframe with 2 columns and 10 rows Close

```
# Use numpy to get the average Kills and Assits

K = np.array(df['Kills'])
A = np.array(df['Deaths'])
AVK = int(np.average(K))
AVA = int(np.average(A))

print(f"This is the Average of Kills: {AVK}, and Average of Assists: {AVA}")
```

```
This is the Average of Kills: 220, and Average of Assists: 220
```

```
# Use numpy to get the median Kills and Assits value.

KK = np.array(df['Kills'])
AA = np.array(df['Assists'])
M_K = int(np.median(KK))
M_A = int(np.median(AA))

print(f"This is the Median of Kills: {M_K}, and Median of Assists: {M_A}")
```

```
This is the Median of Kills: 161, and Median of Assists: 58
```

```
# Use numpy to get the standard deviation of the skinthickness.

KKK = np.array(df['Kills'])
SVK= np.std(KKK)
```