### Symbiosis Skills and Professional University



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PRN:

School: School of Data Science

Course: Data Associate (Data Science)

Module Name: Python for Data Analysis / Managing with Data / Analyzing Data

from Disparate Sources (tick any one)

1. Skill Activity Number: 9

**2. Title: Business** Analytics on PUBG Game Data Analysis

3. Skills / Competencies to be acquired:

Python

4. **Duration:** 2 days

5. What is the purpose of the activity?

How to analyses, explore a data with Python

- 6. Steps Performed in this activity?
- 7. What resources / materials / equipment / tools did you use for this activity?

Jupyter Notebook, MS Word

8. What skills did you acquire?

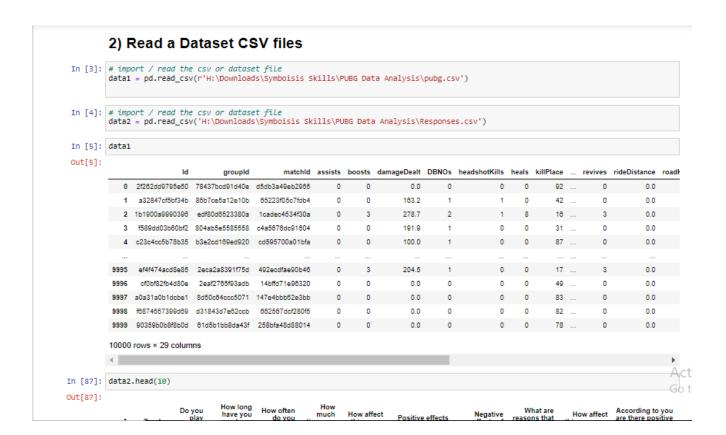
Python

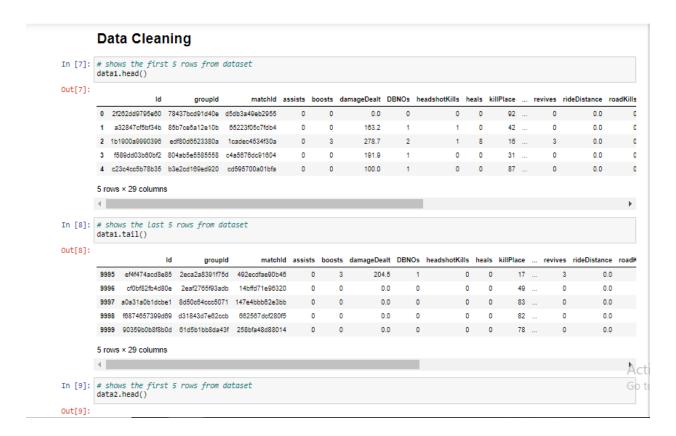
9. Time taken to complete this activity?

2 Hours

#### Business – Analytics Assignment on Project Data Project: PUBG Game Data Analysis

#### 1) Descriptive Analytics:





#### 1) The most kills ever recorded are

# The most kills ever recorded are In [10]: print('The most kills ever',pubg['kills'].max()) The most kills ever 35

#### 2) Min, Max Median values of kills, killPoints, Age

```
In [33]: # show the mid value of column kills using median()
Out[33]: 0.0

In [34]: # show the max value of column killsPoints and kills using max()
data1[['killPoints', 'kills']].max()

Out[34]: killPoints 1926
kills 35
dtype: int64

In [35]: data1['killPoints'].argmax()

Out[35]: 5780

In [36]: data2['Age'].max()

Out[36]: 27

In [37]: data2['Age'].min()

Out[37]: 18

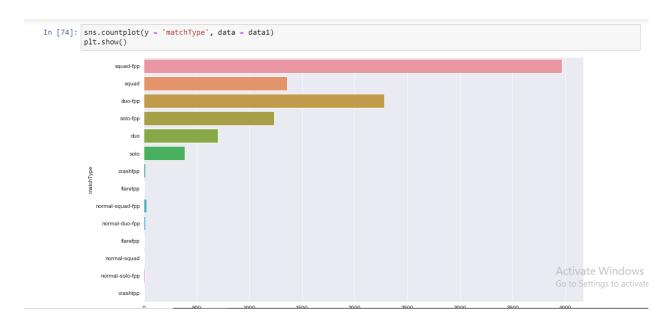
Activate Windows
In [38]: data2['Age'].median()

Out[38]: 23.0
```

## 3) Finding Rank Points of players where points are greater than 2000

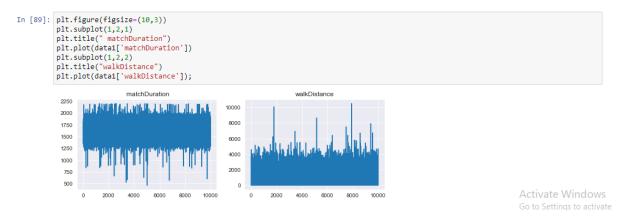
In [59]: Out[59]:	data1[data1['rankPoints']>2000]														
		ld	groupld	matchid	assists	boosts	damageDealt	DBNOs	headshotKills	heals	killPlace		revives	rideDistance	roadh
	15	c5473a410326a8	8a25860cd71a23	88cffe1ae97aff	1	1	594.00	2	1	7	16		2	0.0	
	91	dc096f1bfc19e1	d96d854e3a6e83	141292a39f9e83	2	3	655.10	6	1	3	1		1	4360.0	
	270	0a1c83c01366df	6a863044fe1c0e	82eb0de129cedd	0	0	57.33	0	0	0	55		0	0.0	
	513	d63ab04adc3fd1	826ff26c2c7867	831d979936fb21	0	0	0.00	0	0	0	72		0	0.0	
	1577	14661f448bb275	a487bd82df96e1	06c6fbdb62c73e	3	7	1036.00	6	2	3	1		1	0.0	
	1843	ab1afced689401	d1479427076a34	67397e5c90e9d0	0	0	69.66	0	0	0	93		0	0.0	
	2319	b40aade792d1fb	9f0ca505f443f7	e4b85e3eff53c1	0	2	351.20	1	1	4	28		0	0.0	
	2921	2212e334a8bbbf	193060169f350b	e377dcb932cb03	0	0	288.80	0	1	3	32		0	0.0	
	5603	1c51258d8c0cea	e530b35789a839	f43b3ff598d007	0	3	540.40	4	0	3	4		0	3115.0	
	6376	b48874dabe851c	896534034ba76c	e5dccbddc88c18	0	1	81.02	0	0	0	35		0	0.0	
	6405	9485a48ebd27d4	f7858ecfb9fba3	f65530a592ed86	0	0	0.00	0	0	0	69		0	113.0	
	6832	eb431c5ecad7d1	2348895c92364b	b0e64a66584b59	1	3	866.50	0	2	2	1		0	0.0	
	7306	1400869b0955aa	601f6efe857a36	c9feeeef48054c	0	3	135.10	0	0	3	57		0	0.0	
	7498	62925734e6f78d	97c237fbb9fad6	1ff10e296365a9	3	2	399.70	3	0	2	9		1	0.0	
	9406	e670fa5408eef8	492f610edeff94	8fce0450d9ab98	1	0	160.20	0	0	3	66		A ot	ivate Win	dow
	9551	8b45ccbb7d9db4	e7e18c351c6d4a	5a3c6c83b98b6a	0	1	100.00	0	0	8	35		Go <sub>0</sub> t	o Setting 160	activ

#### 4) Counting of Match Type in Game



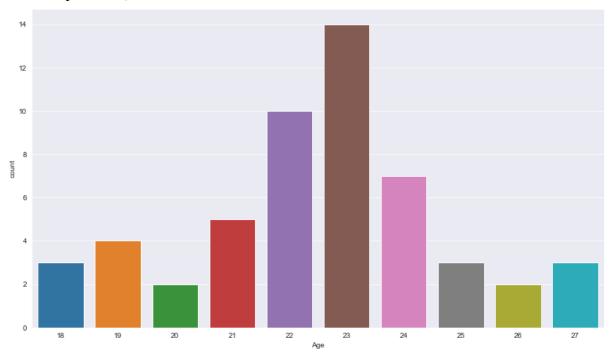
#### 5) Distribution of Match duration vs walk distance

distribution of the match's duration vs walk distance below each other.



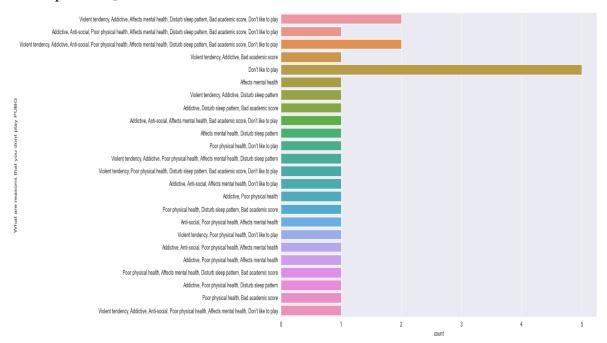
#### 6) Calculate age groups by using pubg\_dataset.

sns.countplot(x = 'Age', data = data2)
plt.show()

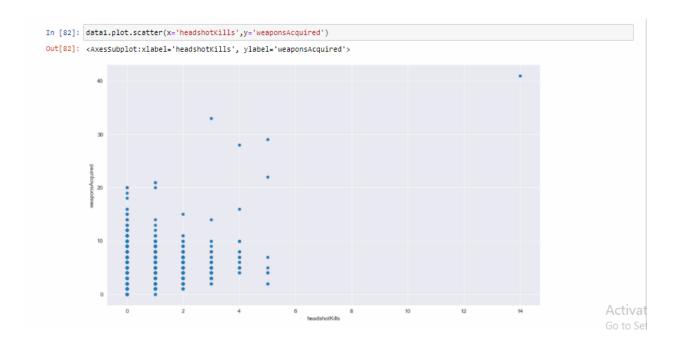


### 7) Calculating What are reasons that you don't play PUBG?

sns.countplot(y = 'What are reasons that you dont play PUBG', data = data2) plt.show()



### 8) Visualize headshotKills & weaponsAcquired by using scatter plot.



### 9) How many unique values are there in 'matchType' and what are their counts?

```
In [18]: pubg['matchType'].unique()
In [19]: pubg['matchType'].value_counts()
Out[19]: squad-fpp
        duo-fpp
                       2282
        solo-fpp
                       1234
        duo
                        702
       normal-squad-fpp
        crashfpp
                         13
        normal-duo-fpp
       normal-solo-fpp
normal-squad
        flaretpp
        crashtpp
        flarefpp
        Name: matchType, dtype: int64
```

#### 2) Diagnostic Analytics:

PUBG Game:

- 1. It happens because of Gaming addiction.
- 2. Due to this pandemic situation peoples are played PUBG game.

#### 3) Predictive Analytics:

- 1. Age wise side effects count.
- 2. It affects on our physical health

#### 4) Prescriptive Analytics:

- 1. Control any addiction by proper measures.
- 2. To begin with, try to lessen the time you spend on the game.
- 3. Try to divert your mind. Do not always stay indoors. Go out and indulge in physical activities.