In [2]:
```
pip install pandas
```

```
Requirement already satisfied: pandas in c:\users\mahima-pc\appdata\local\programs\python\python38-32\lib\site-packages (1.4.2)
Requirement already satisfied: pytz>=2020.1 in c:\users\mahima-pc\appdata\local\programs\python\python38-32\lib\site-packages (from pandas) (2020.5)
Requirement already satisfied: python-dateutil>=2.8.1 in c:\users\mahima-pc\appdata\local\programs\python\python38-32\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: numpy>=1.18.5 in c:\users\mahima-pc\appdata\local\programs\python\python38-32\lib\site-packages (from pandas) (1.20.3)
Requirement already satisfied: six>=1.5 in c:\users\mahima-pc\appdata\roaming\python\python38\site-packages (from python-dateutil>=2.8.1->pandas) (1.14.0)
Note: you may need to restart the kernel to use updated packages.
WARNING: You are using pip version 21.1.2; however, version 22.0.4 is available.
You should consider upgrading via the 'c:\users\mahima-pc\appdata\local\programs\python\python38-32\python.exe -m pip install --upgrade pip' command.
```

In [3]:
```
import pandas as pd
#Dataset CSV
url = "edudata.csv"
df = pd.read_csv(url)
print(df)
```

	gender	NationalITy	PlaceofBirth	StageID	GradeID	SectionID	Topic	\
0	NaN	KW	KuwaIT	lowerlevel	G-04	A	IT	
1	M	KW	NaN	lowerlevel	G-04	A	NaN	
2	M	KW	KuwaIT	NaN	G-04	A	IT	
3	M	KW	KuwaIT	lowerlevel	G-04	A	IT	
4	NaN	KW	KuwaIT	lowerlevel	G-04	A	IT	
5	F	KW	KuwaIT	lowerlevel	G-04	A	IT	
6	M	KW	KuwaIT	MiddleSchool	G-07	A	NaN	
7	M	KW	NaN	MiddleSchool	G-07	A	Math	
8	F	KW	KuwaIT	MiddleSchool	G-07	A	Math	
9	F	KW	KuwaIT	MiddleSchool	G-07	B	IT	
10	M	KW	KuwaIT	MiddleSchool	G-07	A	Math	
11	M	KW	KuwaIT	MiddleSchool	G-07	B	Math	
12	M	KW	KuwaIT	lowerlevel	NaN	A	IT	
13	M	lebanon	lebanon	NaN	G-08	A	Math	
14	F	KW	KuwaIT	MiddleSchool	G-08	A	Math	
15	F	KW	KuwaIT	MiddleSchool	G-06	A	IT	
16	NaN	NaN	KuwaIT	MiddleSchool	G-07	B	IT	
17	M	KW	NaN	MiddleSchool	G-07	A	NaN	
18	F	KW	KuwaIT	MiddleSchool	G-07	A	IT	
19	NaN	KW	KuwaIT	MiddleSchool	G-07	B	IT	
20	F	KW	NaN	MiddleSchool	G-07	A	IT	
21	F	KW	KuwaIT	MiddleSchool	G-07	B	IT	
22	M	KW	KuwaIT	MiddleSchool	G-07	A	IT	
23	NaN	KW	KuwaIT	MiddleSchool	G-07	A	IT	
24	M	KW	KuwaIT	MiddleSchool	G-07	B	NaN	
25	M	KW	NaN	MiddleSchool	G-07	A	IT	
26	NaN	KW	KuwaIT	MiddleSchool	G-07	B	IT	
27	M	KW	KuwaIT	MiddleSchool	G-08	A	Arabic	

	Semester	Relation	cns	dsa	oops	os
0	F	Father	NaN	16.0	2	20
1	F	Father	20.0	20.0	3	25
2	F	Father	10.0	7.0	0	30
3	F	Father	NaN	25.0	5	35
4	F	Father	40.0	50.0	12	50
5	F	Father	42.0	30.0	13	70
6	F	Father	35.0	12.0	0	17
7	F	NaN	NaN	NaN	15	22
8	F	Father	12.0	21.0	16	50
9	F	Father	NaN	80.0	25	70
10	F	Father	50.0	88.0	30	80
11	F	Father	19.0	6.0	19	12
12	F	Father	5.0	1.0	0	11
13	F	Father	20.0	14.0	12	19
14	F	NaN	NaN	70.0	44	60
15	F	Father	30.0	40.0	22	66
16	F	Father	36.0	30.0	20	80
17	F	Father	NaN	13.0	35	90
18	F	Mum	69.0	15.0	36	96
19	F	Mum	70.0	50.0	40	99
20	F	Father	NaN	60.0	33	90
21	F	Father	10.0	12.0	4	80
22	F	Father	15.0	21.0	2	90
23	F	Father	2.0	0.0	2	50
24	F	Father	0.0	2.0	3	70
25	F	Father	8.0	7.0	30	40
26	F	Father	19.0	19.0	25	40
27	F	Father	25.0	15.0	12	33

In [4]:
```
#print the dimension of dataset
df.shape
```

Out[4]:
```
(28, 13)
```

In [24]:
```
url = "edudata.csv"
df = pd.read_csv(url)
#maximum for all value in a dataset
df.max(numeric_only=True)
```

Out[24]:
```
cns     70.0
dsa     88.0
oops    44.0
os      99.0
dtype: float64
```

In [7]:
```
#maximum for particular value in a dataset
print(df['os'].max())
```

```
99
```

In [23]:
```
df.min(numeric_only=True)
```

Out[23]:
```
cns      0.0
dsa      0.0
oops     0.0
os      11.0
dtype: float64
```

In [9]:
```
#min for particular value in a dataset
print(df['os'].min())
```

```
11
```

In [22]:
```
#mean for all value in a dataset
print(df.mean(numeric_only=True))
```

```
cns     25.571429
dsa     26.814815
oops    16.428571
os      53.392857
dtype: float64
```

In [11]:
```
print(df.isnull().values.any())
```

```
True
```

In [12]:
```
df1 = df.dropna()
```

In [21]:
```
print(df.mean(numeric_only=True))
```

```
cns     25.571429
dsa     26.814815
oops    16.428571
os      53.392857
dtype: float64
```

In [20]:
```
#mean for all particular value in a dataset
print(df['os'].mean())
```

```
53.392857142857146
```

In [17]:
```
#median for all value in a dataset
df.median(numeric_only=True)
```

Out[17]:
```
cns     20.0
dsa     19.0
oops    14.0
os      50.0
dtype: float64
```

In [ ]:
```

```