

estudiantes matematicas

school sex age address Pstatus guardian traveltime studytime failures paid internet health
absences G1 G2 G3

0	GP	F	18	U	A	mother	2	2	0	no	no	3	6	5	6	6
1	GP	F	17	U	T	father	1	2	0	no	yes	3	4	5	5	6
2	GP	F	15	U	T	mother	1	2	3	yes	yes	3	10	7	8	10
3	GP	F	15	U	T	mother	1	3	0	yes	yes	5	2	15	14	15
4	GP	F	16	U	T	father	1	2	0	yes	no	5	4	6	10	10
..
390	MS	M	20	U	A	other	1	2	2	yes	no	4	11	9	9	9
391	MS	M	17	U	T	mother	2	1	0	no	yes	2	3	14	16	16
392	MS	M	21	R	T	other	1	1	3	no	no	3	3	10	8	7
393	MS	M	18	R	T	mother	3	1	0	no	yes	5	0	11	12	10
394	MS	M	19	U	T	father	1	1	0	no	yes	5	5	8	9	9

[395 rows x 16 columns]

Verificar valores NaN matematicas

school 0

sex 0

age 0

address 0

famsize 0

Pstatus 0

Medu	0
Fedu	0
Mjob	0
Fjob	0
reason	0
guardian	0
traveltime	0
studytime	0
failures	0
schoolsup	0
famsup	0
paid	0
activities	0
nursery	0
higher	0
internet	0
romantic	0
famrel	0
freetime	0
goout	0
Dalc	0
Walc	0
health	0
absences	0
G1	0
G2	0
G3	0
dtype:	int64

estudiantes portugueses

school sex age address Pstatus guardian traveltime studytime failures paid internet health
absences G1 G2 G3

0	GP	F	18	U	A	mother	2	2	0	no	no	3	6	5	6	6
1	GP	F	17	U	T	father	1	2	0	no	yes	3	4	5	5	6
2	GP	F	15	U	T	mother	1	2	3	yes	yes	3	10	7	8	10
3	GP	F	15	U	T	mother	1	3	0	yes	yes	5	2	15	14	15
4	GP	F	16	U	T	father	1	2	0	yes	no	5	4	6	10	10
..
390	MS	M	20	U	A	other	1	2	2	yes	no	4	11	9	9	9
391	MS	M	17	U	T	mother	2	1	0	no	yes	2	3	14	16	16
392	MS	M	21	R	T	other	1	1	3	no	no	3	3	10	8	7
393	MS	M	18	R	T	mother	3	1	0	no	yes	5	0	11	12	10
394	MS	M	19	U	T	father	1	1	0	no	yes	5	5	8	9	9

[395 rows x 16 columns]

Verificar valores NaN portugueses

school 0
sex 0
age 0
address 0
famsize 0

Pstatus	0
Medu	0
Fedu	0
Mjob	0
Fjob	0
reason	0
guardian	0
traveltime	0
studytime	0
failures	0
schoolsup	0
famsup	0
paid	0
activities	0
nursery	0
higher	0
internet	0
romantic	0
famrel	0
freetime	0
goout	0
Dalc	0
Walc	0
health	0
absences	0
G1	0
G2	0
G3	0

dtype: int64

clase de matematicas

El promedio de edad es: 16.696202531645568

clase de portugues

El promedio de edad es: 16.7442218798151

clase de matematicas

El promedio de G1 es: 10.90886075949367

El promedio de G2 es: 10.713924050632912

El promedio de G3 es: 10.415189873417722

clase de portugues

El promedio de G1 es: 11.399075500770415

El promedio de G2 es: 11.570107858243452

El promedio de G3 es: 11.906009244992296

clase de matematicas

clase de portugues

clase de matematicas

75

clase de portugues

32

school sex age address famsize Pstatus Medu Fedu ... Dalc Walc health absences G1 G2 G3
porcentaje_asistencia

0	GP	F	18	U	GT3	A	4	4	...	1	1	3	6	5	6	6	94.666667
1	GP	F	17	U	GT3	T	1	1	...	1	1	3	4	5	5	6	97.333333
2	GP	F	15	U	LE3	T	1	1	...	2	3	3	10	7	8	10	92.000000
3	GP	F	15	U	GT3	T	4	2	...	1	1	5	2	15	14	15	100.000000
4	GP	F	16	U	GT3	T	3	3	...	1	2	5	4	6	10	10	100.000000
..
390	MS	M	20	U	LE3	A	2	2	...	4	5	4	11	9	9	9	92.000000
391	MS	M	17	U	LE3	T	3	1	...	3	4	2	3	14	16	16	89.333333
392	MS	M	21	R	GT3	T	1	1	...	3	3	3	3	10	8	7	100.000000
393	MS	M	18	R	LE3	T	3	2	...	3	4	5	0	11	12	10	94.666667
394	MS	M	19	U	LE3	T	1	1	...	3	3	5	5	8	9	9	100.000000

[395 rows x 34 columns]

school sex age address famsize Pstatus Medu Fedu ... Dalc Walc health absences G1 G2 G3
porcentaje_asistencia

0	GP	F	18	U	GT3	A	4	4	...	1	1	3	4	0	11	11	87.50
1	GP	F	17	U	GT3	T	1	1	...	1	1	3	2	9	11	11	93.75

2	GP	F	15	U	LE3	T	1	1	...	2	3	3	6	12	13	12	81.25
3	GP	F	15	U	GT3	T	4	2	...	1	1	5	0	14	14	14	100.00
4	GP	F	16	U	GT3	T	3	3	...	1	2	5	0	11	13	13	100.00
..
644	MS	F	19	R	GT3	T	2	3	...	1	2	5	4	10	11	10	87.50
645	MS	F	18	U	LE3	T	3	1	...	1	1	1	4	15	15	16	87.50
646	MS	F	18	U	GT3	T	1	1	...	1	1	5	6	11	12	9	81.25
647	MS	M	17	U	LE3	T	3	1	...	3	4	2	6	10	10	10	81.25
648	MS	M	18	R	LE3	T	3	2	...	3	4	5	4	10	11	11	87.50

[649 rows x 34 columns]

clase de portugues

32

school sex age address famsize Pstatus Medu Fedu ... Dalc Walc health absences G1 G2 G3
porcentaje_asistencia

0	GP	F	18	U	GT3	A	4	4	...	1	1	3	6	5	6	6	94.666667
1	GP	F	17	U	GT3	T	1	1	...	1	1	3	4	5	5	6	97.333333
2	GP	F	15	U	LE3	T	1	1	...	2	3	3	10	7	8	10	92.000000
3	GP	F	15	U	GT3	T	4	2	...	1	1	5	2	15	14	15	100.000000
4	GP	F	16	U	GT3	T	3	3	...	1	2	5	4	6	10	10	100.000000
..
390	MS	M	20	U	LE3	A	2	2	...	4	5	4	11	9	9	9	92.000000
391	MS	M	17	U	LE3	T	3	1	...	3	4	2	3	14	16	16	89.333333
392	MS	M	21	R	GT3	T	1	1	...	3	3	3	3	10	8	7	100.000000
393	MS	M	18	R	LE3	T	3	2	...	3	4	5	0	11	12	10	94.666667
394	MS	M	19	U	LE3	T	1	1	...	3	3	5	5	8	9	9	100.000000

[395 rows x 34 columns]

	school	sex	age	address	famsize	Pstatus	Medu	Fedu	Mjob	...	goout	Dalc	Walc	health					
	absences	G1	G2	G3	extra														
0	GP	F	18	U	GT3	A	4	4	at_home	...	4	1	1	3	4	0	11	11	0
1	GP	F	17	U	GT3	T	1	1	at_home	...	3	1	1	3	2	9	11	11	0
2	GP	F	15	U	LE3	T	1	1	at_home	...	2	2	3	3	6	12	13	12	0
3	GP	F	15	U	GT3	T	4	2	health	...	2	1	1	5	0	14	14	14	0
4	GP	F	16	U	GT3	T	3	3	other	...	2	1	2	5	0	11	13	13	0
..
644	MS	F	19	R	GT3	T	2	3	services	...	2	1	2	5	4	10	11	10	0
645	MS	F	18	U	LE3	T	3	1	teacher	...	4	1	1	1	4	15	15	16	0
646	MS	F	18	U	GT3	T	1	1	other	...	1	1	1	5	6	11	12	9	0
647	MS	M	17	U	LE3	T	3	1	services	...	5	3	4	2	6	10	10	10	0
648	MS	M	18	R	LE3	T	3	2	services	...	1	3	4	5	4	10	11	11	0