

Examples (R)

```
students<-read.table("H:/students.csv", sep=";", header=T)
```

```
> students
```

	ID	last	first	City	State	Gender	status	Major	Country	Age	SAT	score	height	read
1	1	DOE01	JANE01	Los Angeles	California	Female	Graduate	Politics	US	30	2263	67	61	5
2	2	DOE02	JANE02	Sedona	Arizona	Female	Undergraduate	Math	US	19	2006	63	64	7
3	3	DOE01	JOE01	Elmira	New York	Male	Graduate	Math	US	26	2221	78	73	6
4	4	DOE02	JOE02	Lackawana	New York	Male	Graduate	Econ	US	33	1716	78	68	3
5	5	DOE03	JOE03	Defiance	Ohio	Male	Graduate	Econ	US	37	1701	65	71	6
6	6	DOE04	JOE04	Tel Aviv	Israel	Male	Graduate	Econ	Israel	25	1786	69	67	5
7	7	DOE05	JOE05	Cimax	North Carolina	Male	Graduate	Politics	US	39	1577	96	70	5
8	8	DOE03	JANE03	Liberal	Kansas	Female	Undergraduate	Politics	US	21	1842	87	62	5
9	9	DOE04	JANE04	Montreal	Canada	Female	Undergraduate	Math	Canada	18	1813	91	62	6
10	10	DOE05	JANE05	New York	New York	Female	Graduate	Math	US	33	2041	71	66	5
11	11	DOE06	JOE06	Hot Coffe	Mississippi	Male	Undergraduate	Econ	US	18	1787	82	67	3
12	12	DOE06	JANE06	Java	Virginia	Female	Graduate	Math	US	38	1513	79	59	5
13	13	DOE07	JOE07	Varna	Bulgaria	Male	Graduate	Politics	Bulgaria	30	1637	79	63	4
14	14	DOE08	JOE08	Moscow	Russia	Male	Graduate	Politics	Russia	30	1512	70	75	6
15	15	DOE07	JANE07	Drunkard Creek	New York	Female	Undergraduate	Math	US	21	1338	82	64	5
16	16	DOE08	JANE08	Mexican Hat	Utah	Female	Undergraduate	Econ	US	18	1821	80	63	3
17	17	DOE09	JANE09	Amsterdam	Holland	Female	Undergraduate	Math	Holland	19	1494	75	60	3
18	18	DOE10	JANE10	Mexico	Mexico	Female	Graduate	Politics	Mexico	31	2248	95	59	4
19	19	DOE11	JANE11	Caracas	Venezuela	Female	Undergraduate	Math	Venezuela	18	2252	92	68	5
20	20	DOE09	JOE09	San Juan	Puerto Rico	Male	Graduate	Politics	US	33	1923	95	63	7
21	21	DOE12	JANE12	Remote	Oregon	Female	Undergraduate	Econ	US	19	1727	67	62	7
22	22	DOE10	JOE10	New York	New York	Male	Undergraduate	Econ	US	21	1872	82	73	4
23	23	DOE13	JANE13	The X	Massachusetts	Female	Graduate	Politics	US	25	1767	89	68	6
24	24	DOE14	JANE14	Beijing	China	Female	Undergraduate	Math	China	18	1643	79	65	6
25	25	DOE11	JOE11	Stockholm	Sweden	Male	Undergraduate	Politics	Sweden	19	1919	88	64	4
26	26	DOE12	JOE12	Embarrass	Minnesota	Male	Graduate	Econ	US	28	1434	96	71	4
27	27	DOE13	JOE13	Intercourse	Pennsylvania	Male	Undergraduate	Math	US	20	2119	88	71	5
28	28	DOE15	JANE15	Loco	Oklahoma	Female	Undergraduate	Econ	US	20	2309	64	68	6
29	29	DOE14	JOE14	Buenos Aires	Argentina	Male	Graduate	Politics	Argentina	30	2279	85	72	3
30	30	DOE15	JOE15	Acme	Louisiana	Male	Undergraduate	Econ	US	19	1907	79	74	3

```
> |
```

```
> library(pastecs)
```

```
Loading required package: boot
```

```
> stat.desc(students[10:14])
```

	Age	SAT	score	height	read
nbr.val	30.000000	3.000000e+01	30.0000000	3.000000e+01	30.0000000
nbr.null	0.000000	0.000000e+00	0.0000000	0.000000e+00	0.0000000
nbr.na	0.000000	0.000000e+00	0.0000000	0.000000e+00	0.0000000
min	18.000000	1.338000e+03	63.0000000	5.900000e+01	3.0000000
max	39.000000	2.309000e+03	96.0000000	7.500000e+01	7.0000000
range	21.000000	9.710000e+02	33.0000000	1.600000e+01	4.0000000
sum	756.000000	5.546700e+04	2411.0000000	1.993000e+03	146.0000000
median	23.000000	1.817000e+03	79.5000000	6.650000e+01	5.0000000
mean	25.200000	1.848900e+03	80.3666667	6.643333e+01	4.8666667
SE.mean	1.254326	5.022838e+01	1.8460790	8.505351e-01	0.2335795
CI.mean.0.95	2.565384	1.027286e+02	3.7756555	1.739540e+00	0.4777237
var	47.200000	7.568671e+04	102.2402299	2.170230e+01	1.6367816
std.dev	6.870226	2.751122e+02	10.1113911	4.658573e+00	1.2793677
coef.var	0.272628	1.487978e-01	0.1258157	7.012402e-02	0.2628838

```
install.packages("pastecs")
```

