```
import pandas as pd
```

```
diamond = pd.read_csv("diamonds.csv",index_col=0)
```

Double-click (or enter) to edit

```
diamond.head(7)
```

	carat	cut	color	clarity	depth	table	price	x	y	z
1	0.23	Ideal	E	SI2	61.5	55.0	326	3.95	3.98	2.43
2	0.21	Premium	E	SI1	59.8	61.0	326	3.89	3.84	2.31
3	0.23	Good	E	VS1	56.9	65.0	327	4.05	4.07	2.31
4	0.29	Premium	I	VS2	62.4	58.0	334	4.20	4.23	2.63
5	0.31	Good	J	SI2	63.3	58.0	335	4.34	4.35	2.75
6	0.24	Very Good	J	VVS2	62.8	57.0	336	3.94	3.96	2.48
7	0.24	Very Good	I	VVS1	62.3	57.0	336	3.95	3.98	2.47

```
diamond.tail(7)
```

	carat	cut	color	clarity	depth	table	price	x	y	z
53934	0.70	Very Good	E	VS2	61.2	59.0	2757	5.69	5.72	3.49
53935	0.72	Premium	D	SI1	62.7	59.0	2757	5.69	5.73	3.58
53936	0.72	Ideal	D	SI1	60.8	57.0	2757	5.75	5.76	3.50
53937	0.72	Good	D	SI1	63.1	55.0	2757	5.69	5.75	3.61
53938	0.70	Very Good	D	SI1	62.8	60.0	2757	5.66	5.68	3.56
53939	0.86	Premium	H	SI2	61.0	58.0	2757	6.15	6.12	3.74
53940	0.75	Ideal	D	SI2	62.2	55.0	2757	5.83	5.87	3.64

```
diamond.describe()
```

	carat	depth	table	price	x	
count	53940.000000	53940.000000	53940.000000	53940.000000	53940.000000	53940.0
mean	0.797940	61.749405	57.457184	3932.799722	5.731157	5.7
std	0.474011	1.432621	2.234491	3989.439738	1.121761	1.1
min	0.200000	43.000000	43.000000	326.000000	0.000000	0.0
25%	0.400000	61.000000	56.000000	950.000000	4.710000	4.7

```
diamond["cut"].describe()
```

```
count     53940
unique        5
top       Ideal
freq      21551
Name: cut, dtype: object
```

```
diamond["color"].describe()
```

```
count     53940
unique        7
top           G
freq      11292
Name: color, dtype: object
```

```
diamond["clarity"].describe()
```

```
count     53940
unique        8
top         SI1
freq      13065
Name: clarity, dtype: object
```

```
diamond["clarity"].unique()
```

```
array(['SI2', 'SI1', 'VS1', 'VS2', 'VVS2', 'VVS1', 'I1', 'IF'],
      dtype=object)
```

```
diamond["color"].unique()
```

```
array(['E', 'I', 'J', 'H', 'F', 'G', 'D'], dtype=object)
```

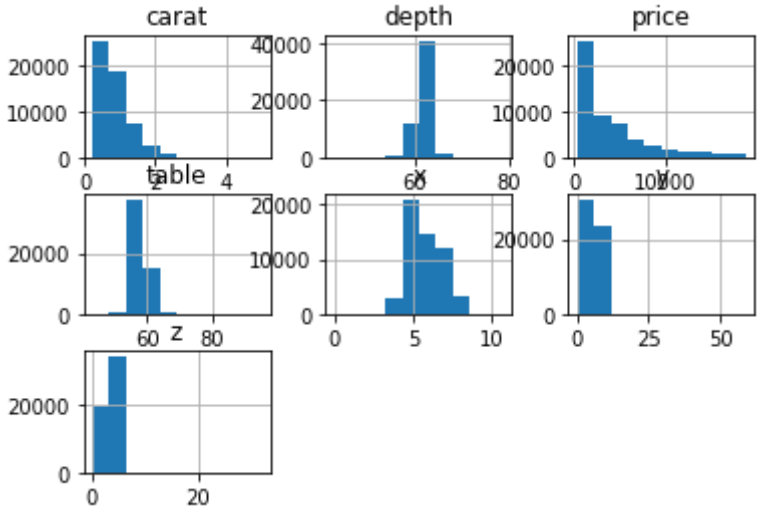
```
diamond["cut"].unique()
```

```
array(['Ideal', 'Premium', 'Good', 'Very Good', 'Fair'], dtype=object)
```

```
%matplotlib
```

```
Using matplotlib backend: agg
```

```
histogram = diamond.hist(column=["carat","depth","price","table","x","y","z"])
```



✓ 0s completed at 11:49 PM