[redacted]
log type:
opened on: **29 Sep 2025, 01:44:28**

1 . des

[redacted]
Observations: **88**
Variables: **10** **17 Mar 2002 12:21**

Variable name	Storage type	Display format	Value label	Variable label
price	float	%9.0g		**house price, $1000s**
assess	float	%9.0g		**assessed value, $1000s**
bdrms	byte	%9.0g		**number of bdrms**
lotsize	float	%9.0g		**size of lot in square feet**
sqrft	int	%9.0g		**size of house in square feet**
colonial	byte	%9.0g		**=1 if home is colonial style**
lprice	float	%9.0g		**log(price)**
lassess	float	%9.0g		**log(assess**
llotsize	float	%9.0g		**log(lotsize)**
lsqrft	float	%9.0g		**log(sqrft)**

Sorted by:

2 . br

3 . sum

Variable	Obs	Mean	Std. dev.	Min	Max
price	**88**	**293.546**	**102.7134**	**111**	**725**
assess	**88**	**315.7364**	**95.31444**	**198.7**	**708.6**
bdrms	**88**	**3.568182**	**.8413926**	**2**	**7**
lotsize	**88**	**9019.864**	**10174.15**	**1000**	**92681**
sqrft	**88**	**2013.693**	**577.1916**	**1171**	**3880**
colonial	**88**	**.6931818**	**.4638161**	**0**	**1**
lprice	**88**	**5.63318**	**.3035727**	**4.70953**	**6.586172**
lassess	**88**	**5.717994**	**.2621131**	**5.291796**	**6.563291**
llotsize	**88**	**8.905104**	**.5440601**	**6.907755**	**11.43692**
lsqrft	**88**	**7.57261**	**.2586883**	**7.065613**	**8.263591**

4 . reg price sqrft bdrms

Source	SS	df	MS		
Model	**580009.152**	**2**	**290004.576**	Prob > F	**0.0000**
Residual	**337845.354**	**85**	**3974.65122**	R-squared	**0.6319**
Total	**917854.506**	**87**	**10550.0518**	Root MSE	**63.045**

	Number of obs = **88**
	F(2, 85) = **72.96**
	Prob > F = **0.0000**
	R-squared = **0.6319**
	Adj R-squared = **0.6233**
	Root MSE = **63.045**

price	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
sqrft	**.1284362**	**.0138245**	**9.29**	**0.000**	**.1009495**	**.1559229**
bdrms	**15.19819**	**9.483517**	**1.60**	**0.113**	**-3.657582**	**34.05396**
_cons	**-19.315**	**31.04662**	**-0.62**	**0.536**	**-81.04399**	**42.414**

```
. if sqrft == 2438 & bdrms = 4
=exp not allowed
r(101);

. display -19.315 + 0.1284362*2438 + 15.19819*4
354.60522

. list ehat in 1
variable ehat not found
r(111);

. predict ehat, resid

. list ehat in 1
```

	ehat
1.	-54.60525

```
. br
```

[redacted]

```
. br

. des
```

[redacted]

```
 Observations:           935
    Variables:            17                  14 Apr 1999 13:41
```

Variable name	Storage type	Display format	Value label	Variable label
wage	int	%9.0g		monthly earnings
hours	byte	%9.0g		average weekly hours
IQ	int	%9.0g		IQ score
KWW	byte	%9.0g		knowledge of world work score
educ	byte	%9.0g		years of education
exper	byte	%9.0g		years of work experience
tenure	byte	%9.0g		years with current employer
age	byte	%9.0g		age in years
married	byte	%9.0g		=1 if married
black	byte	%9.0g		=1 if black
south	byte	%9.0g		=1 if live in south
urban	byte	%9.0g		=1 if live in SMSA
sibs	byte	%9.0g		number of siblings
brthord	byte	%9.0g		birth order
meduc	byte	%9.0g		mother's education
feduc	byte	%9.0g		father's education
lwage	float	%9.0g		natural log of wage

```
Sorted by:
```

```
15 . sum
```

Variable	Obs	Mean	Std. dev.	Min	Max
wage	935	957.9455	404.3608	115	3078
hours	935	43.92941	7.224256	20	80
IQ	935	101.2824	15.05264	50	145
KWW	935	35.74439	7.638788	12	56
educ	935	13.46845	2.196654	9	18
exper	935	11.56364	4.374586	1	23
tenure	935	7.234225	5.075206	0	22
age	935	33.08021	3.107803	28	38
married	935	.8930481	.3092174	0	1
black	935	.1283422	.3346495	0	1
south	935	.3411765	.4743582	0	1
urban	935	.7176471	.4503851	0	1
sibs	935	2.941176	2.306254	0	14
brthord	852	2.276995	1.595613	1	10
meduc	857	10.68261	2.849756	0	18
feduc	741	10.21727	3.3007	0	18
lwage	935	6.779004	.4211439	4.744932	8.032035

```
16 . reg IQ educ
```

Source	SS	df	MS		
Model	56280.9277	1	56280.9277	Number of obs	= 935
Residual	155346.531	933	166.502177	F(1, 933)	= 338.02
				Prob > F	= 0.0000
Total	211627.459	934	226.581862	R-squared	= 0.2659
				Adj R-squared	= 0.2652
				Root MSE	= 12.904

IQ	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
educ	3.533829	.1922095	18.39	0.000	3.156616	3.911042
_cons	53.68715	2.622933	20.47	0.000	48.53962	58.83469

```
17 . reg ln_wage educ
variable ln_wage not found
r(111);

18 . gen ln_wage = ln_wage
ln_wage not found
r(111);

19 . reg ln_wage educ
variable ln_wage not found
r(111);

20 . gen ln_wage = ln(wage)
```

```
21 . reg ln_wage educ
```

Source	SS	df	MS	Number of obs	=	935
				F(1, 933)	=	100.70
Model	16.1377042	1	16.1377042	Prob > F	=	0.0000
Residual	149.518579	933	.160255712	R-squared	=	0.0974
				Adj R-squared	=	0.0964
Total	165.656283	934	.177362188	Root MSE	=	.40032

ln_wage	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
educ	.0598392	.0059631	10.03	0.000	.0481366	.0715418
_cons	5.973063	.0813737	73.40	0.000	5.813366	6.132759

```
22 . display _b[educ]
.0598392

23 . reg ln_wage educ IQ
```

Source	SS	df	MS	Number of obs	=	935
				F(2, 932)	=	69.42
Model	21.4779447	2	10.7389723	Prob > F	=	0.0000
Residual	144.178339	932	.154697788	R-squared	=	0.1297
				Adj R-squared	=	0.1278
Total	165.656283	934	.177362188	Root MSE	=	.39332

ln_wage	Coefficient	Std. err.	t	P>|t|	[95% conf.	interval]
educ	.0391199	.0068382	5.72	0.000	.0256998	.05254
IQ	.0058631	.0009979	5.88	0.000	.0039047	.0078215
_cons	5.658288	.0962408	58.79	0.000	5.469414	5.847162

```
24 . display .0391199 + (.0058631 * 3.533829)
.05983909

25 . log close
      name:  <unnamed>
       log:  [redacted]
  log type:
 closed on:  29 Sep 2025, 03:53:39
```