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Notes:

1. Unicode is supported; see [help unicode advice](#).
2. More than 2 billion observations are allowed; see [help obs advice](#).
3. Maximum number of variables is set to 5000; see [help set_maxvar](#).

```
1 . insheet using https://raw.githubusercontent.com/sdegiorgi
> s/Quant2/master/Quant2FinalPaper2.csv, clear
(16 vars, 282 obs)
```

```
2 . d
```

Contains data
 obs: 282
 vars: 16
 size: 29,046

variable name	storage type	display format	value label	variable label
county	str10	%10s		County
id2	double	%10.0g		Id2
geography	str51	%51s		Geography
estimatemediav	float	%9.0g		Estimate;
				Median year
				householder moved
				into unit -- -
				Total:
v5	int	%8.0g		Estimate;
				Median year
				householder moved
				into unit -- - Owner
				occupied
				Estimate;
				Median year
				householder moved
				into unit -- -
				Renter occupied
percentyearho~u	float	%9.0g		Percent; YEAR
				HOUSEHOLDER MOVED
				INTO UNIT - Occupied
				housing units -
				Moved in 20
				Percent; YEAR
				HOUSEHOLDER MOVED
				INTO UNIT - Occupied
				housing units -
				Moved in 19
estimateselec~t	int	%8.0g		Estimate;
				SELECTED MONTHLY
				OWNER COSTS (SMOC) -
				Housing units with a
				mortgage
v10	int	%8.0g		Estimate;
				SELECTED MONTHLY
				OWNER COSTS (SMOC) -

v11	int	%8.0g	Housing units with a mortgage - Estimate;	
			SELECTED MONTHLY OWNER COSTS (SMOC) - Housing units without a mortgage	
v12	int	%8.0g	Estimate;	
			SELECTED MONTHLY OWNER COSTS (SMOC) - Housing units without a mortgage	
smocforhousin~u	int	%8.0g	SMOC for housing units with and without a mortgage	
estimategross~a	int	%8.0g	Estimate;	
			GROSS RENT - Occupied units paying rent	
v15	int	%8.0g	Estimate;	
			GROSS RENT - Occupied units paying rent - Median (dollars)	
estimateei~2017i	long	%12.0g	Estimate;	
			INCOME AND BENEFITS (IN 2017 INFLATION-ADJUSTED DOLLARS) - Total house	

Sorted by:

Note: Dataset has changed since last saved.

3 . d v15

variable name	storage type	display format	value label	variable label
v15	int	%8.0g		Estimate; GROSS RENT - Occupied units paying rent - Median (dollars)

```
4 . inspect
```

county: County			Number of Observations	
> bservations			Total	Integers
>	eggers	Nonintegers		
>	-	-	Negative	-
>	-	-	Zero	-
>	-	-	Positive	-
>	-	-	Total	-
>	-	-	Missing	282

```

5 .          -9.0e+307          282
   (0 unique value)

id2: Id2          Number of O
> bservations

```

				Total	Int
> egers	Nonintegers				
#			Negative	-	
> #	-	-	Zero	-	
> #	-	-	Positive	282	
> #	-	282			
#					
> #	-	282	Total	282	
> #	.	.	Missing	-	
				282	

```

3.40e+10      3.40e+10
(12 unique values)

geography: Geography          Number of O
> bservations

```

				Total	Int
> egers	Nonintegers				
			Negative	-	
>	-	-	Zero	-	
>	-	-	Positive	-	
>	-	-			
>	-	-	Total	-	
				282	

```

6 .          -9.0e+307          282
   (0 unique value)

estimatemedianyearhouseholdermov: Estim          Number of O
> bservations

```

				Total	Int
> egers	Nonintegers				
	#		Negative	-	
>	-	-	Zero	-	
>	-	-	Positive	282	
>	280	#			
	#	#			
	#	#	Total	282	
>	280	#	Missing	-	
	.	#			
				282	

```

1993      2013
(23 unique values)

```

v5: Estimate; Median year householder m Number of O
 > bservations

				Total	Int
> egers	Nonintegers				
>	#		Negative	-	
>	-	-	Zero	-	
>	-	-	Positive	282	
>	282	# #			
>		# #			
>	# #		Total	282	
>	282	-	Missing	-	
>	. .	# # #			
1983	2006			282	
(21 unique values)					

v6: Estimate; Median year householder m Number of O
 > bservations

				Total	Int
> egers	Nonintegers				
>	#		Negative	-	
>	-	-	Zero	-	
>	-	-	Positive	282	
>	282	# -			
>		#			
>	# #		Total	282	
>	282	-	Missing	-	
>	. .	# # .			
2004	2017			282	
(13 unique values)					

percentyearhouseholdermovedintou: Perce Number of O
 > bservations

					Total	Int
>	egers	Nonintegers				
>		#			Negative	-
>		-			Zero	1
>		#	#		Positive	281
>		1				
>		#	#			
>		27		254		
>		#	#			
>		#	#		Total	282
>		28		254	Missing	-
>		#	#	# . .		
0				28.5	282	
(More than 99 unique values)						

v8: Percent; YEAR HOUSEHOLDER MOVED INT Number of O
> bservations

				Total	Int
> egers	Nonintegers				
	#		Negative	-	
>	-	-	Zero	3	
>	#	-	Positive	279	
>	31	#			
>	#	#			
	#	#			
>	34	#	Total	282	
>	#	#	Missing	-	
0		28.2		282	

(More than 99 unique values)

estimatesselectedmonthlyownercost: Estim Number of O
> bservations

				Total	Int
> egers	Nonintegers				
	#		Negative	-	
>	-	-	Zero	2	
>	2	-	Positive	280	
>	280	-			
	#	#			
	#	#	Total	282	
>	282	-	Missing	-	
0		2605		282	

(More than 99 unique values)

v10: Estimate; SELECTED MONTHLY OWNER C Number of O
> bservations

				Total	Int
> egers	Nonintegers				
	#		Negative	-	
>	-	-	Zero	3	
>	3	-	Positive	279	
>	279	-			
	#				
	#		Total	282	
>	282	-	Missing	-	
0		4000		282	

(More than 99 unique values)

v11: Estimate; SELECTED MONTHLY OWNER C Number of O
> bservations

				Total	Int
> egers	Nonintegers				
	#		Negative	-	
>	-	-	Zero	2	
>	2	-	Positive	280	
>	#	#			
>	280	-			
	#	#			
	#	#	Total	282	
>	282	-	Missing	-	
	#	#			
0		1142		282	

(More than 99 unique values)

v12: Estimate; SELECTED MONTHLY OWNER C Number of O
> bservations

				Total	Int
> egers	Nonintegers				
	#		Negative	-	
>	-	-	Zero	5	
>	5	-	Positive	277	
>	277	-			
	#	#			
	#	#	Total	282	
>	282	-	Missing	-	
	.	.			
0		1500		282	

(More than 99 unique values)

smocforhousingunitswithandwithou: SMOC Number of O
> bservations

				Total	Int
> egers	Nonintegers				
	#		Negative	-	
>	-	-	Zero	3	
>	3	-	Positive	279	
>	279	-			
	#				
	#		Total	282	
>	282	-	Missing	-	
	.	#			
0		3207		282	

(More than 99 unique values)

estimategrossrentoccupiedunitspa: Estim Number of O
> bservations

				Total	Int
> egers	Nonintegers				
#		Negative	-		
> #	-	Zero	-		
> #	-	Positive	282		
> 282	-				
#					
#	#	Total	282		
> 282	-				
#	#	Missing	-		
19	2410		282		
(More than 99 unique values)					

v15: Estimate; GROSS RENT - Occupied un Number of O
> bservations

				Total	Int
> egers	Nonintegers				
#		Negative	-		
> -	-	Zero	-		
> #	-	Positive	282		
> 282	-				
#					
#	#	Total	282		
> 282	-				
.	#	Missing	-		
271	3093		282		
(More than 99 unique values)					

estimateincomeandbenefitsin2017i: Estim Number of O
> bservations

				Total	Int
> egers	Nonintegers				
#		Negative	-		
> -	-	Zero	-		
> #	-	Positive	282		
> 282	-				
#					
#	#	Total	282		
> 282	-				
#	#	Missing	-		
12629	196989		282		
(More than 99 unique values)					

```
7 . reg v5 smocforhousingunitswithandwithou estimateincomeand
> benefitsin2017i
```

Source	SS	df	MS	Number o
> f obs =	282			F(2, 279
>) =	8.73			
> Model =	214.647306	2	107.323653	Prob > F
> Residual =	0.0002			
> d =	3431.05482	279	12.2976875	R-square
	0.0589			Adj R-sq
> uared =	0.0521			
> Total =	3645.70213	281	12.9740289	Root MSE
> =	3.5068			

v5	Coef.	Std. Err.	t	P> t	[
> 95% Con					
> f. Interval]					
smocforhou~u	.0010829	.0008182	1.32	0.187	-. .
> 0005276					
> 0026935					
estima~2017i	.0000161	.0000128	1.26	0.209	-9
> .10e-06					
> 0000414					
cons	1996.64	.7930017	2517.83	0.000	1
> 995.079					
> 1998.201					

```
8 . estimates store model1
```

```
9 . reg v6 v15 estimateincomeandbenefitsin2017i
```

Source	SS	df	MS	Number o
> f obs =	282			F(2, 279
>) =	10.26			
> Model =	58.5527757	2	29.2763879	Prob > F
> Residual =	0.0001			
> d =	796.230912	279	2.85387424	R-square
	0.0685			Adj R-sq
> uared =	0.0618			
> Total =	854.783688	281	3.04193483	Root MSE
> =	1.6893			

v6	Coef.	Std. Err.	t	P> t	[
> 95% Con					
> f. Interval]					
v15	.0012798	.0002974	4.30	0.000	.
> 0006945					
> 0018651					
estima~2017i	-.0000124	4.00e-06	-3.09	0.002	-. .
> 0000202					
> -4.49e-06					
cons	2010.924	.3757995	5351.06	0.000	2
> 010.184					
> 2011.664					

10. estimates store model2

11. esttab model1, order(_cons) b(a3) t(a3) sfmt(a3) nobase label mtitles varwid
> th(40) stats(N r2 F)

	(1) model1
Constant	1996.6*** (2517.8)
SMOC for housing units with and without	0.00108 (1.324)
Estimate; INCOME AND BENEFITS (IN 2017 I	0.0000161 (1.259)
N	282
r2	0.0589
F	8.727

t statistics in parentheses

* p<0.05, ** p<0.01, *** p<0.001

12. esttab model*, order(_cons) b(a3) t(a3) sfmt(a3) nobase label mtitles varwid
> th(40) stats(N r2 F)

	(1) model1	(2) model2
Constant	1996.6*** (2517.8)	2010.9*** (5351.1)
SMOC for housing units with and without	0.00108 (1.324)	
Estimate; INCOME AND BENEFITS (IN 2017 I	0.0000161 (1.259)	-0.0000124** (-3.091)
Estimate; GROSS RENT - Occupied units pa		0.00128*** (4.304)
N	282	282
r2	0.0589	0.0685
F	8.727	10.26

t statistics in parentheses

* p<0.05, ** p<0.01, *** p<0.001

13. translate @Results /home/ru/svd30/Desktop/Quant2FinalPaper2.pdf.pdf