

# Data Analysis Assignment 1

## Cleaning

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### **Cleaned Age**

- Dropped if age value was either 0 or 999 as to not skew the qualitative data.
- Dropped 8 observations.

### **Cleaned Sex**

- Dropped if sex value was 0 (unknown sex) as there were so few, saving them as a dummy felt needless.
- Dropped 5 observations.

### **Cleaned Education**

- Dropped if education value was 9 (unknown if college degree) as there were so few, saving them as a dummy felt needless.
- Dropped 22 observations

## Creating Dummy Variables

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I split the following original variables into a number of dummy variables, keeping the unknowns when they made up a sizable # of observations, as I can easily transform the data again later to remove them if I need just the known dummies:

### **Sex**

1. Male; HoH is a male.
2. Female; HoH is a female.

### **Homeownership**

1. OwnsHome; HoH owns their home.
2. Rents; HoH rents their home.
3. UnknownHome; HoH refused to report whether owns or rents home.

### **FatherEducation**

1. FatherPrimaryEd; HoH's father had at least some primary education.

2. FatherHighschool; HoH's father had graduated highschool.
3. FatherSomeCollege; HoH's father had some college done.
4. FatherBachelors; HoH's father had a bachelor's degree.
5. FatherAdvanced; HoH's father had an advanced degree.

### **MotherEducation**

1. MotherPrimaryEd; HoH's mother had at least some primary education.
2. MotherHighschool; HoH's mother had graduated highschool.
3. MotherSomeCollege; HoH's mother had some college done.
4. MotherBachelors; HoH's mother had a bachelor's degree.
5. MotherAdvanced; HoH's mother had an advanced degree.

### **Race**

1. White; HoH is white.
2. Black; HoH is black.
3. Native; HoH is American Indian, Aleut, or Eskimo.
4. Asian; HoH is Asian or Pacific Islander.
5. Latino; HoH mentions Latino origin.
6. RaceOther; HoH is another unspecified race.
7. RaceUnknown; HoH refused to report race.

### **Education**

1. CollegeDegree; HoH has a college degree.
2. NoCollegeDegree; HoH doesn't have a college degree.
3. SomeCollege; HoH has a some college completed.

### **MaritalStatus**

1. Married; HoH is currently married.
2. Single; HoH is single and never married.
3. Widowed; HoH is widowed.
4. Divorced; HoH is now divorced.

5. Separated; HoH is separated from partner but still married.

## Data Table

	A	B	C	D	E	F
1	Variable Name	Observations	Mean	Std. Dev.	Min	Max
2	Age	8,482	44.51	16.08	16	99
3	Income	8,482	23,862.07	34,580.84	0	928,967
4	Male	8,482	0.69	0.46	0	1
5	Female	8,482	0.31	0.46	0	1
6	OwnsHome	8,482	0.57	0.50	0	1
7	Rents	8,482	0.38	0.48	0	1
8	UnknownHome	8,482	0.06	0.24	0	1
9	FatherPrimaryEd	8,482	0.44	0.50	0	1
10	FatherHighschool	8,482	0.24	0.43	0	1
11	FatherSomeCollege	8,482	0.06	0.24	0	1
12	FatherBachelors	8,482	0.06	0.24	0	1
13	FatherAdvanced	8,482	0.04	0.19	0	1
14	MotherPrimaryEd	8,482	0.38	0.49	0	1
15	MotherHighschool	8,482	0.33	0.47	0	1
16	MotherSomeCollege	8,482	0.08	0.27	0	1
17	MotherBachelors	8,482	0.06	0.23	0	1
18	MotherAdvanced	8,482	0.02	0.14	0	1
19	White	8,482	0.60	0.49	0	1
20	Black	8,482	0.35	0.48	0	1
21	Native	8,482	0.01	0.08	0	1
22	Asian	8,482	0.00	0.06	0	1
23	Latino	8,482	0.01	0.07	0	1
24	RaceOther	8,482	0.01	0.11	0	1
25	RaceUnknown	8,482	0.03	0.17	0	1
26	CollegeDegree	8,482	0.22	0.41	0	1
27	NoCollegeDegree	8,482	0.18	0.38	0	1
28	SomeCollege	8,482	0.60	0.49	0	1
29	Married	8,482	0.54	0.50	0	1
30	Single	8,482	0.17	0.38	0	1
31	Widowed	8,482	0.09	0.28	0	1
32	Divorced	8,482	0.14	0.35	0	1
33	Separated	8,482	0.06	0.24	0	1

# Summary

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## Age

- The average age of head of household in 1996 was about 44.5 years of age.

## Income

- The average income for head of household in 1996 was about \$23,862.

## Sex

- 69% of household heads in 1996 were male.
- 31% of household heads in 1996 were female.

## Homeownership

- 57% of household heads in 1996 owned their homes.
- 38% of household heads in 1996 rented their homes.
- 6% of household heads in 1996 refused to answer if they rented or owned their homes.

## Father's Education

- 44% of household heads in 1996 had a father who had some primary education.
- 24% of household heads in 1996 had a father who completed highschool.
- 6% of household heads in 1996 had a father who completed some college.
- 6% of household heads in 1996 had a father who had a bachelor's degree.
- 4% of household heads in 1996 had a father who had an advanced degree.

## Mother's Education

- 38% of household heads in 1996 had a mother who had some primary education.
- 33% of household heads in 1996 had a mother who had completed highschool.
- 8% of household heads in 1996 had a mother who had who completed some college.
- 6% of household heads in 1996 had a mother who had who had a bachelor's degree.
- 2% of household heads in 1996 had a mother who had who had an advanced degree.

## **Race**

- 60% of household heads in 1996 were white.
- 35% of household heads in 1996 were black.
- 1% of household heads in 1996 were native american, aleut, or eskimo.
- <1% of household heads in 1996 were asian or pacific islander.
- 1% of household heads in 1996 were latino.
- 1% of household heads in 1996 were another race.
- 3% of household heads in 1996 were of an unknown race.

## **Head of Household Education**

- 22% of household heads in 1996 had a college degree.
- 18% of household heads in 1996 had no college completed.
- 60% of household heads in 1996 had some college completed.

## **Marital Status**

- 54% of household heads in 1996 were currently married.
- 17% of household heads in 1996 were single, never married.
- 9% of household heads in 1996 were widowed.
- 14% of household heads in 1996 were divorced.
- 6% of household heads in 1996 were separated from their partner but still married.