

Labor Market Analysis

Exploratory Data Analysis

Marjorie Blanco, Joe Thompson, Haodi Tu

Research Questions and Geographic area

Data

We use data from the 2016 ACS for Puerto Rico to examine earnings gaps between individuals who are TBD. The 2016 ACS is a nationally representative sample of 30224 households with a response rate of 97.6% (TBD). The household survey includes questions pertaining to each household member's demographic characteristics, and labor market activity. Our analysis relies on data collected on individuals living in households but not on those living in group quarters.

We restrict our sample to these three racial groups: White, Black and Other. In addition, given our goal of examining earnings differences by ability to speak English and the reporting of earnings in the ACS on an annual basis (wages, salary, commissions, bonuses, tips, and selfemployment income during the past 12 months), we restrict our sample to full-time year-round (FTYR) workers. We define FTYR workers as individuals who report positive earnings over the past year, who worked at least 40 of the past 52 weeks, and who worked at least 35 hr per week in a usual work week over this period.

Sample selection criteria

Task 1:

Examine the first 10 or 20 observations (rows of data) corresponding to variables of interest (columns) and compare the observed values to the data dictionary for person records.

WAGP	SEX	AGEP	RAC1P	RACWHT	RACBLK	RACASN	HISP	MAR	SCHL	ENG	COW	WK
34000	1	47	1	1	0	0	03	1	20	2	1	
13000	1	58	2	0	1	0	03	5	16	3	1	
18000	1	50	1	1	0	0	03	1	22	3	3	
10300	2	39	1	1	0	0	03	1	21	3	1	
28600	2	39	2	0	1	0	03	1	21	1	1	
24800	1	37	2	0	1	0	05	1	21	2	1	
22000	2	47	8	0	0	0	03	5	20	4	3	
19000	2	60	2	0	1	0	03	5	16	2	1	
87000	2	58	1	1	0	0	03	3	20	1	5	
8000	1	33	1	1	0	0	03	5	21	1	1	
22900	1	61	1	1	0	0	03	3	16	4	5	
19000	1	39	2	0	1	0	03	1	20	4	1	
19600	2	36	2	0	1	0	03	1	21	4	5	
48000	1	30	9	1	1	0	03	3	18	1	5	
40000	2	30	1	1	0	0	03	5	18	1	1	
15600	2	41	1	1	0	0	03	5	16	4	1	
12100	1	46	1	1	0	0	03	3	16	4	1	
14000	1	53	1	1	0	0	03	1	16	3	1	
80000	1	38	1	1	0	0	03	5	21	1	1	
15100	2	26	8	0	0	0	03	5	16	4	1	

Task 2:

Compute and examine descriptive statistics including the minimum, maximum, mean, and median for quantitative variables of interest

Wage

	ss16ppr (N = 5,057)
Minimum	150
Maximum	98000
Median	24000
mean (sd)	28,609.17 \$\pm\$ 17,072.31

Age

	ss16ppr (N = 5,057)
Minimum	18
Maximum	64
Median	43
mean (sd)	42.95 \$\pm\$ 10.84

Hours worked

	ss16ppr (N = 5,057)
Minimum	35
Maximum	99
Median	40
mean (sd)	40.93 \$\pm\$ 5.38

Race

RAC1P	Count
White	3481
Some Other	773
Black or African American	570
Two or More Races	215
American Indian and Alaska Native	11
Asian	6
American Indian	1

Ethicity: Hispanic

RACHISP	Count
No	4962
Yes	95

Race: White

RACWHT	Count
No	1376
Yes	3681

Race: Black

RACBLK	Count
No	4297
Yes	760

Race: Asian

RACASN	Count
No	5048
Yes	9

Marital status

MAR1	Count
No	2599
Yes	2458

MAR	Count
Married	2458
Widowed	66
Divorced	917
Separated	100
Never married	1516

Ability to speak English

ENG	n()
NA	1572
Very well	1025
Well	1213
Not well	1247

Educational attainment

SCHL	Count
High school diploma	1116
Some college	783
Associate's degree	789
Bachelor's degree	1701
Master's degree	488
Professional degree	94
Doctorate degree	86

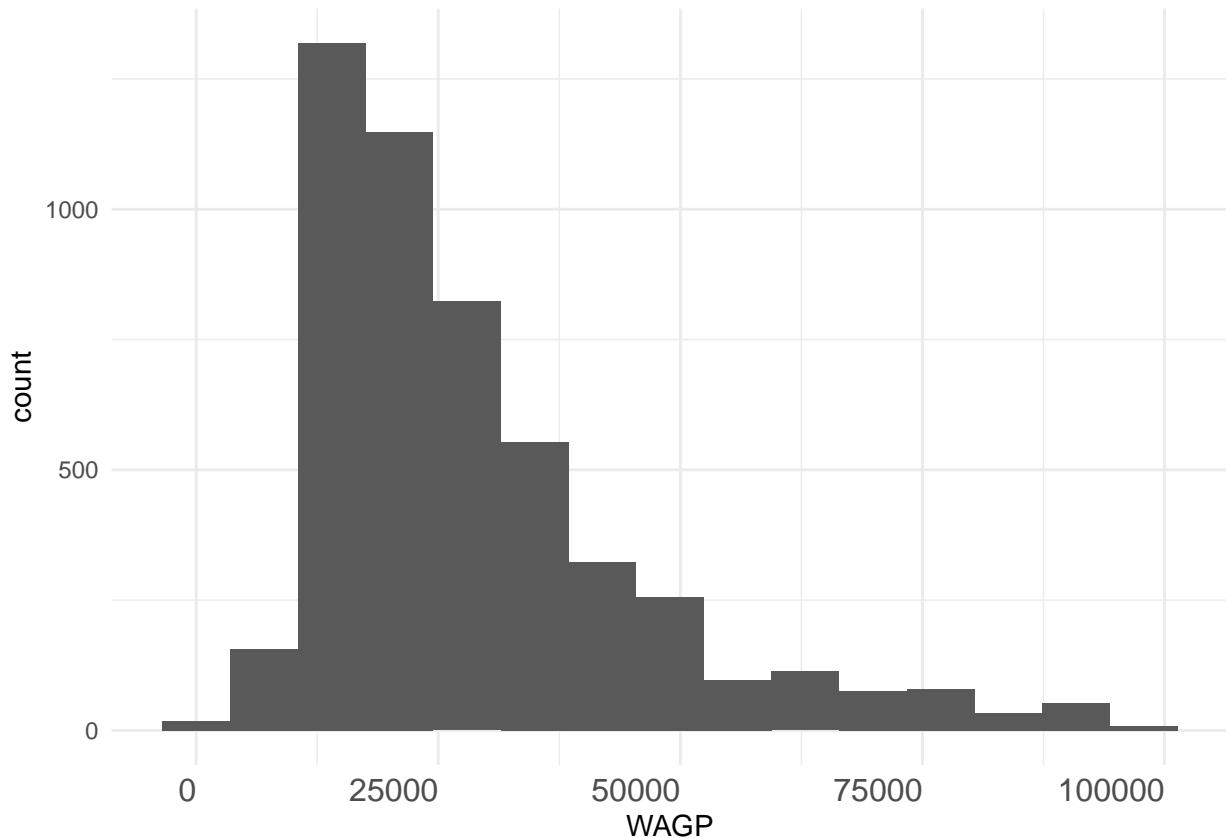
Sex

SEX	Count
Male	2504
Female	2553

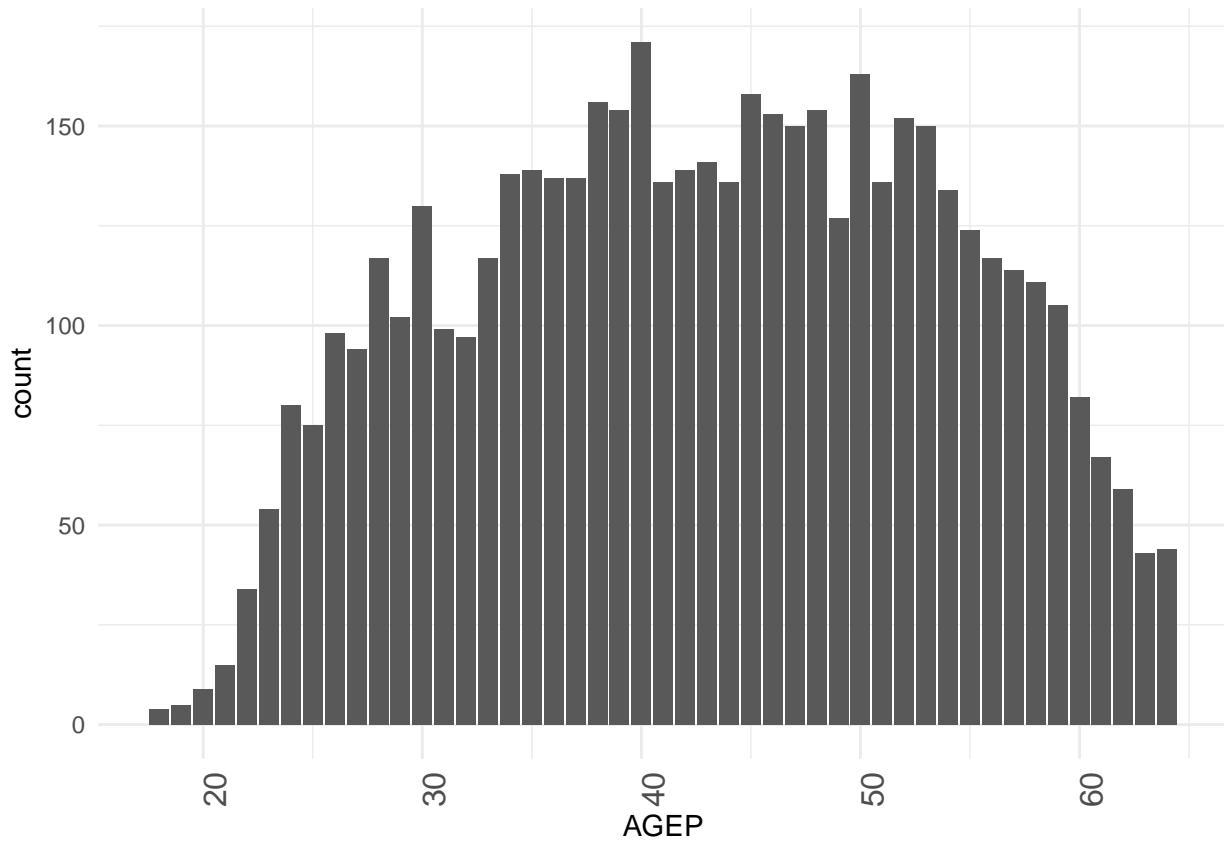
Task 3:

Generate and examine histograms for quantitative variables of interest

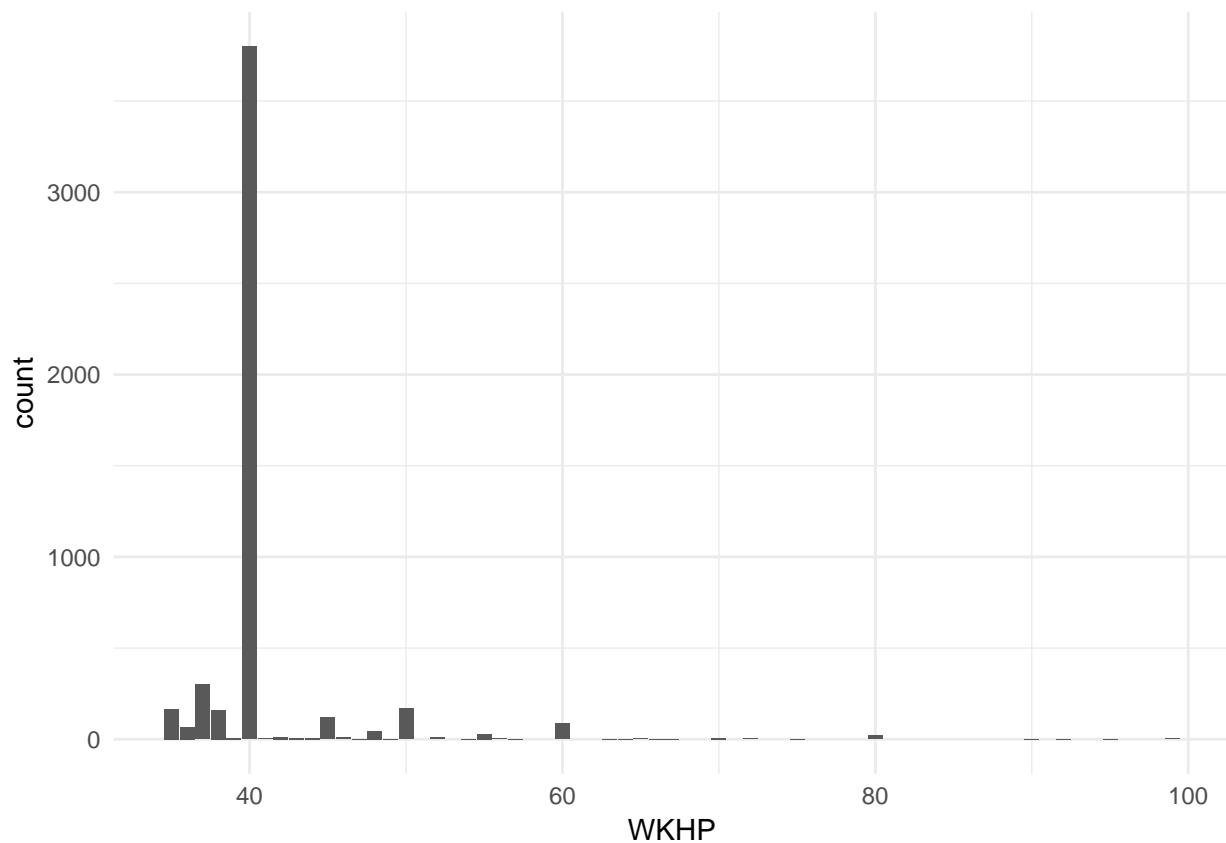
Wage



Age



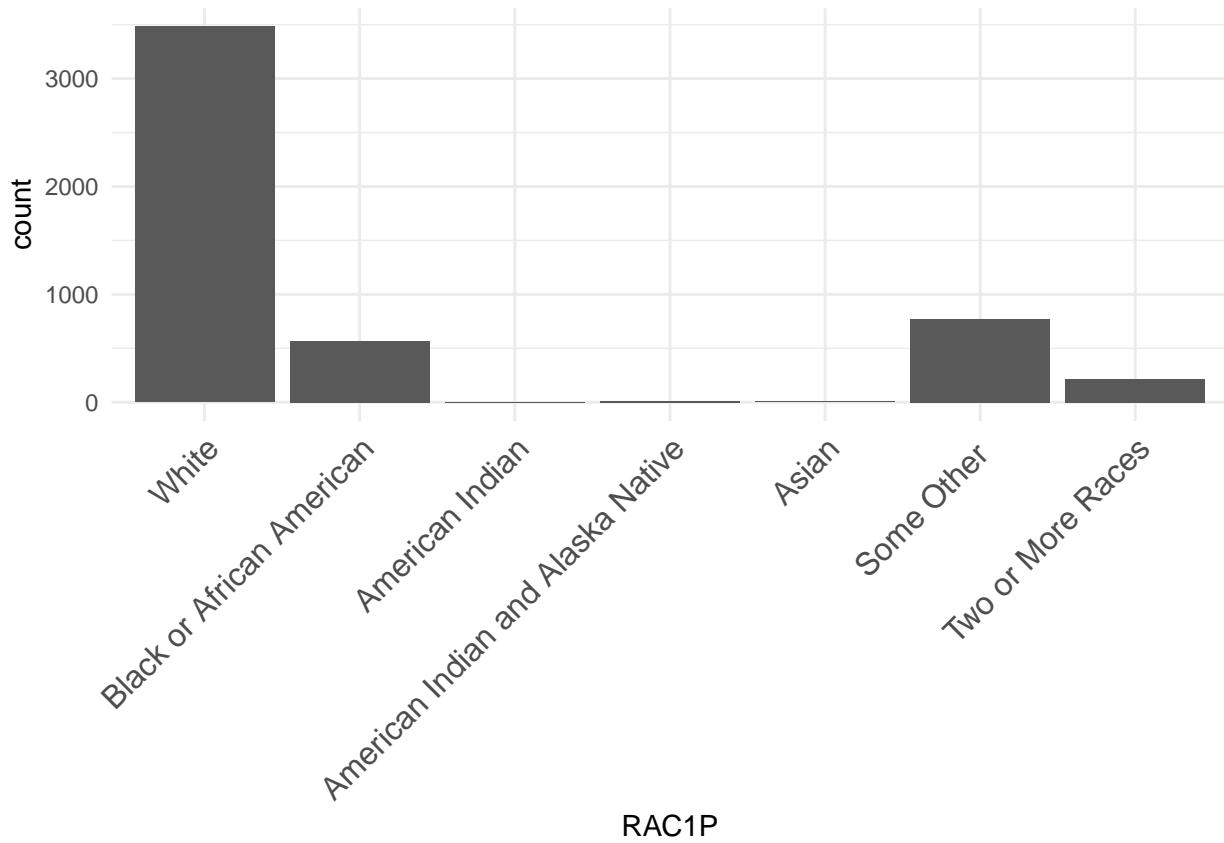
Hours worked



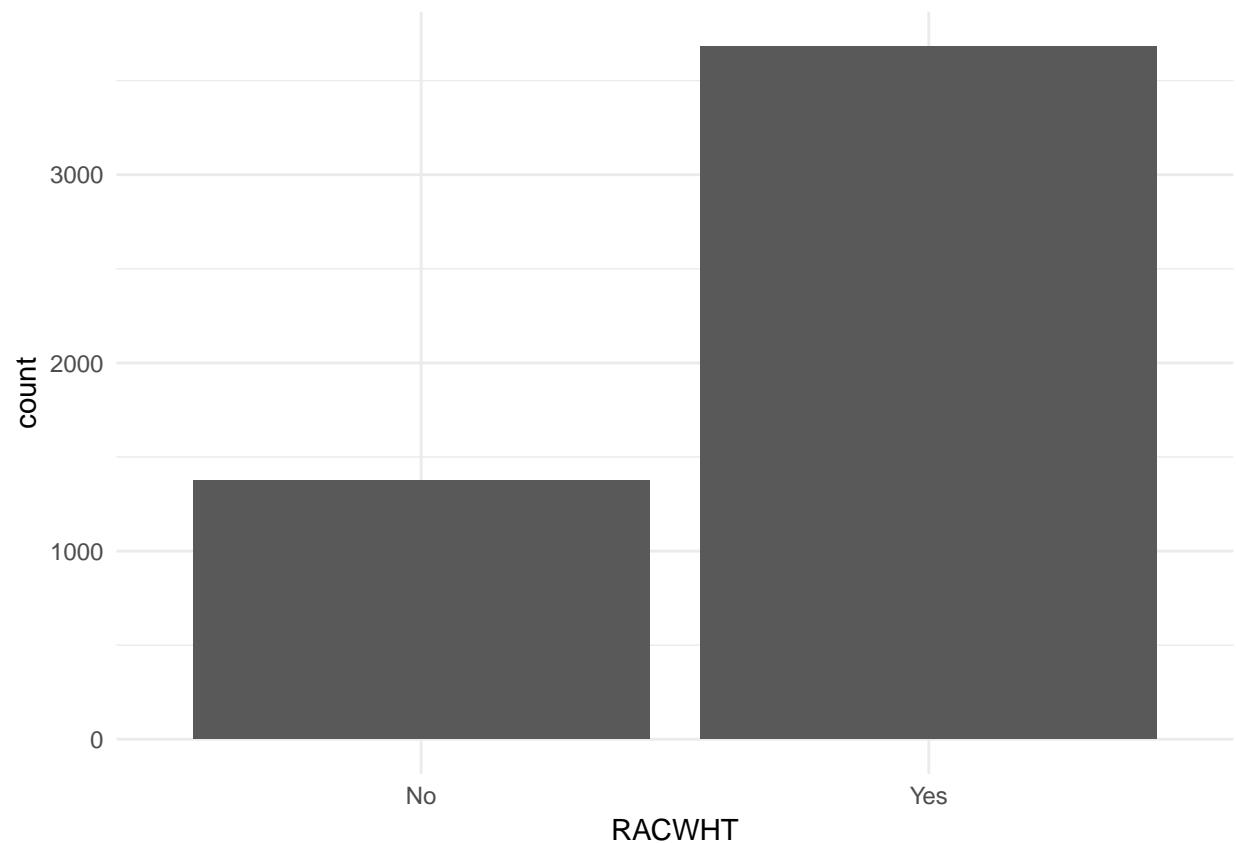
Task 4:

Generate and examine bar charts/graphs for qualitative variables of interest

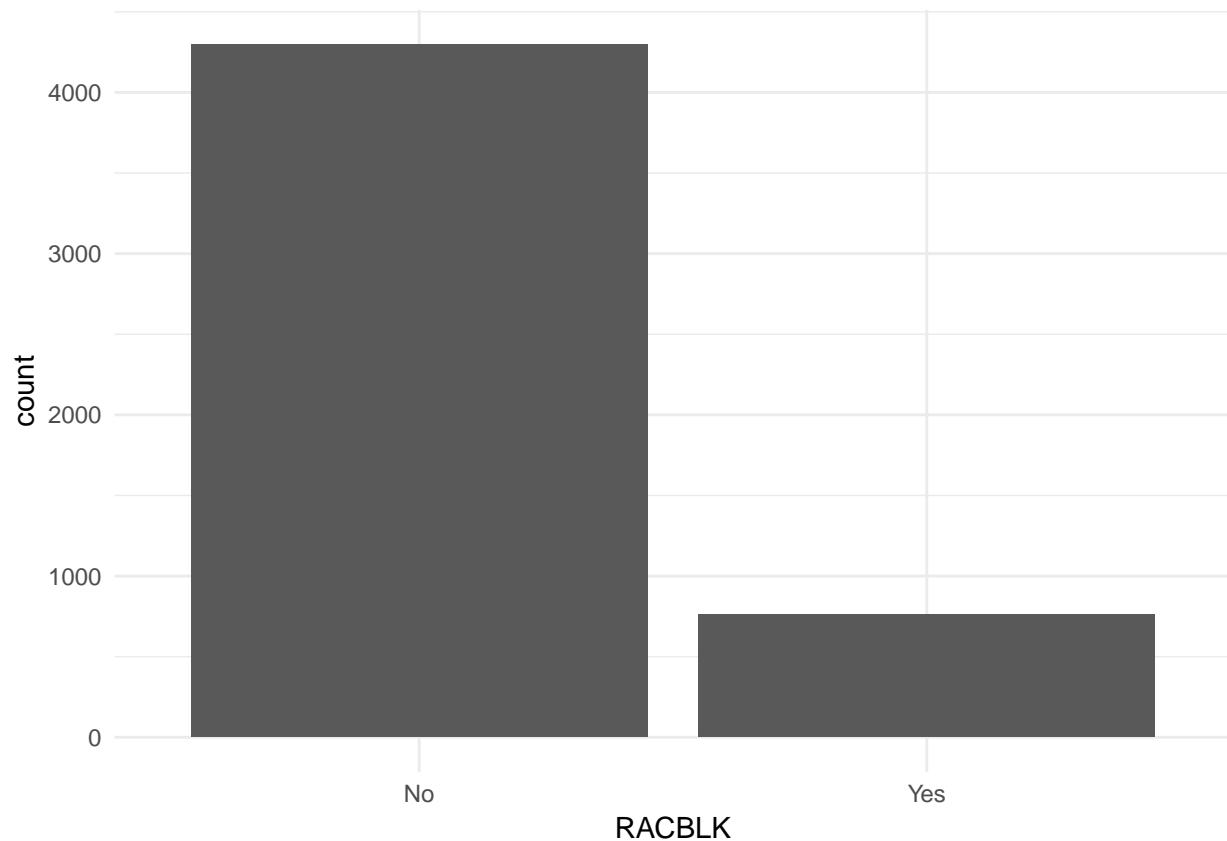
Race



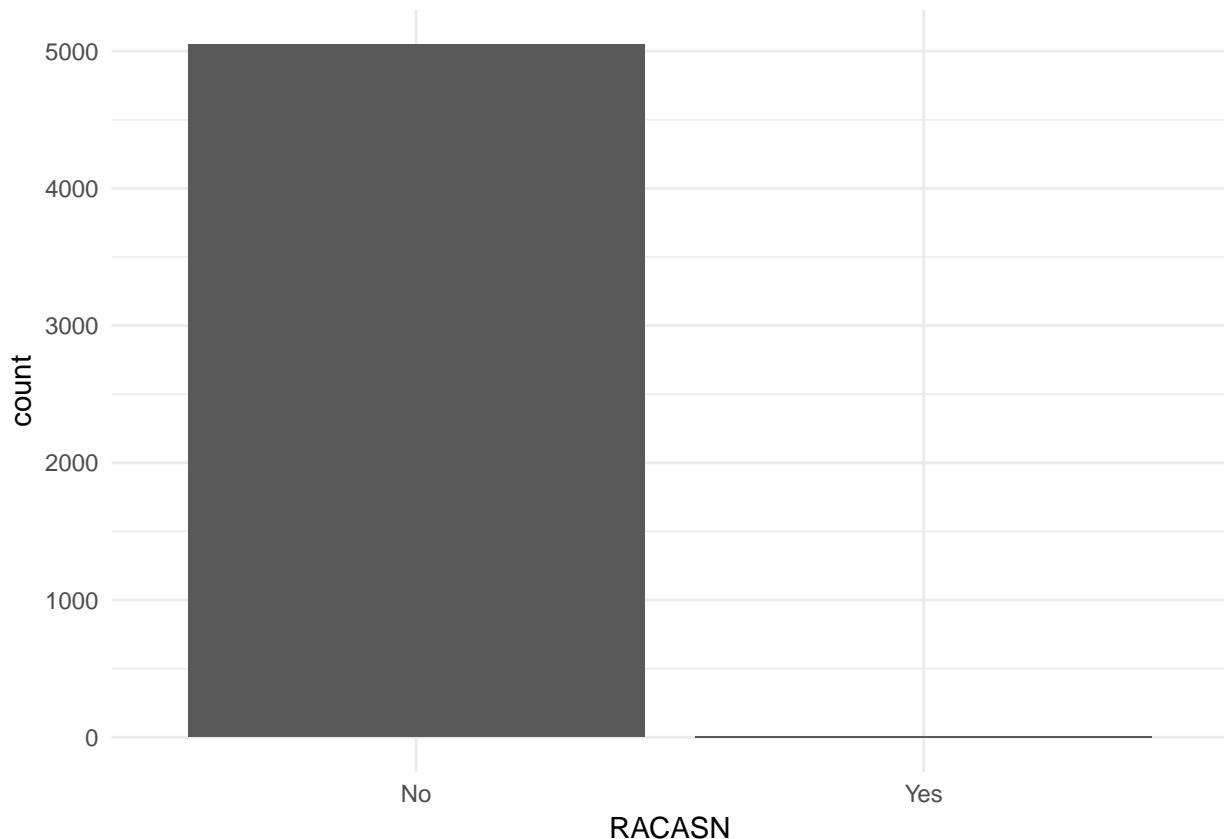
White



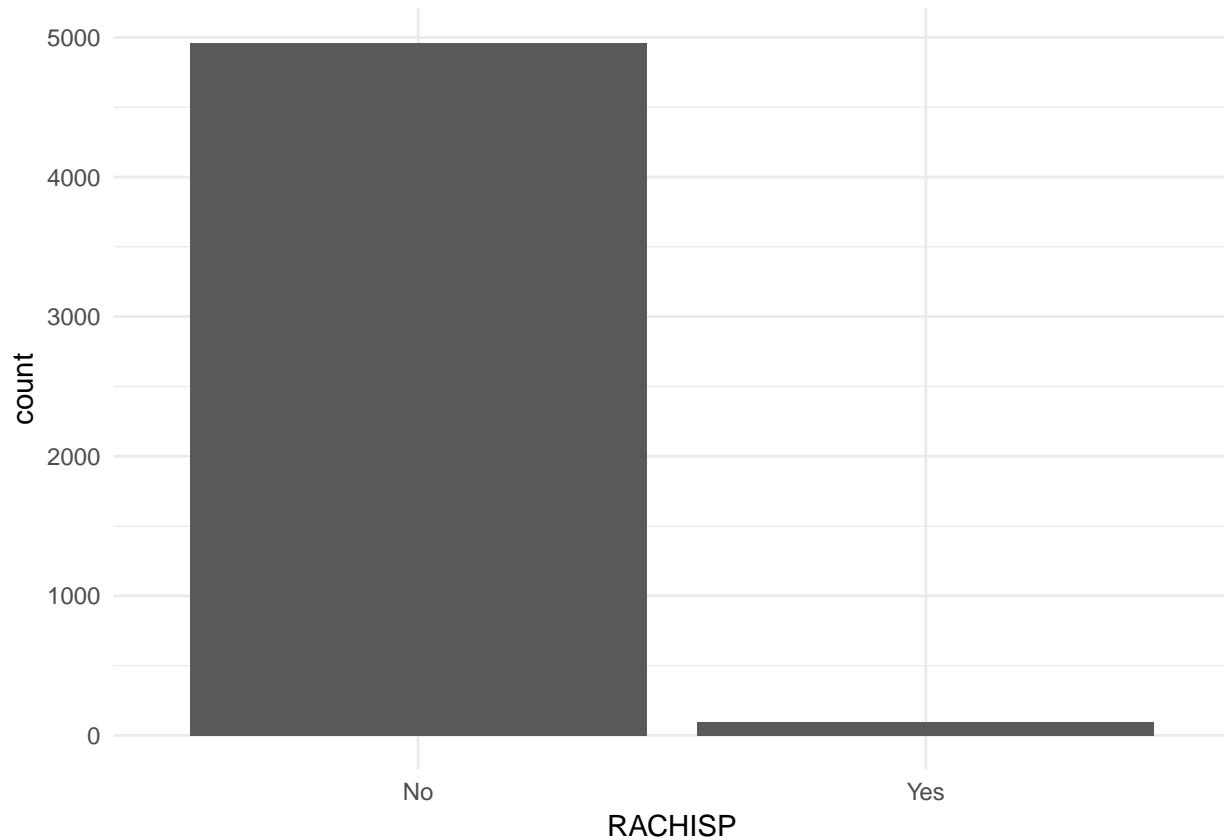
Black



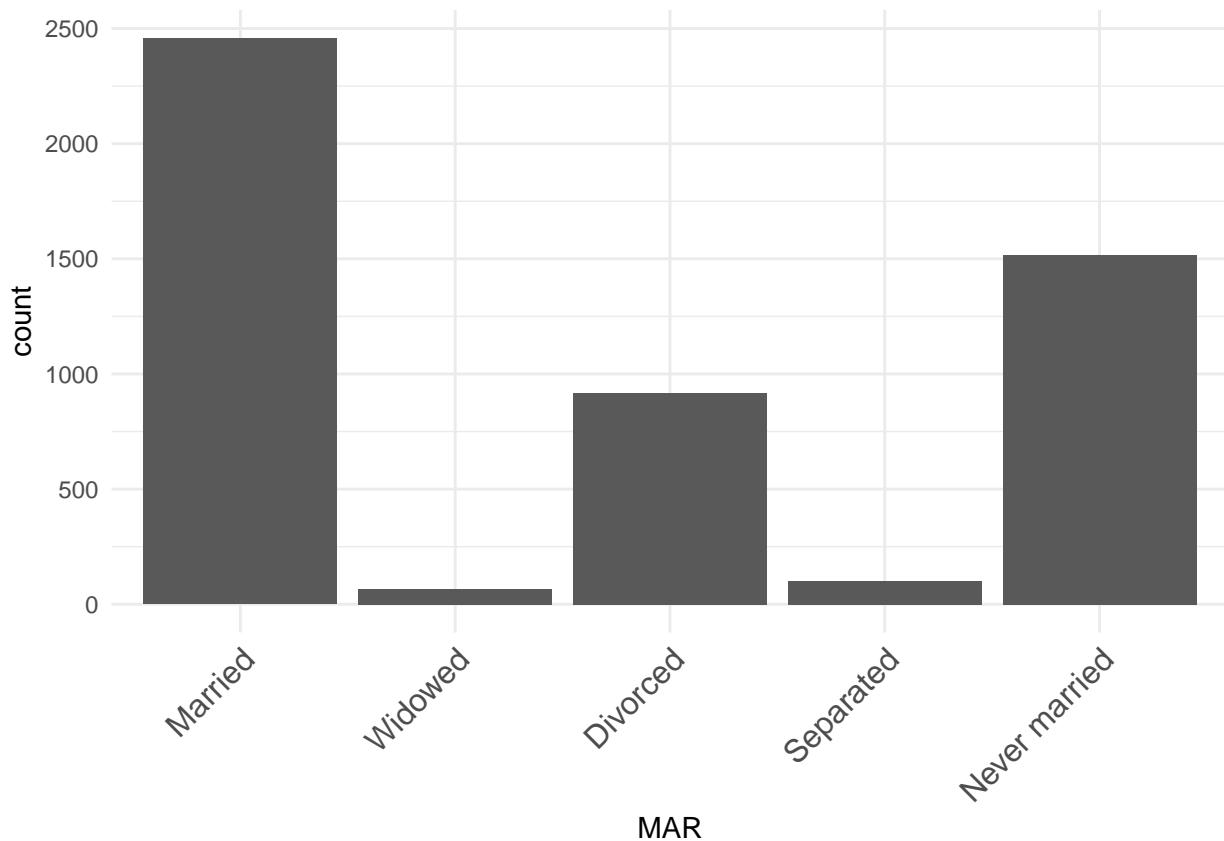
Asian

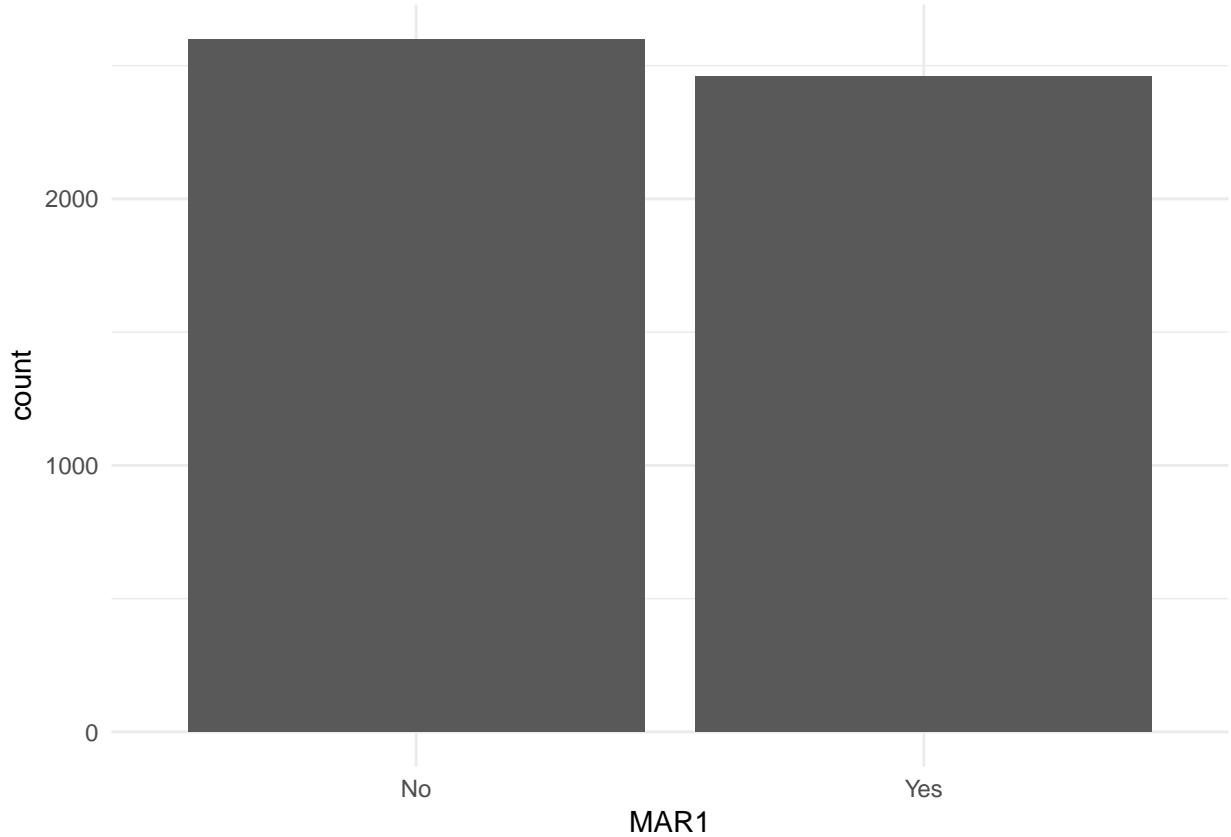


Hispanic

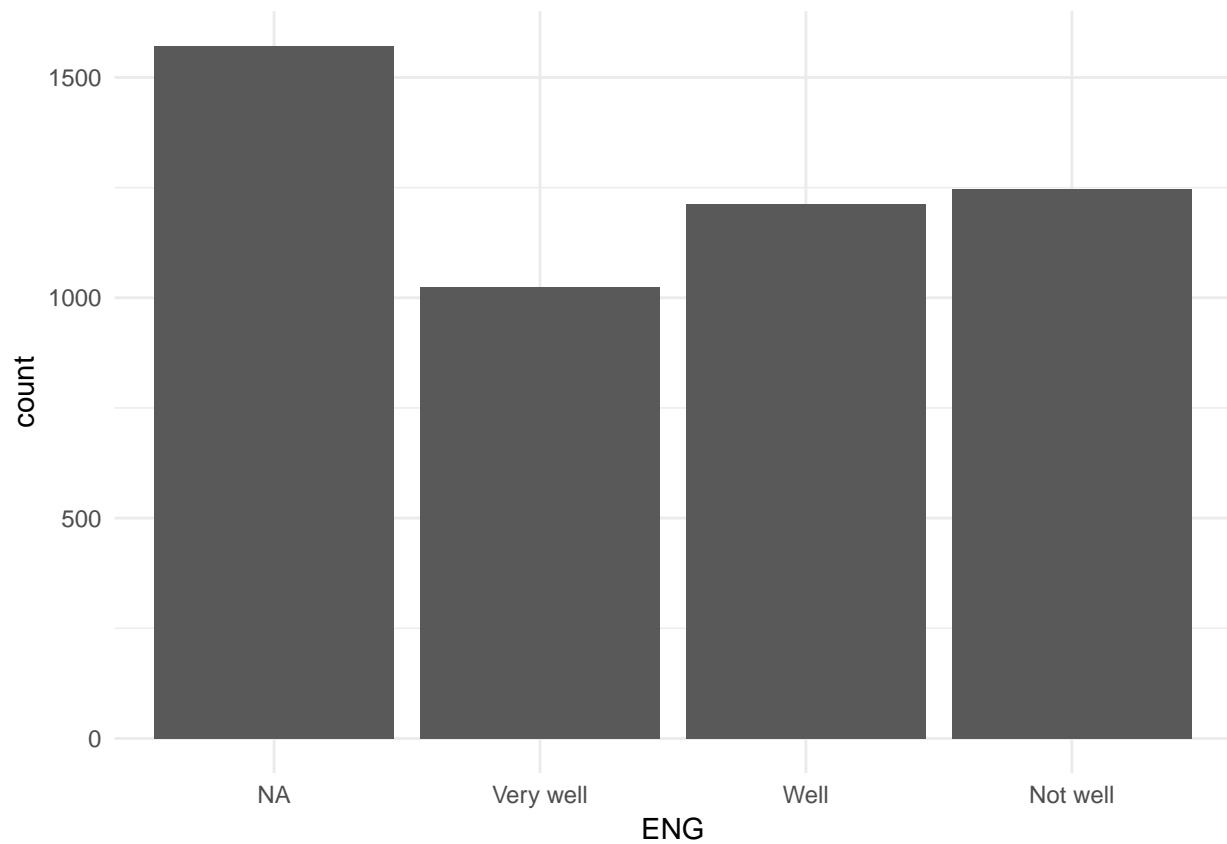


Marital Status

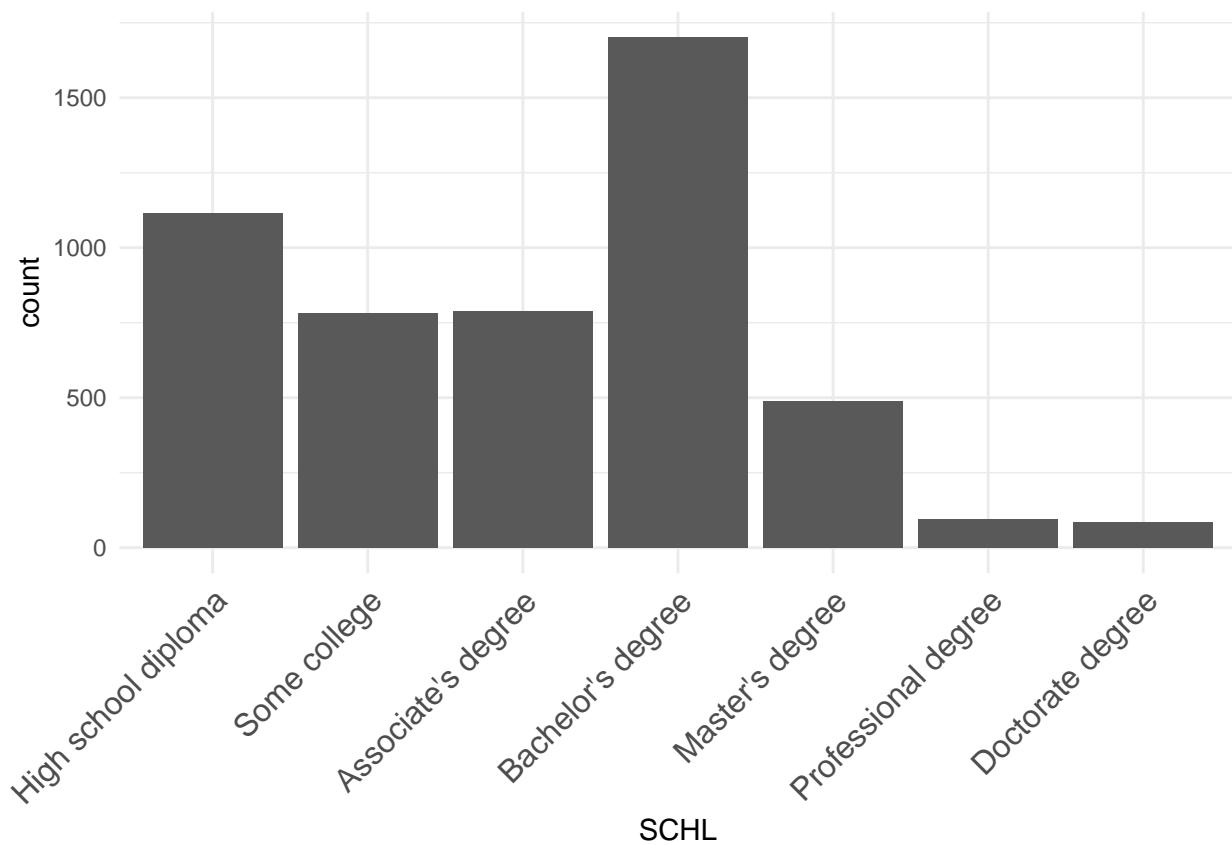




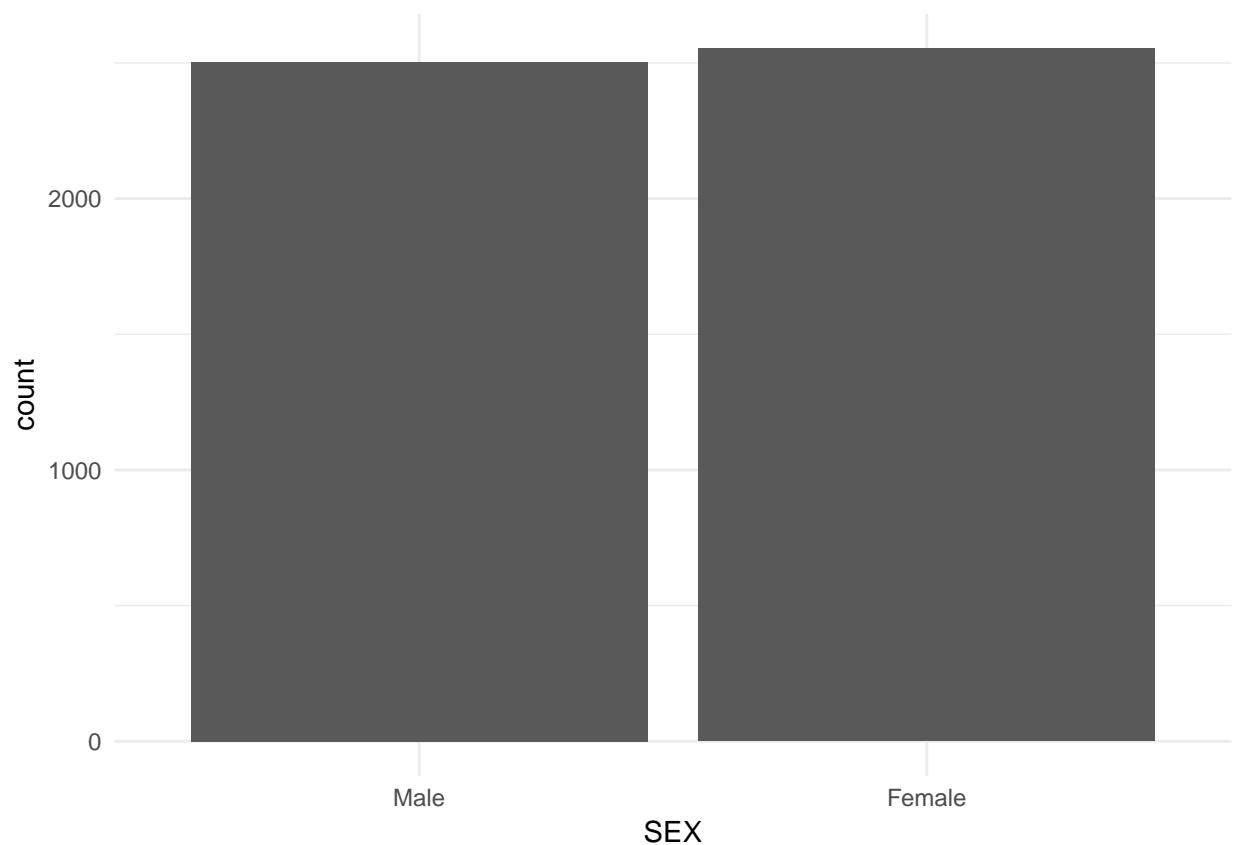
Ability to speak English



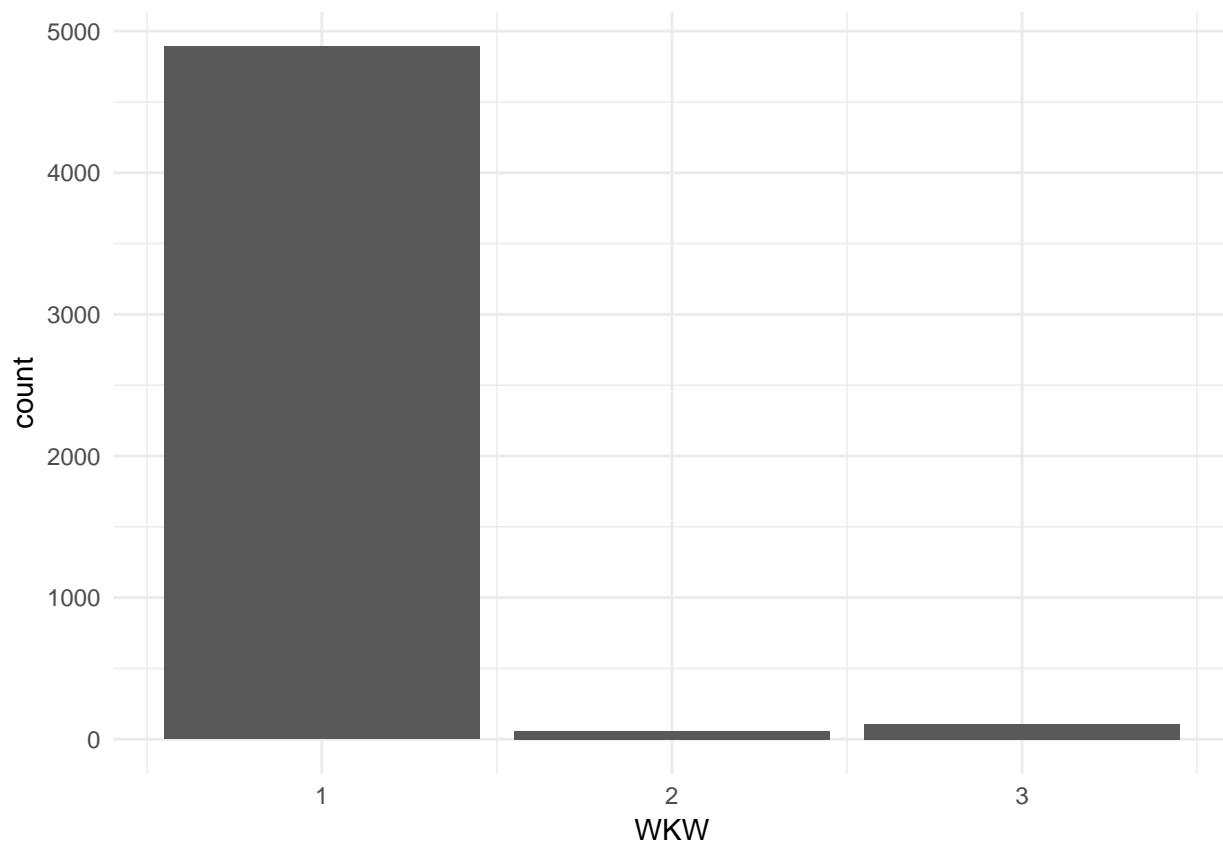
Educational attainment



Sex

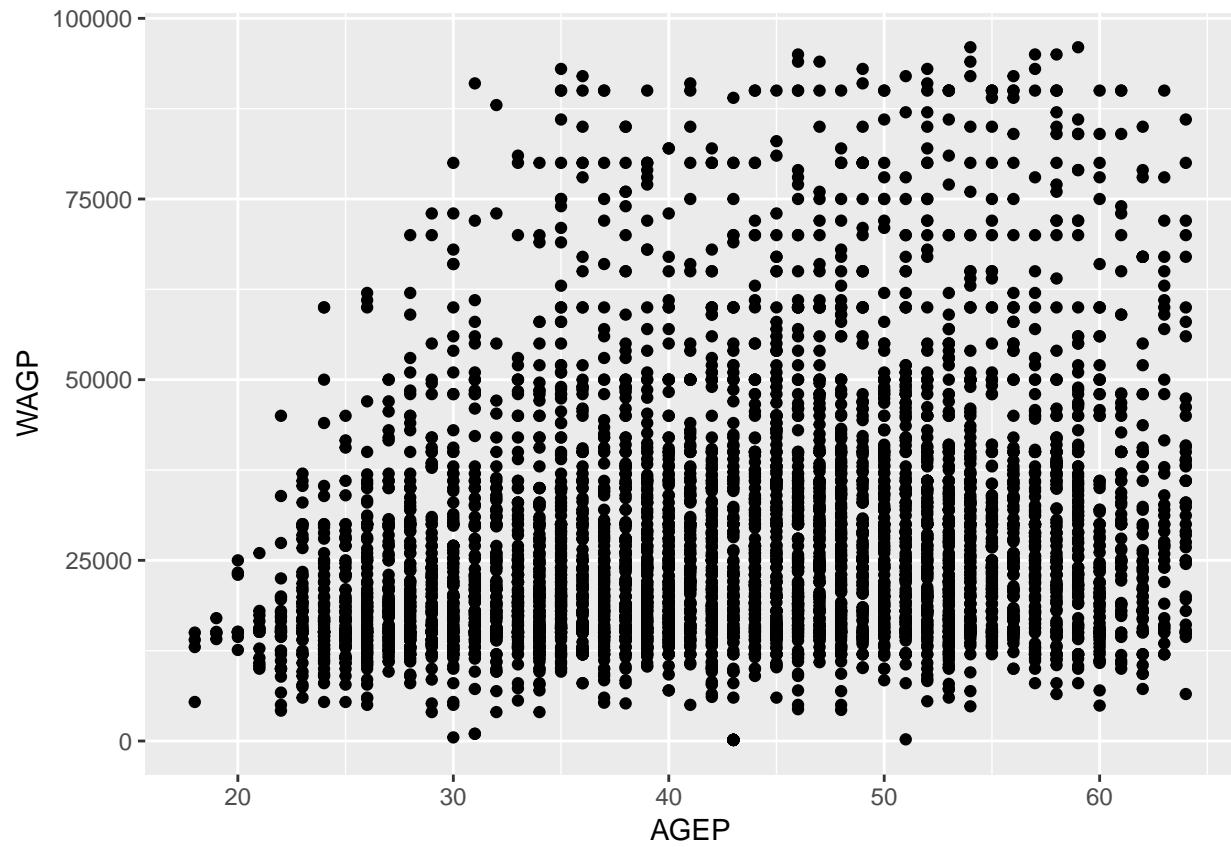


Work week



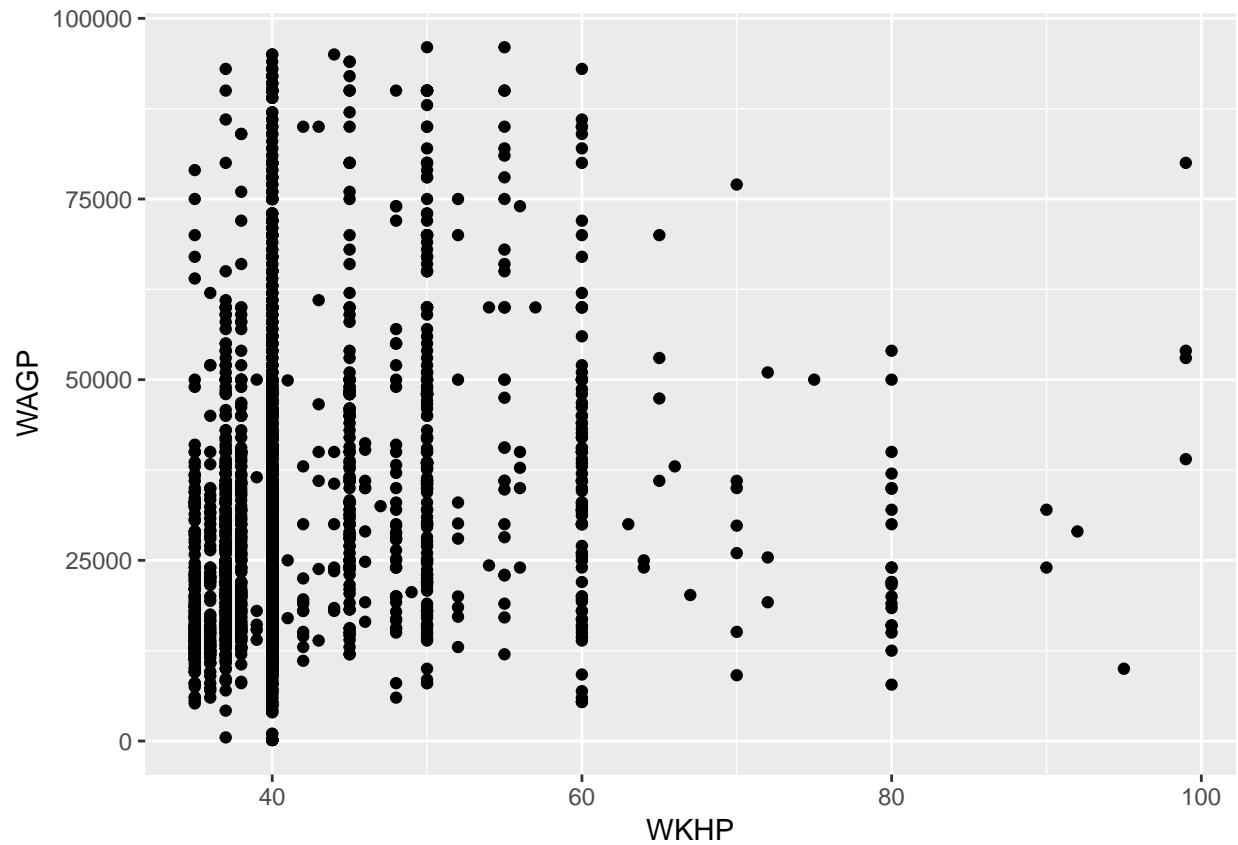
Task 4:

Generate and examine cross tabulations, scatterplots, and/or correlation coefficients of interest



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## [1] 0.2348047
```

TODO: Describe the correlation



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## [1] 0.1829235
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TODO: Describe the correlation