

Econ B2000

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Homework 1

Group:

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Dice results:

	6 (1)	Not 6 (0)
Altered	3	17
Unaltered	7	13

```

> load("d_HHP2020_24.RData")
> #glimpse(d_HHP2020_24) try this later
> d_HHP2020_24[1:10,1:6]
  Age Gender      Education Mar_Stat income_midpoint Race
1   34 female college grad  Married          62500 white
2   65  male some college divorced          30000 white
3   44 female college grad  Married        225000 other
4   56  male some college divorced          12500 white
5   57 female  adv degree   never          62500 white
6   44 female  adv degree  Married        125000 white
7   37 female  adv degree  Married          62500 Black
8   59  male college grad  Married          82500 white
9   51 female      lt hs    never          12500 Black
10  29 female  assoc deg  Married          40000 white
> attach(d_HHP2020_24)
> summary(d_HHP2020_24)

```

```

      Age      Gender      Education
Min.   :17.00   male :410536   lt hs      : 6787
1st Qu.:39.00   female:566464   some hs   : 14934
Median :52.00   trans : 1989   high school :122541
Mean   :52.25   other : 5801   some college:210698
3rd Qu.:65.00                assoc deg   :103575
Max.   :88.00                college grad:279400
                                adv degree  :246855

```

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      Mar_Stat      income_midpoint      Race
Married :556611   Min.   : 12500   white:806002
widowed : 54162   1st Qu.: 40000   Black: 80846
divorced :152705   Median : 82500   Asian: 48885
separated: 17850   Mean    : 95461   other: 49057
never    :195037   3rd Qu.:125000
NA's     : 8425    Max.    :225000
                                NA's     :187771

```

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      Hispanic      Number_people_HH      Number_kids_HH
not Hispanic:895979   Min.    : 1.000   Min.    :0.000
Hispanic      : 88811   1st Qu.: 2.000   1st Qu.:0.000
                                Median : 2.000   Median :0.000
                                Mean    : 2.715   Mean    :0.623
                                3rd Qu.: 4.000   3rd Qu.:1.000
                                Max.    :10.000   Max.    :5.000

```

```

      Number_adults_HH      private_health_ins
Min.    : 1.000   0      : 74413
1st Qu.: 2.000   has private health insurance:607599
Median : 2.000   no private health insurance :149384
Mean    : 2.092   NA's      :153394
3rd Qu.: 2.000
Max.    :10.000

```

```

                                public_health_ins
0      : 74413
has public health insurance:302958

```

no public health insurance :425600
NA's :181819

work_kind
employed by govt : 96450
employed by private co :320047
employed by nonprofit or charity: 74364
self employed : 68547
work for family business : 11698
NA's :413684

workloss DOWN
yes recent household loss of work:171404 Min. :1.000
no :794667 1st Qu.:1.000
NA's : 18719 Median :1.000
Mean :1.634
3rd Qu.:2.000
Max. :4.000
NA's :108234

ANXIOUS	WORRY	INTEREST
Min. :1.000	Min. :1.000	Min. :1.000
1st Qu.:1.000	1st Qu.:1.000	1st Qu.:1.000
Median :2.000	Median :1.000	Median :1.000
Mean :1.906	Mean :1.718	Mean :1.649
3rd Qu.:2.000	3rd Qu.:2.000	3rd Qu.:2.000
Max. :4.000	Max. :4.000	Max. :4.000
NA's :106951	NA's :108419	NA's :108683

YEAR	Begin_Date	K4SUM
Min. :20.00	Min. :2020-04-23	Min. : 4.000
1st Qu.:20.00	1st Qu.:2020-12-09	1st Qu.: 4.000
Median :22.00	Median :2022-04-27	Median : 6.000
Mean :21.73	Mean :2022-05-03	Mean : 6.908
3rd Qu.:23.00	3rd Qu.:2023-08-23	3rd Qu.: 8.000
Max. :24.00	Max. :2024-07-23	Max. :16.000
		NA's :111831

income_midpoint_factor
125000 :145006
62500 :134183
82500 :112727
225000 : 92900
40000 : 85421
(Other):226782
NA's :187771

```
> summary(Age[Gender == "female"])  
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   
 17.00  39.00   52.00   51.62  64.00   88.00   
  
> summary(Age[Gender == "male"])  
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   
 17.00  40.00   54.00   53.29  67.00   88.00
```

```

> summary(Age[Gender == "trans"])
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 17.00  26.00   31.00   36.02  41.00   88.00
> summary(Age[Gender == "other"])
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 17.00  31.00   43.00   45.88  59.00   88.00
> mean(Age[Gender == "female"])
[1] 51.61668
> sd(Age[Gender == "female"])
[1] 15.59165
> mean(Age[Gender == "male"])
[1] 53.28593
> sd(Age[Gender == "male"])
[1] 16.28551

```

I noticed that a large proportion of those represented here have a bachelor's or advanced degree, more than half

Also, they have over 800k white respondents, but only 80k Black respondents, this isn't proportional to data I can find for the country so I think their sample is a bit skewed, I think in class he may have said something about it being a convenience sample?

Also why are the "NA's" so numerous for work_kind?

To take a closer look at the race data I performed the following:

```

> table_race <- table(d_HHP2020_24$Race)
> prop.table(table_race)

      white      Black      Asian      other
0.81845063 0.08209466 0.04964002 0.04981468

```

From what I can find of the latest Census it seems there are only about 5x as many white people as Black people in the US, which makes me wonder about the sample.